UNIVERSITY OF MISSOURI-COLUMBIA

Faculty BULLETIN

Vol. 9, No. 1 August 22, 1973

Readership Survey Data Being Analyzed

Data from the Faculty Bulletin readership survey is currently being analyzed and correlated. Results will be announced in the September issue of the **Bulletin**. Graduate student Helen Matthews, who conducted the survey under the supervision of Dr. Won Chang, School of Journalism, sent out 2,000 questionnaires and received 800 responses, a return of 40 per cent. The **Bulletin** wishes to express its appreciation to the faculty for its remarkably wide participation in the survey.

British Community Experts To Lecture Here This Fall

A team of British authorities in community development will lead a UMC training session this fall for youth specialists and law enforcement officers. Special emphasis will be given to the Ozark Foothills, Meramec, South Central Ozarks, Boonslick, Mark Twain and Green Hills regions of Missouri.

Dr. T.R. and Madge Batten of London will arrive in Columbia Sept. 10 to conduct a series of seminars through Oct. 12. The Battens are sponsored in part by a grant from the Missouri Law Enforcement Assistance Council.

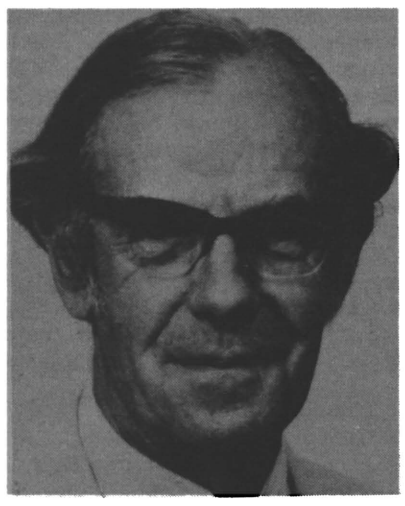
Dr. Batten has served nearly a quarter century in the Institute of Education at the University of London. He is an international authority in training for non-directive leadership in community development. His students, his teaching and his writings are found in nearly every country in the world. Mrs. Batten is also a long-time business colleague.

The Battens have authored several books including the "Human Factor in Youth Work." They will spend a week at the Rolla campus, and another four weeks at the Columbia campus working with faculty, students and juvenile law enforcement officers.

The seminars will be directed by Hugh Denney, chairman and professor of regional and community affairs of the School of Social and Community Services. Denney will work closely with Dr. Frank Graham, director of extension youth programs and Ron Larkin of the Missouri Law Enforcement Assistance Council, Jefferson City.

Dr. Batten will deliver a Sept. 13 public lecture on "Leadership in the Development Process". The lecture will begin with coffee at 3:30 p.m. in room 222 of the Memorial Union.

The talk is the first in a monthly series of international seminars scheduled for the first semester. The rest of the series will be announced in forthcoming faculty publications.



T. R. Batten

Madge Batten

New Faculty Loan Policies Announced by Ellis Library

The Library Committee has made the following changes in loan policies of the University Libraries with the approval of the Faculty Council. These policies are effective Sept. 1.

Beginning Sept. 1, books will be loaned to faculty members for a period of four months, at the end of which time books should be returned to the circulation desk of the library and renewed if needed for a longer period of time.

No book can be placed on indefinite personal loan. In case of a highly specialized need for materials to be placed in a department, consult the head of circulation or the head of the branch library.

All books checked out before Sept. 1 should be returned to the library by Dec. 1. On Dec. 1 any book not returned will be considered lost, the borrower will be charged for its replacement cost plus a $5.00 billing charge and the bill will be turned over to the Business Office for collection. The billing charge of $5.00 per book will not be refunded on books returned after billing.

Call-ins should be returned within four days after a notice is sent. If a second notice must be sent, the borrower will be informed that he is being charged for replacement cost of the book plus $5.00 as a billing charge. The billing charge will not be refunded on books returned after billing.

If one has emergency need for a book already on loan, he may contact the head of circulation or her assistant for a main library book or the branch head for a branch library book.

These changes in length of loan do not apply to reserve books, periodicals or Undergraduate Library books.

These changes were designed to improve the library's ability to respond to the needs of library users for readier access to materials.

Few Campus Changes This Year

Campus improvements have been limited by relatively small capital funds approved by the Missouri General Assembly.

During the last year, a readily apparent change has been made. Faculty and students alike benefit from smoother and wider sidewalks built along University Avenue, Conley Avenue, and north of Jesse hall. Part of the repairs were dictated by necessary repairs to underground utility lines beneath the sidewalks.

Emmett Klinkerman, UMC business officer, said that $78,952 spent on these improvements came from $1,120,000 capital funds for repairs and replacement approved by the legislature. Such funds are requested annually and dictated by most urgent needs for non-recurring expenditures.

Departmental Chairmen Announced for 1973-74

Below is the list of departmental chairmen for the coming year.

Accountancy	J. A. Silvoso
Advertising	F. Dobyns
Aero Studies	J. W. Connolly
Ag. Chemistry	M. S. Feather
Ag. Economics	C. L. Cramer
Ag. Engineering	C. L. Day
Agronomy	E. G. Runge
Anatomy	H. J. Cutts, acting
Anesthesiology	G. W. N. Eggers, Jr.
Animal Husbandry	A. J. Dyer
Anthropology	R. A. Benfer
Art	L. Rugolo
Art History, Archaeology	W. R. Biers
Atmospheric Science	W. L. Decker
Biochemistry	B. J. Campbell
Bio Sciences	A. Eisenstark
Broadcasting	E. C. Lambert
Chem. Engineering	G. W. Preckshot
Chemistry	D. Troutner
Child & Fam. Dev.	V. Fisher
Clothing, Textiles	E. Nugent
Civil Engineering	J. J. Cassidy
Classical Studies	J. C. Thibault
Comm. Health, Med Practice	A. S. Baker
Computer Science	P. K. Blackwell
Counseling, Personnel Svcs.	J. L. Ferguson
Curriculum, Instruction	A. W. Sturges
Dairy Husbandry	H. D. Johnson
Economics	S. R. Johnson
Editorial	E. C. Morgan
Education	R. G. Woods
Ed. Administration	N. C. Aslin
Ed. Psychology	P. C. Polmantier
Elec. Engineering	C. O. Harbourt
English	M. McC. Gatch
Entomology	M. Fairchild
Extension Ed.	J. G. Gross
Family Econ., Mgmt.	E. Metzen
Finance	D. A. West
Food Sci., Nutrition	D. M. Graham
Forestry	D. P. Duncan
Geography	J. T. Kostbade
Geology	G. W. Viele
Germanic, Slav. Languages	L. Walton
Health, Phys. Ed.	R. E. Stewart
Higher, Adult Ed.	R. J. Dollar
History	N. E. Cunningham, Jr.
Horticulture	R. A. Schroeder
Housing, Int. Design	K. E. Rogers
Human Nutr., Food, Food Sys. Mgmt.	E. Hensley, H. Anderson, Acting co-chairpersons
Indus. Engineering	J. Goldman
Information Sci.	R. H. Parker
Intercoll. Athletics	M. R. Sheehan
Law	W. L. Eckhardt
Library Science	F. J. Flood
Management	E. F. Lundgren
Marketing	C. E. Block
Mathematics	J. L. Zemmer
Mech., Aero. Engineering	P. Braisted
Medicine	C. Mengel
Microbiology	F. Engley, Jr.
Military Sci.	T. H. Donovan
Music	C. L. Emmons
Naval Science	H. M. Lamb
Nursing	To be announced
Obstetrics, Gynecology	D. G. Hall
Opthalmology	W. M. Hart
Pathology	F. V. Lucas
Pediatrics	G. Barbero
Pharmacology	R. Russell, Acting
Philosophy	W. C. Wilcox
Phys. Med., Rehab.	C. Peterson
Physics	L. V. Holroyd
Physiology	J. O. Davis
Plant Pathology	R. N. Goodman
Political Sci.	R. A. Watson
Poultry Husbandry	J. E. Savage
Prac. Arts, Vo-Tech Ed.	W. R. Miller
Psychiatry	J. M. A. Weiss
Psychology	S. C. Brown
Radiology	G. S. Lodwick
Rec., Park Admin.	G. A. Gillespie
Regional, Commun Affrs.	A. Hugh Denney
Romance Languages	M. B. Mitchell
Rural Sociology	R. McNamara
Social Work	J. F. X. Paiva
Sociology	P. M. Hall
Special Ed.	R. C. Schofer
Speech, Dramatic Art	J. W. Gibson
Statistics	F. Williams
Surgery	M. DeWeese
Vet. Anatomy	J. E. Breazile
Vet. Med., Surgery	E. A. Corley
Vet. Microbiology	R. W. Loan
Vet. Pathology	W. H. Eyestone
Vet. Physiol, Pharmacology	T. M. Curtin

Student Evaluates Philosophy Course

William Bondeson, professor of philosophy and director of the College of General Studies, has sacrificed the last vestiges of his magisterial dignity. He forwards to the Faculty Bulletin the following teacher evaluation completed by one of the students in his spring courses.

Q. What other suggestions can you make for the improvement of the teaching of this course?

It is one of the best courses I have taken, so don't monkey with the format.

Q. What is it about this course that you liked least?

I really hate reading philosophy as written by the philosopher himself. It seems to be the case that Monarch and Cliff's Notes can say it much better than they did.

Q. What is it about this course you have liked most?

This is one of the few courses I have taken in which I have not been burdened with a lot of petty details, but rather learn the concepts and general ideas which are easier to retain and are more useful. Unfortunately this is a philosophy course, so I don't know exactly how useful what I have learned will be, but I do talk about the material on dates and consequently don't go out much anymore which certainly saves money.

Graduate School and Research Notes

OE INSTITUTE OF INTERNATIONAL STUDIES — The Fulbright-Hays Act provides support for three programs of international education of interest to universities.

Group Projects Abroad: A program category designed to help U. S. educational institutions improve their programs in foreign languages, area studies, and world affairs. Universities and various consortia are eligible to apply for grants. An interested institution should take the initiative in planning and proposing a project that would significantly improve its programs in foreign languages, area studies, and world affairs. Projects will be limited to the following countries: Arab Republic of Egypt, India, Pakistan, Poland, Tunisia, and Yugoslavia. The deadline for applications is Oct. 1.

Doctoral Dissertation Abroad: Program provides opportunities for advanced graduate students to engage in full-time dissertation research abroad in modern foreign languages, area studies and world affairs. The program is designed to develop research knowledge and capability in world areas not widely included in American curricula by helping prospective teachers and scholars conduct original research in their area of specialization and enhance their knowledge of the region, its people and its language. The deadline for applications is Oct. 15.

Faculty Research Abroad: Program offers selected opportunities for research and study abroad in foreign languages, area studies, and world affairs. It is designed to help universities strengthen their programs of international studies in two basic ways: 1) by helping key faculty members remain current in their specialties and 2) by assisting institutions in updating curricula and improving teaching methods and materials. Faculty members should apply directly to their employing institution, not to OE. Institutions should request application forms from OE. The deadline for applications is Oct. 15. U. S. Office of Education, Institute of International Studies, Washington, D. C. 20202.

EPDA — PART E — One of the few remaining portions of the Educational Professions Development Act with the possibility of funding for FY '74 is Part E, training for higher education personnel. Funds have not yet been released but the prospects are good. A tentative Oct. 1 deadline is being considered. Part E of the EPDA authorizes the Commissioner of Education to make grants to institutions of higher education for the training of persons who are serving or preparing to serve as teachers, administrators for junior and community colleges and for developing institutions; programs to prepare women for careers in higher education; and programs of special concerns such as environmental science, ecology, drug abuse and veterans education. For further information, contact: U. S. Office of Education, Higher Education Personnel Training Programs, Bureau of Higher Education, Washington, D. C. 20202.

COOPERATIVE EDUCATION — Cooperative education at institutions of higher education is that kind of program that provides an opportunity for students to alternate periods of academic study with periods of off-campus employment. Because of the limited funds which are available for this program, it will be possible to support only the most carefully conceived cooperative education efforts that encompass the following priorities:

A. Programs that establish a choice of career opportunities through specifically designed curricula and off-campus experiences for students from educationally and economically deprived backgrounds.

B. Programs that are designed to serve the cooperative education needs of students in two-year colleges, particularly in urban areas.

C. Programs that provide well-planned off-campus experiences in industry and business, social service, and government agencies designed to enrich the student's campus experience.

The deadline for applications is Oct. 15. For further information, contact: U.S. Office of Education, Bureau of Higher Education, Cooperative Education Programs, Div. of College Support, Washington, D. C. 20202.

NEH FELLOWSHIPS AND SUMMER STIPENDS — The National Endowment for the Humanities makes awards to younger humanists who have completed their professional training and are at a relatively early point in their professional development. The work undertaken may be work within the applicant's special area of interest, or in some other area that will enable the applicant to understand his own field better, to extend his competence, and to become more broadly informed. Recipients of awards must devote full time to their fellowship or stipend study. Summer stipends are for $2000 and fellowships are for a maximum of $1,250 per month for six to nine months tenure. Application deadline will be Oct. 15. For further information, contact: Div. of Fellowships and Stipends, National Endowment for the Humanities, Washington, D. C. 20506.

RESEARCH MANAGEMENT IMPROVEMENT PROGRAM — In FY 1974, the Research Management Improvement (RMI) Program plans to support projects directed to the improved management of federally supported research activities and resources at nonprofit research institutions. Proposals may request support for analyses of current management situations, development of plans and models for improved management, and testing and evaluation of management alternatives. Awards will be made twice in FY 1974. For proposals received prior to Sept. 1, awards will be announced in January 1974. For proposals received between Sept. 1 and Dec. 31 awards will be announced in June 1974. Inquiries and preliminary proposals should be addressed to the Research Management Improvement Program, National Science Foundation, 1800 G St., N. W., Washington, D. C.

PUBLIC MEDIA PROGRAM — The National Endowment for the Arts has announced an Oct. 15 deadline of the Media Studies Program. Matching grants of up to $25,000 will be made to educational institutions to 1) develop curriculum for film courses in schools and colleges; and 2) sponsor accredited workshops and seminars designed for inservice training of film teachers. A modest sum for matching grants not to exceed $3,000 will be available to university film schools with demonstrated need for financial assistance to assist graduate students meet the costs of equipment rental, materials and laboratory processing. For further information, contact: Public Media Program, National Endowment for the Arts, 806 15th St., N. W., Washington, D. C. 20506.

GRANTS TO MINORITY SCHOLARS — The Social Science Research Council has announced a program of grants to enable scholars from minority groups to undertake research on relations between racism or other social factors and mental health. This program is made possible by a grant to the Council from the Maurice Falk Medical Fund. Research projects may focus upon social structures and processes or on adaptations of the individual. Factors contributing to mental health and mental illness in the individual and in the society may be examined, as well as all aspects of intervention for prevention, cure and rehabilitation. Eligible to apply are scholars from minority populations, especially American Indians, Blacks, Chicanos and Puerto Ricans. Applicants should have earned the Ph. D. degree in a social or behavioral science. Special consideration will be given to imaginative research proposals submitted by younger scholars. Awards range up to $10,000 plus some research costs. Deadline for submission of formal applications is Oct. 1. Address inquiries to: Social Science Research Council, Fellowships and Grants, 230 Park Ave., N. Y., N. Y. 10017.

U.S.-ISRAEL BINATIONAL FOUNDATION — Establishment of the U. S.-Israel Binational Science Foundation research program has been announced by the National Science Foundation. The Foundation, which will begin operations with $60 Israeli pounds from each nation — the U. S. contribution will be made from P. L. 480 funds — will support research mainly in Israel. Proposals for review in January will be due Sept. 1, and for review in July, March 1. For first proposals this summer the deadline has been extended to Sept. 15. Proposals may be submitted through an appropriate federal agency or directly to: The United States-Israel Binational Science Foundation, P.O.B. 7677, Jerusalem, Israel. Mrs McQuary has guidelines for preparing proposals.

MEDIAL LIBRARY PROJECT GRANTS — The National Institute of Health's National Library of Medicine has announced Oct. 1, Feb. 1, and June 1 as the new deadline for submitting applications for medical library resource project grants. The new dates bring the program in line with established dates for all NIH programs.

EXTRAORAL MAXILLOFACIAL PROSTHESES — The National Institute of Dental Research plans to issue RFP No. NIH-NIDR-1-74-1R for the development of improved materials for extraoral maxillofacial prostheses. The material must be a non-toxic, non-allergenic stain resistant elastomer with sufficient flexibility and color adaptability for it to be used as an artificial skin. The material must be capable of being easily and inexpensively fabricated to various shapes and forms, capable of withstanding specified temperatures and humidity, and compatible with surgical applicance cements and-or skin adhesives. RFP No. NIH-NIDR-1-74-1R will be available approximately Aug. 13. Proposals will be due at NIDR no later than 45 days after the date of the RFP. Interested sources who believe they are qualified to perform this work may request a copy of the RFP. All requests must be in writing and must be addressed to National Institute of Dental Research, Office of Collaborative Research, 553 Westwood Building, Bethesda, Md. 20014, phone (301) 496-7311, ATTN: D. M. Keefer.

SOME DEADLINES

Department of Labor Dissertation Grants, Sept. 1;
ACLS Grants-in-Aid, Sept. 30;
ACLS Research Fellowships, mid-October;

(For information on above programs call Mrs. Carol McQuary, 882-6311)

The Office of Research, Graduate School, has a good supply of the manual, "Assistance and Services for Research." New faculty members, those faculty members who have misplaced their copy, and departments needed a supply of this publication should call Mrs. Carol McQuary, 882-6311 for a copy.

Highlights of August Curators' Meeting

Highlights of the Curators meeting Aug. 3:

+ Approved a total general operating budget of $155.1 million for the University and its four campuses for the 1973-74 fiscal year, including the administration's recommendations on salaries and wages.

+ Approved awarding a construction contract of $1,163,292 for building a parking garage on the St. Louis campus. The garage will be financed with parking fees charged UMSL students, faculty and staff.

+ Heard an announcement by President Ratchford that the present University-wide Office of Development and its personnel will be relocated to the Columbia campus at the request of Guy H. Entsminger, Vice President for Development, who recommended the move because the original objectives of the University-wide office have been completed. Entsminger will assume the title of Vice Chancellor for Alumni Relations and Development on the Columbia campus.

+ Approved the consolidation of the Wildlife and Fisheries units with the School of Forestry on the Columbia campus under the new name of School of Forestry, Fisheries and Wildlife, effective Aug. 16.

+ Heard a report by President Ratchford that the University's public communication program is being reorganized, based upon findings of internal and external evaluations, and that Jack H. Hamilton on Sept. 1 will assume the position of Assistant to the President for Communication. He presently is director of University Relations at the University of Michigan.

+ Under a policy endorsed by the Academic Affairs Committe of the Board, the University's various professional divisions have been given approval to develop new educational concepts and designs for the continuing education of professional graduates.

+ Announced that the Student Health Service on the Columbia campus will be continued on the same basis as last year.

+ Heard a report that gifts received by the University Development Fund during the 1972-73 fiscal year totaled $3,386,492, an increase of $126,184 over the previous year.

Calendar of Events

Aug. 27-Sept. 3: Fine Arts Gallery Exhibit: Jill Swenson, M. A. candidate.

Aug. 27: MSA Student Activities Free Film: "Seconds," 7 p.m., Jesse Auditorium.

Aug. 29: MSA Student Activities Free Film: "Zabriskie Point," 5:30 & 8:30 p.m., Jesse Auditorium.

Aug. 31: Public Telescope viewing night, 9 p.m., 126 Physics, if weather is clear.

Sept. 2: MSA Student Activities Free Film: "Where's Poppa" 5:30 & 8:30 p.m., Jesse Auditorium.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 116 Jesse, or to the Office of Public Information, 223 Jesse, 882-3211.

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The University of Missouri
An Equal Opportunity Institution

Faculty Credited with Orientation Successes

Kudos to many summer faculty are in order for their inthusiastic participation in Summer Welcome,the annual orientation program for new fall semester students. That's the word from both Ed Thelen, assistant dean of Student Affairs, and Dave Markee, director of the Center for Student Life.

The series of summer welcome programs have been held for several years now, says Thelen, "but this year faculty participation was the finest."

For several reasons, he says : "We sent out letters to faculty on summer appointments asking for volunteers to host afternoon receptions and to attend evening dinners. At both events, students and their parents could then visit informally with faculty.

"We got a sufficient number of volunteers with that letter so we didn't have to go back and cajole them into helping out.

"Then faculty, when they attended the events, mixed so well with students and parents. One parent said 'This is a tremendous idea! Who thought of it?' Faculty obviously enjoyed the events and didn't look on them as a chore."

Thelen also commended the faculty who worked behind the scenes with academic advising. "The core of a University is its faculty — if parents and students don't get the understanding of the faculty the University can't accomplish its goals."

Behind the education of a student, Markee notes, is the impression a student and his parents have of his place within the University. "Parents asked participating faculty whether their child was likely to draw the faculty member for a course. Parents had a chance to discuss education with faculty members, to ask questions, to set their minds at ease about the welfare of their child at the University."

Echoes Thelen: "Parents need to know the University regards their children as more than a number, to know that we see them as human beings and will treat them so."

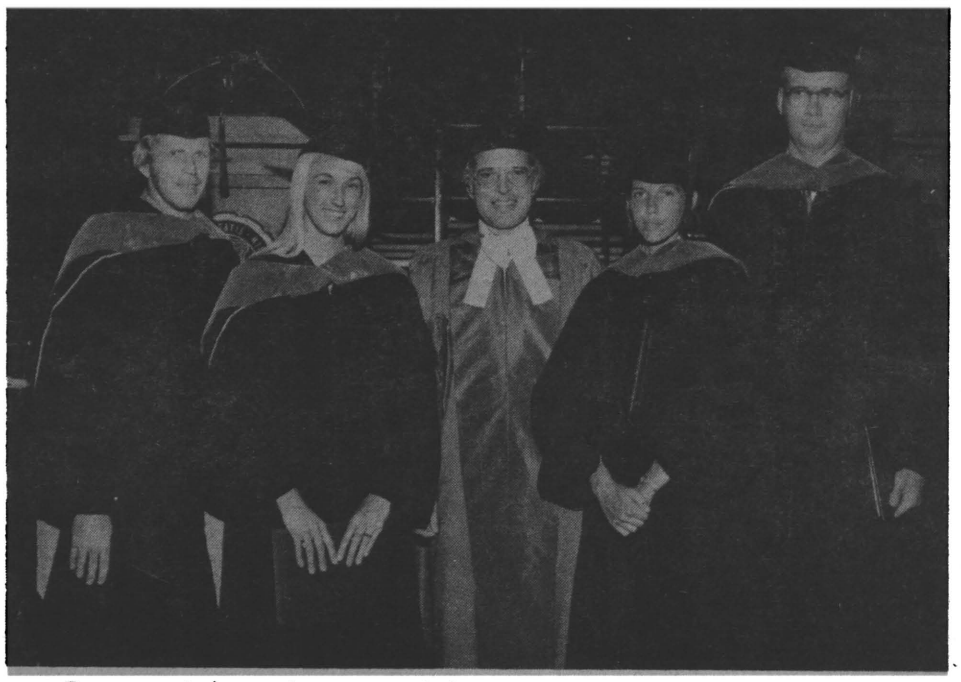
At the Chancellor's last staff meeting, Dr. Schooling remarked on the number of letters he had received from parents expressing their great appreciation for the orientation program.

During the orientation events Thelen notes that many parents took time to tell him how much they enjoyed the visits with faculty. "They commented on how well informed the faculty were. Parents also remarked that the faculty hosts seemed to be having as much fun at the events as the parents themselves were!"

Both Thelen and Markee agreed that the concept of service to the University is now more widely accepted among the faculty than ever before. "Faculty now seem to feel that there's more to being a teacher than teaching, research and publishing," says Thelen.

"They are now realizing that the reward for service efforts such as Summer Welcome comes from the appreciation expressed by parents and students."

"We hope the faculty who participated this year will spread the word for a successful Summer Welcome next year," adds Markee. "Without the support and involvement of the faculty, we couldn't have been successful."



Two married couples received doctor of philosophy degrees at the summer commencement exercises at the University of Missouri Columbia.

In the photograph, from left, are James Lewis Thornburg and Kathy R. Thorn; Graduate School Dean Lloyd E. Berry; and Judith R. McKinney and James Richard McKinney.

The Thornburgs, who received doctorates in mathematics and home economics, have received all their degrees together—bachelors at Kansas State College and masters from UMC. They will go to the University of Kentucky where he has a position.

The McKinneys met while both attended Louisiana State University. Mrs. McKinney is a graduate of Beloit College and took her masters at LSU. Dr. McKinney has degrees from California and Michigan universities. Both received their doctorates in mathematics. They plan to locate in the Los Angeles area.

Psychiatry Journal Seeks Contributors

The Journal of Operational Psychiatry, published by the department of Psychiatry and Mid-Missouri Mental Health Center, invites faculty members throughout the University to submit articles for publication.

The Journal's field of interest extends beyond clinical psychiatry and includes anthropology, sociology, social work, psychology, political science, community organization and development, linguistics, philosophy, law, neurology, etc., as they might relate to mental health in a very broad sense.

Articles appearing in the Journal are catalogued by several major abstracting services.

Papers may be sent to Dr. Armando Favazza, editor of the Journal of Operational Psychiatry, Department of Psychiatry, UMC Medical Center.

Faculty Council Minutes

Minutes — July 26

Meeting with Registrar Gary Smith. Registrar Smith discussed the first phase of a computerized admissions, registration, and academic records system. Questions were raised concerning the reliability, scope, and access to the system. Its cost was of considerable interest also.

Proposed Articulation Agreement between Missouri Institutions of Higher Education. There was considerable discussion of an articulation agreement proposed by the Council on Public Higher Education in Missouri. Such an agreement, if accepted, would mandate general education requirements, acceptance of AA degrees, transfer of grade point averages, etc. The Council agreed to take this issue under consideration but no further action was taken.

Council Meetings for the Fall. The Council agreed to meet at 3:40 p.m. on Thursdays. The first fall meeting of the Council will be on Sept. 6.

Election of Council's Committee Chairmen for 1973-74. Chairman Daniel proposed that Profs. Stoeckle, Ross, and Spencer constitute a nominating committee and present a slate of candidates at the Sept. 6 meeting. The Council agreed unanimously.

Committee to Consider Faculty Resolution No. 3. Prof. Daniel reported that Prof. Charles Nauert will chair the committee to be made up of Prof. Dallas Meyer, Prof. Paul Blackwell, Prof. Larry Hedlund, Prof. Neil Aslin, Prof. Donald Naumann, Prof. Gordon Kimber, Prof. Gordon Bivens, and Prof. Luverne Walton. The Council agreed to charge the Committee with considering Resolution No. 3, considering and proposing an alternative if they desire to do so and presenting some kind of reasons, evidence, or documentation for their recommendations to the Faculty Council.

Campus Grievance Committee. The University-wide administration is encouraging campuses to establish grievance committees; procedures will be discussed by the Faculty Council's Grievance Committee.

Ad Hoc Doctoral Council. The Chairman reported that Chancellor Schooling has forwarded the Council's recommendations to University-wide Vice-President Paul Nagel. Vice-President Nagel has incorporated many of these changes in a new draft document.

Increased Administrative Costs. There was a long and general discussion of the high cost of many new administrative programs, for example, the development of a student data bank, the implementation of the recommendations of a study on traffic and parking, a proposed new University-wide course numbering system, the possibility of an articulation agreement, etc. Prof. Spencer moved, Prof. Hunvald seconding, that the Chairman and Prof. Adair communicate the Council's concern over these problems and the lack of faculty input concerning them, to the Inter-Campus Faculty Council for discussion with President Ratchford. The motion was unanimously approved.

Resolution on KBIA. Prof. Sneed moved, Prof. Whitworth seconding, that the Faculty Council adopt the following resolution:

"The Faculty Council commends the UMC-FM radio station on its first year of service. We believe that KBIA has contributed immeasurably to the intellectual and cultural life of this campus and we hope that it will receive the full support which it well deserves. It has proved that radio is a vital and important educational medium: its programming, news-gathering, and reporting have been imaginative and innovative; and it has made good music widely available. The Faculty Council wishes to express its warmest thanks to KBIA and we hope that it will continue its high tradition of service to this University community."

The motion passed unanimously.

Presentation of the UMC Budget to the University-wide Administration. It was announced that Prof. Utz will accompany the Chancellor and his staff in their presentation on July 30 and 31.

Departing Members of the Faculty Council. The Council unanimously directed the Chairman to express its thanks to members of the Faculty Council whose terms are expiring: Profs. Aslin, Cassidy, Fulweiler, Junk, Kimber, Koeppe, Schmidt, Silvoso, Walton.

1973-74 Faculty Council

Administration and Public Affairs
John C. Murdock (1975)
Robert D. Schooler (1976)

Agriculture
J. Charles Headley (1974)
Laurence W. Hedlund (1975)
Clarence V. Ross (1975)
H. Donald Naumann (1976)

Arts and Science
Louis V. Holyroyd (1974)
Kernan B. Whitworth (1974)
Hans O. Mauksch (1975)
William M. Wiecek (1975)
Robert S. Daniel (1976), Chairman
William H. Peden (1976)
W. Roy Utz (1976)

Education
Wilbur R. Miller (1975)
Frank E. Wellman (1976)

Engineering
Truman S. Storvick (1975)
Paul H. Braisted (1976)

Extension
Coy G. McNabb (1974)

Forestry
Kent T. Adair (1975)

Home Economics
Gordon E. Bivens (1974)

Journalism
Dale R. Spencer (1974)

Law
Edward H. Hunvald (1976), Vice-Chairman

Library and Informational Science
Roy W. Evans (1974)

Medicine
Harry Stoeckle (1974)
Frank B. Engley (1975)
Thomas W. Burns (1976)
Benedict J. Campbell (1976)

Nursing
Frances C. Wurtz (1975)

Social and Community Services
A. Hugh Denney (1974)

Veterinary Medicine
Esther M. Brown (1976)

Faculty Footnotes

COLLEGE OF HOME ECONOMICS

Margaret Mangel, dean, has received word of her election as an agency member unit representative to the Council for Professional Development for a three year term. Colleges and Universities offering degrees in home economics are eligible for membership in the agency member unit of the American Home Economics Assn.

Christine Weaver, professor, recently participated in a workshop for Clinical Instructors at Ohio State University, Columbus, Ohio. Dr. Weaver was invited to serve on the faculty for this workshop along with other experts in education and clinical teaching.

Ruth Baldwin, professor of food and nutrition and **Treva Kintner,** instructor in home economics, attended a National Livestock and Meat Board meat conference for researchers in meat cookery (in midwestern area) in March at the Kellogg Center — University of Chicago.

Gordon Bivens, professor of family economics and management, recently was elected chairman of the board of directors for the Center for the Family, in Washington, D. C. The board of governors recently held a consultation with representatives of disciplines outside home economics to explore areas of mutual professional interest dealing with the family. Bivens is also a member of the policy board for a new professional journal entitled the Journal of Research on Consumer Behavior sponsored by nine professional organizations and participated in a meeting of that board in Chicago in April.

Bivens, Edward Metzen, and several graduate students in family economics and management attended a meeting of the American Council on Consumer Interests in Chicago in April. Both chaired program sessions for the meeting.

COLLEGE OF EDUCATION

Robert E. Reys, associate professor of mathematics education, participated in a symposium on the "Nature and Role of Problem Solving" at the 51st annual meeting of the National Council of Teachers of Mathematics in Houston. The editorial panel of The Arithmetic Teacher announced during this meeting that Reys had been appointed to a two year term as departmental editor of the "Using Research in Teaching" section.

Irene Fitzgerald, associate professor, represented UMC at the recent biennial convention of the American Assn. of University Women, held in Washington, D. C. UMC is a corporate member of the organization of 173,000 women, open to graduates of accredited four-year institutions. Fitzgerald serves on the international fellowships committee of the AAUW Educational Foundation, which has a 7½ million-dollar endowment for fellowships for American and international women.

Beverly Crabtree is presently serving as secretary for the Home Economics Teacher Education section of the American Home Economics Assn. and has been asked to serve as a member of the AHEA Performance Based Competence in Home Economics Education Committee. Crabtree is also serving as Chairman of the AHEA Fellowships Committee and has just recently attended a committee meeting in Washington, D. C. at which time the 1973-74 national and international fellowship recipients were selected.

Curtis Weston was designated as coordinator for the Missouri Vocaitional Association conference held held on the UMC campus in July. He and Professor Ken McFate of the department of agricultural engineering have also recently completed a study entitled "Instructional Needs of Vocational Agriculture for Training in Electricity."

John Elias, PAVTE, represented the state of Missouri at the Educational Consortium meeting in Atlanta, April 3-5. This is a 13-state effort sponsored by the Southern Assn. of Schools and Colleges cooperatively to develop performance-based learning systems for secondary school programs.

W. R. Miller, chairman, PAVTE, was recently elected president of the National Assn. of Industrial and Technical Teacher Educators, an affiliate of the American Vocational Assn. Miller had previously served the association as secretary-treasurer. In April, Miller served as program chairman for the American Council on Elementary School Industrial Arts at the International Conference of the American Industrial Arts Assn. held in Atlantic City, New Jersey.

Mary Jane Lang, PAVTE, was invited to attend a conference on "Revising the Business Teacher Education Curriculum" held in St. Louis in May.

F. Milton Miller, PAVTE, was recently appointed membership chairman for the American Council on Elementary School Industrial Arts.

Donald Osburn, associate professor of agricultural education and agricultural economics, and William Richardson of Purdue University presented a paper at the research department meeting of the American Vocational Assn. in Chicago. The paper was titled "Some Aspects of Expected Costs and Benefits Associated with Junior College Vocational Education."

COLLEGE OF AGRICULTURE

Elmer R. Kiehl, dean, received a distinguished service award in April from the Marshall Chamber of Commerce in honor of his service to agriculture.

Harold B. Hedrick, professor of food science and nutrition, was honored as outgoing president of the American Meat Science Assn. June 20.

Two UMC agricultural engineers were named Fellows of the American Society of Agricultural Engineers recently during the Society's annual meeting at the University of Kentucky. **C. LeRoy Day** and **Harold V. Walton,** were among 12 engineers so honored in the 5,000-member ASAE. Only two per cent of the ASAE members hold the grade of Fellow.

James D. McQuigg, professor of atmospheric science, recently became president of Gamma Sigma Delta, the Honor Society of Agriculture. McQuigg received the presidential gavel from the retiring president Gene S. Cox, professor of forestry, at the Society's annual spring awards banquet.

Taking over as coordinator of the forage breeding, management, and utilization program of the University of Missouri-Columbia College of Agriculture is **Frederic A. Martz,** associate professor of dairy husbandry. **Curtis J. Nelson,** associate professor of agronomy, cut short his two-year appointment as first coordinator of the program to take a sabbatical leave at the University College of Wales at Aberystwyth this summer.

Four University of Missouri-Columbia faculty members were honored in May at the spring awards banquet of the UMC chapter of Gamma Sigma Delta, honorary agricultural society. Faculty members recognized for teaching ability included **Charles W. Gehrke,** professor of agricultural chemistry, **David P. Hutcheson,** assistant professor of veterinary medicine; **John M. Kuhlman,** professor of economics; and **Donald B. Brooker,** professor of agricultural engineering.

Charles W. Gehrke, professor of agricultural chemistry, attended a two-day workshop in May with 40 invited scientists from all over the world to discuss chromatography in human disease and its factors. All aspects of chemical components and prognosis and diagnosis of disease by gas chromatography-mass spectrometry was also discussed. From June 5-16, Gehrke and Robert Zumwalt of the Experiment Station Chemical Laboratories were at the University of Maryland. They worked with Cyril Ponnamperuma, principal investigator, and a consortium of scientists, to investigate the Apollo 17 lunar samples for organic components.

M. L. Fairchild, professor and chairman of entomology, was chosen president-elect of the 15-state North Central branch of the Entomological Society of America at its annual meeting in March in Louisville, Ky. Other faculty members from the department attending the meeting were **A. J. Keaster, J. L. Huggans,** and **W.S. Craig.** E. C. Houser, research specialist at the Delta Center, Portageville, and F. G. Jones, area Extension entomologist in the Bootheel area, also attended.

COLLEGE OF ENGINEERING

William R. Kimel, dean, was recently elected to the board of directors of the American Nuclear Society (ANS) for a three-year term.

G. V. Lago, professor of electrical engineering, attended the Sixteenth Midwest Symposium on Circuit Theory at the University of Waterloo, Waterloo, Ontario, in April. Lago presented four papers in collaboration with present and former graduate students: "Approximation in the Time Domain with Respect to an Optimum Pole Contour," with P. Y. Keskar; "Time Domain Approximation Methods Applied to the Low-Pass Filter Problem," with G. A. Perdikaris; "Step by Step Approximation of RC-Functions in the Time Domain," with P. Y. Keskar; "Nonlinear Applications of the 2b Signal Flow Graph," with R. W. Becker and J. E. Barbay. A fifth paper, by P. Y. Keskar and Lago, "Approximation of Signals by Real Exponentials," was presented later in Austin, Texas, by Mr. Keskar at the Southwest Section of the Institute of Electrical Engineers.

Stanley R. Bull, associate professor of nuclear engineering, has been awarded a one-year research travel grant by the Senior Fulbright-Hays Program, Washington, D. C. He will pursue research in biomedical applications of microdosimetry at the Centre d'Etudes Nucleaires, Grenoble, France, for the 1973-74 academic year.

Richard T. Douty, professor of civil engineering, is one of only three U. S. university faculty members chosen to serve on the editorial advisory board of a new international journal, "Engineering Optimization."

William L. Carson, associate professor of mechanical and aerospace engineering, is a recipient of the Dow Outstanding Young Faculty Award. As one of twelve awardees in the U. S., Carson was provided round-trip fare, plus expenses, to the American Society of Engineering Education's annual conference held in June at Iowa State University.

Best Teacher certificates were presented to six faculty members of UMC's College of Engineering. Chosen by the graduating seniors were the following professors: **Donald B. Brooker,** agricultural engineering; **William L. Fairman,** industrial engineering; **Richard H. Luecke,** chemical engineering; **Jay B. McGarraugh,** civil engineering; **James E. Rathke,** electrical engineering; and **Charles A. Stevens,** mechanical and aerospace engineering.

Robert M. Eastman, professor of industrial engineering and an expert on metrication, was one of the speakers who addressed an April conference on the pending adoption of the metric system by the U. S. It was held at William Wood College, Fulton.

Truman S. Storvick has been selected for inclusion in Outstanding Educators of America on the basis of his professional and civic achievements.

Paul W. Franklin, professor of electrical engineering, was invited to present his paper, "Theory of the Bridge-Rectified Synchronous Generator With a Large Number of Stator Phases — Part I and Part II," at the 1973 IEEE Power Engineering Society summer meeting in July at Vancouver, British Columbia. The Institute of Electrical and Electronics Engineers has also accepted the paper for publication.

SCHOOL OF JOURNALISM

Roy M. Fisher, dean, has been selected as a charter member of the advisory council of the American Home Economics Association's Center for the Family. The center was established by the association in 1972 to function as an authoritative source on the family as a social unit.

John C. Merrill, professor, was a visiting lecturer in the School of Communications, University of Navarra, Pamplona, Spain, during the three-week interim between the end of the semester and the beginning of the summer session here. He gave a series of lectures in Spanish at the invitation of Alfonso Nieto, dean of the school. His lectures were on four journalistic concepts — press pluralism, press responsibility, press freedom, and journalistic professionalism.

Professor Frederick Davis was a featured speaker at the annual convention of the Kentucky Bar Assn. in Louisville in May. Davis, a specialist in administrative law spoke on "No Fault or Tort Immunity."

SCHOOL OF MEDICINE

D. H. Winship spoke on disorders of esophageal motility at a gastro-enterology conference at the Hines VA Hospital in Chicago recently.

John F. Maher was panel moderator for "Management of Renal Failure" at a Mo. State Medical Society meeting in March in St. Louis.

Joseph J. Schroeder Jr., assistant professor of pathology, has been elected president of the 70-member Central Missouri chapter of the Data Processing Management Assn.

Robert L. Jackson, professor of pediatrics at the University of Missouri-Columbia, was invited to speak at two international diabetes meetings in Europe in July. Jackson participated in a panel discussion during the International Colloquium of Carbohydrate Metabolism in Pregnancy and the Newborn July 10-11 in Aberdeen, Scotland. He discussed "Chemical Diabetes in Childhood" at a meeting of the International Diabetes Federation July 13-14 in Brussels, Belgium.

Joseph T. Parisi, associate professor, presented a paper "Application of a pour plate method for coagulase production by staphylococcus aureus" at the American Society for Microbiology's annual meeting in May at Miami Beach.

David J. Hentges, professor, spoke at a meeting of the Mo. Academy of Science meeting in April. The talk was on intestinal flora and colon cancer.

Papers presented at the American Society for Microbiology annual meeting in Miami Beach: "Electrophoretic Separation and Characterization of Blastomycin," M. V. Lancaster and R. F. Sprouse; "The Effect of Tetracycline upon Establishment of Escherichia coli of Animal Origin in the Enteric Tract of Man," D. C. Hirsh, G. C. Burton and D. C. Blenden; "Studies on Pathogenicity of Pure and Mixed Cultures of Selected Anaerobic Bacteria," J. N. Berg and R. W. Loan; "Serogroups, Phage Types, and R Factors among Escherichia coli and Salmonellae from Rural Environments," F. J. Marsik, J. T. Parisi, G. F. Burton and D. C. Blenden; "In Vitro Cell-Mediated Immunity in Experimental Allergic Encephalomyelitis (EAE)," A. R. Allbritton, R. W. Loan and D. C. Hirsh; "Development of a Target Cell Destruction Assay for Cell-Mediated Immunity in the Chicken," D. J. Granlund, G. M. Buening, and R. W. Loan; "Effect of Protein-Calorie Malnutrition on the Antibody Response of C57BL 6 Mice to Sheep Erythrocytes," R. R. Hook, Jr., D. P. Hutcheson, M. E. Tumbleson and D. L. Hook.

Six members of the department of psychiatry served as officers, discussants or in other official capacities at professional sessions during the 126th annual meeting of the American Psychiatric Assn. in May in Honolulu. **James M. A. Weiss,** professor and chairman, served as co-chairman of a section on suicide. David Davis, professor and associate chairman, served as discussant in this session. **Philip J. Marco,** associate professor and acting chief of the VAH psychiatry service, was secretary of a section on "New Models and Styles in Psychiatric Residency." A film directed and produced by **Fernando Tapia,** professor, was presented at the meeting. The film concerned the diagnostic interview in child psychiatry. Representing the department at meetings of the Assn. of Directors of Psychiatric Residency Training was **Frederick E. Fried,** assistant professor. **Maarten Nieuwenhuizen,** assistant professor and superintendent of the Mid-Missouri Mental Health Center, served as discussant in a session on new trends in evaluation.

COLLEGE OF ARTS AND SCIENCE

Mary Lago, lecturer in English, was elected chairman, Seminar on South Asian Literature, for the annual meeting of Modern Language Assn. in Chicago in December. She is spending six weeks in England and Scotland this summer on a research grant from the American Council of Learned Societies and the Ford Foundation's joint program for Area Studies. Research will be done on contributions of four eminent Englishmen and one Englishwoman who led efforts in England to interpret fine arts and literatures of India: A. H. Fox Strangways, musicologist; Edward J. Thompson; historian and novelist; James D. Anderson, linguist; Sir Wilmot and Lady Herringham, artists.

Lloyd E. Berry, Dean of the Graduate School and Director of Research, chaired the session at the Central Renaissance Conference on "The World of Early English Humanism." The conference was held at the University of Nebraska-Lincoln in April.

Professor **John R. Roberts,** English, attended the Assn. of Departments of English Summer Session held at Washington University in St. Louis in June. This convention was for chairmen of English departments throughout the country, and Roberts was attending in his capacity as summer chairman.

Thomas D. Cooke, assistant professor of English, read a paper, "Pornography in the Fabliaux," at the Mediaeval Studies Section of the Michigan Academy in April.

Loren Reid and **James Gibson** are two of thirty outstanding speech educators who were invited to participate in the first Developmental Conference in Speech Education to be held in Memphis in August.

Stanley E. Manahan, associate professor of chemistry, spoke at the Indiana University of Pennsylvania chemistry awards banquet on the subject of "Environmental Chemistry: Problems and Solutions," and presented a seminar on "Chelating Agents in Natural Waters and Wastewaters," at the Pittsburgh University chemistry department seminar in May.

Sociology professor **Robert W. Habenstein** and **Ellen H. Biddle,** research associate, Center for Research in Social Behavior, attended as invited scholars the St. Louis Conference on Environmental Research on Aging where they gave a progress report of their NIMH supported study "Decisions to Relocate the Elderly." Earlier Habenstein read a methodology paper prepared collaboratively with Biddle dealing with the same research at the Milwaukee meetings of the Midwest Sociological Society, and he also chaired a panel discussion dealing with the training and placement of doctorates in sociology in the 1970s.

James M. Burk, associate professor of music, has been selected to membership on the editorial board of the Missouri Journal of Research in Music Education. He succeeds **Alex H. Zimmerman,** professor, who will retire at the end of the 1973 summer session. Missouri is the only state which publishes and distributes such a journal. It is distributed throughout the United States and into several foreign countries.

Clayton H. Johnson, associate professor of geology, was elected vice-president of the Science Teachers of Missouri at the annual spring meeting in Kirksville in May. Johnson will serve in that office for two years, and in 1975 he will automatically become the president for a two-year term.

Three ceramics instructors at the University of Missouri-Columbia displayed their work during a June exhibition at the Fine Arts Gallery. Featured were ceramic sculptures, pots and wall hangings by **Marilyn L. Zurmuehlen,** instructor of art education; **Jean E. Garrett,** assistant professor of art, and **Robert E. Bussabarger,** department chairmen and professor of art.

Clifton Cornwell spoke at the second summer meeting of Phi Delta Kappa, professional education fraternity in July. Cornwell, professor of speech discussed "The Role of the Faculty in the Governance of institutions of Higher Education.

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

George Vredeveld, assistant professor of economics, received the Harry M. Oliver, Jr. Award from the department of economics at Indiana University recently. Vredeveld is completing his Ph.D. there. The award is given to the graduate student in economic theory who best exemplifies Oliver's qualities of logical rigor and empirical accuracy.

Everette Adam Jr., assistant professor of management, discussed "New Dimensions in Quality Motivation" during the 27th annual technical conference of the American Society for Quality Control in Cleveland in May. The conference was aimed at preparing the quality professional to face the growing challenges for better services, more reliable products and an improved life in a complex technological world.

Two members of the Policy Research Center have contributed to recent conferences on social science and on regional science. **David W. Stevans** and **Floyd K. Harmston** took part in the Mid-Continent Regional Science Assn. annual meeting at Stillwater, Okla. Stevens presented a paper on "Labor Market Segmentation Theory and Non-Metropolitan Employment: The Missouri Experience With the Emergency Employment Act of 1971." Harmston was a discussant in a session on models useful in measuring regional economic changes. Harmston also was a discussant to the Rocky Mountain Social Science Assn. in Laramie, Wyo., recently.

SCHOOL OF VETERINARY MEDICINE

H. Kurt Jacobs and **F. E. South** of the department of veterinary physiology and the Dalton Research Center presented a paper on "The Electrical and Mechanical Properties of Myocardial Stips at Low Temperature," in Atlantic City to the 1973 Federation of American Societies for Experimental Biology in April. The work presents a new analysis of the problems associated with the maintenance of heart functions at very low temperatures.

E. A. Corley, professor and chairman of veterinary medicine and surgery, presented a radiology seminar on "Non-Traumatic Bone Lesions" for the Las Vegas Veterinary Assn. and the A. K. C. in March.

A.A. Case, professor of veterinary medicine and surgery, participated in the spring meeting of Southwest Iowa VMA in Red Oak in April. **James R. Coffman,** associate professor of veterinary medicine and surgery, also participated and demonstrated corrective trimming in chronic laminitis and lectured on "Acute Laminitis."

H. D. Dellmann, professor of veterinary anatomy, attended the 86th Session of the American Assn. of Anatomists in New York City in April and presented a paper, "Ultrastructure of the rat neural lobe following interruption of the hypophysial stalk."

Ronald Sprouse, associate professor of veterinary microbiology, presented a seminar entitled, "Immunochemical Studies of Mycotic Skin Test Antigens," in May at the University of Minnesota Medical School.

L. A. Corwin, assistant professor of veterinary medicine and surgery, attended the annual meeting of the Nuclear Medicine Society and presented a scientific exhibition: "Relationship of Thyroid Function Tests in Hyperlipedemic Beagles." The meeting was held in Miami Beach in June.

Leroy D. Olson, associate professor of veterinary pathology, was recently appointed to the National Turkey Federation Fowl Cholera Research Committee.

The AVMA Executive Board recently appointed **William F. McCulloch,** director of Continuing Education in Veterinary Medicine, to a second five-year term on the AVMA Continuing Education Advisory Committee. He represents the American Assn. of Extension Veterinarians and is presently serving as vice-chairman of the committee.

Hans Adlinger, associate professor of veterinary microbiology, presented a paper on "Role of Herpesviruses in Oncogenesis," at a meeting of the Missouri Academy of Science in April at the Cancer Research Center, Columbia.

LATE ADDITIONS

John R. Campbell, professor dairy husbandry, received a $1,000 teaching award at the American Dairy Science Assn. meeting at Washington State University recently. The award was sponsored by the Ralston-Purina Co., and was the second $1,000 teaching award Campbell has received this summer.

Among participants in an Administrative Leadership Workshop conducted by the Assn. of Administrators of Home Economics in July were **Helen Anderson,** associate professor of nutrition; **Marilyn C. Blossom,** extension child and family development specialist; **Bevery Crabtree,** professor and coordinator of home economics education; **Loretta W. Hoover,** instructor and coordinator of food systems management; **Debra Jefferson,** extension information specialist; **Patricia Klobe,** associate professor, housing and interior design; **Martha Jo Martin,** information specialist in education resources; and **Margaret Mangel,** dean of the College of Home Economics.

Marilyn Zurmuehlen, associate professor of art, summered in Japan at a seminar sponsored by the California College of Arts and Crafts and the Osaka University of Arts. She was one of seventeen students selected for the trip which involved study of the ancient and modern methods of the four traditional Japanese arts of brush painting, textile printing and dyeing, ceramics and woodblock printing.

Invited to participate in the Gordon Research Conferences this summer from UMC's division of biological sciences have been **W. F. Sheridan,** for the conference on Plant Cell and Tissue Culture at Plymouth, New Hampshire, 25 through 29 June, and **Donald Miles** for the conference on Regulation of Photosynthesis at Tilton, New Hampshire, 13 through 17 Aug.

Eugene Gratovich, violinist and associate professor of music, presented a lecture-demonstration on "The American Violin Sonata" for the International String Conference held in England in July. Other participants at the Conference included such notables as Yehudi Menuhin. Gratovich also presented a series of lectures and performances on "The Accompanied Sonata in the 18th Century" for the European String Workshop held at Grantham, Lincolnshire, and sponsored by the American String Teachers Assn. and the University of Evansville.

Ingeborg G. Mauksch delivers the keynote address at the first meeting of the newly formed Council of Nurse-Researchers of the American Nurses Assn. Aug. 22 in Denver, Colo. Her presentation entitled "The Social Issues of Nursing Research" will be heard by 400 members of the new council, all of whom are engaged in the performance of or in the teaching of nursing research.

Arvarh Strickland, professor of history, is among seven professors who developed an examination in Afro-American history which has been adopted by the College-Level Examination Program (CLEP).

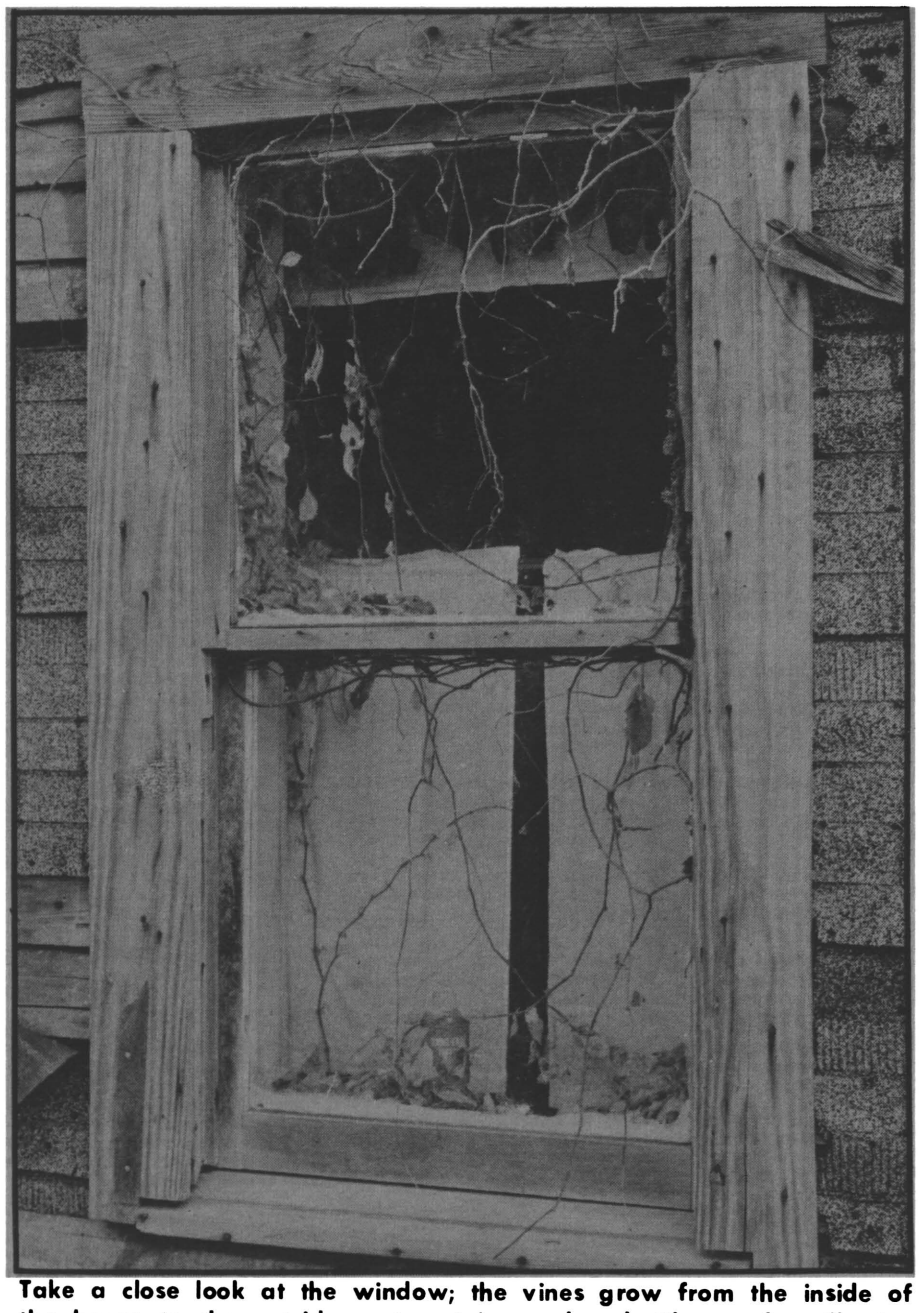
Alan Oestreich, pediatric radiologist, discussed patterns of development of children's bones recently at the annual meeting in New York of the National Medical Assn. His paper explained the use of X-rays to define and evaluate hereditary and acquired short stature of children, including current research being done under his direction at the Medical Center. Oestreich also addressed a pre-convention postgraduate seminar, speaking about children's bone x-rays.

Delmar E. Hatesohl, associate director of extension information and associate agricultural editor, has been elected national vice president of the American Assn. of Agricultural College Editors.

James M. Beauchamp, professor of industrial engineering and director of continuing education, has been elected to a second term as secretary of the Professional Engineers in Education practice division of the 68,000-member National Society of Professional Engineers.

Neil Aslin, professor of education, spoke at the final summer meeting of Phi Delta Kappa, professional education fraternity. Aslin is past president of the North Central Assn. and former superintendent of Columbia schools. He spoke on "New Directions in American Education."

Hans O. Mauksch, professor of community health and medical practice, is one of 10 scientists from the U.S. invited to attend a conference on medical sociology in Warsaw, Poland Aug. 20-25. Mauksch will present a paper entitled "A Social Sciences Basis for Conceptualizing Family Health." Other invited participants at the meeting are 10 socio-medical scientists from Western Europe and 10 from Eastern Europe.



Take a close look at the window; the vines grow from the inside of the house to the outside; yet curtains and a bottle on the sill give proof the house is still occupied.

Back-Woods Boone County

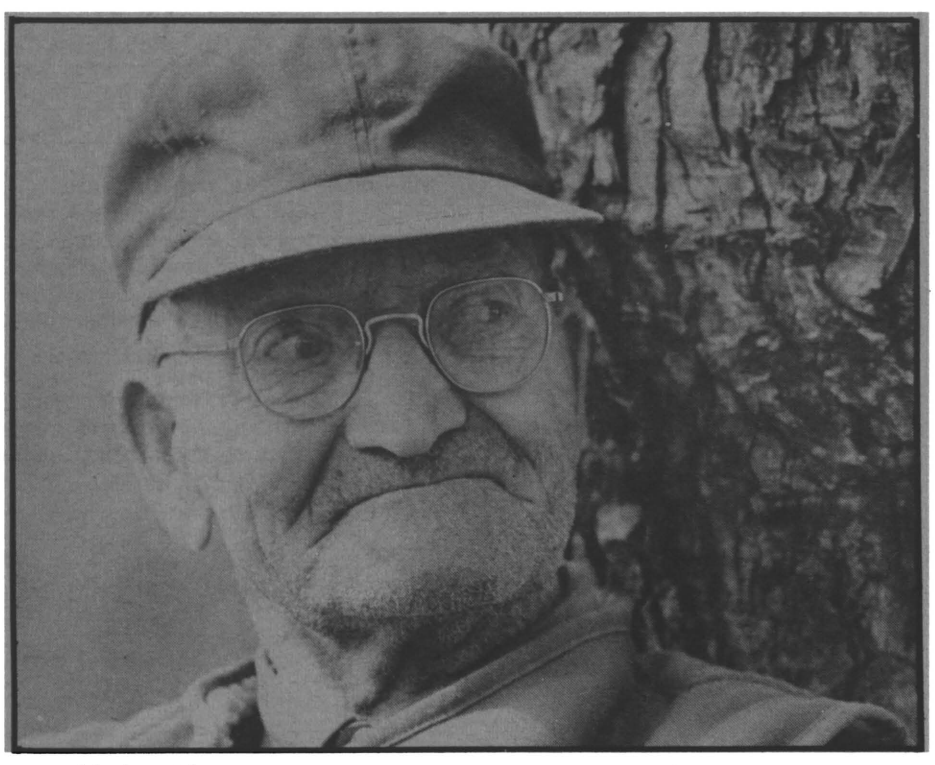
Rough, woodsy textures and the faces of rural America — the camera catches and preserves what few of us in the mainstream of American life have ever experienced.

These pictures are from a study on poverty in rural Boone County done by agricultural economics undergrad Paul Lasley. Photographer is Gordon Kimber, professor of agronomy, who went along with Lasley "just to help out." Kimber's photography skills are a hobby of long standing with him.

Lasely, a native of the Queen City, Mo., area, made all the verbal contacts with the rural Boone Countians in order to put them at ease. "Can't you just imagine how they would have reacted to my accent and camera?" says the British-born Kimber. "They'd have thought some foreigner had come to make fun of them."

But not so. Huntsdale, pop. 25, on the river in western Boone County, is a town that time forgot. Its problems with poverty are obvious. Its population is mostly the very old and the very young. Yet Huntsdale's days are peaceful and uncrowded.

And paradoxically, the relatively greater wealth of Columbians hasn't bought those qualities of peace and solitude for this part of Boone County.



The elderly widower.

A young girl sports many freckles and a wide grin. Below: Just about all there is to Huntsdale's commercial district.

The Published Faculty

BOOKS

Noel P. Gist, professor emeritus of sociology, is the senior author of a recently published book titled "Marginality and Identity: The Anglo-Indian Racially-Mixed Minority in India." The book concerns the existing gap between the Anglo-Indian minority and other peoples in India. The Anglo-Indians are a racial mixture of Europeans and Indians who speak English, are Christian by religion and have a European type of life style in contrast to most of the people of India.

A new book, "Egg Science and Technology," was co-edited by **Owen Cotterill**. He also wrote or was co-author of six chapters. Ruth E. Baldwin wrote a chapter on the functional properties of eggs in foods. Both faculty members are in food science and nutrition. The book contains chapters on production, grading, preservation, chemistry, microbiology and merchandising of shell eggs. The egg products industry is discussed in chapters dealing with pasteurization, freezing, dehydration and quality control.

George G. Doering and **Harlan E. Jensen**, associate professors of veterinary medicine and surgery are the co-authors of "Clinical Dermatology of Small Animals: A Stereoscopic Presentation." The book, which includes nearly 200 pages and 116 stereoscopic color views on stereo slide reels, has been published by the C. V. Mosby Co. in St. Louis.

Fred McKinney, a member of the psychology department, is the editor of a collection of writings in psychology now in its second edition from the Macmillan Company. The book is titled "Psychology in Action: Basic Readings," and brings together a variety of articles illustrating the ways in which psychologists apply fact, theory and methodology in dealing with issues of uppermost concern to their students. The emphasis is on a humanistic approach to personal problems and social changes confronting today's students.

Emblems of Reality: Discovering Experience in Language, by **Don Richard Cox**, instructor in English, and Melvin B. Ralston, was published recently by Glencoe Press. The book is a composition text and is designed to concentrate on the powers and limitations of language rather than upon traditional approaches to writing.

W. R. Miller, Earl Moore, and **Norman Gysbers**, have recently published a book titled Developing Careers in the Elementary School, which is published by the Charles E. Merrill Company.

Thomas L. Good, associate professor of curriculum and instruction and research scientist at the Center for Research in Social Behavior, has co-authored the book,Looking in Classrooms (Harper & Row, January, 1973).

ARTICLES

Mary Lago, lecturer in English, is the author of "Tagore in Translation: A Case Study in Literary Exchange," published in Books Abroad by the University of Oklahoma Press in the summer of 1972. She also authored a review in Victorian Studies on Benita Perry entitled "Delusions and Discoveries: Studies of India in the English Imagination, 1880-1930."

B. Charles Leonard, director of the Center for Educational Improvement, has had an article on "The Effects of Instructional Behavior and Skills Development Inservice Program upon Teacher Behavior" abstracted in a recent issue of Research in Education. RIE is the basic abstract journal for the ERIC system of the US Office of Education.

John Elias, PAVTE, co-authored an article titled "Accountability Means Product" in the March issue of the American Vocational Journal. Elias also co-authored a section of the 1973 Yearbook of the American Vocational Assn. titled "Serving the Disadvantaged Adult Through Vocational Education."

G. E. Baker, PAVTE, recently published articles titled "The Role of the Teacher in Career Education," School Shop, Vol. 32, No. 3, and "Attitudes Toward Career Education," Journal of Industrial Teacher Education, Vol. 10, No. 1.

Merle Muhrer, professor of agricultural chemistry, gave permission to include his Method of Swine Restraint in a new text book on Veterinary Anesthesia. The book is a 1973 edition published by Lea and Febiger of Philadelphia.

James C. Westbrook, professor of law, recently published "A Model Charter for Missouri Cities." Seventy-nine pages in length, the Model Charter contains both recommended provisions and analytical commentary on the legal and policy issues involved in the drafting of a municipal charter. Westbrook also published an article entitled "Charter Drafting Under the New Municipal Home Rule Provisions" in the March, 1973, issue of Missouri Municipal Review.

James W. Gibson and **John A. Kline** were co-authors of an article titled "Computer Analysis of Verbal Behavior in the Classroom," which appeared in the January 1973 issue of The Speech Teacher.

Albert J. Devlin, assistant professor of English, is the author of "Faulknerian Chronology: Puzzles and Games," which appears in the Winter 1973 issue of Notes on Mississippi Writers.

"'Wise Talk' in the Cloister: The Speaker of Browning's 'Soliloquy'," by **Michael Greene**, assistant professor of English, appears in the Winter 1973 issue of The English Quarterly.

Two stories by **Speer Morgan**, assistant professor of English, will be appearing this month. "The Button Machine" appears in Contempora, and "Interruption" in The Best of the Free-U.

"Donne's 'Hymne to God My God, in My Sicknesse' and the T-in-O Maps," an essay by **Donald K. Anderson, Jr.**, professor of English and associate dean of the Graduate School, appeared recently in The South Atlantic Quarterly.

"The Unity of Hawthorne's Twice-Told Tales," by **J. Donald Crowley**, Professor of English, was published recently in the first issue of Studies in American Fiction. Crowley will also have book reviews appearing in forthcoming issues of Nineteenth-Century Fiction, Studies in the Novel, and Studies in American Literature.

Richard A. Hocks, associate professor of English, has an essay in the Spring 1973 issue of The Centennial Review. The article, entitled, "Thoreau, Coleridge, and Barfield: Reflections on the Imagination and the Law of Polarity," was first given as part of a symposium in Columbia.

"Whoever and Whomever," a study of language usage by **Donald Lance**, associate professor of english, is in the April 1973 edition of Language Sciences.

David L. Cowan, assistant professor of physics, has just published a collaborated paper. The paper appeared in The Physical Review Letters 30, 607 (1973), the 26 March 1973 issue, and was entitled "Isotropic ESR Line of the V Center in MgO at Room Temperatures". Cowan and his colleagues have experimentally found that the V center tunnels about through the MgO crystal at a very rapid rate leaving only an isotropic ESR "track."

Keum H. Lee, professor of physics, and Prof. Hyunykon Kim, chemistry, have published a paper, "Exact Solutions for Dynamics of Finite, Semi-Infinite, and Infinite Chains with General Boundary and Initial Conditions," in the December issue of The Journal of Chemical Physics. Their study provided a new exact solution to a broad class of unsolved problems in physics and chemistry including: mixtures, alloys, enzymes, polymers, one-demensional lattices and magnetic systems. Lee and Mr. York Wang, also of physics, have published a paper, "Propagation of a Disturbance in a Chain of Interacting Harmonic Oscillator," in American Journal of Physics for January 1973. This work generalizes a number of studies by many other authors on coupled sets of harmonic oscillators.

The following papers have been published by the chemistry faculty.

E. M. Kaiser, G. J. Bartling, W. R. Thomas, S. B. Nichols, and D. R. Nash, "Selective Metalations of Methylated Pyridines and Quinolines. Condensation Reactions," Journal of Organic Chemistry, 71 (1973).

B. B. Tomazic and J. W. O'Laughlin, "Partition of Hexafluoro-acetylacetone in the System: Water-Tri-n-Butyl Phospate-Organic Solvent and the Extraction of Sodium by Various Fluorinated Beta-Diketones and Tri-n-Butyl Phosphate," Analytical Chemistry, 106 (1973).

G. A. Miller and E. O. Schlemper, "Crystal and Molecular Structure of Bis (2, 4-pentanedionate) dimethyltin (IV)," Inorganic Chemistry, 677 (1973).

B. Thomas and R. G. Lord, "Comparative Measurements of Tangential Momentum and Thermal Accommodations on Polished and on Roughened Steel Spheres," Rarefied Gas Dynamics, Eighth Symposium, Academic Press, New York (1973).

G. Carlos Knight and R. C. Thompson, "A Kinetic Study of the Reduction of Bromate Ion by Neptunium (V) in Perchlorate Solution," Inorganic Chemistry, 63 (1973).

D. E. Troutner and R. M. Harbour, "Fractional Independent Yields of IIImpd and 112Ag from Thermal-Neutron-Induced Fission of 249Cf," Journal of Inorganic Nuculear Chemistry, 11 (1973).

Thomas L. Good, associate professor of curriculum and instruction has published three journal articles: "Teacher Expectations," Self-Report Data in the February, 1973 issue of School Review; "Behavioral Expression of Teacher Attitudes" in the December issue of the Journal of Educational Psychology; and, "Teacher Expectations: Beyond the Pygmalion Controversy" in the December issue of the Phi Delta Kappan.

UNIVERSITY PRESS

Programs in game management and research that have led to landmark success with the wild turkey — as well as the major problems remaining — are the subject of "Wild Turkey Management," a book published recently by the Missouri Chapter of the Wildlife Society and the University of Missouri Press. The 368-page volume, edited by Glen C. Sanderson and Helen C. Schultz, details in 37 chapters the national efforts that have reestablished the turkey in all of its ancestral range in the United States, and in seven western states beyond that original range.

Two 1972 University of Missouri Press books have been selected among the 23 recognized by the Assn. of American University Presses for its annual book show of outstanding scholarly books exemplifying high standards of design and production. The 1973 AAUP Book Show, a June event, chose winners from 225 books submitted by 52 member presses. The two Missouri titles — both of which were designed and supervised in manufacture by **Edward King**, associate director of the Missouri Press — are "Manuel Gutierrez Najera: Escritos Ineditos de Sabor Satirico, Plato del Dia," edited by **Boyd G.** and **Mary E. Carter**, and "The Gottingen Model Book: A Facsimile Edition and Translations of a Fifteenth-Century Illuminators' Manual," edited with commentary by **Hellmut Lehmann-Haupt**.

"The Gottigen Model Book," has also been named among the "Fifty Books of the Year, 1972" selected by the American I[illegible]e of Graphic Arts. The AIGA awards, which w[illegible]nounced in May in New York, are made annually to the fifty volumes selected by the Institure from the offerings of all American book publishers that, in the judgment of the jury, represent the highest qualities of professional book design and manufacture.

Two new issues in Breakthrough Books, a series designed to encourage rising writers of poetry, short fiction, and drama, were announced recently by the Press. The latest volumes introduce in book form the short stories of Californians Ann Jones and John Hermann. Mrs. Jones, who has published individual stories in "The Iowa Review, Four Quarters," and "new renaissance," has included eight short stories in "Hope Should Always," her Missouri Press collection.

John Hermann, a faculty member at California State at Long Beach, is familiar to readers of "Kenyon Review," "Perspective," and "Virginia Quarterly." The Missouri volume, "An Agreement Between US," marks his first book publication.

Protest fiction, black music, and the role of the writer in contemporary America are dominant themes in "The Hero and the Blues," a new book based on the Brick Lectures given by Albert Murray on the UMC campus in October, 1972. Murray's new work, published June 11 by the Press, develops further his use of black music as critical metaphor, an approach the New York Times has praised as giving his work its "authenticity, its emotional vigor, and its tenacious hold on the intellect."

Air Pollution: A Long-Time Urban Problem

It ate steel girders, destroyed vegetation, suffocated human life and frequently brought near-total darkness to the daylight hours of America's cities.

"It" was air pollution, late nineteenth and early twentieth century style.

That air pollution is nothing new is a major statement in the doctoral dissertation of UMC graduate student Dale Grinder. His research has been conducted under a grant from the federal government's Environmental Protection Agency.

Grinder and his advisor, David Thelen, UMC professor of history, sought funding from the government agency to see if the government would fund projects whose results could help formulate future social policy. To put it another way, can the problems and solutions of the past offer any answers to the problems of the present and future?

Admittedly, today's pollution is somewhat different from yesterday's "because of different technology," Grinder says. "Today, more sophisticated chemicals are released into the air and water. Then the problem was largely sulphur and soot, for example, from industrial smokestacks."

Poring over microfilmed newspapers from America's major cities, Grinder learned that, judging by the amount of space devoted to the problem, pollution at the turn of the century was severe and feelings ran high. Both editors and cartoonists attacked the issue.

"Economic, civic and political committees were formed to deal with industrial offenders. Most active were women who, as housekeepers, saw the smoke problem as a threat to life.

"Some groups, like the women's organizations, perceived the pollution as a 'plague,' or a 'fiend' which must be abolished at any cost because it was produced without regard to social costs."

Others saw the belching smoke only as wasteful, since such emissions resulted from incomplete combustion. Such groups advocated use of the most up-to-date equipment to cut smoke production and save fuel.

These two groups formed smoke and dust abatement leagues. The more militant pressed for inspection of polluting industries. They advocated stiff laws and prosecution, including jailing of any manufacturer refusing to cooperate. Those who saw smoke as waste preferred to use "moral suasion" or to "educate" offenders: in the long run industries would save money rather than find smoke abatement costly to them.

But these voices for improvement were opposed by a third group who perceived the dirty clouds of smoke as a symbol of prosperity. To abate smoke, they said, would mean production would have to cut back, jobs would be lost and labor strikes would increase.

Groups against smoke nevertheless persistently pushed for abatement. "They attempted to secure police powers for inspection and prosecution," Grinder notes, "but citizens' efforts were often hampered by the courts which ruled that such powers belonged only to the state government.

"St. Louis city ordinances enacted in 1893 cut the smoke nuisance there by 75 per cent over the next four years. But the Missouri Supreme Court ruled the ordinances unconstitutional, saying such laws were not within the city's jurisdiction."

But after some successes on the part of the smoke abatement leagues, World War I intervened. The arguments for and against the smoking stacks waxed even hotter. Each side tried to use the war effort in its favor: those against waste argued that smoking stacks aided the Kaiser; others argued that full war production was necessary and that fires must not be banked.

"Ultimately the anti-smoke crusades were killed by World War I," says Grinder "as local level demands and civic consciousness were replaced by war concerns.

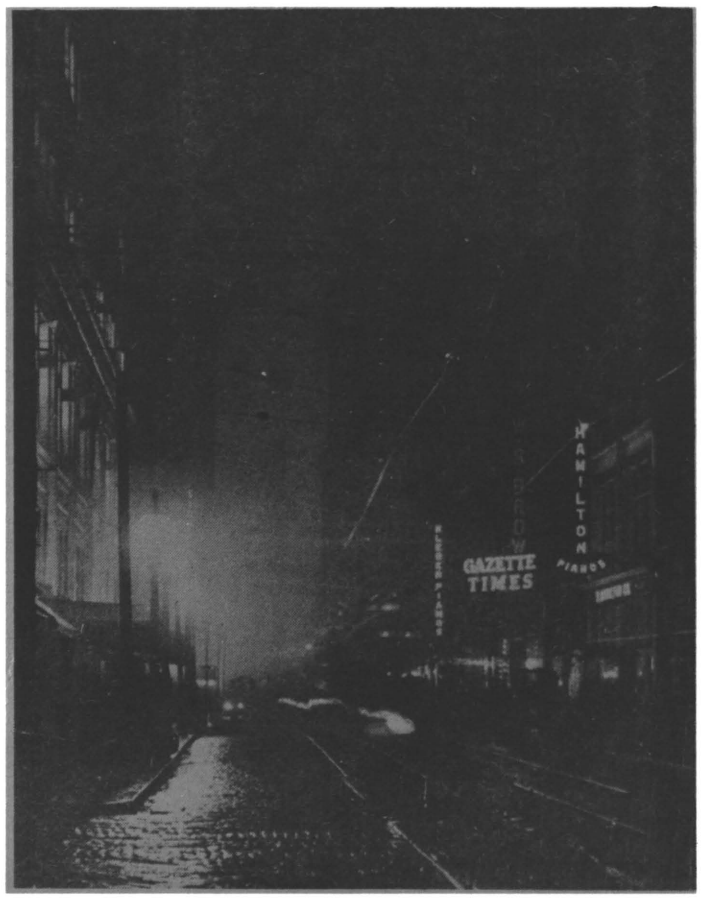
"Long-range successes against pollution were relatively few," he continues. "I expected more success than I found."

What does he expect the government will find of interest in his research?

"That pollution, though somewhat different now, is not a new problem...

"That all kinds of people — engineers, physicians, women, and chambers of commerce— could get together on an issue and make their voices heard...

"The story of air pollution in the late nineteenth and early twentieth centurys," concludes Grinder, "is one of people power, an attack on bureaucracy and an attack on war."



Pittsburgh's smoke problem is illustrated with this photo of the city during daylight hours—Photo courtesy Carnegie Library, Pittsburgh.

Many Scholarly Periodicals Originate Here

How many scholarly periodicals originate on this campus? The question originated with a member of the Faculty Bulletin advisory committee who believed the information could be a heretofore unpublicized positive indicator of faculty scholarship and professional involvement.

A query to departmental chairmen revealed a total of 24 such publications. They are listed below in tabular form for the information of the faculty.

A short description is included for a publication whose purpose is not readily apparent to the layman from its title.

Our definition of scholarly publication included those intended to advance knowledge in a particular field or fields. We did not include "one time only" publications or newsletters containing only professional activities information. We also excluded those whose editor-in-chief was not located at UMC.

Title	Frequency	Editor	Remarks
American Psychological Assn. Division 2 Newsletter	3 per year, 72-73; 4 per year, 73-74	R. S. Daniel, professor of psychology	Devoted to the improvement of the teaching of psychology at all levels.
Dianoia	1 per year	student edited	General philosophy articles written by students from UMC and elsewhere.
Fantastic Worlds: An International Film Journal	1 per year	David Soren, assistant professor of archaeology	A gathering of literature on international films.
Intestinal Microecology	1 every two years	Thomas D. Luckey, professor of biochemistry	Publication of scholarly papers presented at biennial conference.
Journal of the Community Development Society	2 per year	Bryan Phifer, professor of regional and community affairs	Disseminate information on theory, research and practice in purposive community change.
Journal of Consumer Affairs	2 per year	Gordon Bivens, professor of family economics and ag economics (editorship moving to Purdue University Jan. 1, 1974.)	Interdisciplinary articles on consumer-focused research, and discussion of public issues affecting the consumer; Amer. Council on Consumer Interests.
Journal of Industrial Teacher Education	4 per year	H. C. Kazanas, professor of education (PAVTE)	International referee PAVTE teacher education journal; sponsored by the National Assn. of Industrial and Technical Teachers.
Journal of Operational Psychiatry	1-4 per year	Armando Favazza, associate professor of psychiatry, MMMHC	Promotes the eclectic approach in psychiatric theory and practice; and the goals of high quality, available mental education in a University setting.
Journal of Paleontology	bi-monthly	Raymond Ethington, professor of geology	Dissemination of information on fossils; sponsored by the Society for Experimental Paleontologists and Mineralologists and the Paleontological Society.
Journal of the Society of Architectural Historians	4 per year	Osmund Overby, associate professor of art history	
Memoirs of the Missouri Archaeological Society	1 per year	Carl Chapman, professor of archaeology	Monograph series
The Missouri Archaeologist	1 per year	Robert T. Bray, director of Archaeological Research Experiment Sta.	Amateur, student and professional reports on Missouri and Midwest archaeology.
Missouri Law Review	4 per year	student edited; David Fischer, assistant professor of law, faculty advisor	Lead articles by judges, teachers and practicing lawyers; rest are written by top students in their last two years of law school.
Muse	1 per year	Gladys Weinberg, curator of ancient art, Museum of Art and Archaeology	student and faculty articles on the activities and acquisitions of the Museum.
Newsletter of the Health Applications Section, Operations Research Society of America	4 per year	Louis Freund, assistant professor of industrial engineering	Interdisciplinary approach to efficient, equitable health care implementation for the present and future.
Newsletter of the Missouri Archaeological Society	10 per year	Carl Chapman, professor of archaeology	Very short professional articles and information on new finds.
Plains Anthropologist	4 per year	W. Raymond Wood, director of River Basin Archaeology.	Provides a forum for current discoveries and theories in the Plains area of anthropology.
Proceedings of the Midwest Conference on Endocrinology and Metabolism	1 per year	Alexander Kenney, professor of biochemistry, investigator, Dalton Ctr. (editorship rotates annually among certain UMC faculty)	
Proceedings of the Third Conference on Computer Applications in Radiology	biennial	Kristan Roskoski, senior research assistant, radiology	
Review of Social Theory	2 per year	student edited	Devoted to interdisciplinary issues in social sciences, issues in theory construction and theoretical methodology
Research Series of the Missouri Archeological Society	1 per year	Carl Chapman, professor of archaeology	Detailed, scientific reports for the professional and deeply-invoived amateur.
Sociological Quarterly	4 per year	James McCartney, associate professor of sociology	Organ of the Medical Sociological Society; accepts articles in all phases of the field.
Trace Substances in Environmental Health	1 per year	Delbert Hemphill, professor of horticulture, project leader, ETSC	Contains proceedings of the annual interdisciplinary conference at UMC.
Training and Staff Development Special Reports	irregular	John Gross, chairman of extension education	Summaries of studies and research by students in extension education.

Thoreson: Observations on the British

Any American scholar doing research abroad expects to need his materials translated if he is sampling the population. UMC's Richard Thoreson found that necessary even in England!

The professor of education and director of graduate studies in rehab and employment counseling was advised to have his cover-letter translated and also had to provide a glossary of American-British terms for the inventory he wished to administer.

"My respondents wouldn't have quite understood or felt comfortable with the cover letter if it hadn't been phrased in British idiom," Thoreson notes.

This incident was just one of many in a rewarding sabbatical year for Thoreson. His research project involved surveying careers officers and students preparing to be careers officers. These are equivalent to U. S. rehabilitation and employment counselors.

Thoreson wanted to find out how the careers officers perceived their job tasks and vocational interests, and to build a case for the similarity in jobs between British careers officers and American workers with the handicapped. "I compared the differences and similarities in job structures and as well as cultural similarities," he says. "The study could provide insights into improving counselor training and rehabilitation services to the handicapped in the U.S."

The study was carried out with the cooperation of England's Dept. of Employment and the University of Reading, as well as the other four English universities and colleges which train careers officers. "I also wanted to assess the degree of cooperationbetween this government agency and the schools which train the officers," says the educator.

Any governmental or private agency involved in the study had to give its approval to participate, but Thoreson had no difficulty in gaining cooperation.

There were no delays or obstacles "probably because of the basic courteous, polite nature of the British," he believes.

Thoreson also had teaching responsibilities at the University of Reading which served as his headquarters in England. The first semester he lectured in psychology; the second, he had a counseling practicum and conducted small tutorial groups.

He observes that English students spend more time in contact with their teachers than American students do: "Students here should get more of their faculty's time — they would do better."

Yet he also observed that the English graduate students he taught were as well prepared and advanced professionally as their American counterparts are — "but the English are better at grammar and spelling!" He notes, however, that his practicum students were older because they were all required to have several years of field and teaching experience, something not generally required of American graduate students.

"The British university system now accepts about 10 per cent of secondary students — it was formerly only four per cent — and thus still has an elitist flavor, especially Oxford and Cambridge which accept only one-half of one per cent."

From his American viewpoint Thoreson facetiously labels the British universities "the Renaissance playground of the upper classes" who view Americans as "unredeemingly vulgar."

"The U. S. upper class thinks they're better than others: the British upper class knows they are!" grins Thoreson.

The elitist, classically-oriented faculty, Thoreson quickly found were masters in one-up-manship and splendidly conversational. "The lecturers in Reading's School of Education were urbane men of letters. . . a professor's chairing a faculty meeting was an artistic tour de force."

Professorial facility with language extended to their lectures which were carefully prepared and delivered. "All British teachers are actors to some extent and take great pride in being teachers. They do not read dully from notes; underclassmen would never attend class if it were so. A lecturer's professional reputation would be ruined if it were seen that he spoke to a near empty classroom."

Thoreson advocates more such feedback from American students about their teachers and lecturers with a view toward improving the classroom performance of teachers here. Having seen the British lecturers perform, Thoreson says he would like now to find some way to work with new and senior American faculty where teaching style could be critiqued in a non-threatening manner.

For all the apparent hierarchical structure and aristocratic nature of the British university, on the inside, says Thoreson "the humanism and egalitarianism of the counseling staff and students were genuine. The British empire and Renaissance pretensions were smiled upon as pleasant anachronisms."

Both staff and students, he feels, "understand that the real world of British counseling was to be found in the crumbling inner cities and sprawling urban areas. The real work is among youth of immigrant parents, the working class and poorly paid workers in a small congested industrial nation."

Thoreson observes: "It was, finally, a day-to-day world tht differs only slightly from the world of the American counselor."

Visitors from Abroad Here

Visitors from abroad will be on campus shortly after the beginning of the fall semester.

Prof. Ogunbi, chairman of microbiology and parasitology and vice-provost of the School of Medicine, University of Lagos, Nigeria, will be at UMC Aug. 25-30. He is making a professional tour of several countries of the world, including the U. S. where he is consulting with medical school and university officials in Miami, Atlanta, Bethesda and Salt Lake City.

The University of Lagos has an exchange agreement with UMC. Prof. Frank Engley, microbiology, spent some time at the Lagos university and will act as host for Prof. Ogunbi.

The Nigerian educator will be observing teaching methods and audio-visual capabilities here as well as discussing possibilities of further exchanges among the two universities' faculty and staff.

Those interested in discussion with Prof. Ogunbi may contact Dr. Engley at 882-8753.

H. O. Mongi, dean of the faculty of the College of Agriculture, Dar-es-Salaam University, Tanzania, will be on campus Aug. 27-31 for study and observation of UMC's agriculture program as it could apply to agricultural development in Tanzania.

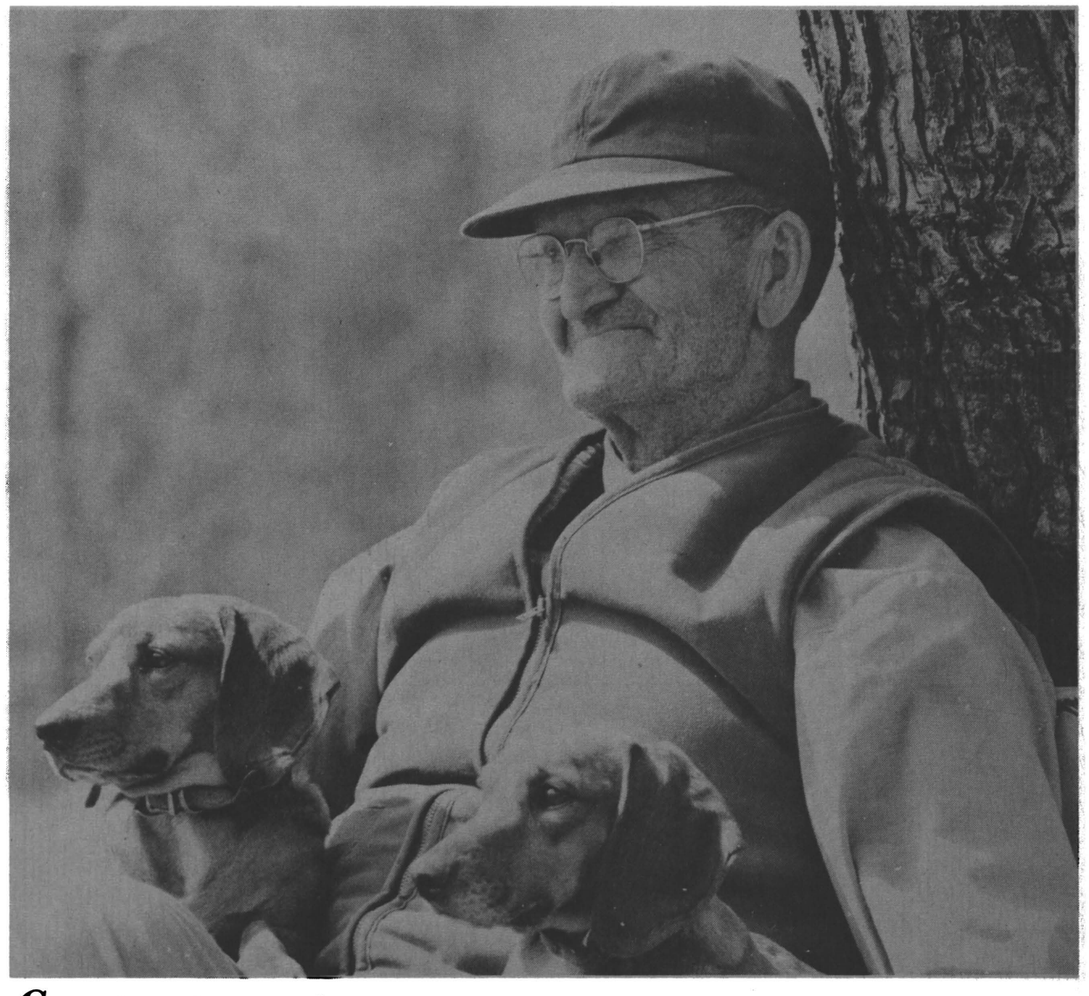
He will also confer with a UMC team recently returned from Tanzania where, through contract with the Agency for International Development, it identified problems in food crop production and recommended ways to increase crop production there. Mongi will consult with the team as it prepares its final report on the Tanzanian project.

This Issue

	Page
Calendar	2
Graduate School and Research Notes	2
Faculty Council Minutes	3
Faculty Footnotes	4
New Faculty	7
Published Faculty	6

faculty BULLETIN

Vol. 9, No. 1 August 22, 1973



Contentment

An elderly widower, a resident of nearby Huntsdale, sits quietly with his dogs, his face a mirror of satisfaction and peace. The photo is part of a series on rural Boone County. See page 5.

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 2 September 19, 1973

Bond Discusses Higher Education Before University Club Sept. 5

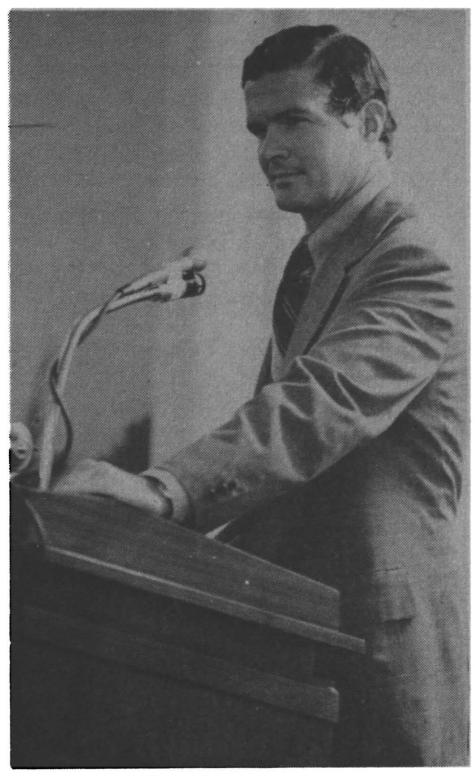
The University Club, hosting an informal appearance of Governor Christopher Bond Sept. 5 in the Club's Gentry Hall quarters, heard Bond discuss a wide range of topics in higher education.

In repeated appearances on the UMC campus during his first year as governor, Bond has indicated his continuing interest in the state's higher education system. He reaffirmed his intention to foster its high quality in his University Club remarks.

Stressing the need for higher education's accountability to the taxpayers of the state, Bond said he would seek cooperation between the budget staff of the state's office of administration, the Missouri Commission on Higher Education and Missouri's colleges and university system. Such cooperation "should produce uniform program definitions and cost procedures," he said.

Bond also expressed his approval of Missouri's participation in the National Center for Higher Education Management Systems which provides data on higher education programs, structure, cost and other information. Such data "could provide Missouri with a basis for national comparison of cost and performance in higher education," Governor Bond noted.

There is great interest in attracting and retaining high quality faculty, says Bond, "but maintaining competitive faculty salaries is critical." To respond to this problem will mean faculty participation "in developing administrative and fiscal responsibility and setting forth criteria on faculty workload in teaching, research and service areas," Bond observed.



Governor Bond concentrates on a comment from the University Club audience.

"We hope to work with you in these areas," the governor concluded in his opening remarks. "Our budget experts will seek guidance from University administration and faculty."

The question-answer session which followed covered both Missouri politics and state higher education.

Maintaining citizen confidence and support for various aspects of State government, "which has suffered recently from Watergate and other indictments," the Governor noted, is a major concern of his administration.

Related is the problem of ethics and election reforms which, Bond observed, the legislature had ignored except for the controversial open meetings law. Equally related, "which the legislature botched," is state reorganization, said Bond. "We will have to start over on it next year."

Bond hedged on a question seeking his comment on the relationship of the Curators to the legislature, observing that those aspects of state government relying on legislative largesse range from "red-hot to ice-cold" in their relationships. Bond grinned as he observed that he would refrain from passing around suggestions "until I have total control of the legislature."

To advance governmental efficiency, Bond is abolishing inactive legislative commissions. These groups, created to study specific legislative programs, are in the process of submitting reports of their work so their usefulness can be determined. Those which deal with important programs — like the one charged with developing statewide emergency medical services — are assured of continuing attention since the EMS program "has high priority with me," Bond stated.

On nominations of persons for membership on the Board of Curators, Bond observed that he chose individuals with a broad understanding of commitment to higher education.

Bond also indicated that he favors a "uniboard" concept as liason between higher education and state government. Most interpret the uniboard concept as a single board over all state-supported institutions of higher education as opposed to the "superboard" concept which would involve one board over numerous individual boards of regents or curators.

Seek Reactions to Proposed By-Laws

The Faculty Council is requesting reactions from the faculty on the proposed changes in the Faculty By-Laws which were published in the July 25 issue of the **Faculty Bulletin**.

Reactions should be sent to Gordon Bivens, chairman of the Faculty Council's academic affairs committee.

Faculty who have lost their copies or who did not receive the July 25 Faculty Bulletin may obtain a copy from the Office of Public Information, 223 Jesse Hall, 882-6211.

Faculty Borrowing: Suggestions Needed

There is some confusion about the new regulations concerning limits on faculty borrowing at the University libraries. The Faculty Council endorsed the idea of some restrictions on borrowing but had no opportunity to consider the final version of the document.

Suggestions for modification of the new regulations are now being considered by the Library Committee. Suggestions should be sent to Dwight Tuckwood, director of University Libraries, Ellis Library.

William M. Jones
Chairman, Library Committee

Opinions Sought On Resolution No. 3

A committee appointed by the Faculty Council is seeking expressions of opinion from the general faculty on Resolution No. 3 which was tabled for further study at a general faculty meeting last spring.

The resolution questions the educational validity of the concept of one University in four locations with resultant diminished campus autonomy and erosion of faculty authority.

The general faculty, at the time it tabled the resolution, directed that a committee be appointed to prepare a report on Resolution No. 3 for submission to the general faculty this fall. The committee has been appointed and is now ready to hear expressions of opinion from the faculty. Faculty are asked to send their views to any of the following committee members:

Dallas K. Meyer, M413 Med Sci; Laurence W. Hedlund, 217 Eckles; H. Donald Naumann, 1-74 Agriculture; Gordon E. Bivens, 238 Stanley; Paul K. Blackwell, 304 Math Sci; Neil C. Aslin, 207 Hill; Luverne Walton, 449 GCB; and Gordon Kimber, 220 Curtis.

If sufficient expression of opinion is received, the committee will hold an open hearing on the resolution in the near future. The committee will then send the Faculty Council a report of its findings.

Reception to Honor Home Econ Dean

Alumni of the College of Home Economics will honor Dr. Margaret Mangel, recently named dean, with a reception on Oct. 13.

Administrative staff and department chairmen will be honored at the reception from 9:30 to 11 a.m. in the College's Gwynn Memorial Lounge.

Legislative representatives, UMC administrative officials, alumni and friends are invited to the reception sponsored by the Home Economics Alumni Assn.

The change from School to College of Home Economics was approved at a recent meeting of the Board of Curators. Sections were changed to departments.

Administrative staff to be honored include: Dr. Mangel; Dr. Beverly Crabtree, recently named associate dean for extension; and Mrs. Veta B. Adams, assistant to the dean and coordinator for student programs.

New Faculty Welcomed Here

Faculty Bulletin welcomes new faculty to the campus. Departmental chairmen are encouraged to forward brief information on new faculty to the address listed in the publication box on Page 2. Due to space limitations we can feature only those who have the rank of assistant professor or higher.

Susan L. Flader, assistant professor of history, comes to UMC from the University of Wisconsin's Institute for Environmental Studies, where she was visiting assistant professor the past year. She holds the M.A. and Ph. D. from Stanford in history and the humanities. Her professional interests are in land use and conservation, natural resource policy, environmental change, attitudes toward the environment with special reference to historical aspects, and U. S. western intellectual history.

John J. Gatta Jr., assistant professor of English, is a specialist in colonial and nineteenth-century American literature. He has an essay on the medieval poem "Pearl" appearing in the forthcoming issue of Modern Philology. His M. A. and Ph. D. are from Cornell.

Carla Waal, professor of speech and dramatic art, comes to UMC from the University of Georgia-Athens, where she has taught since receiving her Ph. D. from Indiana University in 1964. Of Norwegian descent, the Milwaukee-born professor speaks Norwegian fluently and is a specialist in Scandinavian literature and drama. She held a Fulbright Fellowship in 1964 which resulted in a book on the distinguished Norwegian actress Johanne Dybwad. She is widely published and has presented numerous professional papers.

(Continued on Page 6)

Noted Philosopher of Science To Deliver Memorial Lecture

Dr. Carl G. Hempel, a noted philosopher of science, will deliver the A. C. Benjamin Memorial Lecture at 7:30 p.m. Friday, Sept. 28 in the Memorial Union Auditorium.

Hempel, who is professor of philosophy at Princeton University, will speak on the question "Are There Limits to Scientific Knowledge and Understanding?" The lecture is sponsored by the UMC department of philosophy.

Hempel received his Ph.D. from the University of Berlin in 1934. He is the author of "Fundamentals of Concept Formation in Empirical Science;" "Aspects of Scientific Explanation;" and "Philosophy of Natural Science."

The past president of the Eastern division of the American Philosophical Assn., Hempel has held visiting professorships at Columbia and Harvard universities. He was a fellow at the Center for Advanced Study of Behavioral Sciences at Stanford University.

Hempel is a member of the Assn. of Symbolic Logic and a fellow in the American Academy of Arts and Science. He was a Guggenheim Fellow and held a Fulbright Senior Residence Fellowship at Oxford University. He is listed in Who's Who in America.

A. C. Benjamin was professor of philosophy at UMC from 1945-66. The lecture series, which is free and open to the public, was established to further understanding of philosophy of science.

CARL G. HEMPEL

Graduate School and Research Notes

LATIN AMERICAN CO-OP SCIENCE — A new Latin American Cooperative Science Program has been established by the National Science Foundation to foster and support mutually beneficial scientific and technological cooperation between the U. S. and Latin American countries. Universities are eligible to receive grants under the program to conduct cooperative activities in most fields of science and engineering, including interdisciplinary and applied sciences. The program will provide financial support for three different types of activities: joint seminars, joint cooperative research projects, and scientific visits. Submission of preliminary proposals to the Foundation for comment and guidance, before conclusion of understandings with foreign colleagues, is encouraged. Further information and guidelines for the program may be obtained from Mrs. McQuary, 2-6311, or you may write: Latin American Cooperative Science Program, Office of International Programs, National Science Foundation, Washington, D. C. 20550.

As you are aware, the Research Council adopted, in May, 1971, a policy which requires all applicants for Summer Research Fellowships to seek support as a condition of eligibility for a Summer Research Fellowship. The procedure is as follows:

In applying for a Summer Research Grant from the Research Council, a faculty member is to submit sixteen copies of the Summer Research Fellowship application form, along with a copy of a grant proposal he has submitted to an outside granting source. (Applications to outside sources may be for the total support or a substantial fraction of support requested of the Council.) New faculty members only recently having started their research careers should contact Dean Culpepper.

The Council will then process the application as in the past, evaluating and making awards within the limits of its resources. As faculty members are awarded support from outside finding sources, the Council's funds which are released will be used to extend support to additional faculty applicants for Summer Research Fellowships so long as it deems them worthy for support.

The Graduate School maintains a small library of grant source information and we may be able to help faculty members in finding suitable prospective donors. Mrs. Carol McQuary in Room 205 Jesse is available for assistance in this regard.

DEADLINE FOR SUBMISSION OF SUMMER RESEARCH FELLOWSHIP APPLICATIONS IS NOV. 28.

GRANT PROGRAM FOR YOUNG SCIENTISTS — The National Heart and Lung Institute is inviting young scientists and physicians to compete for grants to conduct pulmonary or lung-related research under projects they themselves design. The new program will provide modest independent support for projects to help young scientists and physicians who are on the lower rungs of the professional ladder to encourage them toward pulmonary research. Applicants must be under 35 years of age and have doctorates to be eligible. Applications may be obtained by contacting Jay Moskowitz, Acting Chief, Special Programs and Resources Branch, Div. of Lung Diseases, National Heart and Lung Institute, Bethesda, Md. 20014. Completed applications must be returned by Dec. 1.

ADULT EDUCATION PROPOSALS — Although guidelines have not yet been released, Oct. 15 is projected as the deadline for proposals for Experimental and Demonstration Programs and Teacher Training Programs. Both programs are supported under Section 309 of the Adult Education Act. The Adult Education Division encourages a seven page prospectus before submission of a formal proposal. Colleges and universities are eligible for support. For further information contact: Div. of Adult Education, U. S. Office of Education, Room 5056, Regional Office Building 3, 7th & D streets, Washington, D. C. 20202.

LIBRARY FELLOWSHIP PROGRAM — The Council on Library Resources offers a limited number of fellowships each year to mid-career librarians of the U. S. and Canada who have demonstrated a strong potential for leadership in the profession. These fellowships are similar to faculty sabbatical leaves, wherein applicants pursue a self-developed study or research project aimed at improving their competence in the substantive, administrative and-or technical aspects of librarianship. For further information contact: The Fellowship Committee, Council on Library Resources, Inc., One Dupont Circle, Suite 620, Washington, D. C. 20036.

TEACHERS ABROAD PROGRAM — The International Educational and Cultural Exchange Program authorized by the Fulbright-Hays Act supports the Teachers Abroad Program administered by the U. S. Office of Education. College instructors and assistant professors who have at least a bachelor's degree and three years of full-time teaching experience are eligible to apply. For further information contact: Div. of International Exchange and Training, Institute of International Studies, Office of Education, Washington, D. C. 20202.

IMPROVEMENT OF POST-SECONDARY EDUCATION — With $15 million anticipated for fiscal 1974, new guidelines are being developed by HEW's new Fund for the Improvement of Post-Secondary Education. Guidelines are expected to outline main thrusts of program's second year. The Fund will continue to stress "innovations" or "new approaches" in learning, teaching, teacher development, institutional missions, etc. Guidelines should be ready sometime this fall with a deadline for proposals tentatively set for Jan. 15, 1974.

SOME OTHER DEADLINES — New and supplemental PHS grants — Oct. 1; NEW Fellowships and Summer stipends — Oct. 15; NSF Pre-College Instructional Improvement and Implementation — Oct. 15; Group Projects Abroad, OE — Oct. 1; Doctoral Dissertation Abroad and Faculty Research (OE) — Oct. 15; NEW Public Media Program — Oct. 15; ACLS Grants-in-Aid — Sept. 30; ACLS Research Fellowships — Oct. 15; NATO Postdoctoral Fellowships — mid-October; NEW Project Grants — Nov. 1; NEH Planning Grants — Nov. 1; NSF Graduate Fellowships — Nov. 26.

(For further information on above programs call Mrs. Carol McQuary, Graduate School, 882-6311.)

Graduate School Announces Committee Posts

Lloyd E. Berry, dean of the Graduate School, has announced the following committee appointments for 1973-74:

Research Council

David A. West, chairman
Finance

Calvin D. Ahlbrandt
Mathematics

James Breazile
Vet. Anatomy

Charles Dew
History

John N. Farmer
Biol. Sciences

Ellis R. Graham
Agronomy

Patrick Harris
Physiology

Joseph Kunce
Education

William H. Lichte
Psychology

M. Bonner Mitchell
Romance Langs.

X. J. Musacchia
Physiology

George Pinches
Finance

Donald J. Schilling
Economics

Homer L. Thomas
Art History

David E. Troutner
Chemistry

Robert Tsutakawa
Chemistry

Richard C. Warder
Mech, Aero Engr

Lynn Ballard
graduate student

Black Studies Committee

Peter Hall, chairman
Sociology

Walter Daniel
Vice-Chancellor

Roger Durand
Political Science

Wayne Leeman
Economics

Ernest C. Morgan
Journalism

Alexander Pickard
Music

Araminta Smith
Social Work

Arvarh Strickland
History

Keith Hardiman
graduate student

Committee for Review of Research Involving Human Subjects

X. J. Musaccnia,
chairman
Physiology

Nicholas Adams
Education

James Amerman
Speech, Dramatic Art

Helen Anderson
Nutrition

Ruth Baldwin
Food Science

Robert Bevins
Ag Economics

Linda Chapman
Biol Sciences

Donald Eggeman
Coordinator,
Handicapped Students

Russell Geen
Psychology

Thomas Good
Education

Douglas Griggs
Physiology

James W. Hamilton
Anthropology

Donald Kausler
Psychology

David Leuthold
Poli Science

Joye Patterson
Journalism

John A. Roberts
Physical Ed

Joseph Thorpe
Psychology

Frank Wellman
Education

Michael Reagen
graduate student

Eugenie Scott
graduate student

Bill Fasse
graduate student

Committee on Fellowships, Traineeships, and Assistantships

Stanley Manahan,
chairman
Chemistry

Kenneth Buchert
Civil Engineering

June Chance
Psychology

Edward Coe
Biol Sciences

John Franz
Biochemistry

James Gaven
Anthropology

Lloyd Jorgensen
Education

Ralph Lowenstein
Journalism

C. Edmund Marshall
Agronomy

Donald Shawver
Marketing

Meyer Reinhold
Classical Studies

Charlotte Wells
Speech

Joseph Zemmer
Mathematics

Richard Brooks
graduate student

Committee on Medieval and Renaissance Studies

Charles G. Nauert
chairman
History

Edzard Baumann
Art History

Ruth Firestone
Germanic, Slavic Langs

Milton M. Gatch
English

James V. Holleran
English

Harold G. Jones III
Romance Langs

Claudia Kren
History

Andrew C. Minor
Music

M. Bonner Mitchell
Romance Langs

George B. Pace
English

Homer L. Thomas
Art History

Cynthia Cornell
graduate student

Computer Services Advisory Committee

Paul Blackwell, chairman
Computer Science

John Alspaugh
Education

S. W. Dwyer III
Electrical Engineering

Herbert S. Goldberg
Microbiology

Gary Krause
Agronomy, Statistics

Carmel Mazzocco
Campus Computer Center

Edward Miller
Information Science

Frank Quattrocchi
Program Development

Eugene Zieha
Accounting

Larry Sanders
graduate student

Electron Microprobe and Microscopy Committee

James Esterly, chairman
Pathology

Merton Brown
Plant Pathology

Horst-Dieter Dellman
Vet Anatomy

Thomas Freeman
Geology

David A. Hansen
Engineering

Lynn Walley
graduate student

Environmental Sciences Graduate Area Committee

Howard C. Hopps,
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Robert Breitenbach
Biol Sciences

Rex Campbell
Sociology

Alden Carpenter
Geology

William Eyestone
Vet Pathology

Louis Holroyd
Physics

Harold D. Johnson
Dairy Husbandry

Darrell King
Civil Engineering

Stanley Manahan
Chemistry

James McQuigg
Atmospheric Sciences

James Pierce
Community Health

J. R. Vogt
Nuclear Engr

Janet Davis
graduate student

Laboratory Animal Resource Committee

John Farmer, chairman
Biol Sciences

Richard J. Aldrich
Agronomy

Richard Doyle
Director, Lab. Animal Med.

Stephen Fisk
Campus Veterinarian

Allen Hahn
Veterinary Medicine

Melvin Marx
Psychology

Boyd O'Dell
Ag Chemistry

John Schuder
Surgery

Joseph Wagner
Vet Pathology

William W. Ellis
graduate student

Radiation Safety Committee

David E. Troutner,
chairman
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Ellis R. Graham
Agronomy

Louis A. Corwin, Jr.
Vet Medicine, Surgery

Thomas R. Gray
Asst. Business Officer

Philip K. Lee
Director, Health Physics

Harold D. Johnson
Dairy Husbandry

Orval L. Olson
Health Physicist

Darroll H. Timmons
Nuclear, Mech.-Aero. Engr

Wynn A. Volkert
Radiology

Jim Rubenstein
graduate student

Research Park Committee

Donald P. Duncan,
chairman
Forestry

Richard J. Aldrich
Agronomy

Edwin Cox
Director, Nuclear Reactor

Abraham Eisenstark
Biol Science

Herbert S. Goldberg
Microbiology

Thomas R. Gray
Asst. Business Officer

William R. Kimel
Nuclear Engineering

X. J. Musacchia
Physiology

Richard L. Wallace
Economics,
Community Health

William Thom
graduate student

Research Shops Committee

Patrick Harris,
chairman
Physiology

Edwin Cox
Director,
Nuclear Reactor

Eugene Hensley
Physics

Mark Hulse
Electronics
Instrument Shop

J. C. Lysen
Mech, Aero Engr

Charles Merilan
Dairy Husbandry

David Tayler
Science Instrument Shop

Arnold White
Biochemistry

Ronald Higginbotham
graduate student

Ancient Studies Committee

Eugene N. Lane, chairman
Classical Studies

William R. Biers
Archaeology

William B. Bondeson
Philosophy

Fordyce Mitchel
History

Meyer Reinhold
Classical Studies

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 116 Jesse, or to the Office of Public Information, 223 Jesse, 882-6211.

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Readers Respond Heavily To Recent F.B. Survey

(Editor's Note: The following article by Ms. Helen Matthews is a report of the findings of her Faculty Bulletin readership survey. The survey, in partial fulfillment of the requirements for the M.A. in journalism, was conducted under the guidance of Won Chang, assistant professor of journalism, and with the approval of Robert Daniel, chairman of the Faculty Council.)

In an attempt to evaluate the communication process between the faculty, the Office of Public Information and campus administration through the use of the **Faculty Bulletin,** a readership survey was conducted in June, 1973.

Questionnaires were sent out to all the faculty members on the **Bulletin's** mailing list of approximately 2,000 names. Eight hundred seven questionnaires, or 40 per cent, were returned.

The rate of response was unusually high, considering the questionnaires were sent out during the summer session, when many faculty members were not present on campus.

The three-page questionnaire consisted of 26 questions concerning the **Bulletin's** purpose, regular features, format and point of view. Additionally, faculty members were asked why so few faculty members contribute their opinions on pertinent issues to the **Bulletin.** Response to this question numbered over 400. The faculty members were asked to suggest improvements for the **Bulletin.**

The purpose of the **Bulletin** was stated in the questionnaire to be, "a means of communicating between the faculty and the administration — not only to provide more depth to matters than in the local media, but to provide a means for the faculty to learn more about trends in higher education. Also, it helps the faculty to keep abreast of things going on at other campuses."

The following table shows the breakdown in response to the question, "Do you agree with this purpose?"

	Number of Response	Percentage
Strongly Agree	276	34
Agree	485	60
Disagree	29	4
Strongly Disagree	6	.7

Seven hundred sixty-one or 94 per cent of the total respondents agree with the stated purpose of the **Bulletin.**

Further breakdown of the responses indicates that if a respondent agrees with the **Bulletin's** purpose, he also feels the **Bulletin** is doing an adequate job of carrying out that purpose.

Faculty members who have been with the University for less than ten years, and the ranks of associate and assistant professor and instructor indicate the strongest agreement with the **Bulletin's** purpose.

In response to the question, "How well do you think the **Bulletin** serves its purpose?" the faculty members were asked to circle their evaluation on a scale of 1 to 10 (10 being the most favorable).

	Number of Responses	Percentage
Low Assessment (1-3)	178	22
Moderate Assessment (4-6)	389	48
High Assessment (7 & above)	223	28

Associate professors tended to give a lower assessment to the evaluation than the other professional levels.

The general breakdown of responses concerning the reading habits of the faculty regarding the **Bulletin,** indicate that 77 per cent of the respondents read more than half of the issue.

The more strongly a respondent agrees with the **Bulletin's** purpose, the more of the issue he reads. The respondents who disagree with the **Bulletin's** purpose read ½ or less of the **Bulletin.**

The data indicated that there is moderate interest in each of the regular features. The weakest interest occurs for the features "Published Faculty" and "Gifts and Grants."

Of the respondents, 56 per cent would like to see more feature stories in the **Bulletin.** Even those respondents who favorably assess the job the **Bulletin** is doing in following its purpose, would like to see more feature stories.

When evaluating the **Bulletin's** photos and artwork, format, reporting and writing, most of the responses occur in the moderate assessment range of 4-6 on the evaluation scale.

The respondents were asked to use the scale of 1-10 to rank how well the **Bulletin** conveys information about campus events and activities. The following is the table of the responses.

	Number of Responses	Percentage
Low Assessment	139	17
Moderate Assessment	396	49
High Assessment	254	32

The rank of instructor responds more favorably than the other professional levels in assessing how well the **Bulletin** conveys campus information.

To the question, "Should the **Bulletin** reflect mostly the administration's point of view?" the following table indicates the responses.

Very Much So		A Little		A Lot		Not At All	
30	4..	380	47..	153	19..	196	24..

The respondents who agree with the **Bulletin's** purpose register the highest number of responses in the "a little" category.

The respondents who disagree with the **Bulletin's** purpose, tabulate the highest number of responses in the "not at all" category.

To the question, "Presently, does the **Bulletin** reflect mostly the administration's point of view?" the responses were:

Very Much So		A Lot		A Little		Not At All	
142	18..	302	37..	252	31..	31	4..

The respondents who disagree with the **Bulletin's** purpose feel that much more of the administration's viewpoint is present in the **Bulletin** than those who agree with the purpose.

The style and format of faculty newsletters vary greatly among higher education institutions. The **UMC Faculty Bulletin** is published once a month, and the **Bulletin-In-Brief** is generally published the remaining weeks of the month. The following table is of responses to the two alternative styles offered as choices. The choices were a weekly **Bulletin-In-Brief** format and a daily newssheet.

	Number of Response	Percentage
Weekly Bulletin-In-Brief	155	19
Daily News Sheet	73	9
Present Format	495	61
No Response	84	10

The most frequent answer to the question of why there is little response to the call for the expression of faculty opinion was a lack of time for the faculty member to respond properly.

Other common responses were low faculty interest in the publication and a fear of administrative reprisal.

The write-in suggestions for improvements for the **Bulletin** covered several areas. The most frequent response was a call for more in-depth reporting. Other respondents said the publication is too dry and stuffy.

Another group of respondents indicated a desire for some form of faculty forum. This group wants a faculty publication that is free from administrative control and viewpoint.

However the data revealed that the majority of the faculty members do not see or expect the viewpoint of the administration to be left out of the **Bulletin** entirely.

Basically, the faculty is generally satisified with the **Bulletin's** purpose and effectiveness. The evaluation of the features and characteristics in the **Bulletin** were favorable for the most part.

When presented with alternative styles and formats, the "status-quo" choice was the majority's choice: keep the present distribution and format.

Many faculty members would like to see additional human interest stories and more in-depth coverage of matters of academic concern.

A question and answer column, where faculty members could respond to questions and remain unidentified could be one way to gather faculty opinion on certain issues of importance, according to one respondent.

The highest number of responses, in a breakdown of University schools and colleges, came from the College of Agriculture, with 217 responses; the College of Arts and Science, with 153 responses; and the School of Medicine, with 137 responses.

Thirty-five per cent of the responses, came from the rank of professors; associate professors registered 28 per cent of the total responses, and assistant professors registered 21 per cent.

3 MD Alums Honored Sept. 21

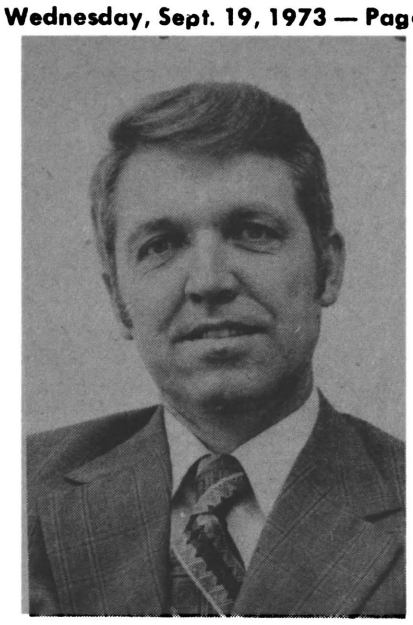
Three physicians are among the 12 alumni and 12 faculty members who will be honored at ceremonies here Sept. 21. They are James O. Davis, M.D.-Ph.D., chairman of the department of physiology in the School of Medicine, Major General Carl W. Hughes, chief surgeon for the U.S. Army, Pacific Area, and commander of Tripler Army Medical Center in Honolulu; and Cortez F. Enloe Jr., M.D., editor and publisher of **Nutrition Today.**

General Hughes and Dr. Enloe have been invited to lecture at the University Medical Center Friday afternoon while they are in Columbia. All three physicians will be honored at a 3 p.m. reception in the Medical Center Postgraduate Lounge.

Dr. Enloe, who received his undergraduate degree in chemistry at the University and his M.D. in Germany, will speak at 2:30 in the Medical Center auditorium on "Four Major Issues in Nutrition." Enloe is an advocate of more nutrition education in the medical school curriculum.

General Hughes will lecture at 4 p.m. on vascular injuries. Members of the American Trauma Society have been invited to attend, in addition to faculty, staff and students.

Davis is one of 10 medical educators and researchers who received 1973 Awards for Distinguished Achievement in **Modern Medicine,** a leading national medical journal. He was cited for "proof of the involvement of the kidney in the production of aldosterone." A program on experimental heart failure Dr. Davis set up at the National Heart Institute in the late 40s was the beginning of his long series of studies in cardiovascular research. Currently his prime research interest is in hypertension.



E. C. A. RUNGE

Agronomy Has New Chairman

Edward C. A. Runge, formerly professor of agronomy at the University of Illinois, has been appointed professor and chairman of UMC's department of agronomy.

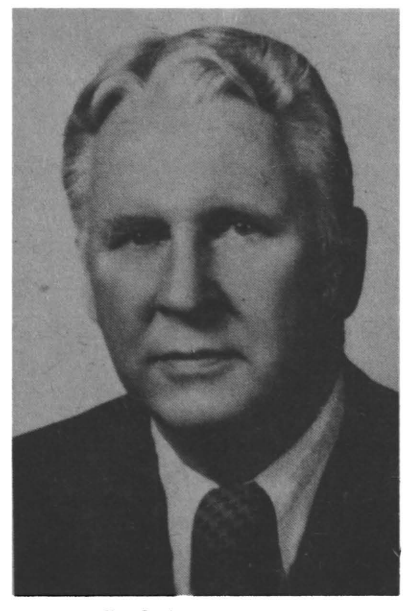
Born in Illinois, Runge received both B.S. and M.S. degrees from the University of Illinois and the Ph.D. from Iowa State University.

Formerly an assistant professor of agronomy at Iowa State, Runge was named assistant professor of agronomy at the University of Illinois in 1963, associate professor in 1968, and professor in 1973.

In 1970-71 Runge was a senior post-doctoral fellow in the department of soil science, Lincoln College, University College of Agriculture, Canterbury, New Zealand, while he was on sabbatical leave from the University of Illinois.

Runge succeeds Roger L. Mitchell as chairman of agronomy. Mitchell was named dean of the UMC Extension Division last November.

Former Professor Returns to Staff



THOMAS BASKETT

Thomas S. Baskett recently returned to his former position at UMC, representing the U.S. Bureau of Sport Fisheries and Wildlife as leader of the Missouri Cooperative Wildlife Research Unit.

Baskett served in Washington, D. C., from 1968 to July 1973, as chief of the Division of Wildlife Research, Bureau of Sport Fisheries and Wildlife in the U.S. Dept. of the Interior.

The Missouri Cooperative Wildlife Research Unit, along with the entire Fisheries and Wildlife Program, recently merged with the School of Forestry in the UMC College of Agriculture.

Baskett attained the rank of professor of zoology during a 20-year stay as leader of the Missouri Cooperative Wildlife Research Unit and assumed the title of professor of fisheries and wildlife upon his return to UMC.

Summer Field Credit Keeps Students Busy

Summertime doesn't necessarily mean "time off" for many faculty and students. Several departments offer summer field credit to students.

The School of Forestry, Fisheries and Wildlife offered students two seven-week sessions at the 7,300-acre University forest near Poplar Bluff. Ninety students participated in courses including forest inventory, forest ecology and silviculture, forest engineering and forest utilization.

The department of art history and archaeology conducted three separate excavations this season.

Dr. Saul Weinberg, accompanied by undergraduate and graduate students to do the digging and several graduate students holding Ford Foundation archaeology traineeships as field supervisors, was in Israel. He and his expedition worked on a mound site in upper Galilee, once the location of a Hellenistic trading center.

William Biers and three graduate students as field supervisors excavated an ancient theater in Greece. The digs yielded evidence of scene properties of early theaters.

Identification, classification and dating of ancient Roman mosaics was the work of David Soren, and one graduate student on a Ford Foundation traineeship. The work was carried out in Tunisia through the cooperation of the Smithsonian Institute, the American School at Rome, the University of Iowa and the Tunisian government.

As it has done for some 60 years, the geology department again operated its summer field camp at Lander, Wyo., for 50 students who received eight hours credit. The students are given field instruction which includes such aspects as mapping geological formations and the study of folds and fractures affecting rock.

American archaeology students worked on two sites — in Miami, Mo., and Nauvoo, Ill. Directed by Robert Bray, the Miami project yielded the remains of a burned Indian house, a small cemetery with skeletons and burial offerings and a number of later objects made in Europe and traded to the Indians by the French.

At the Nauvoo cite Bray and his students conducted archaeological investigations for the fourth consecutive year under a grant from the Reorganized Latter Day Saints Church.

Other American archaeological studies this summer included three surveys of reservoir and highway sites in Missouri. These are carried out to insure that no major artifact sites are destroyed by construction projects.

Archaeological excavations near Miami, Mo., followed a road construction crew's unearthing of mastodon bones. Anthropologists found a flake knife which helps prove man and mastodon were contemporaries. Man is now believed to have inhabited the area 5,000 years earlier than heretofore known.

In still another archaeological project, this time in Peru, 10,000-year-old human skeletal remains were studied for the relationship of disease and wear on teeth to diet and subsistence patterns. The very dry climate on the west coast of Peru preserves the remains in unusually good condition.

In Mexico, UMC anthropologists this summer and next will be analyzing the finds of three previous seasons' work at the Tula site. Tula was one of the three major capitals of ancient Mexico, 900-1300 A.D.

Excavations still underway in Luxembourg are examining an Iron Age coin mint which may contain some of the oldest coins minted by man.

Faculty Council Minutes

Minutes — Sept. 6

Long-term Disability Insurance Plan. Prof. Donald Holm met with the council and described the situation concerning the long-term disability plan. Following the cancellation of our previous policy the Board of Curators authorized a self insured plan. One of the conditions for the continuation of this new plan was a 70 per cent enrollment before Sept. 30. At the present time enrollment is about 61 or 62 per cent. All council members were urged to inform their constituents of this situation and to assist in increasing the enrollment.

Election of Chairmen of Standing Committees. The nominating committee, consisting of Profs. Ross, Spencer and Stoeckle, presented their nominees to the council. Nominations from the floor were also accepted. By secret ballot the following chairmen were elected:

Academic Affairs — Prof. Peden
Faculty Affairs — Prof. Bivens
Student Affairs — Prof. Adair
Academic Freedom & Grievances — Prof. Nauman
Special Projects — Prof. Miller

Prof. Utz was elected as the new representative to the Intercampus Faculty Council and will serve with Profs. Daniel and Spencer as the three representatives from this campus.

Prof. Hunvald was elected as faculty representative to attend the Board of Curators meetings.

Transfer of Credits Policy. There was considerable discussion of a four point document from the Intercampus Faculty Council concerning transfer of credit amongst the four campuses. Prof. Murdock moved and Prof. Nauman seconded that the document be recommended to the faculty for adoption. Following considerable discussion the motion passed by voice vote. (The Intercampus Faculty Council recommendations are reprinted below.)

An additional recommendation from the Executive Committee of the UMC Faculty Council was moved by Prof. Nauman and seconded by Prof. Murdock. Following discussion Prof. Denney moved and Prof. Miller seconded that the motion be tabled. Motion passed by voice vote.

Intercampus Faculty Council: Recommendations on Transfer of Credits Policy

PREFACE: The Intercampus Faculty Council recommends that all campuses of the University of Missouri adopt the transfer of credit policies listed below. We believe that the recommended action will reduce transfer problems for the University's students, reduce tensions between the University and its constituencies, and simplify record-keeping and advising, without infringing upon faculty prerogatives. It seems certain that if we do not rationalize our transfer policies, the Legislature will attempt to do so, setting a precedent for legislative involvement in the internal affairs of the University. Missouri House Bill No. 210, now in the legislative mill but more recently vetoed by Governor Bond says in part: "Any academic credit earned for course study at any campus of the University of Missouri shall be fully transferrable and acceptable **for the same academic credit** at any other campus of the University of Missouri. . . ."

RECOMMENDATIONS

1. Any course that leads to an undergraduate degree on any campus of the University of Missouri shall be accepted in transfer **toward the same degree** on each campus of the University offering said degree. Grades and honor points earned in such courses shall also transfer, and shall be included in the accumulative point averages of the transferring students.

2. Each campus shall identify in its catalogue an office on the campus which will furnish to students necessary information about degree and major requirements in force at other campuses of the University of Missouri.

3. A student who begins his work at a campus of the University of Missouri, then enrolls in and attempts twelve or more hours at an institution outside the University of Missouri, and then returns to a campus of the University of Missouri, shall be treated as any other transfer student from a campus outside the University of Missouri.

4. There shall be a faculty transfer-review board (with faculty, student, and administrative members) established on each campus by the appropriate faculty governing body to hear student appeals for relief from admissions decisions on transfer of credit, grades, and honor points; to recommend relief if deemed appropriate; and to assist in the even-handed application of the philosophy underlying the above policies.

Leaves and Sabbaticals

Thomas F. Parkinson, professor of nuclear engineering, is on sabbatical from Sept. 1 until Feb. 1, 1974. He is serving on the staff of the Constituyentes Atomic Centre, Buenos Aires, where he advises the Argentine government on the formulation of a research program for the studying the multiplying systems by pulsed neutrons.

John Holik, associate professor of rural sociology, is on sabbatical from Sept. 1 through Aug. 31, 1974. He is at the Fort Valley State College, Fort Valley, Ga.

Lyle Campbell, assistant professor of anthropology, is on leave of absence from Sept. 1 through Dec. 31 to accept a Fulbright-Hays lectureship in Helsinki, Finland.

William B. Pollard Jr., visiting professor of journalism, continued his leave of absence through August to raise funds for a chair in International Advertising.

Eugene Gratovich, associate professor of music, is on leave of absence from Aug. 27 through May 13, 1974, to serve as visiting associate professor of music at the University of California- San Diego.

John T. Typpo, professor of human nutrition, is on sabbatical from Sept. 1 through Aug. 31, 1974, to do international research on "In Utero Trace Mineral Nutrition of Human Infants." Part of his work is financed by a Fulbright Travel Award.

Donald R. Levi, associate professor of ag economics, is on leave of absence to pursue the Ph. D. in ag econ at Washington State University. His leave is from July 1 through Dec. 31.

David Loschky, associate professor of economics, will be on leave from Jan 1, 1974, through June 1, 1974. He will work in England, where he will complete research already underway.

Donald Nichols, assistant professor of accountancy, is visiting associate professor at the University of Texas-Arlington from Sept. 1 through Sept. 1, 1974. He will be on leave of absence during that time.

Robert Habenstein, professor of sociology, will be on sabbatical from Jan. 1, 1974 through Dec. 31, 1974, at the James Cook University of Townsville, Australia, to develop a department of sociology, to lecture in sociology and to conduct family research in Eastern Australia.

James W. Hamilton, associate professor of anthropology, is on sabbatical from Aug. 1 through Dec. 31 to continue analysis of data collected in Thailand and Tanzania on social organization and cultural change.

Mona E. Dingle, professor of economics, is on sabbatical from September through August, 1974. She is in Washington and New York where she is researching recent money market developments and relative effectiveness of monetary policy.

Thompson R. Fulton, professor of social work, is on sabbatical from Sept. 1 through May 31, 1974.

David Klachko, assistant professor of medicine, is on sabbatical from July 1 through Dec. 31. He is conducting research and undergoing training in medical education at UCLA.

Ralph Anderson, associate professor of dairy husbandry, is on sabbatical from Sept. 1 through June 30, 1974. He has received a Fulbright-Hays research scholarship and is conducting research in dairy physiology at the Ruakua Animal Research Station, Hamilton, New Zealand.

B. C. Tweedy, associate professor of plant pathology, is on leave of absence from Sept. 15 through Sept. 14, 1974. He is gaining research experience in industrial laboratories.

Charles H. Sherman, associate professor of music, is on leave from Sept. 1 through June 1, 1974. He is a senior Fulbright researcher at the Musicological Institute of the Johannes Gutenberg University of Mainz. He is making a systematic inventory of sources pertaining to the works of Haydn as they are preserved in German archives.

Charles R. Short, associate professor of vet physiology and pharmacology and assistant professor of medical pharmacology, is on special leave to the University of Southern California —Los Angeles from Sept. 1 through Dec. 31 to participate in a teacher training program for medical educators.

Clarence Partain, associate professor of nuclear and electrical engineering is on leave from Sept. 1 through Aug. 31, 1974, to complete his third year at Washington University School of Medicine. His M. D. degree is anticipated in June, 1975.

Gladwyn Lago, professor of electrical engineering, will be on sabbatical from August, 1974 through Dec. 1974. He will do research on the 2b signal-flow graph in the communications section of the department of electrical engineering at Imperial College, London.

Michael Lawrence, assistant professor of finance, finance extension, is on leave from Sept. 1 through Aug. 31, 1974. He is with A. T. Kearney Management Consultants.

Adrian Pauw, professor of civil engineering, will be on sabbatical from September, 1974 through August, 1975. He will do research at the Stevin Laboratory of the department of civil engineering, University of Technology, Delft, The Netherlands.

Seemingly miles of files (above) are lined up for disposal. Actually about 20 feet long, the cabinets make a startling contrast to the reader-printer and two small boxes (below) held by senior accounting clerk Billye Adams.

Graduate School Microfilms Student Records

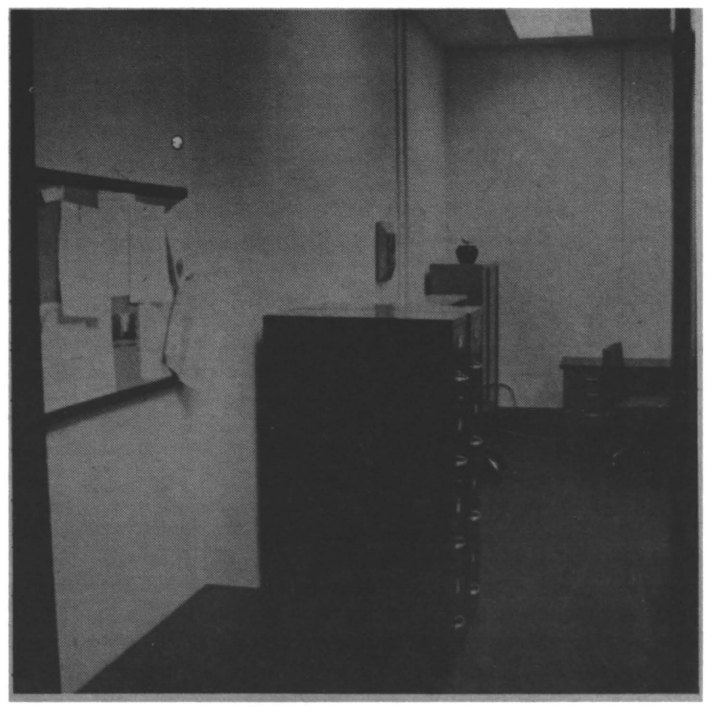
"Too cluttered, no breathing space, inefficient," said the new dean of the several offices comprising the Graduate School. So Lloyd Berry turned to U-wide Records Management and scheduled the Graduate Office's student files for microfilming.

Some time later, all the no-longer-needed files were pushed out into the hall for movers to take elsewhere. The student files had been reduced to two small cardboard boxes of film and a reader-printer—taking up less than the top of a desk.

The Graduate School is the first of the academic divisions to complete appropriate microfilming. Dean Berry and his staff are pleased with the results—more space to use more efficiently than for storing paper.

twenty feet of files reduce to one desktop

A cluttered corridor can be opened up and rearranged (right) when filing space is no longer needed. The photo at left was taken before microfilming began—the one at right, after the process was completed.



New Faculty

(Continued from Page 1)

Ruth Firestone, assistant professor of germanic and slavic languages, has recently completed her Ph.D. from the University of Colorado. Her dissertation, "Elements of Traditional Structure in the Couplet Epics of the Late Middle High German Dietrich Cycle," has been accepted for publication. From 1969-70 she was an assistant professor at Otterbein College, Ohio. She also attended the Curtis Institute of Music, where she majored in voice.

Timothy J. Materer, associate professor of English, received his M. A. and Ph. D. from Stanford. For the last six years he has taught at the University of Pennsylvania. His area of specialization is modern literature. His book on Wyndham Lewis will be published by Wayne State University Press.

Norma Jean Fisk, assistant professor of English, received her A. B. cum laude from Rice, and the M.A. and Ph.D. from the University of Texas. Her interests are in Renaissance literature, particularly in drama. She will teach courses in Renaissance drama and Shakespeare.

Catherine Parke, assistant professor of English, received her A. B. with honors from Wellesley, and the M. A. and Ph. D. from Stanford. Her dissertation was on Samuel Johnson and she will teach courses in eighteenth-century English literature.

Willian Eugene "Gene" Robertson, associate professor and extension specialist, regional and community affairs, received his Ph. D. from the University of Wisconsin-Madison this spring. He has been a lecturer on the Wisconsin-Milwaukee campus as well as a field work supervisor there. He was also a coordinator for the Madison Public Schools system. His latest position was with the U. S. Dept. of Justice, where he provided technical assistance for community groups developing alternative educational programs. He has been a youth worker for a neighborhood house, a psychiatric group worker for the county hospital, a community organizer and director for the Inner City Development Project, and television producer and host for WTM-TV, all in Milwaukee.

Franklyn Prochaska, visiting assistant professor of history, received his Ph. D. in English history from Northwestern in June. His dissertation on the life and thought of Gilbert Wakefield has been submitted for publication. He is currently researching the role of women in 19th century philanthropy and has been asked to contribute several biographical sketches to the proposed Dictionary of Modern British Radicalism.

Weldon Durham, assistant professor of speech and dramatic art, a recent Ph. D. recipient from the University ofIowa, specializes in American theater history, modern and continental theater history, theory of the theater and the application of these interests to the teaching of acting and directing. From 1970 to the present he has been an assistant professor of drama at the University of Arkansas-Fayette. There he initiated changes in the program for directors including the addition of two courses in play production for the secondary school teacher and a course in techniques of the avant-garde theater.

David L. Jorns, assistant professor of speech and dramatic art, completed his Ph. D. from UCLA. His specialty is 20th century American theater history. He has taught courses in theater history and criticism, phonetics, oral interpretation and public address. He has also instructed junior and senior high school students in beginning acting in a government-sponsored program.

Fred W. Morgan Jr. has joined the marketing department as an assistant professor. Morgan earned his Ph.D. and M.B.A. degrees at Michigan State University and holds a B.S. in industrial management from Purdue. He was an assistant professor of marketing at Miami (Ohio) University during 1972-73 and he has had a year's experience with Arthur Anderson & Co. in its Chicago office. Interested in the quantitative aspects of marketing, Morgan is teaching a graduate course, research and market development and is also the lecturer for the departmental introductory course, principles of marketing. He is developing a computer game as a teaching device to explain aspects of physical distribution.

Michael S. Proctor has joined the economics department as an assistant professor. Proctor, who holds bachelor's and master's degrees in economics from UMC, has taught a wide variety of courses in economics and industrial management at Purdue for the past three years. Previously, he had been an instructor in mathematics in Texas A & M, where he earned his doctorate in 1970. A specialist in price and investment theory, Proctor is teaching the graduate level course in price theory, as well as intermediate macroeconomics for undergraduates.

George W. Trivoli has joined the CAPA faculty as a visiting associate professor in the department of finance and in the Extension Division. On leave from the University of Akron where he has taught for the past three years, Trivoli has been invited to set up an executive development program in finance for the State of Missouri. He also teaches an undergraduate investments course. The Dept. of Commerce has expressed interest in research Trivoli privately initiated which surveys leading corporations on the impact of pollution control investments on capital budgeting. In a related project, he is developing a model as an investment guideline which considers social returns as a factor in internal profits.

Wayne L. Francis has joined the CAPA faculty as professor of political science. Francis, who holds degrees from Wabash College and Indiana University, has taught at the University of Washington for the past six years and previously at Syracuse and Indiana. Expert in legislative analysis, Francis is teaching a course in data analysis and in public organization policy this fall and will teach a course in policy analysis in the winter term.

Brent M. Parker has joined the division of cardiology at the Medical Center. Formerly associated with Washington University's medical school in St. Louis, Parker will serve as chief of clinical cardiology and professor of medicine. He will assume responsibilities for the medical students' elective program in cardiology and will direct some of the testing procedures for patients with heart ailments.

The appointment of **Jerry Johnson** has been announced by the School of Veterinary Medicine. He is an associate professor of medicine and surgery. He has taught at Auburn University and was also on the faculties of Kansas State University, Iowa State University and the University of Pennsylvania. He received a D.V.M. from the University of Georgia and an M.S. from Iowa State University.

Stephen V. Heim, assistant professor of psychology, received the Ph.D. recently from the University of Maryland, where he also took the M.A. He is interested in child and family therapy and enjoys teaching developmental and clinical psychology and in working in child assessment and individual psychotherapy.

Rick Elam has joined the CAPA faculty as an assistant professor in accountancy. Elam earned his Ph. D. degree in accountancy in August 1973 from UMC, where he had been a teaching assistant for the previous three years. In addition to teaching two undergraduate courses in data processing systems and in computer programming this fall, Elam is executive director of Assistance Clinic to Improve Organizational Needs (ACTION), a student-faculty non-profit organization offering management consulting services to local businesses.

A new associate professor of physiology, **Allan W. Jones**, received his Ph.D. from the University of Pennsylvania in 1965, has been a research fellow at the Bockus Institute there, and held a post doctoral fellowship at the same school. Another postdoc fellowship followed at Oxford. He then returned to the University of Pennsylvania as an assistant professor and later as associate director of the Bockus Institute. He has authored or co-authored more than 34 professional articles.

C. Steven Richards, a new assistant professor of psychology, received the Ph.-D. from SUNY-Stony Brook this year. He is interested in clinical work with children, para-professionals, adults in groups and school-community psychology. His research interests are in behavior modification, community psychiatry, environmental psychology and educational psychology.

Tsun S. Chow, assistant professor of computer science, received his Ph.D. in 1972 from the University of California-Berkeley. He was an assistant professor at California Polytechnic, San Luis Obispo. He is a native of Hong Kong and has resided in the U. S. for seven years.

Joseph J. Bien, associate professor of philosophy, comes to UMC from the University of Texas-Austin, where he was an assistant professor. His Ph.D. is from the University of Paris. His research interests are in the history of political philosophy and Marxism. Bien is general editor for a new series on contemporary political and social philosophy to be published by the University of Texas Press.

Donald Sievert, associate professor of philosophy, has been a faculty member at Washington University and received the Ph.D. from the University of Iowa. His interests are in the history of modern philosophy, metaphysics, and twentieth century British philosophy.

Mazzocco to Direct UMC Computers

C. J. Mazzocco has been appointed director of the Columbia campus Computer Center, established for use of UMC faculty and students for teaching and research.

The center, now Room 3 of the Mathematics Science building, will be located at the Academic Support Center on Stewart Road.

Mazzocco has been with computer services on the campus since 1968 and holds a master's degree in statistics earned at UMC in 1966. His undergraduate degree in mathematics came from DePauw University.

He and his staff will perform an academic service function for faculty and students, operating through the office of the Graduate School dean.

Gifts and Grants

SCHOOL OF MEDICINE — Faculty members of the University of Missouri-Columbia School of Medicine received grants to initiate or continue their research studies. Herbert S. Goldberg, associate dean of the School of Medicine and professor of microbiology, received $86,039 from the National Institutes of Health for general research support. Goldberg said that the funding for this grant was reduced by 63 per cent from a 1972 grant.

Also receiving an NIH grant was Karl D. Nolph, assistant professor of medicine, who received $29,504 for a continuation of a study of the adherence of blood components to coil membranes.

Several faculty members received research funding from the Public Health Service. They were: Gordon C. Sharp, professor of medicine, $19,024 for study of the biological effects of anti-thyroid antibodies; Carl H. Almond, professor of surgery, $67,025 for an integrated heart valve implant investigation; Patrick D. Harris, associate professor of physiology, $36,041 for study of microcirculatory control mechanisms and hypertension and $20,300 for research in microvascular mechanisms in hyper- and hypotension; A. Sherwood Baker, $62,048 for funding a teaching program for medical students in community health; Gwilym S. Lodwick, professor and chairman of the department of radiology, $175,000 for research into a modular computer mediated radiology system; Herbert S. Goldberg, $41,889 and a second grant of $68,673 for special improvements in occupational therapy; and John C. Schuder, professor of surgery, $21,256 for study of a stand-by automatic implanted defibrillation system. The Missouri Heart Assn. awarded Harry Stoeckle, professor of pediatrics, $10,500 for study of an electrode system for standby implanted defibrillation.

Other grants were awarded by: Ayerst Labs of New York, $4,200 to Harry H. White, professor of medicine, for studies of patients with migraine headaches; the National Cancer Institute, $97,581 to Gwilym S. Lodwick for computer analysis of tumor roentgenograms; the division of Health, Education and Welfare, $25,085 to Alice R. Major, professor of nursing, for studies of psychiatric nursing of adults and $24,095 for study of child psychiatry; and the Medical Division of CIBA—GEIGY Pharmaceuticals, Summit, N. J., $2,000 to Lynn O. Litton, professor of surgery, for a study of the effects of two drugs on osteoarthritis of the hip.

Other grants: James O. Davis, professor and chairman of physiology, $45,574 for studies of basic and applied cardiovascular physiology; Richard H. Martin, associate professor of medicine and physiology, $51,268 for "Medical Cardiology"; Alan D. Morris, assistant professor of medicine, $25,470 for studies of protective mechanisms in NZB-NZW nephritis; Beryl Ortwerth, assistant professor of ophthalmology, $21,822 for studies of the role of transfer RNA in control of protein synthesis in the lense; Ruby Potter, dean emeritus of the School of Nursing, $20,000 for financial assistance to the School of Nursing; Patrick Henry, associate professor of medicine, $24,881 for study of the role of simian virus 40 in viral oncogenesis; and Christine P. Weaver, professor of food and nutrition, $64,923 for development of four-year undergraduate programs for education of dietitians in medical dietetics and food system management.

The American Medical Assn. granted $133,083 to Fred V. Lucas, professor and chairman of pathology, for continuance of an educational program in pathology at the University of Saigon medical school. The National Institute of Arthritis and Metabolic Disease awarded Robert Wixom, professor of biochemistry, an extension of a grant of $18,331 for study of histidine biosynthesis in animal development.

NIH — The National Institutes of Health has awarded $12,028 to the University to support research in health related fields of the biomedical sciences. The program is administered by Robert Culpepper, associate dean of the Graduate School and associate director of research. Funds are allocated by the UMC Research Council to support faculty research projects which bear on problems of human health. None of the grant, however, may be used in the medical divisions, which receive separate awards from the NIH.

Abraham Eisenstark of the Division of Biological Sciences has been granted a one-year, $9,600 award from the Committee on Environmental Control of the National Institutes of Health for a study of "cellular damage by visible and near-visible light."

TURKEY RESEARCH — Lower turkey feed costs and fewer disease problems are the goals of research grants to UMC. The grants were made by the Missouri Turkey Merchandising Council from funds from the turkey check-off program. A $4,500 grant will be used to study whether producers can save on feed costs by using a lower protein level when feeding turkeys for market. J. E. Savage, poultry nutritionist, is in charge of this study by the poultry department.

A $5000 grant will be used by the School of Veterinary Medicine to study colibacillosis, a joint and bone infection which makes it difficult for turkeys to stand. Researchers will attempt to discover the factors in the environment which influence development of the disease. They will also attempt to reproduce it experimentally in the laboratory. Emmett McCune, microbiologist, is in charge. Another grant to the School of Veterinary Medicine will be used by LeRoy Olson, pathologist, to study fowl cholera.

SWINE RESEARCH — A $20,000 renewal grant was awarded for research on "Abscesses in Swine," directed by LeRoy D. Olson, associate professor of veterinary pathology. The research is on the development of abscesses, how the disease is spread under field conditions, and the development of effective means of prevention and control. L. G. Morehouse, professor of veterinary pathology, is a co-investigator in the project.

ACCOUNTANCY — Study and research assistance for students and faculty of the department of accountancy is the purpose of a $1,500 grant to the University from the Ernst & Ernst Foundation of Cleveland, Ohio. The international firm of certified public accountants made its recent grant to provide a scholarship for undergraduate or graduate students, and to students working on master's or doctoral degrees, for research expenses for travel, computer time, mailing and questionnaires. The grant also will help staff members attend professional workshops and seminars.

BIOLOGICAL SCIENCES — The Division of Biological Sciences has received four research grants totaling more than $90,000. Linda F. Chapman, assistant professor of biological sciences, received a grant of $52,689 from the national Institutes of Health, division of general medical sciences. The three-year grant is for a study of regulatory mechanisms in bacteria. A National Science Foundation two-year grant of $25,000 was awarded to W. R. Fleming, professor of biological sciences, for the study of calcium metabolism. Abraham Eisenstark, director, received a grant of $8,208 from the National Science Foundation office of international programs for a cooperative research arrangement with Polytechnical University, Mexico City. The study will deal with the effect of visible light on cells. John David, assistant professor of biological sciences, received a Research Corporation grant of $4,150 for the study of transcription of the mysosin gene.

ENGINEERING — The Missouri Construction Industry Advancement Fund of the Associated General Contractors of Missouri has awarded three $1,000 scholarships to entering freshmen majoring in civil engineering.

EPA — Curtis Weston, professor of agricultural education, and Professor Robert Beasley of agricultural engineering were awarded a grant of $18,000 to use in developing a course of study including instructional materials for a course in "Soil Erosion and Sediment Pollution Control." The award was made by the Environmental Protection Agency. The final product will involve input from six agricultural specialists from other states as well as many Missouri teachers.

Minority Hiring: Schooling Forms Group, Releases Statement on Progress to Date

An Affirmative Action Committee charged with monitoring minority hiring practices at the University of Missouri-Columbia will be appointed by Chancellor Herbert W. Schooling.

Chancellor Schooling detailed its three major functions: to monitor implementation of the UMC Affirmative Action program approved by the Federal government last spring, to analyze the program and to recommend changes, and to serve as an appeal group for persons within the UMC community who feel that they have been the object of discrimination.

In accordance with established procedure, the UMC Faculty Council is assisting the Chancellor in identifying and recommending faculty members to serve on the committee.

It is anticipated that the committee member names will be announced in two or three weeks when the process is completed.

The full text of Schooling's statement follows:

An ad hoc committee chaired by Prof. Robert Hosokawa last year surveyed policies and procedures related to affirmative action in the academic area. A committee headed by Dr. Luverne Walton has directed specific attention to the status of women in regard to employment practices.

Dr. Douglass Tate who came to UMC last September and is director of faculty development has reviewed with administrative officials his efforts during the past year to develop a more balanced staff insofar as minority groups and women are concerned.

The report by Prof. Hosokawa and his committee identified steps taken in 1972-73 to implement the campus affirmative action program, which included the employment of Dr. Tate, increased representation of women and minority groups on faculty committees, dissemination of information regarding equal educational and employment opportunities, and the initiation of recruitment procedures to insure consideration of minority and women applicants.

Employment records for 1972-73 and projected appointments for 1973-74 indicate that since the initiation of a formalized Affirmative Action plan in September, 1972, nine minority group members and 32 women have been added to the faculty. This has occurred despite a rather sharp reduction both years in the number of vacancies to be filled.

In addition to the recruitment of more women and minority group members, an upgrading of positions held was undertaken. For example, two deanships have been established — Home Economics and Nursing — both filled by women. Four women assistant professors have been recruited by the College of Arts and Science; two in English and one each in History and Speech. Representatives of minority groups now fill important administrative positions, and among those being recruited for 1973-74 are an associate professor in Regional and Community Affairs and two assistant professors in Psychiatry.

The Hosokawa Committee Report indicated that in 1972-73 only 3 per cent of the total faculty with the rank of instructor or above were representatives of minority groups. The corresponding percentage for women was 17.8. A decline in the number of total staff plus recruitment efforts for 1973-74 will mean improved percentages in both of these categories.

The committee had projected a 1973-74 recruitment goal of 23 additional faculty members from minority groups and at least 21 women. These goals were based upon the expection there would be 96 positions to be filled as a result of resignations, retirements, and new positions. Actually only 75 such positions materialized — a reduction in excess of 20 per cent of the expected number. On this basis the committee projections would be some 18 minority members and 16 women.

While a few positions remain to be filled it now appears that the recruitment of women will exceed expectations but far fewer minority members will be recruited than had been projected.

A report prepared by Dr. Tate, shows that 24 of the 75 persons hired as new faculty members for the 1973-74 academic year qualify as minorities under affirmative action guidelines. They include 21 white females, one black female, one black male and one Spanish American male. The report did not include hirings in administrative and support areas.

We are pleased with the number of women recruited, but UMC must do a better job in recruiting black faculty members and other minorities if we are to achieve the goal of a multi-racial faculty of qualified men and women.

Our established procedures are sound, but we must shore up their implementation. I hope the Affirmative Action Committee will serve as the needed catalyst.

Under the UMC hiring guidelines, department chairman work with Dr. Tate in advertising faculty vacancies. Job descriptions are checked to be sure that their wording encourages minority applications. Minority candidates are often referred from a nationwide candidate pool by Dr. Tate to the person in charge of the recruitment effort.

In many cases job offers were made to qualified blacks who chose not to accept for a variety of reasons.

Of the 827 applications received for advertised faculty openings at UMC, 26 applications from blacks were reviewed along with 101 from white females. A fundamental problem is the small number of applications we receive from minority persons. We are going to make every effort to find these people and to assure them equal access to faculty positions.

The campus is emphasizing the recruitment and retention of promising graduate students from among minority persons as an effective way to increase the pool of persons qualified for employment in academic, administrative and support positions.

I strongly endorse Dr. Tate's efforts to identify qualified individuals from minority groups for consideration for employment at UMC and have the expectation that Dr. Tate's hard work will pay off.

Statistical Break-down of Minority Hiring

School or College	No. of positions filled	No. of minority applications for review	No. of female-cau applications	No. of male-cau applications	No. of other applications	No. of minority hired	No. of female-cau hired
Agriculture	6	3	11	47	1	0	1
Arts & Science	17	8	47	553	0	0	6
CAPA	7	1	4	17	0	0	0
Education	2	2	0	5	0	0	0
Engineering	1	—	—	1	—	—	—
Home Economics	2	0	6	2	0	0	1
Journalism	2	0	1	1	0	0	1
Law	0	0	0	0	0	0	0
Library Science	0	0	0	0	0	0	0
Medicine	30	8	17	57	5	2	7
Nursing	5	1	12	0	0	0	5
Social & Comm	1	3	0	4	0	1	0
Vet Med	2	0	3	7	0	0	0
TOTAL	75	26	101	694	6	3	21

Talk to Mark Copernican Anniversary

Copernicus, the father of modern science, and the computer, one of the most important and influential tools of modern science, will be discussed by Prof. John M. Hammersley, Trinity College, Oxford University, England. Dr. Hammersley will lecture on "Technology of Thought" at 4 p.m., Oct. 11, in the Memorial Union Auditorium.

The lecture is one of many events scheduled during 1973 the year of the 500th anniversary of the birth of the Polish astronomer Copernicus. The National Academy of Science has invited numerous eminent scientists, including Hammersley, to participate in the observance. The English professor has already presented his lecture in London and at Berkeley, Calif.

Dr. Hammersley's visit to the United States is supported by the Society for Industrial and Applied Mathematics and the Institute of Mathematical Statistics. The UMC department of statistics is sponsoring his lecture here.

UM-St. Louis Celebrates Tenth Birthday

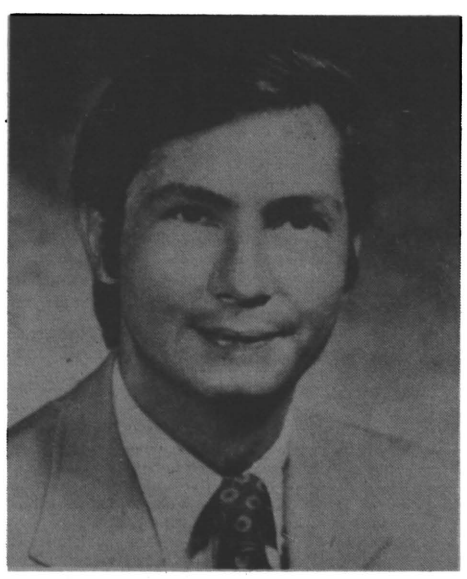
The University of Missouri-St. Louis will celebrate its tenth anniversary with a two-day birthday party, Saturday and Sunday, Oct. 6 and 7. The public is cordially invited to the celebration.

Kicking off the weekend of events on Saturday will be a carnival to run from noon until midnight. Sponsored by UMSL student organizations, the carnival will feature a wide variety of booths, rides for all ages, and games of skill.

Highlighting the celebration will be the dedication of the campus at 1:30 p.m. on Sunday. Participating in the brief ceremony will be University of Missouri President C. Brice Ratchford; Dr. Joseph R. Hartley, the new UMSL chancellor; members of the University of Missouri Board of Curators; and student government and alumni leaders.

There will be free birthday cake. Sandwiches and soft drinks will be available for sale, but there are also plenty of spots on the 128-acre campus to spread a picnic lunch.

All events, except the carnival rides, are free.



GEORGE CAMP

State Official to Discuss Public's Role in Corrections

"The Public's Role in Corrections" will be the topic of George M. Camp, director of the state Department of Corrections, when he addresses the annual meeting of the Missouri Assn. for Social Welfare Sept. 27.

The 7:30 address, open to the public, will follow a 6:30 p.m. dinner meeting of the Association in the large ballroom of the Memorial Union.

Camp, a native of New York City, was appointed to his post by Gov. Christopher Bond. Camp received the M.A. in criminology and corrections from Florida State and the Ph.D. in sociology from Yale.

He was classification and parole officer in the Federal Bureau of Prisons, Terre Haute, Ind., and Marion, Ill., as well as program analyst for the Bureau's Washington office. At the Marion facility he held the posts of executive assistant to the warden and associate warden.

Prior to coming to Missouri, Camp was assistant commissioner of the New York City Dept. of Corrections for two years.

The public may either attend the dinner ($3, reservations to Paul Mengel, assistant professor of social work, 708 Clark, by Sept. 24) or Camp's address without charge.

Calendar of Events

LECTURERS, SPEAKERS

Sept. 24: Lectures in Language and Literature: Herbert Stappenbeck, assistant professor of English, to speak on "Form and Idea in Jack London's 'Call of the Wild' and 'White Fang'," 8 p.m., small ballroom, Memorial Union.

Sept. 25: President C. Brice Ratchford to speak at a dinner meeting of Phi Delta Kappa, professional fraternity in education, 6:30 p.m., large ballroom of the Memorial Union. His topic will be "Perspectives on the Missouri System of Higher Education." Reservations by Sept. 24 to John Parker, 882-7547.

Sept. 27: George M. Camp, director of the Mo. Dept. of Corrections, to speak on "The Public's Role in Corrections," luncheon meeting of the School of Social Work and the Mo. Assn. of Social Welfare, Memorial Union. The luncheon is open to interested University persons and the public. Reservations to Paul Mengel, 882-6262, Sept. 25.

CONCERTS, PLAYS

Sept. 25: Stephens College Chamber Music Series: Stephens music faculty to perform, 8:15 p.m., Reception Room, Senior Hall. Admission, $1.50.

Sept. 28: Stephens College Playhouse Series: "The Untamed Land," a portrait of the opening and settling of the West, featuring the American Dance Theater and Jimmie Rogers, country-western singing star. 8:15 p.m., Stephens College Playhouse. Tickets, $4, $3, $2.50.

FILMS, EXHIBITS

To Oct. 1: Joe Falsetti, professor of design, to show sculpture reliefs at the Stanley Hall Gallery.

To Oct. 5: Columbia Art League Exhibit: paintings and drawings by Elizabeth Newcomer, Katy Bear, Evelyn Jorgensen and Maryann Wiecek, at the Art League, 12 North 10th St.

To Oct. 26: Annual Juried Crafts Show at the Fine Arts Gallery sponsored by the art department and the Mo. Crafts Council. Exhibited crafts in jewelry, weaving and ceramics are selected from works of craftsmen in Missouri and surrounding areas.

Sept. 19: Student Activities Film: "The Grasshopper," 5:30 & 8:30 p.m., Jesse Auditorium.

Sept. 21: Astronomy Film Series: "Radio Waves" (ionospheric effects), 7 p.m., 120 Physics. Public telescope viewing to follow at 8 p.m., 505 Physics, if weather and clouds permit.

Sept. 21: Student Activities Film: "Johnny Got His Gun," 75 cents, 8 p.m., Jesse Auditorium.

Sept. 23: Student Activities Film: "Colossus — The Forbin Project," 5:30 & 8:30 p.m., Jesse Auditorium.

Sept. 26: Student Activities Film: "Soldier Blue," 5:30 & 8:30 p.m., Jesse Auditorium.

Sept. 27: Student Activities exhibit and sale of original graphic art from Ferdinand Roten Galleries, Inc., 11 a.m. — 8 p.m.; 208, 209, 210 Brady Commons.

Sept. 28: Astronomy Film Series: "Solar Radiation and Solar Activity" (earth radiation balance and the active sun), 7 p.m., 120 Physics. Public telescope viewing to follow at 8 p.m., 505 Physics, if weather and clouds permit.

CONFERENCES, SHORT COURSES

Sept. 24-Oct. 12: Computer Center Short Course: SSPS (Statistical Package for the Social Sciences) 3:40-4:30 p.m., Monday through Thursday, 223 GCB. Free to faculty, staff and graduate students. To enroll, call the receptionist, 882-6382.

Sept. 24-Oct. 12: Computer Center Short Course: PL-1 Programming: 3:40-4:30 p.m., Monday through Friday, 128 GCB. Free to faculty, staff and graduate students. To enroll, call the receptionist, 882-6382.

DEADLINES, OTHER EVENTS

Sept. 23: Reception sponsored by the University of Missouri Press at the Fine Arts Gallery for the American Assn. of University Presses Book Show. Books shown include two from UMC faculty: Boyd Carter and Helmut Lehmann-Haupt.

Sept. 25: International Cooking Class: Ghana, 7 p.m., 203 Gwynn.

Disability Insurance Deadline Approaching

The Sept. 30 deadline for enrollment in the University's Disability Insurance plan is rapidly approaching. To date 64 per cent of employes on all campuses have enrolled; required enrollment is 70 per cent.

If this number is not attained, the University reserves the right to terminate the plan upon six months notice.

Only about 625 more staff members need to enroll to reach the 70 per cent quota.

Meetings on all four campuses have been held and letters and program descriptions sent to all employes in an effort to inform them of the necessity for enrollment.

For those still undecided, campus or U-wide Staff Benefits will be glad to answer questions or to explain further either by phone or in person. Campus Staff Benefits may be contacted at 882-3683. U-wide Staff Benefits is at 882-4850.

Guy Entsminger Begins Campus Alumni Duties

Recently appointed UMC vice chancellor Guy "Bus" Entsminger met with alumni leaders during the weekend to discuss needs of the campus and ways in which alumni may aid UMC. Meetings on the campus involved alumni board members from across the country, county chairmen and chapter presidents.

Entsminger's presentations to the prominent alumni were among his initial duties as vice chancellor for alumni relations and development. He returns to the Columbia campus after serving for six years as University-wide president for development. During his U-wide tenure Entsminger established professional development staffs on each of the campuses and initiated uniform fund raising procedures for the total university. He will continue to guide the work of a University-wide President's Development Council.

The addition of Entsminger to the UMC administrative staff will not cause additional burden to the campus budget, according to Chancellor Schooling. Funds that had been set aside in the University-wide budget for salaries and operation of the development office have been transferred to UMC.

Faculty BULLETIN

Vol. 9, No. 2 — September 19, 1973

Inside:

Result of the Faculty Bulletin Readership Survey

See Page 3.

Folksong Scholar to Perform Here

Folksongs of the United States and Great Britain will be heard in a free concert presented by Joseph Hickerson Friday, Sept. 28 at 8:15 p.m. in the Fine Arts Recital Hall.

An ethnomusicologist and folksong authority, Hickerson is a staff member of the Archive of Folksong at the Library of Congress. His UMC appearance is sponsored by the department of music and the Honors College.

An accomplished singer and guitarist, he is chairman of the committee on archiving of the American Folklore Society and bibliographer for the Society for Ethnomusicology. He is a reviewer of folk concerts for the **Washington Star** and is the author of many scholarly articles on archiving and folksong. One of his research interests is the survival of English and Scottish ballads in the United States.

Scholarship Information Revealed for Student Advisers

Information and deadlines for two types of high support student scholarship have been released recently.

UMC is among schools participating in the four-year Army ROTC college scholarships, according to Col. Timothy H. Donovan, professor of military science.

The scholarships pay full tuition, funds for textbooks and laboratory fees, and monthly subsistance allowances of $100. Upon graduation, the scholarship winner is commissioned a second lieutenant and is expected to serve on active duty for four years.

Donovan explains that while funds for student programs such as "work-study" are decreasing, the ROTC scholarships are a way for students to continue in school. One-, two- and three-year scholarships are available for students already attending the University and the scholarships may also be used by graduate students.

Any student who wishes to apply for a ROTC scholarship must already be enrolled in the ROTC program on campus. However, there are procedures for handling almost any student situation, so that, according to Donovan, the interested student should discuss his or her requirements with Col. Donovan.

Applications for scholarships for the next academic year will be accepted through Dec. 31 at Donovan's office or through Army ROTC Scholarships, PO Box 12703, Philadelphia, Pa. 19134. Scholars are selected on the basis of American College Testing Program or Scholarship Aptitude Test scores, high school and-or college records, participation in athletic and other extra-curricular activities, a physical examination, and interviews with a board of Army officers.

Prospective graduate students have until Oct. 24 to file for one of the 590 Fulbright-Hays grants for graduate study abroad.

Edmund A. Ford, 116 Jesse Hall, and Melvin G. Blase, 101 Gentry Hall, have application forms and further information students may desire.

Full grants provide round-trip transportation, tuition and maintenance and are available to 33 countries. Fulbright-Hays travel grants are offered to 12 countries, and private donor awards to 33 countries.

Candidates must be citizens, hold a bachelor's degree or its equivalent, have language ability commensurate with demands of the proposed study projects, and good health. Preference is given to applicants between 20 and 35 years of age.

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 3 October 17, 1973

UMC Welcomes New Faculty

Faculty Bulletin welcomes new faculty to the campus. Department heads are encouraged to forward brief information on new faculty to the address listed in the publication box on Page 2. Due to space limitations we can feature only those who have the rank of assistant professor or higher.

John H. Reeder, assistant professor of mathematics, comes to UMC from the University of Victoria where he was a visiting scholar working on the kinetic theory of fluids. He received his Ph. D. degree from Northwestern University in 1972 specializing in Wienor-Hopf operators, complete biorthogonal systems, and bases. He has had teaching experience as a visiting assistant professor at Oregon State University and industrial experience at the Johns Hopkins Applied Physics Laboratory.

Thomas A. Brawner, a microbiologist whose research interest is in the study of viruses, has joined the school of medicine faculty this fall. He received his Ph. D. at the University of Texas-Austin and spent two years in post-doctoral research on the biochemistry and genetics of Saint Louis virus, a strain of encephalitis virus. His latter work was at the University of Texas Health Science Center at San Antonio.

The assistant professor is teaching second year medical students and graduate students in microbiology as well as continuing his research on the Saint Louis virus.

Letter Seeks Resolution of Movie Conflicts

An effort is being made to work out problems which arose between the Mo. Students Assn. and the Honors College in the scheduling of the both groups' film series.

The action was initiated by Owen Koeppe, provost for academic affairs, in a recent letter to Paul Woerner, Mo. Students Assn. president; Paul Nelson professor of speech and director of the Honors College; and Stephen Archer, professor of speech and dramatic art and chairman of the Committee on Lectures and Cultural Events.

Koeppe indicated that the Honors College would no longer be involved in showing films other than those ordered for film courses. He said that $1,500 of UMC funds had been committed for film rental for the second semester and that future funds for this purpose would be resolved between his office and the Dean of the College of Arts and Science.

The Committee on Lectures and Cultural Events is being asked to assume the responsibility for certain film series previously administered by the Honors College. The Committee is being asked to limit films shown for an admission fee to the present arrangement of a Friday-Saturday night series (the same film to be shown on those two evenings).

Two other film series shown without charge may be administered by the Committee.

Selections of films to be shown under Committee auspices are to be made after MSA has made its selections and are not to duplicate MSA films during the same semester. Thus, MSA was advised to make its selections within the first six weeks of the previous semester.

Koeppe indicated that the Committee should make very limited use of Jesse Auditorium for its films and that Jesse Auditorium should not be scheduled for film use by the Committee over student objections.

Koeppe also called for the Committee and MSA to work out a formal liason procedure to coordinate film showings sponsored by the two groups.

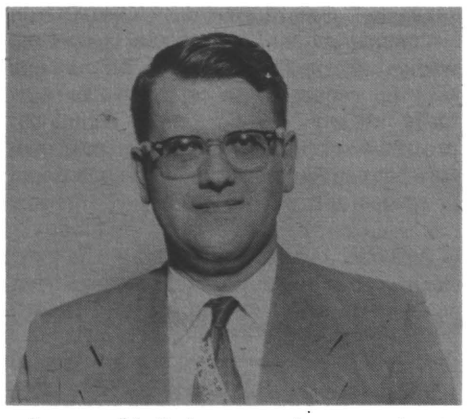
The objective is to enable the campus to offer the best possible selection of films, said Koeppe.

Hearing Set for By-Laws Changes

The Faculty Affairs Committee of the Faculty Council will hold an open hearing on the proposed changes in the Faculty By-Laws Thursday, Oct. 25 from 3:40 to 6 p.m. in the Recital Hall of the Fine Arts Building.

The proposed changes were printed in the July 25 issue of the **Faculty Bulletin**. For faculty who did not receive a copy or have mislaid it, Xerox copies are available in the Office of Public Information, 223 Jesse Hall, 882-6211.

Gold Medal To Honor UMC Scientist



James McQuigg, professor of atmospheric science, will receive the Gold Medal award of the U.S. Dept. of Commerce in ceremonies at 3 p.m. Oct. 25 in Washington.

The medal is the highest honor of the department. It is awarded in recognition of McQuigg's accomplishments in research.

McQuigg has a dual appointment with the Dept. of Commerce and UMC, and is involved in research in climatic control and forecasting.

He holds master of science and doctor of philosophy degrees which he obtained at UMC in 1960 and 1964.

Ardath Emmons, university vice president for research, will attend the ceremonies at which the medal will be presented.

Student Funds To Remodel Health, Recreation Facilities

Students, faculty and staff will be the beneficiaries of a $290,000 remodeling project on Brewer Fieldhouse and Rothwell Gym. The funds have been allocated by students from student capital improvement fees that previously were tapped to provide lighted tennis courts, build the popular recreation area off Porter Street between Virginia and College avenues, and to install a crafts center at the Brady Commons building. Some $10,000 of institutional funds will also be used.

Bids are being sought by 2:15 p.m. Nov. 1 on the remodeling project.

The remodeling will include excavating a portion of Brewer Field House to build six handball courts, installing a concrete ceiling above them that will become the floor of a basketball court, and provide showers and a locker room for women in Rothwell Gymnasium.

A second phase of the bid will include installing a synthetic surface over the remaining area of Brewer Field House, both the track and the infield, to make it available for tennis, badminton, basketball and other sports.

The refurbished structure will be used for physical education classes, intramural sports, and for free play by students, faculty and staff. Future allocation of use, as well as hours the facility will be available, will be determined by a student-faculty committee on policy.

If acceptable bids are obtained, it is expected that the remodeling project can be completed in seven to eight months after the start.

Education Consortium Here 'Brainstorms' Cooperation

In a day-long session charged with all the mental and emotional energy of a "brainstorm" the Mid-Missouri Association of Colleges and Universities (MMACU) recently explored the possibilities of its being.

MMACU, though in existence since 1964 as an educational consortium, hadn't really grasped all the possibilities of its existence, its member institutions felt.

So representatives of UMC and Lincoln University; and Stephens, Columbia, Westminster, William Woods and Central Methodist Colleges met Sept. 20 to discuss the potential of this mid-Missouri educational consortium and strategies for achievement.

According to Douglas Ensminger, UMC professor of rural sociology and president of MMACU, some areas of cooperation among member schools have been in effect for several years. Librarians have agreed to extend complete library privileges to MMACU students and faculty on presentation of ID cards at member libraries.

The consortium also holds membership in the Institute of European Studies, a group of U.S. and European higher education institutions which exchange students. MMACU membership saves graduate students studying at member European schools large amounts in fees, and arranges details of admission, fee payment and travel for those students.

At present MMACU has an arrangement for full time students to take courses at other MMACU schools with appropriate administrative and faculty advisor approval.

And the consortium operates an extensive placement effort for student teachers of member schools. There is both cooperative scheduling and supervision of student teachers in the St. Louis, Kansas City and central Missouri area.

But more could be done, it was felt. Thus, the seminar to explore other possibilities was scheduled.

To that meeting, each institution sent its president or chancellor, deans or academic provosts, student deans, business managers, MMACU liaison officers, graduate deans (in the case of UMC and Lincoln), and three or more faculty members.

Leading the session in Columbia was Dr.

(Continued on Page 6)

Graduate School and Research Notes

NSF DEADLINES — The National Science Foundation has changed the deadline for applications to the Student Oriented Education Programs to Dec. 7, since the distribution of guidelines for these programs has been delayed. The programs in this category are the Undergraduate Research Participation, Student-Science, and Student-Originated Studies. Mrs. McQuary will have guidelines as soon as they are available from NSF.

YOUTH GRANTS IN THE HUMANITIES — The next deadline for Youth Grants in the Humanities is Nov. 15. This program supports humanities projects developed and conducted by students and other young people which clearly relate to the humanities, have a specific purpose, carefully designed scope, and identifiable end product. Students and other young persons may submit proposals through their organization or directly to the National Endowment for the Humanities. Individual project awards are normally under $2,000, while grants for new projects may range up to $10,000. The Endowment requests that a preliminary proposal be submitted for informal review well in advance of the submission of a formal application. For further information, write: Youth Grants in the Humanities, National Endowment for the Humanities, 806 15th St., N. W., Washington, D.C. 20506. (202) 382-8301.

ACLS ASIAN RESEARCH — The American Council of Learned Societies has set Dec. 3 as the deadline for applications in two grants programs of Asian research. These are (1) grants for research on Chinese civilization, intended for research on Chinese civilization prior to 1910 and (2) grants for research on South Asia, for scholarly research relating to Bangladesh, Ceylon, India, Nepal, and Pakistan. Awards rarely exceed $10,000 and may range from short periods of time to at least six months of uninterrupted research. For applications write: Office of Fellowships and Grants, ACLS, 345 East 46th St., New York, N. Y. 10017.

IREX PROGRAMS — Supervised jointly by the American Council of Learned Societies and the Social Science Research Council, the International Research and Exchanges Board (IREX) administers scholarly and academic exchange programs with Bulgaria, Czechoslovakia, Hungary, Poland, Romania, the U.S.S.R., and Yugoslavia. Deadlines for these exchange programs range from Nov. to Dec. 31. For more information call Mrs. McQuary or write: International Research and Exchanges Board, 110 East 59th St., New York, N. Y. 10022.

DOS AND USIA EXAMS — The Department of State (DOS) and the U. S. Information Agency (USIA) will conduct written entrance exams in 240 cities Dec. 8 as the first step in the selection of new Foreign Service Officers for service abroad. Emphasis in this year's selection will be placed on candidates with experience in economic-commercial and administrative work. Special attention is being given to the recruitment of women and members of minority groups. Exams will test aptitude for the positions of Administrative Officers, Information-Cultural Officers, Economic-Commercial Officers, and Political Officers. Salaries range from $9,520 to $13,329. Write to: Board of Examiners for the Foreign Service, Room 7113, Dept. of State, SA-15, Washington, D. C. 20520 to obtain application forms and a list of cities where exams will be held. Deadline for applications is Oct. 31.

NEW NIE GUIDELINES — New guidelines for research grants in education are expected soon from the National Institute of Education. This year there will be no differentiation between small grants, research grants and research in special areas, and research will not be limited to special areas designated last year. Requests for prospectuses should be received by November, with final proposals being due Jan. 1, 1974. Request new guidelines from: Office of Public Information, National Institute of Education, Code 600, Washington, D. C. 20202.

ADVANCED ENERGY RESEARCH AND TECHNOLOGY — A new Div. of Advanced Energy Research and Technology to focus attention on energy research has been established within the National Science Foundation. The new Division will be responsible for various types of energy research which were formerly administered by the Foundation's Div. of Advanced Technology Applications, namely, solar energy, geothermal energy, energy conversion, energy resources and energy and fuel transportation. The total energy budget for this program is expected to be about $25 million for FY 1974. Present emphasis is being placed on research on subsystems and systems for the application of solar energy to the heating and cooling of buildings. The deadline for submission of applications to the solar energy program is Nov. 28. Mrs. McQuary has guidelines.

WATER RESOURCES RESEARCH — The Office of Water Resources, Dept. of the Interior, has set Jan. 11 as the deadline for Title II applications. In fiscal 1975 the OWRR will emphasize support of programs in the following priority categories: (1) analysis of planning, managerial, financial, operating and regulatory policies of water resources institutions, (2) water resources policy and political institutions; (3) hydrologic systems analysis; (4) urban and metropolitan water resources problems; (5) ecologic aspects and environmental considerations of water resources planning and management; (6) evaluation of economic importance of various uses of water, cost allocation, cost sharing, pricing and repayment; (7) analysis and evaluation of water resources projects; (8) ground-water supply, management, and protection; (9) protection and rehabilitation of estuarine resources; (10) thermal loading problems; (11) water demand considerations. For further information contact Dr. George Smith, Director of the U-wide Water Resources Research Center or write: Director, Office of Water Resources Research, U. S. Dept. of the Interior, Washington, D.C. 20240.

GRANTS TO FILMMAKERS — The American Filmmakers Institute awards grants twice a year to filmmakers on a competitive basis. The next application deadline is Nov. 15 for February awards. Awards usually range from $500 to $10,000. Projects may be produced in 16mm or 35mm. Selection will be made on the basis of applicant's creativity, technical competence and the originality of the proposed project. For further information write: The American Film Institute, 501 Doheny Road, Beverly Hills, California 90210.

Some other deadlines

NEH Institutional Planning Grants—Nov. 1; NEH Research Grants—Nov. 19; NSF Graduate Fellowships—Nov. 26; NSF Regional Math Conferences—Dec. 1; NSF Engineering Research Initiation Grants—Dec. 1; NSF NATO Postdoctoral Fellowships—Oct. 29; Research, Demonstration and Development Projects Grants in Aging—Jan. 1.

(For further information on above programs call Mrs. Carol McQuary, 882, 6311).

Administration, Public Affairs Projects Include Community Service

The College of Administration and Public Affairs is involved in several projects this fall, two of which are community-service oriented.

Volunteer consultation to nearby businesses, government and college organizations goes into its third year.

The Assistance Clinic to Improve Organizational Needs (ACTION) is beginning to schedule projects to aid infant and distressed business firms and others, according to Rick Elam, executive director and CAPA assistant professor.

ACTION is a non-profit organization offering management consulting services to regional businesses, local government offices and college organizations within a 75-mile radius of Columbia. Volunteer business students, working under close faculty supervision, can provide assistance to individual firms in accounting and auditing, financial analysis and planning, market research and personnel organization.

Consulting services are provided without charge.Clients with ability to pay may be requested to reimburse or partially defray expenses for completed project work. Students are not paid and faculty members do not receive additional compensation.

ACTION is promoted through service organizations meetings, mailings and word-of-mouth advertising. Elam reports that 15 projects have been completed in the last two years, including projects in product line profitability, inventory control, purchasing and advertising campaigns.

Faculty members are also teaching business fundamentals to black entrepreneurs in Columbia.

In support of Job Center, Inc., CAPA is sponsoring 16 weekly special sessions during the Adult Education Program at Hickman High School.

Job Center is a community non-profit organization promoting employer-employe cooperation in both black and white business sectors.

The Job Center Business Training Program consists of lectures by volunteer CAPA faculty and discussion periods with approximately 20 of the 34 identified black business owners in Columbia.

The program provides practical information and training in accounting procedures, merchandise pricing, purchase scheduling and inventory control, measurement of employe performance and organizational management, advertising and promotion, profit analysis and financial danger signals.

Participation in the program will be a prerequisite for black entrepreneurs to receive assistance from the Progressive Business League, an adjunct of Job Center, in negotiating bank loans.

CAPA's student-faculty management consulting organization, ACTION, is prepared to offer assistance to individual owners upon their request. Faculty lecturers provide help with particular business problems at the weekly sessions.

Liaison for CAPA is handled by Dr. Raymond W. Lansford, director of educational services, who works closely in scheduling topics with Bill Brown, Job Center executive coordinator.

White House Fellowships: Faculty Encouraged to Apply

Owen J. Koeppe, provost for academic affairs, called attention today to the approaching deadline for applications to become White House Fellows during the next school year.

Since 1964, between 15 and 20 Fellows have been elected from all sectors of national life to accept assignments as assistants to cabinet officers of White House staff members where they participate in educational activities in governmental life.

The Fellows receive salaries of up to $28,692. Applicants must be citizens between 23 and 36 years of age "who give promise of providing the kind of leadership that will influence the shape of our society for many years to come."

Fellows are selected by the Commission on White House Fellows. All applicants are screened on the basis of such factors as achievement, intellectual ability, evidence of leadership, special talents and interest in the affairs of the community, state and nation. Successful applicants are designated as "semi finalists." Panels in 11 geographic regions recommend "regional finalists" who are interviewed in the selection of some 30 national finalists, from which the finalists are selected by the President on recommendation of the Commission after its interviews.

Chancellor Herbert W. Schooling was asked to bring attention of this "unusual opportunity" to the UMC family in a letter from one of the commissioners.

Dr. Milton Friedman, commissioner and professor of economics at the University of Chicago, wrote that he had been disturbed by the small number who have come from university faculties and administrative staffs. "I know that many more of our colleagues would both qualify for and benefit from the program," he said.

Applications must be postmarked by Nov. 15. The time-table calls for notification of semi-finalists about Feb. 1, with regional finalists interviewed March 18-22; national finalists notified about March 30 and interviewed May 17-19, and new Fellows announced on May 20.

Dr. Koeppe's office has information booklets and application forms.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 116 Jeese, or to the Office of Public information, 223 Jesse, 882-6211.

Editorial Advisory Committee
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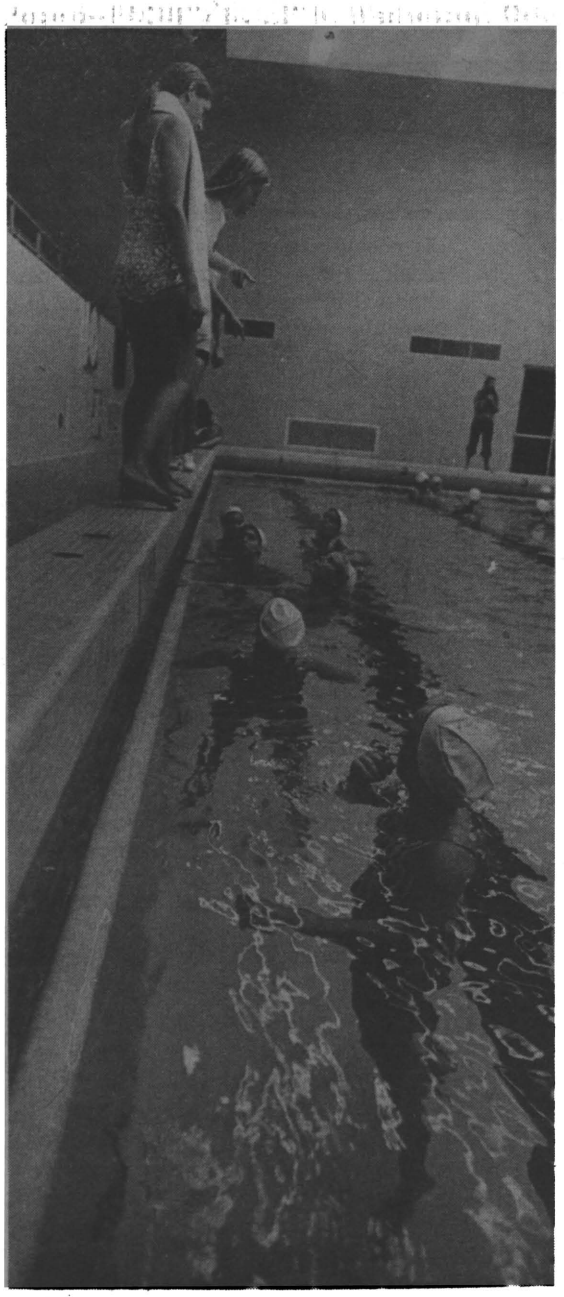
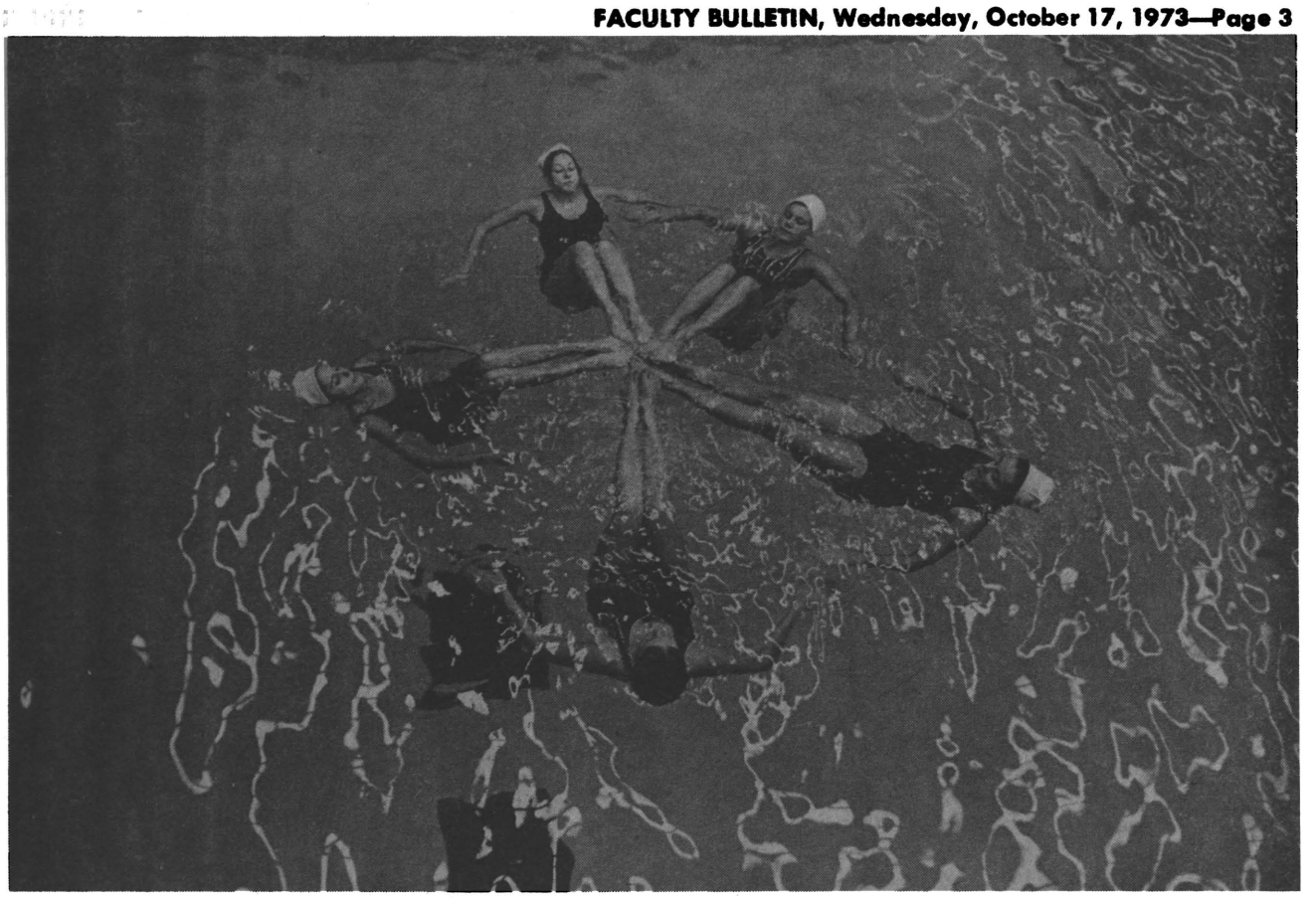
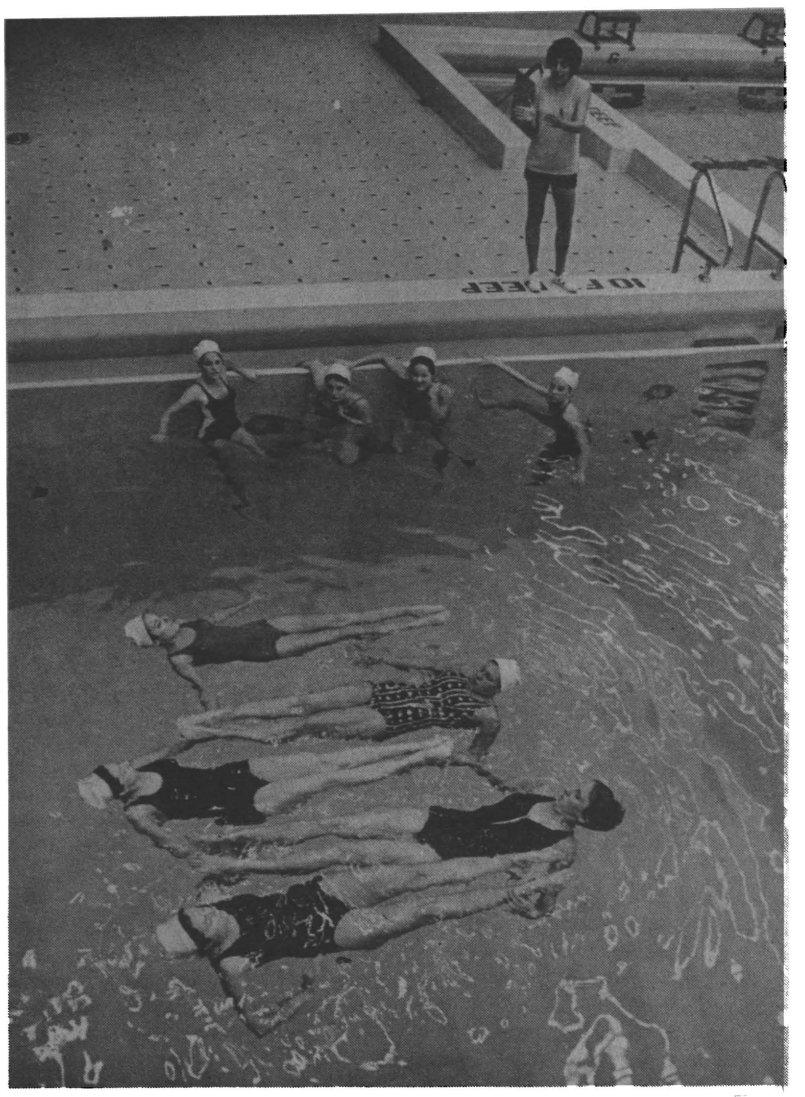




Left: A Mo-Maids officer instructs a small group of her sisters from poolside. Above: A group practices the "wagon wheel" effect. With legs spread, the effect becomes that of a star. Right: Health and physical education instructor Renata Maiorino, faculty sponsor for the Club, stands at poolside and shows with her hands what she wants the water formation to do. The formation is an accordion effect, which becomes more obvious when the individuals push back and forth with hands against neighbor's ankles.



Mo-Maids Practice:

Fun for Finny Females

These pretty sirens of the deep present an annual precision swim exhibition for three days in early March. Even now they are preparing their show, which will include as many as 10 routines with a big finale, all built around a single theme. From try-outs early in the year some 30 girls are chosen for the club with about 20 carrying over from the previous year. Meeting one night a week, Mo-Maids do basic warm-ups, practice synchronized strokes and a variety of patterns to be incorporated into the program.

As the time draws near for the annual water show, the theme is coordinated with appropriate music, lighting effects and other routines, which include poolside costuming and dance steps. The event, always sold out, is a popular attraction for parents' weekend at Greek houses and for Columbia families as well as the student population.

General Faculty Meeting Minutes

Oct. 2

The University Faculty met at 3:40 p.m., Oct. 2, in Jesse Auditorium with Chancellor Schooling presiding. Estimated attendance: 190.

The minutes of May 14, 1973, were approved as published.

On behalf of the Faculty Council, Chairman Daniel moved, properly seconded, the following "Recommendations on Transfer of Credit Policy."

Preface: The Intercampus Faculty Council recommends that all campuses of the University of Missouri adopt the transfer of credit policies listed below. We believe that the recommended action will reduce transfer problems for the University's students, reduce tensions between the University and its constituencies, and simplify record-keeping and advising, without infringing upon faculty prerogatives. It seems certain that if we do not rationalize our transfer policies, the Legislature will attempt to do so, setting a precedent for legislative involvement in the internal affairs of the University. Missouri House Bill No. 210, now in the legislative mill (but more recently vetoed by Governor Bond) says in part: "Any academic credit earned for course study at any campus of the University of Missouri shall be fully transferrable and acceptable for the same academic credit at any other campus of the University of Missouri. . . ."

Recommendations

1. Any course that leads to an undergraduate degree on any campus of the University of Missouri shall be accepted in transfer **toward the same degree** on each campus of the University offering said degree. Grades and honor points earned in such courses shall also transfer, and shall be included in the accumulative point averages of the transferring students.

2. Each campus shall identify in its catalogue an office on the campus which will furnish to students necessary information about degree and major requirements in force at other campuses of the University of Missouri.

3. A student who begins his work at a campus of the University of Missouri, then enrolls in and attempts twelve or more hours at an institution outside the University of Missouri, and then returns to a campus of the University of Missouri shall be treated as any other transfer student from a campus outside the University of Missouri.

4. There shall be a faculty transfer-review board (with faculty, student and administrative members) established on each campus by the appropriate faculty governing body to hear student appeals for relief from admissions decisions on transfer of credits, grades, and honor points; to recommend relief if deemed appropriate; and to assist in the even-handed application of the philosophy underlying the above policies.

The recommendations were approved.

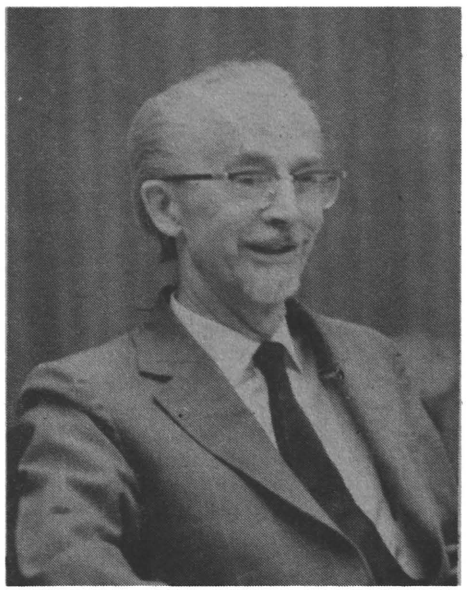
Chairman Daniel, on behalf of the Faculty Council, provided the following status report:

1. The Faculty Council recommends the tabling of the Faculty charge to seek the creation of a University Faculty Senate.

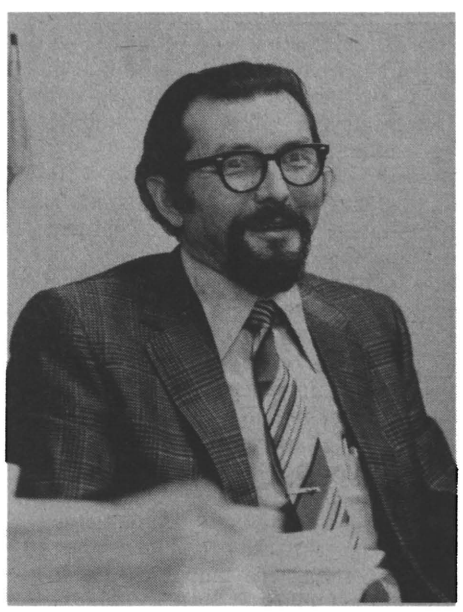
2. The Faculty Council is currently developing a recommendation regarding the original Faculty resolution pertaining to the present policy of creating one centrally administered University with four campuses.

Prof. Bivens, presented the "Proposed Faculty By-Laws." No action was taken at this time.

Faculty Council Minutes



ROBERT DANIEL
Council Chairman



EDWARD HUNVALD
Council Vice-Chairman

KENT ADAIR
Chmn, Student Affairs

KERNAN WHITWORTH
Chmn, Faculty Bulletin

Minutes—Sept. 20

Meeting with Provost Koeppe. Provost Koeppe discussed a range of items with the Council and expressed his desire to meet with the Council or one or more of its standing committees on a regular basis.

Faculty Council Standing Committees.

a. The assignment of members to the Standing Committees of their choice was almost completely possible. The assignment to committees was distributed with the minutes of Sept. 6.

Faculty Council Committees for 1973-74
(Member named first is the Chairman)

Academic Affairs: Peden, Campbell, Spencer, Wellman, Holroyd

Faculty Affairs: Bivens, Evans, Ross, Corwin, Mauksch

Student Affairs: Adair, Burns, Storvick, Schooler, Braisted

Academic Freedom & Grievances: Naumann, Mordock, Headley, Wiecek, Engley

Special Projects: Miller, Stoekle, Denney, Utz, McNabb

Faculty Bulletin: Whitworth, Hedlund, Wurtz.

Representatives to InterCampus Faculty Council: Daniel, Spencer, Utz

Representative to Board of Curators: Hunvald

b. The executive committee proposed, and it was seconded, that the chairman of and staff athletic and recreational activities be appointed with the following responsibilities:

Develop a comprehensive inventory of faculty and staff athletic-recreational opportunities;

Study the usage of all campus athletic and recreational facilities for implications that usage patterns may have for increasing the availability to faculty and staff;

Promote increased usage of available facilities by the faculty and staff for individual and team participation;

Publicize the availability of athletic-recreational opportunities for faculty and staff;

Recommend the expansion of opportunities for faculty and staff involvement in athletic-recreational activities;

Serve on the committee appointed to plan and administer the Brewer-Rothwell Complex.

2. That a member of the Faculty Athletic Opportunities Committee be appointed to the committee for the administration of the remodeled Brewer-Rothwell Complex.

3. That the campus and university administration be reminded that the provision of facilities for student and faculty physical development in a state-supported institution of higher education is the responsibility of the state; therefore, the faculty deplores the necessity of using student fees to remodel Brewer Fieldhouse for these purposes.

the **Faculty Bulletin** Committee be added to the Executive Committee. In the absence of nominations from the floor Prof. Whitworth was elected by secret ballot.

Report from the Board of Curators Meeting. Prof. Hunvald reported the actions taken at the Board of Curators meeting held in Columbia on Sept. 14.

Faculty Athletic Opportunities. Prof. Miller presented a proposal from the Committee on Faculty Athletic Opportunities (reprinted below.) Prof. Miller moved, Prof. Utz seconded, that the recommendation be approved. Motion passed without dissent by voice vote.

Report from Inter-Campus Faculty Council. Prof. Daniel, Utz and Spencer reported to the Council on the last meeting of the Inter-Campus Faculty Council.

Library Loan Policy. Attention was drawn to the letter in the **Faculty Bulletin** concerning the library loan policy. Motion proposed by Prof. Spencer, seconded by Prof. Utz, that the issue be referred to the Academic Affairs Committee for proper consideration was passed by a voice vote without dissent.

Salaries. Concern was expressed with the announcement of the salary increases of some administrators. The matter is to be referred to a committee by the Executive Committee.

Recommendations
Committee on Faculty Athletic Opportunities

1. That a campus coordinator of faculty

Minutes—Sept. 28

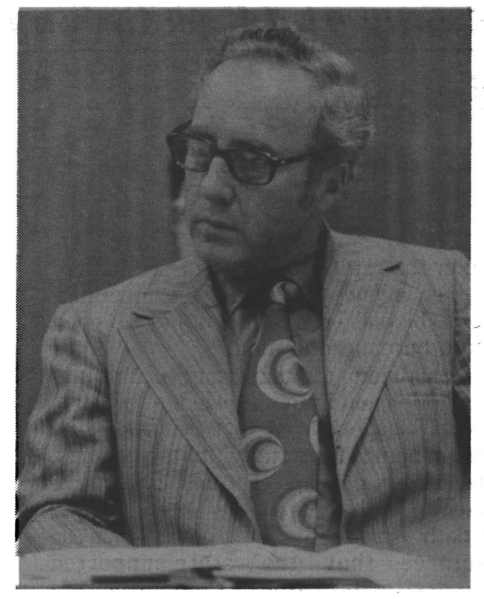
Meeting with Vice Chancellor Entsminger. Vice-Chancellor Entsminger explained to the Council the scope and activities of the alumni program and discussed its development on the Columbia campus.

Articulation. The Council received a letter from Chancellor Schooling on the articulation agreement proposed for the State of Missouri. Following some discussion the report was referred to the Academic Affairs Committee.

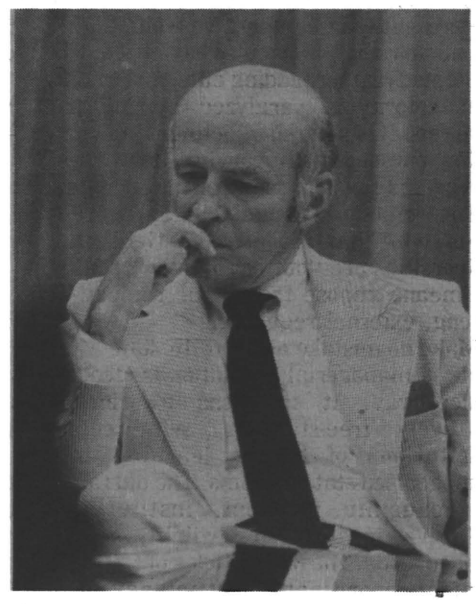
Honorary Degrees. A letter concerning the current situation in the granting of honorary degrees has been received from Prof. McKinney. Following some discussion, Prof. Mauksch moved and Prof. Evans seconded that the Council support the objections raised by the Honorary Degree Committee and that the Council communicates its support of these objections to the Board of Curators through official channels. The motion passed by voice vote without dissent.

Salaries. Further discussion took place concerning salaries. This matter has already been referred to the Academic Affairs and Grievance Committee for study.

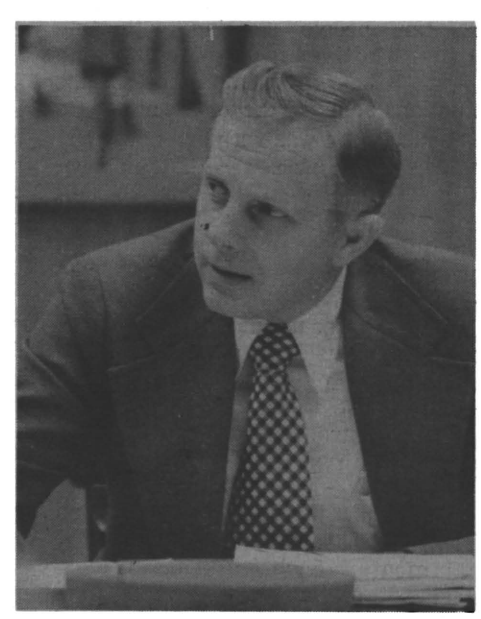
Pictures Are of Council's Executive Committee



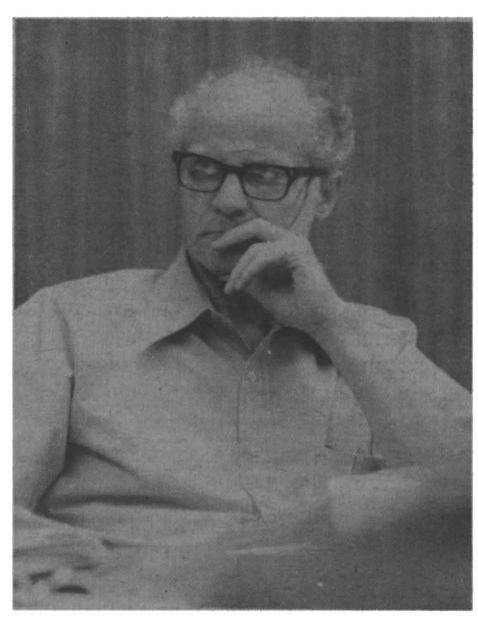
H. DONALD NAUMANN
Chmn, Academic Freedom and Grievances



WILLIAM PEDEN
Chmn, Academic Affairs



WILBUR MILLER
Chmn, Special Projects



GORDON BIVENS
Chmn, Faculty Affairs

University or Knowledge Factory?

There is a tempting heresy loose in the land. Very simply, it is the dangerous notion that state universities are simply another agency of state government, a unit to be policed, regulated and whipped into a bureaucratic mold.

In this view, the university is simply a production unit in the knowledge industry, a kind of specialized factory processing human beings for strictly utilitarian ends. Clark Kerr, perhaps the most perceptive observer of the changing academic scene, is both precise and prophetic when he declares that the state-supported university is rapidly becoming "a regulated public utility."

Why have we come to this strange new vision of the university? For many reasons: because many believe that our business affairs are poorly managed, that we are guilty of competitive, self-serving expansion, that the faculty have become a protected featherbedding elite, and finally that reform is paralyzed by internal quarrels. It is a harsh indictment, and it is being pursued with varying degrees of fervor and favor in many of the 50 states.

The remedy is equally harsh. If self-regulation has failed, if the state universities are "out of control," then by all means impose the classic remedy of strong, external regulation.

Make no mistake about it. In state after state, a managerial revolution is steadily under way. It threatens to convert relatively free-standing, self-directing institutions of higher learning into homogenized state systems. The old faiths — academic freedom, institutional initiative, institutional flexibility — are pushed aside. The new articles of faith are control, coordination, efficiency, and something called "accountability."

Like Gulliver, the university discovers that the combined strength of many small strands of red tape is enough to restrain and overpower. Though the Lilliputians were tiny people working with tiny threads, Gulliver was indeed made helpless. It bears remembering that the Lilliputians believed they were busy in a good cause. So it was with our new masters. They are blessed with their own private visions of what is best for the university.

The managerial revolution in public higher education emerges from at least three distinct and powerful trends.

First there is the impulse of government itself to extend its domain and its control. Whether in the Politburo, General Motors, the White House, or state government, the impulse to control others lies deep in the grain of large systems.

The historic independence of state universities has been for a long time an affront to state auditors, personnel departments, architectural offices, centralized purchasing bureaus, and the like. Their instinct for tidiness, sense of professionalism, and "territorial imperative" combine in persistent zeal to bring the university to heel.

Second, there is the rapid movement toward the development of powerful state systems of higher education. As new public services are demanded, as the taxpayer revolt gains momentum, as state governments everywhere endure the crunch of too many demands and too few dollars, and as the bill for higher education continues to rise, governors and legislators are driven to the search for economies. All this has given strong impetus to the development of powerful state systems of higher education.

The regulation of the life of the university began with a development that was clearly needed, and innocent of wrong motive. This was the creation of specialized state boards or commissions charged with "coordinating" the budgetary requests of the various state colleges and universities. But over the years, the coordinating boards have enlarged their jurisdiction and extended their powers.

In many states, they have moved inexorably from useful fact-gathering and helpful analysis to outright control and detailed intervention into the internal affairs of the universities.

The power of decision on matters large and small has moved upward from individual institutions into the hands of strong state systems — with consequences we have only begun to grasp. In shared innocence, trustees and the American Assn. of University Professors hassle the president on matters that are now largely in the hands of the state system.

The system! It is not the system that we associate with George Orwell's "Big Brother." It is not a system operated by faceless, soulless tyrants lusting for power. It is much the same kind of system that you and I encounter when we struggle with the higher mathematics of our federal tax return, or battle a zoning change, or try (as I did recently) to transfer the title of a car purchased in Colorado, mortgaged in New Mexico, licensed in Ohio, located in California, to a daughter residing in Oregon.

> The article reprinted on this page appeared in a recent issue of the Chronicle of Higher Education. The author is Harold L. Enarson, president of the Ohio State University. These remarks are excerpted from his commencement address at the University of New Mexico in May.

It is a system run by friendly, decent people who mow their lawns, pay their bills, worry about what this country is coming to — but people who themselves are often prisoners of rules, regulations, and procedures that they are powerless to change.

Unfortunately, it is in the nature of systems that they always reach for more. In Wisconsin and North Carolina, the logic of system has crashed the final barrier. In both states, the state colleges and universities have been formally merged into a single, new, all-embracing state university. It is a triumph of system — a new empire, a new total bureaucracy.

And it sets the stage for the necessary next step, the homogenization of independent universities into a single mega-bureaucracy. Boards of trustees are left with local "advisory" roles. They are like the appendix in the human body, without real function but capable of flare-up or sudden critical disruption.

The third element in the managerial revolution is the excessive reliance on the so-called "management tools." Some are physical tools, such as the computer. Most are conceptual tools — performance budgeting, cost-benefit analysis, the systems approach, and the like. These new tools — we are told — will lead us into the Promised Land of easy decisions and efficient management.

Unfortunately, the tools themselves create the illusion that the vitality and integrity of the university is a direct function of management initiative.

The computer is the rightful symbol of what I choose to call the "management mentality." In the house of Dr. Strangelove, the managers program the computer, the Super Machine whirs hypnotically, and the computer printout yields masses of information — all in exquisite detail.

In measuring things that can be counted or expressed in quantifiable terms, we are led unawares to the grand illusion — that only the measurable really matters.

To the new managers the university is just another large system. It has raw material (students), a labor force (faculty and support personnel), instruments of production (classrooms, laboratories, libraries), a production schedule (academic requirements, classes admitted, and classes graduated), management (the trustees and central administration), and a production index (the cost of producing a student credit-hour).

In this view, faculty are worker bees, producing quietly, unobtrusively, on schedule their "fair share" of the units of production. The product (students) reflects "value-added" in manufacture. The cheerful assumption is that more has been put in your head than has been taken out.

Is this outrageous caricature? Of course, but it does capture the spirit of a trend. Around the country, right now, there is pressure in one or more states for the following:

- Standardized course offerings for "general education" in the first two years.
- A standard calendar for the state universities.
- Round-the-clock (7 a.m. to midnight) operation on a 12-months-a-year basis.
- Legislatively mandated teaching loads of nine hours at the graduate level, 12 hours at the undergraduate level.
- A single computer system, a single library system for a state.
- A job-classification system locking every professor and employe in an appropriate niche.
- Space-utilization and building-construction standards that treat all universities as if they were alike in all respects.

Am I suggesting that productivity is of no moment in the university, that money doesn't matter, that the university is accountable to no one? Of course not. Plainly there are advantages in improved coordination, in the sharing of expensive library and computer resources, in the imaginative use of technology, in better classroom utilization, in better use of the time and talents of the faculty. But is this the yield of the managerial revolution? Not at all.

Has the managerial revolution made for the hiring of better teachers, for more inspired teaching, for more creative research, for better career counseling, for better organized curriculum, for a sharper sense of intellectual purpose? Has it made for better incentives to learning and intellectual growth?

It has not. But has it put administrators on their toes? Are presidents, deans, and chairmen made more efficient, responsible, and — to borrow the favorite "in" word of the managers — "accountable"? It has done none of these things.

In my considered judgment, the managerial revolution creates the exact reverse of the goals that are sought. The impact of multiple sources of regulation on the university is to discourage flexibility, cripple initiative, dilute responsibility, and ultimately destroy true accountability.

For the most part, the managerial revolution has meant the triumph of technique over purpose. We witness management "overkill." The university which is regulated by everyone becomes, by the most bitter of ironies, accountable to no one.

The invasion of external authority makes it virtually impossible to fix responsibility on any one for educational results. With everyone in the act, who is finally accountable?

All this is happening because we fail to grasp the essential nature of the university. It is not "just another organization." It is a very special kind of place. It is more like the Metropolitan Opera than the Metropolitan Life Insurance Company. It is more like a church than a factory, more like a research lab than the highway department.

The university is an intensely human enterprise. And it is not so much managed as it is led.

The work that we do defies measurements that matter. Our "production site" is the classroom and the laboratory. Everything that really matters and makes a difference in the lives of students takes place behind closed doors — far beyond the reach of managers. The bell rings and the 50-minute intellectual transaction begins. It's all there — the excitement or the dullness, the discipline of good teaching or the time-consuming rambling, the eager attention or the slack-jawed stare.

The quality of the intellectual enterprise — which is the only true measure — is the direct charge of the faculty. It is the faculty members who must design the curriculum and the requirements; who must organize the courses of instruction; who must reshape courses and programs and stretch to be in tune with the times.

It is the faculty that either has the future in its bones or has its bones in the way of the future. It is the faculty that must purge itself of the passionate true believers who prostitute academic freedom by promoting either the zealotry of the "new left" or the doctrines of the "old right." It is the individual faculty member who, in asking too little of himself, asks too little of his students — or the faculty member who, enthusiastic in his own subject, makes learning contagious.

The language of higher learning is so pretentious that we easily shrink from its exhortations. But it is an intellectual tradition that we transmit; it is professional competence that we demand; it is the sense of human possibility that we communicate; it is the insistence on intellectual rigor, in art and in science, that we proclaim. If this is conceit, make the most of it. For the university is not, cannot be, the prisoner of the managers.

But neither can the university be the captive of the faculty. It is the people that we serve, and their public interest that we seek to advance. Everyone has a stake in the work of the university — parents, students, faculty, governors, legislators, business, the professions, taxpayers, trustees, even presidents. Slowly, clumsily, we in the universities have evolved our own special forms of "participatory management." It will do no good for any of us to rail against external intervention.

Instead, our challenge and opportunity is to devise wider and deeper networks of consultation. If consultation with faculty is necessary and desirable, so by the same token is university consultation with governors, legislators, and state coordinating boards.

Yes, universities are a very special kind of place. They are fragile as truth itself is fragile. They exist by public sufferance, and it is a marvel that the public at large supports with its dollars an institution that is independent, free-standing, openly critical of the conventional wisdom, friendly to disputation, enchanted with controversy, hospitable to those who "think otherwise."

May it always be so.

Hume to Work with State Commission

Harold A. Hume, director of cost studies for the University of Missouri, will assume a dual role for the next year to carry out responsibilities both to the University and to the Missouri Commission on Higher Education.

During the year, Hume will devote 80 per cent of his time to the Commission on Higher Education on a project to implement at the state level national higher education financial reporting procedures.

Hume will be working with all public and private higher education institutions in Missouri in the development of accounting procedures.

The information will be valuable to the state in making recommendations on state appropriations for higher education and will provide guides on program costs for various institutions.

The remaining 20 per cent of Hume's time will be devoted to his University responsibilities.

Laurels for U-Press, 2 UMC Profs: Books Cited for Design

Above, from left, Prof. Lehmann-Haupt, Mrs. Carter and Prof. Boyd Carter enjoy a few moments at the Show's opening reception. Right: Prof. Carter, center, relates a story to Tom Lloyd, director of the Press at left, and Edward King, designer of the two UMC books represented in the show.

The 1973 AAUP Book Show will visit more than 50 libraries and campuses in the United States, and will be included on a tour sponsored by the United States Information Services to major cultural events in countries throughout the world.

Books by two UMC professors were recognized by the American Assn. of University Presses as representing the best in scholarly bookmaking from the point of view of design and production.

Book show winners were displayed in the Fine Arts Gallery the last week in September.

Both Missouri books recognized in the AAUP Show were designed and supervised in manufacture by Edward King, associate director of the Press: "Manuel Guierrez Najera: Escritos Ineditos de Sabor Satirico 'Plato del Dia'," edited by Boyd G. Carter and Mary Eileen Carter, and "The Gottingen Model Book," edited with commentary by Hellmut Lehmann-Haupt. Carter is professor of romance languages, Lehmann-Haupt is professor of bibliography.

The Book Show presented books in two categories: (1) a group of 23 books representing the best in scholarly bookmaking from the viewpoint of both design and production, and (2) a group of seven, categorized as "Beauty of Economy" books, in which budget restrictions imposed limited options in execution. These books, in the opinion of the jury, represent the most distinguished example of professional design and production from the more than 2,200 new books published in 1972 by the 68 member university presses. Only 20 presses are represented in the final selection.

Mid-Missouri Consortium

(Continued from Page 1)

North Burn, president of Five Colleges, Incorporated, a Massachusetts consortium recently rated by the Ford Foundation as "one of the most effective of such consortia" in this country.

Two specific proposals for academic programs were presented by MMACU members during the seminar: N. G. Barrier and Paul Wallace of UMC presented one for a major in international studies; and a Lincoln University representative, Dr. Gossie Hudson, submitted another for a major in black studies.

At the luncheon closing the seminar, Lloyd Berry, UMC graduate dean, announced that UMC with other mid-Missouri schools had developed a process whereby students from MMACU schools — with 15 hours of attaining the undergraduate degree and in the upper 50 per cent of their class — could begin graduate work at UMC upon the approval of the appropriate UMC graduate studies director and the UMC Graduate School. UMC would provide advisement and the student would pay regular enrollment fees.

Also at the luncheon, Donald Shurtleff, director of University computer operations, discussed the University's central computer facilities. He is "very willing to respond to cooperating institutions' requests for assistance" and noted that all users would have equal priority with the computer, the only exceptions being University administrative and health science users which take first priority.

MMACU member institutions would, Shurtleff stated, be responsible for terminal equipment and pay for their computer time yet save themselves the often-unrealistic costs of central facilities' hardware and personnel.

While all these concrete proposals or decisions were announced, the overall nature of the seminar was largely a "brainstorm" session.

Dr. Burn, as leader, mentioned the numerous ways in which his Five Colleges consortium was cooperating (or planning to do so) and then moderated as MMACU participants indicated areas in which they would like to see the mid-Missouri group develop.

The Five Colleges, Burn noted, have worked out a method for selected students to cross enroll and even have a bus system to transport them. Three ways for faculty interchange have been arranged: overtime borrowing which Burn called "legalized moonlighting"; straight exchange on a one-for-one basis; and released-time borrowing similar to joint appointments.

The Five Colleges have joint majors in black studies and dance. There is also cooperation among academic departments: annual departmental meetings bring the five schools together to discuss new programs and possible areas of cooperation.

Regarding graduate work, the Five Colleges have cooperative Ph.D. programs in eight fields with the diploma listing all five schools. Consortium faculty serve on the graduate faculty and on Ph.D. committees. Currently, Burn noted, his consortium is seriously considering more joint academic services such as language institutes and a music conservatory.

Libraries, Burn stated, are just now arranging interchange. Joint deposit is available for rare books and scarce periodicals. Inter-library loans are very rapid.

Business managers have established cooperative purchasing of some common products and contracts for laundry facilities. Student health clinic services and parking needs have been arranged between two or three of the Five Colleges consortium.

Student services under the deans of students involve joint counseling services, a mental health "half-way house" and a center for "drop-in, drop-out" students.

Budgets for consortia, Burn admitted, can prove thorny. In many areas the Five Colleges share costs five ways equally. But he noted some imbalances exist which need correcting. Yet, he observed, if consortia are willing to work, member institutions must be willing to bend, to avoid getting bound up in details at the expense of desirable educational goals.

As discussion moved to MMACU cooperative interests, Burn suggested participants asked themselves "What do we want to accomplish?" Thus in joint use of faculty time, arrangements could be made on a course-for-course exchange, one-semester exchange, or use of part-time faculty. "Analyze the needs of the schools," Burn said. "Agree that no faculty member will be terminated as a result of shared faculty time. Show faculty how shared time can work to their own advantage."

Joint calendars were discussed. A calendar of events in charge of a coordinator with the authority to set policy for such a cooperative calendar would be necessary. The academic calendars for consortium members would also have to be in line where student-faculty interchange exists.

Distance barriers between cooperating schools can be partly overcome by use of a bus service and classes scheduled in daytime or evening blocks to cut down on commuting time. Burn noted that some student movement is desirable for the influence other schools' milieu have upon students taking courses there.

"Students are the strongest proponents of our consortia," Burn asserted as he spoke of the need for information flow between cooperating schools. "The student grapevine is very active and word of our programs gets around quite effectively. We also have a regular Five Colleges newsletter, and a Five College course list with information on cooperative majors and faculty expertise. We get press releases in the student papers and student reporters are also assigned to cover the consortium as a regular beat."

Burn emphasized there are certain money-saving aspects to cooperation: efficiency can be attained in the use of faculty time and cooperative purchasing of auxiliary services and goods. But the real benefit comes, he said, in improving the quality of students' education, a point which should be impressed on legislators and others who provide financial support for member schools.

And at times consortia can be expensive to operate, Burn warned. "But if you are operating or show that you can operate good educational programs, and can show you are backing your programs with money of your own," Burn continued, "you can always find money from outside sources to support your programs."

In the midst of all the ideas tossed before seminar participants by other participants, one topic came up only once. Someone asked, "What does a big university stand to gain from cooperation with small colleges?"

Several responses came back: The university has, and rightly so, a concern with higher education as a whole in its area. Further, there is a need to preserve the small colleges with their unique programs, specialties and faculties. And finally, a university will have a feeling of wanting to help, that it has something which it wants to share.

Vice-Chancellor Walter Daniel, UMC's liaison officer with MMACU, echoed these responses: "UMC feels strongly that it has not done what it can, yet our interest, as indicated by our numbers here today, is high. The University cannot be a 'rich uncle' nor does it wish to have a patronizing attitude," Dr. Daniel added. "UMC wants to be an integral part and a leader in this group."

Thus the seminar concluded with dozens of ideas, two proposals on paper, and a great deal of spirited talk among participants.

A check at press time with Douglas Ensminger revealed that participants have not let the excitement die.

Lincoln University representatives have begun follow-up with other institutions on its black studies proposal, as has UMC with the international studies proposal.

In early October MMACU registrars met to work out a cross-registration procedure. Ensminger credits UMC registrar Gary Smith with a lively interest in seeing the procedure work. A cross-registration process has emerged, and arrived "without tensions," Ensminger says, "because the September seminar gave participants a sense of vision about the cooperative possibilities."

UMC can now send students to other MMACU schools when classes for a particular course are filled on this campus. The agreement is tied to a pre-registration system so prospective members of students can be accurately

(Continued on Page 7)

'Bone Book' Has Multiple Uses

Several times a month bags of bones arrive at the Switzler basement home of the Missouri Archaeological Society and the University's American Archaeology division.

Sometimes the bones are from amateur archaeologists in Missouri or surrounding areas who want to know what they've unearthed. But just as often skeletal remains are sent by law enforcement agencies for identification as human or non-human when criminal activity is suspected.

Identification of skeletal remains and attendant problems of age determination, mode of death, and period of time since death are sometimes medical and legal problems as well as vital aspects of archaeology.

University resources and personnel have responded to this need in the form of a new text with the jaw-breaker title "Mammalian Osteo-Archaeology: North America." The author is American Archaeology research associate Dr. B. Miles Gilbert.

The book is the second of a companion pair. The earlier "Human Osteology" — by William M. Bass, head of the department of anthropology, University of Tennessee-Knoxville — was a lab and field manual on the human skeleton. The Missouri Archaeology Society is the publisher.

The Society is also publisher of Gilbert's mammalian text, which covers 52 species of North American mammals.

Together the two "bone books" have multiple uses for several disciplines. Gilbert, like his friend and former professor Bass, planned his book that way.

For the lay person, the mammalian text is an easy-to-use guide to the identification of bones which might be encountered outdoors while hiking, hunting or backpacking.

Law enforcement officers will find help from the book in ways which seem unusual to lay persons. Gilbert recounts an incident in which his expertise was sought by state conservation officials. "Game wardens apprehended an individual who, during the season, had killed a deer which officials believed from skeletal remains was a doe, not a buck.

"The accused refused to admit he had killed a doe. Then the conservation officials indicated they would seek my supportive testimony since I could indeed determine from the bones the sex of the animal.

"At that point the accused confessed to having killed the doe," says Gilbert. "The mammalian text has been designed to provide the same sort of scientific help to law enforcement officials regarding identification of non-human bones and domestic versus game species."

More than 220 pages of the text are drawings of animal bones. Two University art students produced these drawings from actual bone specimens. This comparative osteology is the core of the book for students and professionals in archaeology, zoology and physical anthropology.

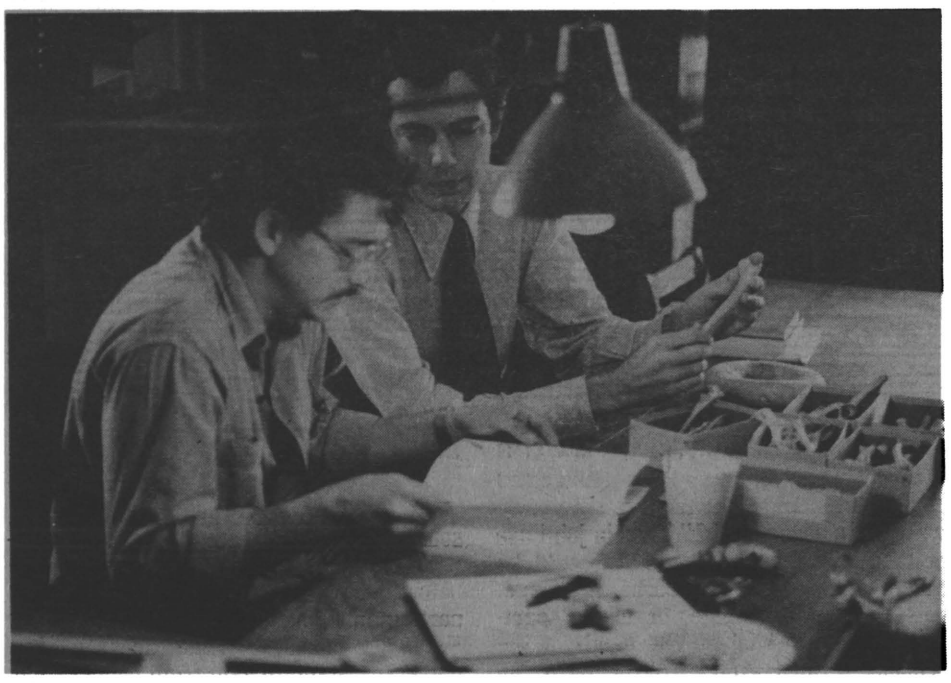
One chapter — the only section not written by Gilbert — was contributed by Gilbert's friend and professional associate at the University of Alberta, Robson Bonnichsen. That chapter is on distinguishing bones altered by man from those altered by carnivores.

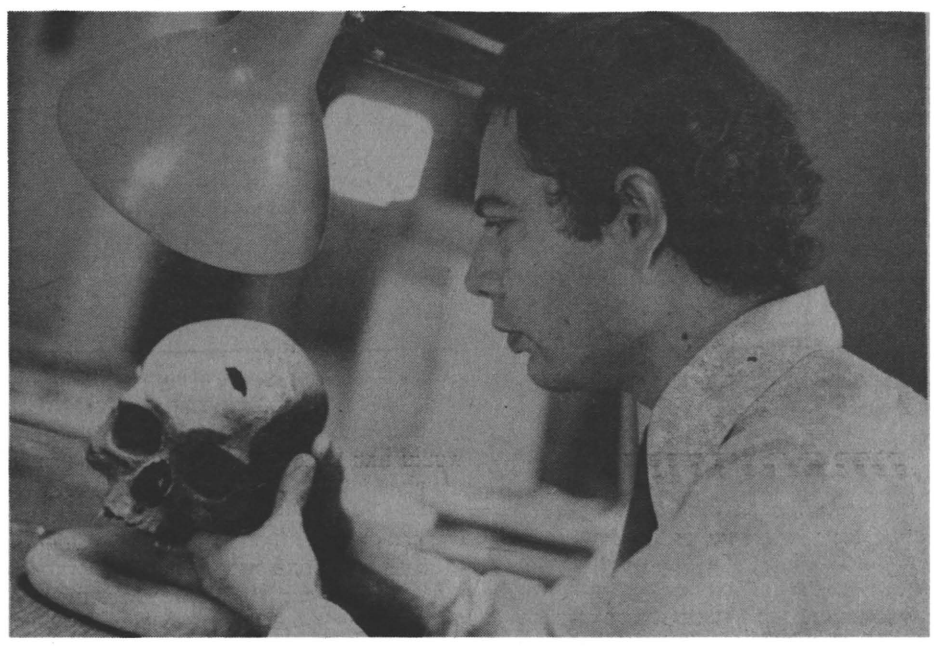
The unlimited applications of Gilbert's mammalian text is a good example of the quality of publications sponsored by the Missouri Archaeological Society through its affiliation with the anthropology department here.

A private, non-profit scientific organization, the Society is required to fill its offices of secretary and treasurer from members of the anthropology department. The procedure helps to maintain a high level of professional competence within the Society and keeps it of educational value to amateur members.

The human osteology text is "selling very well" according to Dave Evans, director of the Archaeological Survey of Missouri, a branch of the American Archaeology division. He expects Gilbert's mammalian osteology text — just now off the press — to do just as well.

"Both texts are fulfilling a real need among professionals," Evans notes. "Such publications speak highly of UMC's position in the academic field of archaeology."





Above: Miles Gilbert, background, works with a graduate student on identification and classification of bones. The student is using Gilbert's mammalian osteology text. Right: Gilbert examines an Indian skull from the period A.D. 500-1000 from Rock House Cave, at the mouth of the Sac River. The skull, colored for ceremonial purposes with red ochre, bears a hole which may have been the cause of death. Gilbert's dissertation project was a method for determining the age of death of females by examining the pelvic bones. The bones show morphological changes which are age-related. The project is of significance to law enforcement agents as well as anthropologists.

Search Continues For Nursing Dean

The search continues for the next School of Nursing dean.

Joseph White, provost of health affairs, said, "We are back into the search committee" phase after the person chosen for the position by the first search committee withdrew her name because of personal problems.

White has appointed a new search committee headed by Owen Koeppe, provost for academic affairs. White said he hopes the position will be filled by July.

Jane Brinton, nursing professor and assistant to former Dean Ruby Potter, is serving as interim dean until the office is filled.

Mid-Missouri Consortium

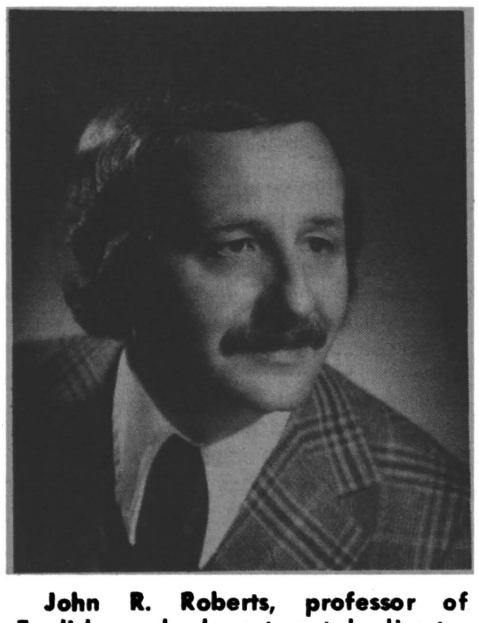
(Continued from Page 6)

gauged in planning adequate numbers of courses.

Thus, overflow students will be relatively few and easily accommodated by cooperating schools.

Ensminger, as executive officer of MMACU, has begun visitation to member schools where he too will follow up the beginnings made by the September seminar.

"I couldn't be more pleased," he says. "The canvas is now big for the dialog."



John R. Roberts, professor of English and departmental director of graduate studies, is the author of "John Donne, An Annotated Bibliography of Modern Criticism, 1912-1967," recently published by the University of Missouri Press. The Roberts work is the first to collect and annotate the extensive criticism and scholarship on Donne in the 20th century. A research tool, the bibliography lists nearly 1200 items under three indices of author, subject and title.

'Planned Piggyhood': Better Pork Production

A few "super sows" may be the absentee mothers for some of the nation's pigs in the 1984 world of "planned piggyhood."

In future years, we'll take eggs from the ovaries of the best sows, fertilize them in a test tube, then put them back into a not-so-good sow who will be programmed to give birth on a given day.

"It is already possible to do most of these things in laboratory animals," claims Billy Day who heads up pig breeding research at UMC. "These procedures would make it possible to exploit the genetically superior female."

Day has been able to collect fertilized eggs and to get them to grow in a test tube. He has also kept eggs in a test tube up to 24 hours — "long enough that they could be shipped nearly anywhere in the world."

Using these techniques a fertilized egg could be implanted in a nonbred animal which would eventually give birth to little pigs.

Day says attempts to fertilize eggs in a test tube have not yet been successful.

"Theoretically, we should be able to remove many eggs from the ovary in a good sow, mature the eggs, fertilize them in a test tube and then implant them into another sow," says Day. "That way, a good sow could 'mother' as many pigs in a year as she does in a lifetime without ever having to carry any pigs through pregnancy," says Day.

"By using only genetically superior sows, we could help improve pig production by selecting for fast growth, meatiness, etc. Genetic improvement in pigs would be faster than it is now.

"The potential is certainly there. But much more research will be needed to develop the necessary procedures for use in pigs," says Day.

Day has recently found that by injecting pregnant sows with the hormone, prostaglandin, most of the sows farrowed 24 to 32 hours later. While this was only a preliminary experiment, Day is encouraged that "controlled farrowing" isn't far away.

"If a pig producer could predict when his sows would farrow, he could do a better job of managing the pigs and reducing pig mortality," says Day.

Controlled estrous and artificial breeding will also be part of the 1984 "planned piggyhood" world. That extra "boar power," plus "super sows," should give us more efficient pork production than ever before," claims Day.

DID YOU KNOW THAT. . . the Missouri State Historical Society is the largest state historical society in the nation? Its holdings include 380,000 volumes of history, geneology, anthropology and archaeology; the picture collection contains 41,000 photographs; original manuscript pages exceed 300,000; maps ranging from early river routes and trails total 1,500; the largest and most complete newspaper collection in the nation has 7,528 bound volumes and over 19,500,000 pages on microfilm.

The State Historical Society is housed in the east wing of Elmer Ellis Library.

Calendar of Events

Oct. 17: MSA Film: "I Never Sang for My Father," 5:30 & 8:30 p.m., A&S Auditorium.

Oct. 18-19: Ninth Midwest Conference on Endocrinology and Metabolism, Memorial Union Auditorium.

Oct. 19: Astronomy Film Series: "Mystery of Stonehenge — Part I," 7 p.m., 126 Physics. Public telescope viewing to follow if weather and clouds permit.

Oct. 19: Montserrat Caballe, soprano, and Bernabe Marti, tenor, to perform, 8:15 p.m., Stephens College Assembly Hall. Tickets $5-$2.50.

Oct. 19: Biology 2 Movie of the Week: "The Plant Organisms" and "Plant Growth" 11:30 a.m. and 2:30 p.m., 322 Tucker.

Oct. 20: International Bazaar, Gentry Hall Courtyard.

Oct. 20: MSA Broadway Play: "Grease," a musical comedy about the 1950s, 8 p.m., Hearnes Building. Tickets, $4, $3, $2 at 211 Read Hall.

Oct. 20: MSA Film: "Giant," 2:30 & 7:30, p.m., Jesse Auditorium.

Oct. 22: MSA Classical Concert: Yass Hakoshima, 8:15 p.m., Jesse Auditorium.

Oct. 22-Nov. 9: Computer Center Short Course: SAS (Statistical Analysis System 3:40-4:30 p.m., Monday through Thursday, 223 GCB. Non-credit, no charge to faculty, staff and graduate students. To enroll, call the receptionist, 882-6382.

Oct. 27: American Assn. of University Professors (AAUP) Conference, Holiday Inn East.

Oct. 23: Stephens College Chamber Music Concert, 8:15 p.m., Reception Room, Senior Hall. Tickets, $1.50.

Oct. 23: International Cooking Class: Latin America, 7 p.m., 203 Gwynn.

Oct. 24: MSA Film: "Bullitt," 5:30 & 8:30 p.m., Jesse Auditorium.

Oct. 25: Deadline to sign up for Show-Me Trip to Hannibal by University bus. Leave Physics parking lot at 8:30 a.m., Oct. 27. Cost is $1.50.

Oct. 26: Biology 2 Movie of the Week: "The Blood," "The Nervous System," and "Laws of Heredity," 11:30 a.m. and 2:30 p.m. 322 Tucker.

Oct. 26: Astronomy Film Series: "Measuring Long Distances," 7 p.m., 126 Physics. Public telescope viewing to follow if weather and clouds permit.

Oct. 26: Sir Hans Krebs, M. D., Nobel laureate, to speak on "Isolated Liver Cells as Tools for the Study of Liver Metabolism," 8 p.m., Jesse Auditorium. An event of the 16th West Central States Biochemistry Conference. Conference sponsored by College of Agriculture, College of Home Economics, division of biological sciences, extension division, Graduate School, Graduate Student Assn., School of Medicine, and School of Veterinary Medicine.

Oct. 27: Career Day, School of Nursing. Begins at 10:30 a.m., A&S Auditorium. Continues after lunch at M253 Med Center.

UMC Trains First Doctorate In Ag Econ for African Nation

The African nation of Zaire (formerly the Belgian Congo) has its first Ph.D. in agricultural economics, and it was earned in the University of Missouri-Columbia College of Agriculture.

Kalonji Ntalja, who finished his course work and thesis in agricultural economics in just 18 months, returned to his homeland Sept. 14 to join the faculty of the National University of Zaire, where he will establish an agricultural economics curriculum.

He had been in the U. S. for three years and earned a master's degree in economics at Washington University, St. Louis, before coming to UMC.

The vice chancellor of Zaire's National University, Koli Elombe Motukoa, who is also a senator in the Zaire government, witnessed Ntalaja's final Ph.D. examinations at UMC Aug. 30.

At a luncheon honoring the two men that day, Motukoa expressed gratitude and hope for continued cooperation between UMC and National University.

In emphasizing the importance of U. S. education, Motukoa said that although the granting of a Ph.D. may be an ordinary event for UMC, it has helped write an important chapter in the economic development of his country.

Motukoa also pointed out that the number of university-educated Zairians has increased from 12 in 1960 to about 100 today.

Attending the luncheon were members of the UMC agricultural economics faculty and dean of the College of Agriculture, Elmer R. Kiehl.

Robert Finley, UMC professor of agricultural economics and Ntalaja's advisor, said that the thesis he submitted "raised very interested concepts that only a man with Ntalaja's thorough knowledge of both the American and Zairian economics systems could present."

In his thesis, Ntalaja compared the American and African economies: "In the U.S. private life is invaded by the business ethic. In Africa farmers are motivated not by business and management but by 'life management.' "

African life is characterized, he said, by a concern for work, family and culture as various facets of life management rather than as a means to an economic goal.

Zaire is in west central Africa.

Dalton Researcher On Ocean Expedition

Everett L. Douglas, investigator at the Dalton Research Center and assistant professor of biological sciences, is a member of an oceanographic expedition which involves 15 internationally recognized American scientists.

The espedition, which left San Diego Oct. 5 aboard the USNS Bartlett, is sponsored by the U.S. Navy. Its purpose is to investigate the biological and sonic characteristics of the "deep scattering layer" of the Pacific Ocean and the association of this layer with zones where some species of marine animals manage to survive in spite of low oxygen concentration.

Douglas was chosen because of his work on the Antarctic icefishes—animals unique among vertebrates because of their lack of red blood cells. The UMC scientist's work with these animals is closely related to the problems faced by other organisms living in what is known as the "oxygen minimum" zones of oceans.

This Issue

	Page
Calendar	Back Page
General Faculty Meeting Minutes	3
Graduate School and Research Notes	2
Faculty Council Minutes	4
New Faculty	1

Faculty BULLETIN

Vol. 9, No. 3 October 17, 1973

A golden Sunday afternoon provides a child in McAlester Park with an opportunity to partake of a favorite childhood activity — balloon chasing.

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 4 November 28, 1973

Association to Study Non-Resident Tuition

(Editor's Note: The following article, originally titled "Tuition Dilemma in Public Colleges," is reprinted from the Ford Foundation Letter, Vol. 4, No. 7, Nov. 1, 1973.)

All state colleges and universities charge out-of-state undergraduate students higher tuition rates than resident students — between two and three times as much. But what of the student from, say, Illinois, who elects to become a resident of Colorado, where he attends college? If he then is permitted to pay the lower resident tuition, as recent court rulings suggest, state colleges and universities stand to lose up to $200 million a year, a near-disaster in a time of increasingly tight budgets. To help find a way out of this dilemma, the Foundation has granted $49,375 to the **National Association of State Universities and Land-Grant Colleges** for a study by Dr. Robert Carbone, dean of education at the University of Maryland, and a team of consultants. Co-sponsoring the study is the American Association of State Colleges and Universities.

States now have no common set of regulations concerning residency requirements, and the recent eighteen-year-old voting amendment eased these requirements further. The problem was complicated even more by a recent Supreme Court decision that struck down a Connecticut law preventing out-of-state students from ever becoming eligible for lower resident tuition rates. While the court recognized that a state has a legitimate right to give preference to its own residents, it questioned the constitutionality of imposing specific waiting periods or other restrictions on a student's ability to qualify as a state resident for tuition purposes.

The study will examine the implications of court rulings and laws governing student residency status, and identify and analyze the impact of alternative methods of assessing tuition. Under one model, a college might charge a uniform tuition rate to all students and give rebates to graduates of in-state high schools. Or a national student tuition bank might be set up to administer cost-of-education payments from state governments in lieu of individual non-resident tuition payments. Another alternative might be a state, regional, or national student exchange program that would equalize in- and out-migration and thus eliminate the need for tuition differences between resident and nonresident students.

Library Rewrites Call-in Rule

The UMC Library Committee has rewritten the regulation on charges for failure to return call-in books, according to William M. Jones, chairman.

"There has been some confusion in the interpretation of the new experimental library regulations concerning faculty borrowing," Jones said. The new regulation on call-ins reads:

"Call-in requests may be made for any book on loan to a borrower. A normal loan period is allowed before recall notices are sent (two weeks for books, one day for journals). Four days are allowed for the return of the books. If the book has not been returned by the end of this period, a second notice is sent informing the borrower that if the book is not returned within one week from the date of the second notice he will be charged for replacement cost of the book plus a five-dollar billing charge. The billing charge will not be refunded on books returned after this billing."

The Faculty Meeting, originally scheduled for Dec. 5, has been postponed to Dec. 12, at 3:40 p.m. in Jesse Auditorium. A special edition of Faculty Bulletin containing the proposed changes in the Faculty By-Laws will be distributed prior to the meeting.

Affirmative Action Council Named

A 16-member Council, charged with monitoring the application of the Affirmative Action program at the University of Missouri-Columbia, has been named by Chancellor Herbert W. Schooling.

Chairman of the Affirmative Action Council is Dr. T. Charles McKinney who has a dual academic appointment as associate professor of community health and medical practice and associate professor of management.

Also named to membership were Dr. Milton Gatch, professor of English; Dr. Arvarh Strickland, professor of history; Dr. Carmelo Calabrese, professor of electrical engineering; Dr. Corrine S. Cope, associate professor of counseling and guidance; Ruth Ann Kroth, assistant professor of nusing; Dr. Robert T. Tsutakawa, associate professor of statistics; Dr. Douglass Tate, director of faculty development projects (ex-officio); Clarence Wine, coordinator of minority student programs; Dr. Edmund Ford, associate provost for administration; Cynthia Bennett, personnel assistant in the office of personnel services; Dr. Charlotte Wells, professor of speech and dramatic art; Dr. Jay Goldman, professor of industrial engineering; Dr. Keener Tippin, assistant director of admissions; and students Marvin Thompson and John P. Lord, both of St. Louis.

Earlier Chancellor Schooling announced that the committee would serve three major functions: to monitor implementation of UMC's federally-approved Affirmative Action program, to analyze the program on a continuing basis and recommend changes, and to serve as an appeal group for persons within the UMC community who feel that they have been the object of discrimination.

Council chairman McKinney announced an initial meeting of the group for early December.

Prof Puts Theory Into Practice

Westbrook Chairs City Charter Commission

James E. Westbrook, professor of law, will have an opportunity to put his academic theories into practical application.

Recognized for years as the UMC expert in municipal home rule, Westbrook is author of "A Model Charter for Missouri Cities" which the Missouri Municipal League published as a booklet to assist cities interested in home rule charters.

Now he has been appointed to chair the 28-member charter commission to consider revisions in Columbia's charter, particularly to take advantage of the 1971 state constitutional amendment on charter home rule government which he was instrumental in drafting.

It isn't altogether a new experience for the law professor. Because of his knowledge about home rule charters, he has been in frequent demand at cities which are considering a change in their form of government and in charter cities considering revisions in their charters.

The state constitutional amendment whetted interest because it permits cities of 5,000 population (the old limit was 10,000) to adopt home rule charters. Sixteen larger cities have installed such a system since Missouri pioneered charter government for cities in 1875.

Cities with charters have an opportunity to clarify their scope under the new constitutional amendment, Westbrook said. The pre-1971 charters had to be written carefully because they granted the city no authority for power it did not claim by charter. Under the new constitutional amendment the charter function is not one of granting powers, but gives cities all powers which are not limited or denied by the constitution, the statutes or the charter itself.

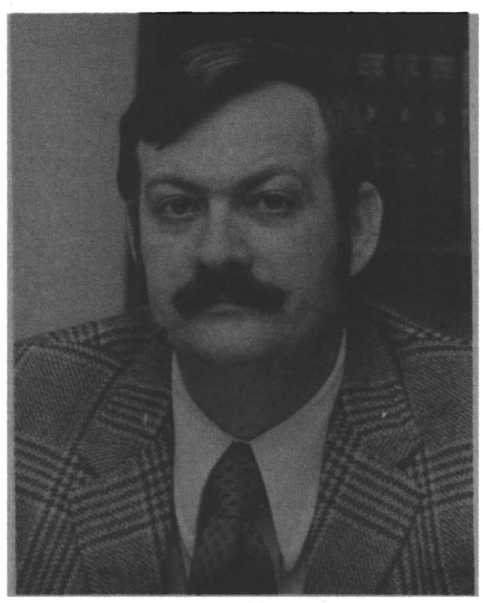
"Under the old rules, officials who lacked courage or desire to deal with a problem were provided with a plausible excuse for inaction," Westbrook said. "Even officials anxious to do something hesitated; those who remained united in determination were faced with necessity for clarifying legislation or a test suit which delayed implementation of a program."

Under the 1971 amendment, simple sentences can eliminate pages and can certainly reduce court tests of the city's authority, he said.

Westbrook has four questions which should be asked in drafting a home rule charter: what provisions are absolutely necessary; what provisions are desirable to prevent abuses; what provisions are unnecessary and would create problems themselves; and what provisions are unnecessary, but would not create problems if included and might have some useful non-legal purpose.

The first category would include, for instance, such items as establishing the existence as a municipality, boundaries, and number of council members.

The second would be provision which set up public hearings on ordinances, for removing city managers and the like.



JAMES E. WESTBROOK

The third might include requiring residency of city employes in the city and could be a handicap, for instance, in employment of a difficult-to-obtain city attorney.

The fourth might include procedures for a charter amendment, which could offer a handy reference but actually is governed by the state constitution and need not be included in a charter.

Westbrook said that one main problem in drafting a charter lies in determining which fundamental policy matters should be decided by the people as a whole rather than by their council.

"Many matters now dealt with in the council could be dealt with instead by ordinance, easy to amend. It is an unenviable job of the commission to decide which issues should be decided by the electorate and which by the council," he said.

Westbrook more or less drifted into his role as an expert in local government. He wrote an article on "Municipal Home Rule: An Evaluation of the Missouri Experience" for the Missouri Law Review in 1968. He was an untenured assistant professor at the time. This article was his first scholarly publication as a member of the faculty. Referred to in some of the leading casebooks in the local government field, it provided Westbrook with his first recognition in scholarly circles.

What started as rather academic, scholarly research began to develop into a practical application of his scholarly interests when he was given a grant by the Missouri Extension Service during the summer of 1969 to make a broader study of the home rule charters. As a result of his effort, Westbrook was the principal draftsman of what became the 1971 amendment to the home rule provisions on the Missouri constitution. His draft was prepared for the Governor's Advisory Council on Local Government. His proposed amendment was accepted nearly in toto by the Missouri General Assembly and was then approved in a state-wide referendum. Since that time he has been invited to the far corners of Missouri to assist cities with charter considerations or revisions.

Affirmative Action vs Tenure?

The article reprinted here orginally appeared in the Oct. 1 Chronicle of Higher Education.

Federally mandated affirmative-action programs have altered traditional college and university personnel practices substantially. Recruitment, for example, has shifted from a semi-secret ritual, jealously guarded by the academic fraternity, to a generally public procedure. Since affirmative action requires recruitment nets to be widely cast, the recruitment pattern has expanded well beyond such conventional sources as word-of-mouth referrals, inquiries to select graduate schools, and hotel-suite interviews at professional meetings.

Indeed, despite the surplus of available candidates, The Chronicle bulges with "Positions Available" notices — many undoubtedly placed to satisfy affirmative-action guidelines. In addition, affirmative action has prompted college administrators to re-evaluate and revise other personnel practices such as promotions, retentions, transfers, and salary scales.

Even though affirmative action has had a critical impact upon these matters, its most significant ramification may be yet to come. Compliance with affirmative-action regulations may well end, or at least drastically transform, academe's most established and distinctive personnel practice — tenure.

Once awarded academic tenure by a particular college or university, a faculty member holds a continuous appointment at that institution until retirement or voluntary resignation. Tenure may be revoked only for "adequate cause" or financial exigencies or to meet significant programmatic changes.

To receive tenure, a faculty member must satisfy minimum eligibility requirements, demonstrate a certain performance level, and reveal adequate potential for growth and development. As traditionally used, all three bases for awarding tenure are in at least potential conflict with affirmative-action guidelines.

Institutions of higher education usually cast minimum eligibility requirements for tenure in terms of academic credentials, rank, and experience. Although specifics within each category vary greatly among colleges and universities, the point here is that they exist at all, for affirmative action prohibits using evaluative criteria that either tend to perpetuate a previously discriminatory situation or that do not relate to job performance.

In a 1971 decision, **Griggs v. Duke Power Company** (401 U.S. 424), the Supreme Court strongly affirmed these significant requirements. The unanimous decision written by Chief Justice Burger invalidated a company policy that required for employment and promotion a high-school diploma and a passing score on a general intelligence test.

Insofar as neither condition could be manifestly related to job performance, the Court ruled that the stipulations violated the 1964 Civil Rights Act.

Whether these practices were deliberately or inadvertently discriminatory had no relevance, since the act specified that good intent "does not redeem employment practices or testing mechanisms that operate as 'built-in headwinds' for minority groups, and are unrelated to measuring job capability."

Indeed, the Court struck at the very heart of credentialism. "The facts of this case," the Court asserted, "demonstrate the inadequacy of broad and general testing devices as well as the infirmity of using diplomas or degrees as fixed measures of capability."

If the Griggs case appears too far removed from the educational realm, consider a recent lower federal court decision, **Armstead v. Starkville Municipal School District** (325 F. Supp, 560). In this instance, the court declared a public school board had unlawfully discriminated against blacks by tying teachers' appointments and retention to the attainment of a master's degree and specified scores on Graduate Record Examinations that had not been validated as accurate predictors of job performance.

These cases plainly establish legal precedents and principles readily transferable to college faculties and to criteria used for awarding tenure, which, is, after all, a condition of employment. Colleges and universities that hope to maintain present practice must be prepared to demonstrate that conventional criteria — i.e., a terminal degree or its equivalent, a given probationary period, and the holding of a particular rank — are manifestly related to job performance.

Colleges must substantiate these contentions because the Griggs decision held that "Congress has placed on the employer the burden of showing that any given requirement must have a manifest relationship to the employment in question."

The implications of Griggs and related decisions are not limited to minimum eligibility requirements for tenure; traditional methods of judging performance and potential are also affected. Colleges and universities must be able to show that they use meaningful, concrete, nondiscriminatory procedures and instruments for evaluating teaching performance.

If only lip service is paid to teaching effectiveness and what really counts is the candidate's publication record, then the institution, as the employer, must be able to prove that the publications are "demonstrably" related to the job, which is teaching. Similar arguments will have to be advanced if potential is evaluated on the basis of present performance or on meeting minimum eligibility requirements as discussed above.

Affirmative action will affect far more than the criteria employed to award tenure so long as very few faculty members are detenured and more and more receive tenure. In 1972, colleges and universities with tenure systems (85 per cent of the total) had a median of 41 to 50 per cent of their faculties on tenure. In the spring of 1971, 42 per cent of the respondents to a Keast Commission survey awarded tenure to all eligible faculty members, and two-thirds awarded tenure to 70 per cent or more of those under consideration. At this rate many schools will soon have faculties "solidified" by a very high proportion of tenured personnel.

A faculty solidified by tenure stands at cross-purposes with affirmative action, which requires a more fluid circumstance to be effective. To appoint more blacks, Chicanos, women, and other persons previously victimized by discrimination requires vacancies. In the current nogrowth era, vacancies must arise largely from turnover, not from expansion.

Tenure, however, limits turnover. Thus the immovable object meets the irresistible force.

There are clear signals as to what will happen when the collision occurs. As construed by the Supreme Court in the Griggs case, the Civil Rights Act provides that "practices, procedures, or tests neutral on their face and even neutral in terms of intent, cannot be maintained if they operate to 'freeze' the status quo of prior discriminatory employment practices."

Furthermore, even the Nixon administration, not a noted advocate of civil rights, recently determined that long-established policies that produced and maintained employment discrimination must be abandoned. In a January, 1973, directive, then-Secretary of Labor James Hodgson commanded the Bethlehem Steel plant at Sparrows Point, Md., "to correct a seniority system that has been found to perpetuate the effects of past discrimination in the assignment of blacks to jobs in departments with limited advancement opportunities."

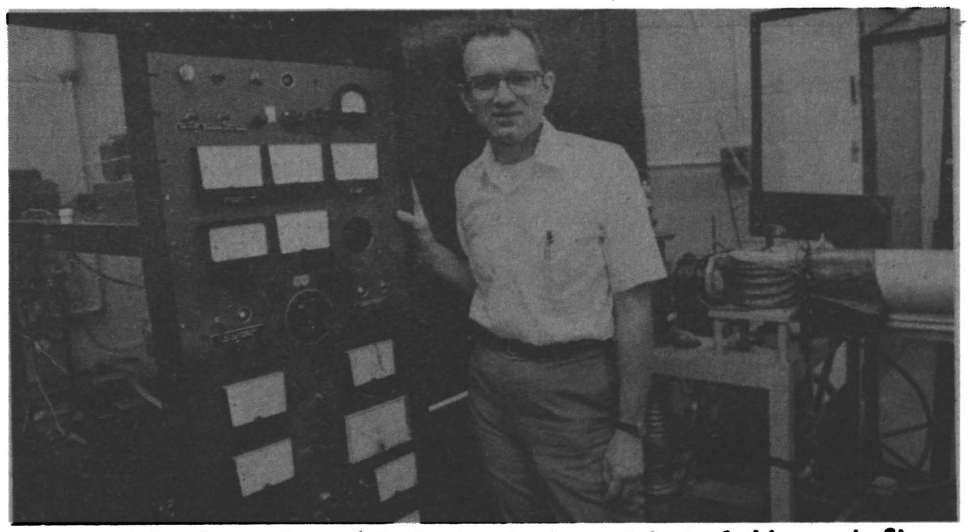
Hodgson so ruled because the company's seniority system "locked" blacks into inferior positions. As authority to act, Hodgson cited Executive Order 11246, the same order that governs affirmative action for colleges and universities.

The parallels surely strike close to the campus. Tenure does to a significant degree "freeze" the status quo and thereby limit opportunities for employment. Likewise, tenure "locks" minority-group members and women into junior, nonpermanent positions and thereby limits opportunities for advancement.

In fact, should tenure quotas or limits gain additional support in the academic community, the "lock-out" from senior, tenured positions will become even more severe.

And should more faculties unionize and accept a traditional labor role, then the courts as well as state and federal governments will be more apt to regard tenure as a seniority system designed to enhance job security. To the extent that tenure practices discriminate against

(Continued on Page 5)



Paul W. Schmidt, professor of physics, is the recipient of this year's Sigma Xi Research Award The award includes a $500 cash award, a certificate and a traveling plaque. Dr. Schmidt is best known for his numerous theoretical and experimental contributions to small X-ray scattering.

UMC Receives Grant to Study Migration of Negroes to South

The U. S. Department of Health, Education and Welfare, Public Health Service has awarded the University of Missouri a grant of $100,000 in support of a four-year project to study "Migration of Negroes to the South."

The project, which is in its final two-year phase, is under the direction of Dr. Rex R. Campbell, Columbia campus professor of rural sociology and Dr. Daniel M. Johnson, associate professor of sociology, Sangamon State University, Springfield, Ill.

The objectives of the research are "to determine the different types of migration, to survey the characteristics and motivations of the migrants and to determine the factors associated with adjustment."

The project's two-year pilot study concentrated on 100 Negroes who returned to Birmingham, Ala. The Negroes represented three major annual income groups: none to $1,999; $2,000 to $4,000 and $5,000 and over. The study showed no significant differences between the income groups and major reasons for migration which included economic, family, social and physical.

Contrary to expectations the study showed that race did not figure prominently among the reasons for migration. Returning to the South was "clearly unrelated to changes, real or imaginary, in race relations in the North or South."

The findings of the study also suggested that "economic deprivation brings about retention of extended family contacts. It is the lack of economic resources that serves to maintain extended family ties, however loose."

The two-year study used census data to determine the scale and patterns of North-South migration of blacks. During the 1960s almost half as many blacks moved South as moved North.

Dr. Loren Kintner, professor of veterinary pathology, received an Award of Merit from the Veterinary Medical Alumni Association and the UMC Alumni Association. The award is given annually to an outstanding alumnus of the School. Dr. Kintner received an M.S. in 1952 from the School. He was cited for the 25 years of service he has given the veterinarians of the state as a pathologist for the Diagnostic Laboratory.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 116 Jesse, or to the Office of Public information, 223 Jesse, 882-6211.

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Foresters Try Skills; Win Conclave Trophy

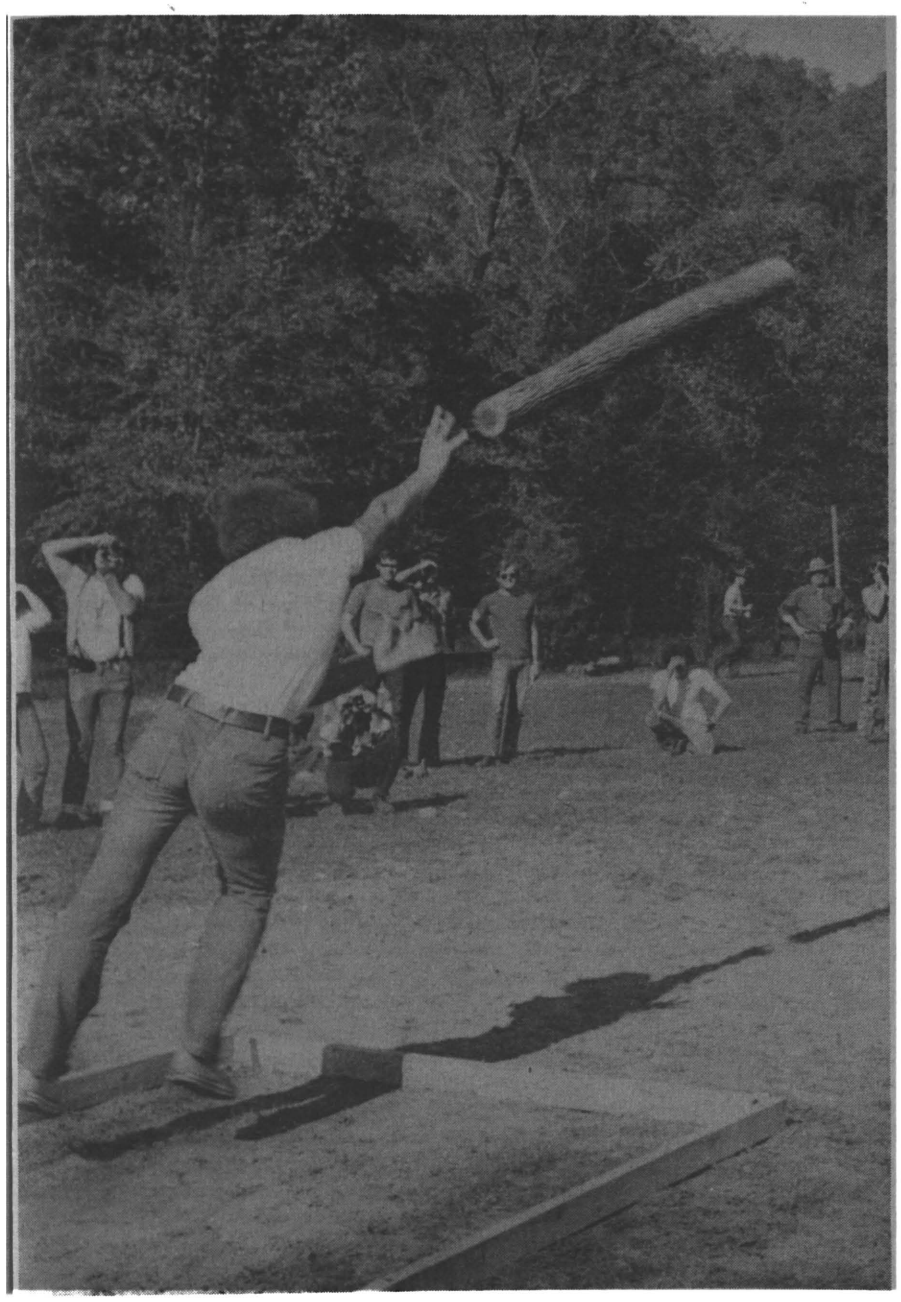
Paul Bunyan's plaid-shirted, ax-carrying friends had quite a time last month when foresters from eight mid-western universities gathered at Camp Zoe, near Round Spring, to revive old logging arts and related forestry skills.

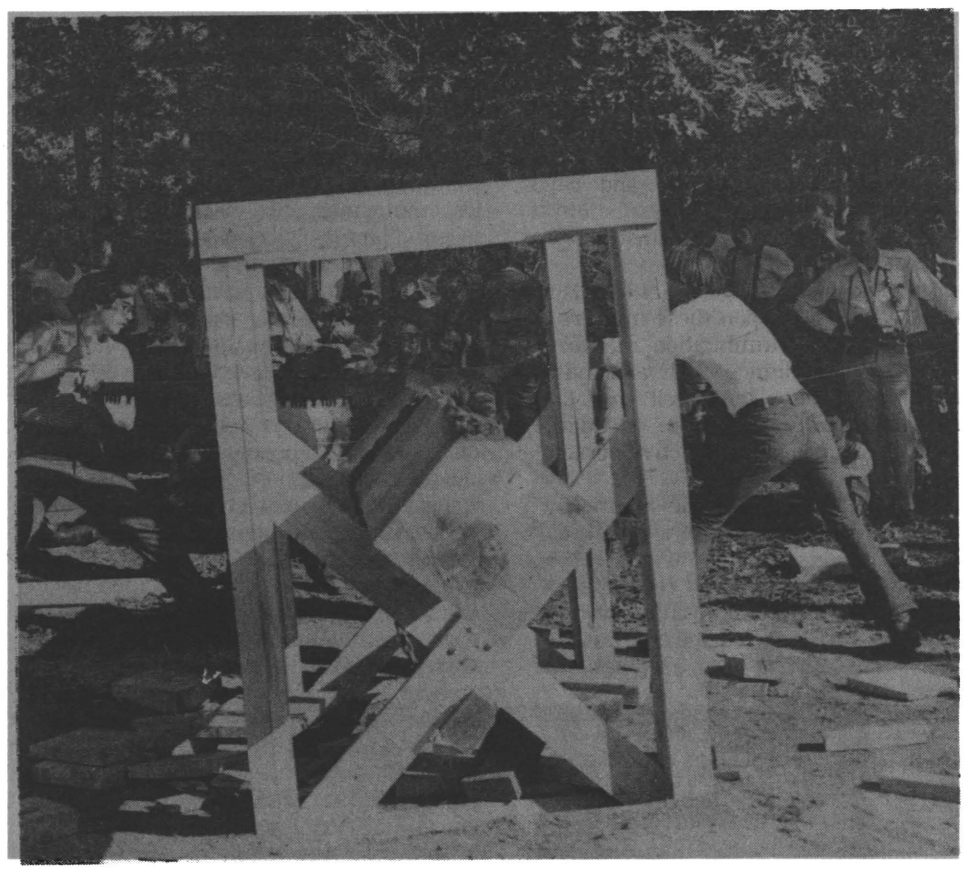
The occasion was the 22nd annual Midwestern Foresters' Conclave, hosted this year by the UMC Forestry Club.

Participating were forestry clubs from the universities of Missouri, Iowa State, Michigan, Purdue, Michigan Technological, Minnesota, Michigan State and Southern Illinois.

Some 160 students tried their hands at chopping, bolt throwing, match splitting, log rolling, pulp throwing, tobacco spitting, one- and two-man bucking, chain throwing, traversing, dendrology (the botanical study of trees) and canoe racing.

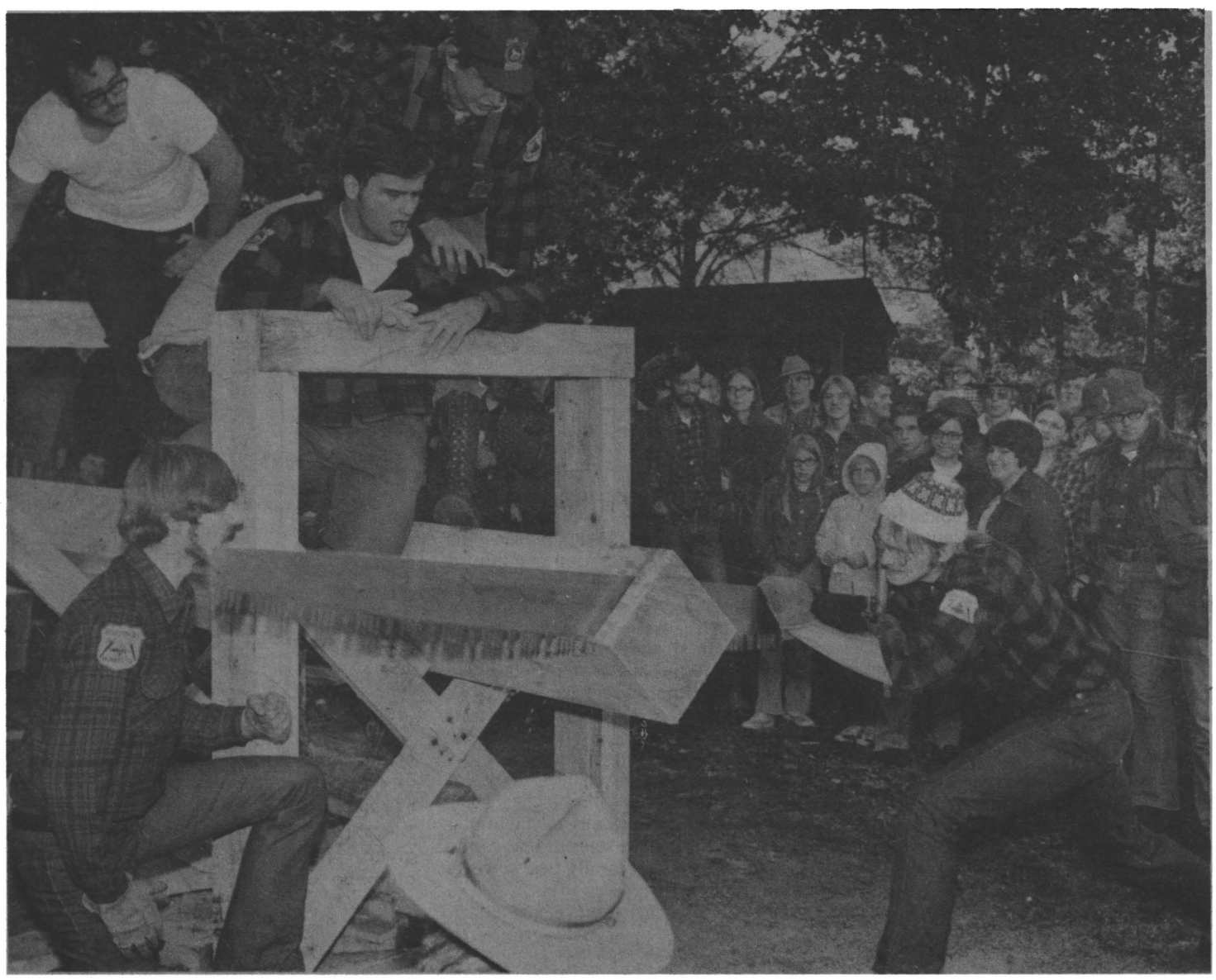
And when it was all over, the Missouri contestants had amassed a possible record high of 60 team points. The traveling trophy which they had won two years ago was theirs again.





PHOTOS BY CHARLES STACEY
SALEM POST

Above: bolt throw; right: two-man crosscut; below: one-man bucking.



Faculty Council Minutes

Minutes — Oct. 4

Visit of Dean Morgan and Professor David. Dean Morgan and Prof. David described the NSF financed co-operative program of the College of Engineering with other colleges in the State of Missouri. This program allows the transfer of students without the loss of credit to the College of Engineering. Considerable discussion of this program took place with particular reference to the "Articulation" proposals now before the Council.

University Assembly. Prof. Spencer moved, Prof. Utz seconded, that the members previously appointed for a one-year term be reappointed. Motion passed by voice vote without dissent. Implicit in this motion was the provision that the Executive Committee of the Council could appoint substitutes if any of the five members were unwilling to serve.

Faculty Responsibility Panel. Prof. Ross moved, Prof. Utz seconded, that last year's panel be reappointed. Motion passed by voice vote without dissent. Implicit in this motion was the provision that the Executive Committee could appoint substitutes if any of the members were unable to accept reappointment.

Letter to Divisional Policy Committees. A draft of a letter was agreed upon to all divisional policy committees requesting that, if not already undertaken, they should consider ways of involving faculty in divisional budget decisions. Also in the letter is to be a request for the appointment of faculty to the divisional faculty responsibility committees.

Discussion of Faculty Action at the Faculty Meeting of October 3. Following some discussion Prof. Miller moved, Prof. Storvic seconded, that the letter from the registrar, Dr. Smith, be referred to a subcommittee. Motion passed by voice vote without dissent.

Salaries. Discussion centered on cost of living versus merit increases. It was agreed that the general faculty should be polled to ascertain how they would prefer salary increases to be distributed.

Minutes — Oct. 18

Honorary Degrees. Following discussion Prof. Hunvald proposed, Prof. Evans seconded, the motion that a letter be written to the Honorary Degrees Committee explaining the Council's understanding of the Board action and that copies be sent to the Board through channels. The motion passed by voice vote without dissent. (A copy of the letter is reprinted below.)

Report on Board Metting. Professor Miller reported on action at the Board meeting of October 12. Professor Braisted proposed and Professor Bivens seconded the motion that the report be read into the minutes. The motion passed by voice vote without dissent.

Report on Athletic Opportunities. Prof. Miller, chairman of a special subcommittee appointed by the Council to report on athletic opportunities, presented the committee's report. Prof. Miller proposed, Prof. Engley seconded, that "the Council urges that all concerned take immediate action to plan and implement programs that will maximize recreational use of the athletic facilities of the Hearnes Multipurpose Building by members of the faculty, staff and students, said use to be scheduled so that to minimize disruption of inter-collegiate athletics. In particular, the Council urges that immediate plans be layed out for the use of the Hearnes facility during the period when Brewer Fieldhouse is closed for remodeling.

Prof. Spencer proposed, Prof. Storvic seconded, that the motion be amended to read "the Council urges Chancellor Schooling, M.R. Sheehan, Director of Inter-collegiate Athletics, A.C. Stotler, Director, Hearnes Multipurpose Building, the Policy Committee for the Hearnes Multipurpose Building and all others concerned take . . ."

The ammendment passed without dissent following which the original motion, as amended, passed by voice vote without dissent.

Report from Faculty Affairs Committee. Prof. Peden reported on the work of the Faculty Affairs Committee concerning a) library policy and b) articulation. Considerable discussion took place on both subjects.

Letter to Divisional Policy Committees. It was agreed that the Chairman should write to the Divisional Policy Committees concerning the Transfer of Credits policy and the Articulation matter.

Letter to Vice President Unklesbay. Prof. Miller proposed, Prof. Nauman seconded, that the letter drafted by the Chairman of the Council be sent to Vice President Unklesbay. The motion passed by voice without dissent. (The letter is reprinted below.)

October 22, 1973

To: Professor Fred McKinney, Chairman
Committee on Honorary Degrees
Subject: Board of Curators Prodecures on Honorary Degrees

As you know, the Board of Curators adopted a formal statement of procedures for the awarding of honorary degrees at its meeting on Oct. 12, 1973. Inasmuch as there has been considerable discussion and some controversy about honorary degrees regulations since last spring, the Faculty Council wishes to advise you of its understanding of the way these procedures will be followed in the future.

The official procedures are set out in University Regulation 8.0102.13 which provides:

> There shall be a faculty committee on each campus which shall solicit suggestions from all sources for honorary degree recipients. After preparing its recommendations the Committee shall present them to the Chancellor of the campus. The Chancellor will forward the recommendations to the President. The President shall informally consult the Board of Curators to see if there are objections to the list. This procedure is intended to avoid any embarrassment to all concerned and to avoid any duplication by campuses. Names of prospective recipients must reach the President's office no later than 1 February. After consulting the Board of Curators, the President shall return a list of acceptable nominees to the Chancellor for transmission to the faculty committee. The committee then makes formal recommendations to the faculty governing body. After final faculty action, the Chancellor transmits the list of nominees to the President and Board of Curators for final approval. Prior to public announcement by the President and the Chancellor, all matters relating to honorary degrees are treated as confidential.

Within these regulations, the statement that ". . . the President shall return a list of acceptable nominees . . ." is still open to different interpretations. For this reason, the Faculty Council has made an effort to determine its meaning. We have been informed by Chancellor Schooling and other reliable sources that a nominee submitted by the committee but not included on the list of acceptable candidates returned by the President may still be submitted by the committee to the Faculty vote and formal submission of the list of candidates, the final decision of the Board will be determined by regular procedures, i.e., a majority vote.

This interpretation is further supported by a letter from President Ratchford to Chancellor Schooling dated October 17, 1973, which includes these statements:

> If strong objections to a nominee are held by one or more members of the Board, that will be known under the procedure adopted and can be given consideration by the faculty in its formal recommendation of nominees to the Board . . . Nevertheless, it is my interpretation of our procedures that the faculty could present to the Board a nominee to which the Board had informally indicated objections.

We are confident that the committee will take the advice of the Board into consideration, as it would be concerned with information from other appropriate sources, in deciding which nominees to present to the Faculty for approval.

The second objection of the committee and others to the first draft of the new regulations concerned a prohibition against nominees who are in "political life." This restriction has been removed in the final draft of the adopted regulations.

Unless the Board disagrees with our present interpretations, the Council feels that these procedures will avoid the difficulties and misunderstandings that have occurred in the past. We wish to express our appreciation to the Board, President Ratchford, and Chancellor Schooling for their cooperation and good will in arriving at an acceptable solution to this matter.

Cordially yours,
Robert S. Daniel, Chairman
Faculty Council

cc. Board of Curators
President Ratchford
Chancellor Schooling.

To: Vice President Unklesbay
Subject: Transfer of credits policy

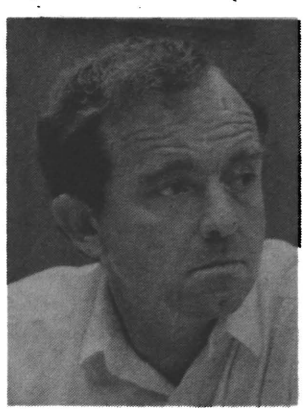
I am afraid I did not succeed in making clear my point in the ICFC meeting on the 16th. This matter seems very important to me in respect to the image of the University to our student clientele.

News reports like the one in the Maneater of the 16th will surely give many students a false idea of the true situation. Specifically, the statement says:

1. Students may freely transfer credits toward the same degree.

> We must not over-estimate the student's sophistication. The AB is the same degree to the student — how is he to know we mean the same degree program?

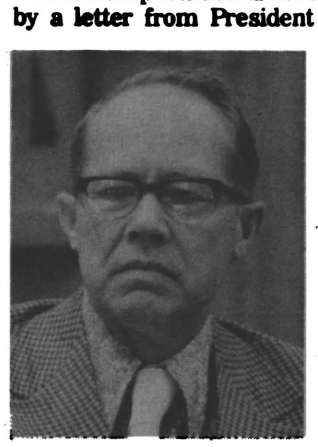
2. The grade point average will continue to cumulate in the student's record.



J. Charles Headley
Agriculture

William M. Wiecek
Arts and Science

Paul H. Braisted
Engineering



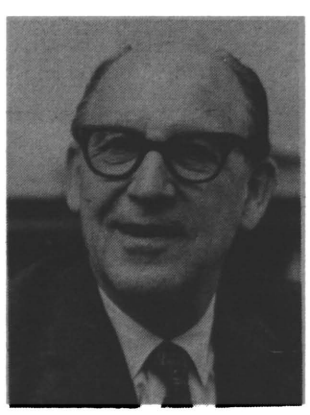
Roy W. Evans
Library and Informational Science

Benedict J. Campbell
Medicine

Frances C. Wurtz
Nursing

Frank B. Engley
Medicine

Coy G. McNabb
Extension



Harry Stoeckle
Medicine

Faculty Council Members

Nowhere is the student told that he must still meet the C-average requirement on the campus where he graduates. In fact, the wording in the official statement suggests just the opposite. Please note that the clarification statements prepared by the ICFC did not appear in the Board document.

I am frankly greatly concerned that if we do not clarify these points promptly, we may be accused of deceit. In addition, the UMC faculty approved these policy statements with the ICFC interpretation attached. Anything less than the qualified statement cannot be considered UMC approved.

Cordially yours,
Robert S. Daniel, Chairman
Faculty Council

cc. Chancellor Schooling
Dale Spencer
Roy Utz.

Minutes—Nov. 1

Visit of Provost McGowan. Provost McGowan traced the steps involved in producing the campus budget and also reviewed the current and 1974-75 asking budgets.

Report on the Budget by Professor Adair. Prof. Adair, one of the Council's representatives on the Campus Resources Council discussed some aspects of the budget. Prof. Adair presented two letters for the Council's consideration. Prof. Adair moved, Prof. Naumann seconded, that the letters be adopted. Following considerable discussion Prof. Miller moved, Prof. Murdock seconded, that the matter be tabled until next week. The motion passed by voice vote without dissent.

Report from the Committee on Resolution C. A report on behalf of Prof. Nauert, Chairman of the Committee on Resolution C, was presented to the Council. Prof. Naumann moved, Prof. Bivens seconded, that the report be adopted. A motion to table to allow consideration was proposed by Prof. Spencer, seconded by Prof. Miller. The motion passed by voice vote without dissent.

Report on Articulation. Prof. Peden presented a report on Articulation for consideration at the next meeting of the Council.

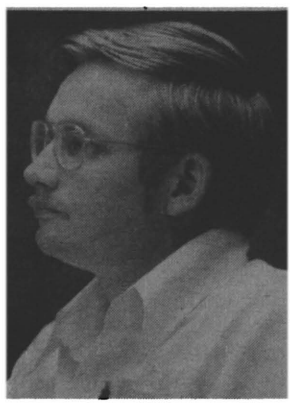
Minutes—Nov. 8

Announcements. A) Reply to enquiry from UMKC concerning retirement policy. (Letter reprinted below.)

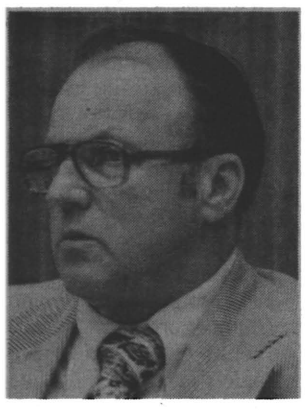
B) Prof. Holroyd will substitute for Prof. Hunvald at the board meeting on Nov. 16.

C) A report was presented of the meeting of the executive committee with the Chancellor.

Clarence V. Ross
Agriculture



Laurence W. Hedlund
Agriculture



A. Hugh Denney
Social and Community Services

Letter on Budget matters. Prof. Murdock moved, Prof. Storvic seconded, to take from the table a letter to the President concerning budget matters. Passed by voice vote without dissent. Following discussion it was voted without dissent to send the letter, as modified, to the President.

Prof. Adair moved, Prof. Bivens seconded, that the letter to the Chancellor be taken from the table. Passed by voice vote without dissent.

Following considerable discussion it was agreed that the letter, as modified, should be sent to the Chancellor. Passed by voice vote without dissent.

Resolution C. Prof. Storvic moved, Prof. Meisner seconded, that the report be taken from the table. Passed by voice vote without dissent.

After discussion and modification Prof. Spencer moved, Prof. Storvic seconded, that we accept as amended. Motion passed unanimously. The report is added to these minutes and is to be presented to the faculty for their consideration at the Dec. 12 meeting.

Articulation. Prof. Mauksch moved, Prof. Spencer seconded, that the Council go on record as opposing the COPHE articulation agreement as presently drafted. Passed by voice vote without dissent.

November 12, 1973

Dr. Wheadon Bloch, Chairman
University Senate
5315 Holmes
University of Missouri at
Kansas City
Kansas City, Missouri

Dear Wheadon:

I have discussed your letter of October 18, concerning faculty salaries and retirement credits, with Dr. Donald Holm, Chairman, Retirement and Staff Benefits Committee. Before I send this reply off to you, I will have him recheck my facts to be sure I am presenting the situation accurately.

The issue, as I understand it, is that a staff member on a regular nine month appointment is credited with only this base salary and any salary earned for summer teaching is not counted. Thus, a faculty member may be earning less retirement credit than he thinks he is earning, and more importantly, he is earning less than another faculty member who is on a twelve month appointment but whose total salary is the same.

Don tells me that this is essentially correct. Of course, the nine months person is also not paying his deduction on the summer salary nor is the University making its 8 per cent contribution. He went on to point out three important problems that would need attention should the system be changed.

1. A shift in policy would require a sizable amount of money from the University: approximately 8 per cent of $2 million annually in additional funds.

2. Inasmuch as the salary item in the retirement formula is (in most cases) only concerned with the last five years prior to retirement, it is possible that adding summer school salary would result in considerable pressure on departmental chairmen to favor faculty who are near retirement for summer appointments.

3. Actuarial data for the retirement funding are based upon predicted annual salary increments in the range of 3-5 per cent. If in any year the salary increment was 20-25 per cent, the whole estimates structure would have to be revamped, opening up the possibility of increased charges or decreased benefits.

Don tells me that this problem has been discussed from time to time, but no action has been taken in view of the problems outlined above.

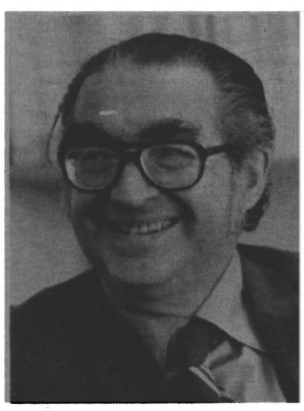
Our Council discussed the matter briefly in its meeting on November 8 and there was considerable interest in following it up by committee study. We would welcome an intercampus cooperative effort.

Our Council voted favorably on the round-robin exchange of meeting minutes with the other campus faculty groups. I will send the collection of our minutes since September 1 just as soon as my secretary can collate them.

See you on the 28th.

Cordially,

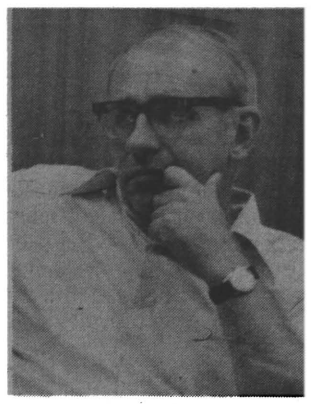
Robert S. Daniel, Chairman, UMC
Faculty Council on University Policy



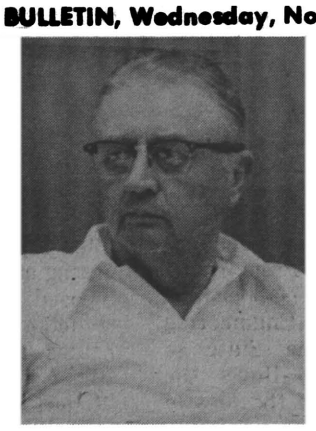
Hans O. Mauksch
Arts and Science

W. Roy Utz
Arts and Science

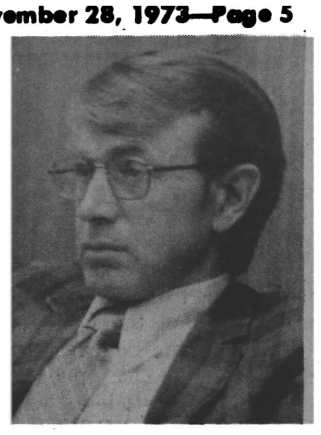
Louis A. Corwin Jr.
Veterinary Medicine



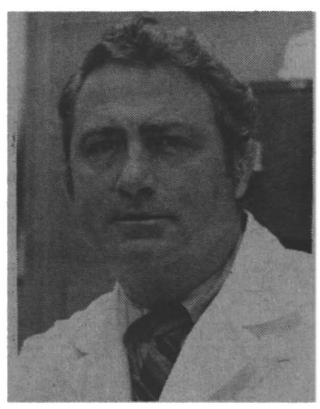
Louis V. Holyroyd
Arts and Science



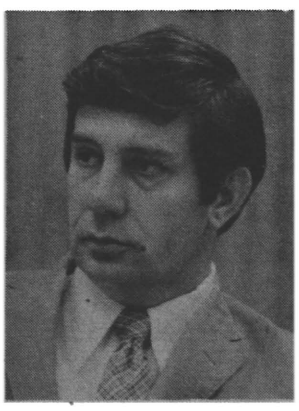
Frank E. Wellman
Education



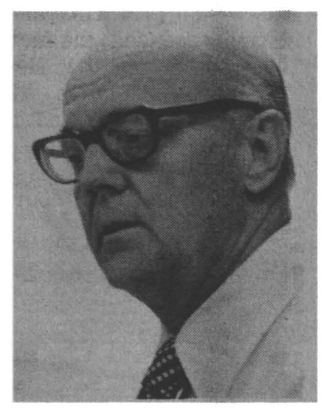
Dale R. Spencer
Journalism



Thomas W. Burns
Medicine



Robert D. Schooler
Administration and Public Affairs



John M. Murdock
Administration and Public Affairs

Resolution No. 3

University of Missouri-Columbia
Advisory Committee on Resolution No. 3

Report to the Faculty Council on University Policy

Adopted by the Council on November 8, 1973 and recommended for consideration by the Faculty in its meeting of December 12, 1973.

Whereas the Faculty feels grave concern about the continuing transfer of control over educational policy from the Faculty into the hands of a central University-wide administration which does not face the responsibility of carrying out the policies adopted;

Whereas this central administration constantly grows in size and cost at the expense of the University's primary functions of teaching and research;

Whereas the central administration has made repeated direct interventions into the internal operation of the campuses rather than confining itself to a role of coordination; and

Whereas the University budget, at both the asking stage and at the administrative stage after appropriation, has been kept so secret and has become so complex and ambiguous that neither the public nor the Faculty can understand how the University really spends its funds;

BE IT RESOLVED BY THE FACULTY OF THE UNIVERSITY OF MISSOURI-COLUMBIA:

1. That a University Governance Commission independent of the central administration should be appointed by the Board of Curators, on nomination by the Intercampus Faculty Council;

2. That this University Governance Commission should be headed by a distinguished scholar having responsible administrative experience at a major university but having no prior affiliation with the University of Missouri; and

3. That this University Governance Commission should make a critical assessment of the administrative structure of the University of Missouri and of its impact on educational policy, and should communicate its report and recommendations simultaneously to the Board, the Faculties, and the people of Missouri.

Action vs. Tenure

(Continued from Page 2)

minorities and women, external authorities will undoubtedly order the system revised or even eliminated.

Thus, while academicians discuss the merits of tenure and eminent commissions walk a tightrope to consensus, the courts may dramatically end the debate. It would not be the first time the courts, prodded by minority groups, interceded to overhaul educational practices. The most noteworthy casualty was segregation.

Tenure may be next.

Graduate School and Research Notes

COMPUTER SYSTEM AVAILABLE — The Division of Research Resources, National Institutes of Health, is accepting applications from pharmacology, toxicology, and medicinal chemistry researchers who would like to become users of the PROPHET computer system. It is a nationwide computer resource established exclusively to serve scientists studying chemical-biological interrelationships. The system, now in its second year of operation, has been undergoing a period of evaluation and refinement with the cooperation of six terminal users located mainly in the Northwest. It consists of a large centralized research computer system accessible via remote graphic display terminals from anywhere in the continental U.S. By making a powerful computer-based information handling methods available to individual investigators, PROPHET has enabled researchers to save hours, and sometimes days, of tedious data work. Deadline for review of applications is Jan. 15. For additional information and application forms, contact: Mrs. Lillian Golovin, Chemical-Biological Information-Handling Program, Division of Research Resources, Building 31, Room 5B25, National Institutes of Health, Bethesda, Md. 20014, telephone 301-496-5468.

FUND FOR IMPROVEMENT OF SECONDARY EDUCATION — We have received the revised guidelines for this program. The deadline for submission of preliminary proposals is Dec. 15, with Jan. 15 the deadline for submission of formal proposals.

NSF INTERGOVERNMENTAL SCIENCE PROGRAMS — Guidelines for preparing proposals to conduct research to develop new and improved institutions and activities for the systematic application of science and technology to state and local governmental problems have been published by the National Science Foundation. Activities that may be considered for support include: development and demonstration of new mechanisms, manpower and education programs; technology assessment and forecasting studies; research utilization and information transfer; and exploratory studies to help develop science and technology policies for state and local government programs. There is no deadline for submission. For information write: Office of Intergovernmental Science and Research Utilization, Research Applications Directorate, National Science Foundation, Washington, D.C. 20550.

DECISION RELATED LOCAL GOVERNMENT RESEARCH — The National Science Foundation has issued guidelines for preparing proposals to support applied research focused on increasing the effectiveness of policies, programs, and management for dealing with problems of local governments. The Foundation will consider proposals in service measurement, service pricing and urban development, and capital planning and budgeting. The proposals should seek knowledge needed to improve the delivery of local government services by evaluating alternative policies and foster extensive use of validated alternatives among local governments. All proposals must be received by Jan. 24. This is program solicitation 73-27 available from Mrs. McQuary or the Division of Social Systems and Human Resources of the Research Applications Directorate, National Science Foundation, Washington, D.C. 20550.

NLM SPECIAL PROJECTS PROGRAM — Special Scientific Projects, a grant program administered by the National Library of Medicine, National Institutes of Health, encourages the scholarly exploration of the total effects upon society stemming from advances in the health sciences. Awards provide salary, travel, and other necessary assistance for scholars to conduct the necessary bibliographical and historical research in preparation of comprehensive treatises in their area of specialty. Recipients are expected to be able to devote essentially full time to the project. The next deadlines for applications are Feb. 1 and June 1, with final review in June and November, respectively. Potential applicants should first prepare a brief statement on the nature of the proposed project to be sent to the: Division of Biomedical Information Support, Extramural Programs, National Library of Medicine, 8600 Rockville Pike, Bethesda, Md. 20014.

D of L RESEARCH AWARDS — The Department of Labor has established Dec. 31 as the next deadline date for receipt of proposals under the Manpower Development and Training Act. Grants are awarded for a) exploratory manpower research, b) development of new methodology for current manpower programs, c) feasibility studies of current research programs and projects, and d) synthesis of current information which will provide guidelines for future manpower programs. Grants of up to $15,000 per year for a one-year period are awarded for the direct costs of a program. Projects may be scheduled for up to three years, subject to the availability of funds. Contact: Office of Research and Development, Department of Manpower Administration, U.S. Department of Labor, Washington, D.C. 20210.

CHILD ABUSE AND NEGLECT PROGRAMS — The Department of Health, Education and Welfare, through the Office of Human Development and under the leadership of the Office of Child Development is beginning a new demonstration program aimed at the creation and development of innovative approaches to the problem of child abuse and neglect at the local and-or state level. This demonstration program is being jointly funded by the Office of Child Development, Social and Rehabilitation Service, Health Services and Mental Health Administration, and the Office of Education. Demonstrations should be concerned with the integrated and coordinated delivery of services to those families in which an incident of child abuse and neglect has occurred. The objectives of the child abuse and neglect research and demonstration program include the following: 1) To assist the local communities and states in developing public awareness of the problem of child abuse and neglect; 2) To educate community members in the detection, prevention, protection and care of the abused-neglected child and family; 3) To provide for the development of a systematic and integrated approach to the delivery of services to abused and neglected children and their families. The DHEW is interested in determining the feasibility of such efforts under a variety of agency auspices and locations. Depending upon the range and quality of the applications received, it is the intent of the Department to fund projects at state, county, and local levels. The anticipated average grant will be $150,000 and smaller grants are encouraged. For further information contact: Office of Child Development, Division of Research and Evaluation, Department of Health, Education and Welfare, P.O. Box 1182, Washington, D.C. 20013.

APA RESEARCH AWARDS — The Division of Consulting Psychology of the American Psychological Association has announced its eighth annual award for the "most fruitful completed research concerned with problems of special interest to the Division." This would include "studies of planned change or program development, the systematic use of case material for investigating interpersonal relations, consultation roles and process, and the selection and training of consultants." The report to be submitted should cover the problem investigated, the methodology, the findings, and the implications of the findings. A 300 to 500 word abstract should accompany each report. Past winners have included research on police-community relations, motivation in industry, automated student counseling, and teacher expectations. Other areas of interest are crime, drug addiction, military problems, student unrest, education of the disadvantaged, and international negotiations. To be eligible, applications must be submitted by March 15. For further information write: H. Meltzer, Research Awards Chairman, APA Division 13, 4510 Maryland Avenue, St. Louis, Mo. 63108.

SSRC INTER-AMERICAN RESEARCH TRAINING SEMINARS — The Social Science Research Council has set a deadline date of Jan. 15 for fellowships offered at two eight-week seminars held in Latin America or the United States during June through August, 1974. These seminars provide young scholars with intensive training in new substantive areas of research, methods of analysis, and project design for future research on Latin America or the Caribbean. Eligible are graduate students and junior faculty members trained in disciplines relevant to the subject of each seminar and possessing a working knowledge of Portuguese or Spanish. Full or partial fellowships for travel and monthly maintenance are available. Contact: Social Science Research Council Fellowships, Office of Fellowships and Grants, 110 E. 59th Street, New York, N.Y. 10022.

NEA VISUAL ARTS PROGRAM — Grant application deadlines and funding categories for the National Endowment for the Arts' fiscal 1974 Visual Arts Program have been published by the Endowment. The Program is designed to provide assistance for individual artists, commissioning and placement of art works in public places, short-term residences for artists in educational and cultural institutions, and workshops and short-term activities. Program and application deadlines are noted below:

Workshops	Nov. 15
Fellowships for artists	Nov. 30
Fellowships for craftsmen	Dec. 15
Works of art in public places	Jan. 1
Photography exhibitions	Jan. 15
6-mo. awards, younger artists	Feb. 1
Visual arts in the performing arts	Feb. 15
Fellowships for photographers	May 30
Arts critics fellowships	July 1

Artists, photographers, critics, and craftsmen in residence program; Artists services — no specific deadline.

For further information and application forms, write: Visual Arts Program, National Endowment for the Humanities, Washington, D.C. 20506; telephone (202) 382-7086.

SOME OTHER UPCOMING DEADLINES

NSF Solar energy research	Nov. 28
Exxon Education Foundation educational R&D	Dec. 1
NSF Student Orientated Programs	Dec. 7
ACLS postdoctoral research fellowships	Dec. 31
Swedish Medical Council postdoctoral fellowships	Jan 1
American Assoc. of University Women dissertation grants	Jan. 2

(For further information on any of the above programs, call Mrs. Carol McQuary, Graduate School, 882-6311)

List of Open Positions Released by Provost

Following is a list of academic positions approved for recruitment at the University of Missouri-Columbia, as released by the office of the Provost for Academic Affairs. Provost Owen J. Koeppe indicated the list may be incomplete. Anyone knowing of additional academic openings should contact his office.

Professor, accountancy; associate professor, agricultural engineering; assistant or associate professor, agronomy; assistant professor, agricultural economics (consumer information); assistant or associate professor, forestry; instructor, forestry; associate professor, history; professor, computer science; assistant professor, computer science and systems analyst; assistant professor, biological sciences; assistant professor, art history and archaelogy; assistant professor, geology; assistant professor, anthropology; assistant professor, English; assistant professor, French; assistant professor, Russian; assistant professor, German; assistant professor, food service and lodging management; professor, housing and interior design; associate professor, veterinary pathology; assistant professor, veterinary microbiology; associate professor, veterinary physiology and pharmacology; assistant professor, veterinary physiology and pharmacology; professor, veterinary physiology and pharmacology; associate professor, veterinary medicine and surgery; associate professor, veterinary microbiology; associate professor, housing and interior design and state housing specialist; instructor, law enforcement extension; associate professor, extension education (youth and 4-H); state extension youth specialist; associate professor, family economics and management, and state family economics and management specialist; instructor, recreation and park administration; instructor, civil preparedness program; instructor, police science; assistant professor and social work extension specialist; associate professor, clothing and textiles; assistant, associate or full professor, food and nutrition; assistant professor, sociology.

Honorary Degree Recipients: Committee Seeks Nominees

The Campus Committee on Honorary Degrees is preparing to meet soon to select candidates for honorary degrees to be conferred in May. The committee invites all members of the faculty and administration to submit names of candidates as soon as possible since decisions must be made within a few weeks.

Using guidelines for selection, the committee will choose several to recommend for the honor.

Persons nominated should be:

- Graduates or former students who have achieved distinction;
- Persons not necessarily associated with the University or the State of Missouri, from this country or abroad, who have achieved high distinction;
- Those who have rendered distinctive service to the State;
- Those who have rendered distinctive service to the University.

Honorary degrees may not be awarded to active or retired members of the University faculty or staff.

Recommendation of a candidate should include a vita or summary of the individual's accomplishments. Letters may also be solicited and included from those who are acquainted with the person nominated.

Names and supporting information should be sent to Fred McKinney, committee chairman, 213 McAlester Hall.

Faculty Footnotes

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

Robert Paterson, dean, has been appointed chairman of the committee on research, statistics and publications of the American Assembly of Collegiate Schools of Business, the official accrediting agency of collegiate business schools in the United States.

Dean Paterson also participated in the August meeting of the Committee on Socioeconomic Environmental Factors in Highway Development, held in Denver. The committee was formed by the National Academy of Sciences, Highway Research Board, in 1964 and Dean Paterson is serving a second five-year term as a member.

Raymond W. Lansford, professor of finance and CAPA placement director, was chairman of the annual convention of the Midwest College Placement Association, held in Kansas City in September. Jack Morgan, assistant dean of engineering, and Robert W. Haverfield, professor of journalism, also UMC placement directors, were members of the planning committee.

Floyd K. Harmston, professor of economics, was elected vice-chairman and program chairman for the Mid-Continent Research and Development Council at a meeting of the National Forum on Growth with Environmental Quality in Tulsa, Okla.

Donald R. Webb, professor of marketing, was coordinator of a marketing management institute aimed at savings marketers, held at Lake Ozark in August. The conference was sponsored by UMC and the Savings Institutions Marketing Society of America.

Robert F. Karsch, professor of political science, has been named by Governor Bond to a Citizens Committee on Reorganization, consisting of about 100 persons who will advise the Governor regarding the management and supervisory aspects of reorganization (as distrinct from the location of functions among the constitutionally established departments of state government).

Donald L. Shawver, professor of marketing, has been appointed to the resident faculty of the American Marketing Association's Doctoral Consortium, 1973.

Professor Shawver has also been named Book Review Editor for the **Journal of Marketing**.

Robert D. Schooler, professor of marketing, has been appointed by Governor Bond to a special Missouri task force for the development of international business.

Professor Schooler has also been named to the Editorial Review Board for the **Journal of Marketing**.

Kenneth J. Roering, assistant professor of marketing, has won first place for his dissertation, the 1973 American Marketing Association's Doctoral Dissertation Competition Committee has announced.

Faculty members of the Department of Statistics attended meetings of the Institute of Mathematical Statistics at Iowa City, Iowa in October. **Richard L. Dykstra** and **John E. Hewett**, both associate professors, each chaired a session. The following papers were presented: **Richard L. Dykstra**, "Inequalities in the normal distribution"; **John Hewett, William Bulgren** and **Richard Dykstra**, "A bivariate t-distribution with applications"; **John D. Spurrier** and **John E. Hewett**, "Double sample tests for means of normal populations."

Stanley Johnson, chairman of economics, has been appointed by Governor Bond to serve on the Economic Advisory Committee, to examine whether existing state statutes, in the light of present economic conditions, are a hindrance to development.

Richard Wallace, assistant dean for research, has been appointed to the Advisory Council for Comprehensive Health Planning by Governor Bond.

Pinkney C. Walker, professor of economics, addressed a joint meeting of the Southern Economic Association and the Southern Finance Association Nov. 9 in Houston, Texas. His speech was entitled, "New Initiatives in Solving the Energy Problem."

COLLEGE OF AGRICULTURE

Earl M. Kroth, associate professor of agronomy, has been honored by the Joplin Rotary Club and Chamber of Commerce for his research work at UMC's Southwest Missouri Center, near Mt. Vernon, directed at maximizing returns from fescue.

J. E. Savage, chairman of poultry science, was elected president of the Poultry Science Association at its annual meeting at South Dakota State University, Brookings, Aug. 6-10.

Glenn Geiger, state poultry extension specialist, has been appointed a member of the Committee for Youth Activities at the XV World's Poultry Congress which will be held in New Orleans, August 11-16, 1974.

Maurice R. Gebhardt, associate professor of agricultural engineering, has received the first Young Agricultural Engineer of the Year Award from the Missouri section of the American Society of Agricultural Engineers.

Kenneth L. McFate, associate professor of agricultural engineering, has had his appointment to chairmanship of the Standards Committee of the American Society of Agricultural Engineers extended through June 1975 by ASAE President Kelly.

COLLEGE OF ARTS AND SCIENCE

Norman Rabjohn, professor of chemistry, has been nominated as a regional director of the American Chemical Society.

A. E. Schroeder, professor of German, presented a paper at the annual conference of the American Folklore Society, Nov. 4 in Nashville, entitled, "Karl Becker: Content, Intent, and Method."

Luverne Walton, chairman of Germanic and Slavic Languages, participated in a panel on the "Future of Foreign Language Study in Missouri" at the meeting of the Foreign Language Association of Missouri, Nov. 9 in St. Louis.

James M. Burk, associate professor of music, served as parliamentarian at the diamond anniversary National Assembly of Phi Mu Alpha-Sinfonia at Interlochen, Mich., in July.

Burk also has been selected to serve a second three-year term as Governor of Province 19 (Missouri) for Phi Mu Alpha-Sinfonia.

William C. Wilcox, chairman of philosophy, has been elected president of the Missouri State Philosophical Association.

Donald O. Cowgill, professor of sociology, gave the first in a series of lectures on aging, sponsored by the Scripps Foundation Gerontology Center, Miami University, Oxford, Ohio, Nov. 15-16.

Cowgill also gave two lectures at Oklahoma State University on Oct. 29. He was the lead-off speaker at a state workshop on aging and later addressed faculty and students on the subject of aging and modernization.

Barton L. Griffith, professor of speech and coordinator of the office of instructional design, spoke at the National Conference of Education Technology Applied to Higher Education, held in Brazil Oct. 14-19. Enroute he stopped in Lima for consultations with the Peruvian Development Foundation, the center for tele-education at project of Peru, Chile and Bolivia.

Margaret S. Peden and **Edward J. Mullen**, both associate professors of Spanish, participated in the XVI Congreso del Instituto de Literatura Iberoamericana in East Lansing, Mich., Aug. 27-31. Both presented papers.

Mrs. Peden also read a paper this summer at the University of California at Los Angeles, at a program sponsored by the Centro Latinoamericano and the Department of Spanish and Portuguese. The paper was entitled, "Theatre as an instrument of education in Latin America: Warning and Prophecy."

The Summer Theatre Workshop of Southwest Texas State University presented **The Clockmaker from Cordoba**, in a premier performance of the English translation by Margaret S. Peden.

Eric Rutherford, associate professor of art, is displaying a screen print entitled "Sunset Prince Edward Island" in the Eight State Print Exhibition in the J. B. Speed Museum gallery in Louisville, Ky.

Three silk-screen prints or serigraphs recently completed by **Lawrence Rugolo**, chairman of the art department, have been accepted in competitive and juried art exhibitions. "Potted Flower," the print which won first place in the 1973 Missouri State Fair Professional Art Exhibit, Graphics Division, was also shown at the 43rd Annual Exhibition at the Springfield Art Museum. Rugolo's "Rosemary's Flower" is on exhibit at the J. B Speed Art Museum, Louisville, Ky., in the Eight-State Print Exhibition. A third of Rugolo's prints, "A Time, A Place," will be included in an exhibit entitled "Synthetic Color" to be shown at the Mitchell Gallery at Southern Illinois University at Carbondale next spring.

Four papers by members of the faculty, Division of Biological Sciences, were presented at the National Meeting of the American Society for Cell Biology, Miami Beach, Fla., Nov. 14-17. Authors of the articles were: **William f. Sheridan, Richard J. Wang, James Stoien** and **Frederick Landa**.

Another five papers were presented at the International Genetics Congress, Berkeley, Calif., during August. Authors were: **Allan G. Burdick, B. L. Libbus, V. Athanassiou, A. M. Hsu-Chen, E. H. Coe Jr., M. G. Neuffer, W. Y. Wang, C. S. Gowans, G. Yoakum**, and **Abraham Eisenstark**.

William C. Wilcox, chairman of philosophy, was elected president of the Missouri State Philosophical Association at a meeting in Rolla. Also at the meeting, **John H. Kultgen Jr.**, professor, was the invited commentator on a paper and **Donald Sievert**, associate professor, read a paper entitled, "Descartes' Self Doubt."

Sievert also was on the program at the Hume Conference, held Nov. 9-10 at Northern Illinois University, De Kalb, and will speak at the December meetings of the Eastern Division of the American Philosophical Association.

Arthur Berndtson, professor of philosophy, was the commentator on a paper read at the meeting of the American Society of Aesthetics, Oct. 17-20 in Fairfield, Conn.

Joseph Bien, associate professor of philosophy, attended the annual meeting of the Society for Phenomenology and Existential Philosophy at Boston University to be on a panel which formed a new group to study the relations between phenomenology and the social sciences.

Keum H. Lee, associate professor of physics, and **Henry W. White**, assistant professor, presented two papers at the International Conference on Thermal Conductivity Nov. 5-8 at Lake Ozark.

Brian DeFacio, associate professor of physics, presented a paper at the national Nuclear Physics Section Meeting of the American Physical Society, Nov. 1-3 at Indiana University in Bloomington.

DeFacio also gave the Physics Department Seminar at Iowa State University in Ames, Iowa, on Oct. 18, entitled "Old and New Results in Perturbation Theory."

Paul W. Schmidt, professor of physics, presented an invited lecture at the National Bureau of Stnadards in Washington D. C. Nov. 9. He also presented a paper Nov. 8 at the Pittsburgh (Pa.) Diffraction Conference with **C. R. Von Bastian** and **J. S. Lin**.

Five members of the physics faculty attended the annual Midwest Solid State Conference, Oct. 12-13 at Oklahoma State University. They included: **David L. Cowan**, assistant professor; **Eugene B. Hensley**, professor; **Louis V. Holroyd**, chairman; **Keum H. Lee**, associate professor, and **Henry W. White**, assistant professor. Cowan, Lee and White were among those contributing papers to the conference.

Charles B. Dew, professor of history, was awarded the first fellowship-in-residence at the Robert Starobin Memorial Library, Hancock, Mass., and, with the assistance of a grant-in-aid from the American Council of Learned Societies, spent the summer months at the Library working on a study of industrial slavery in the Old South. His paper dealing with one aspect of this research, "Disciplining Slave Iron Workers in the Antebellum South: Coercion, Conciliation, and Accommodation," was presented at the annual meeting of the Organization of American Historians in Chicago in April.

Thomas B. Alexander, professor of history, was elected to a three-year term as a member of the Board of Editors of the **Journal of American History**, beginning in March 1973. In January 1973, he began a three-year term as elected member of the Executive Council of the Southern Historical Association. And in June 1973, he was an invited participant and commentator at a three-day conference seminar at Cornell University on Aggregate Voting Behavior. This conference was one of a series sponsored by the Mathematics Social Science Board of the National Science Foundation to encourage quantitative approaches to historical study.

Richard Bienvenu, associate professor of history, delivered an address on "The Enlightenment and the Spirit of Revolution" at a symposium devoted to "France and America: The Revolutionary Experience," held at the University of Southwestern Louisiana in March.

Selwyn K. Troen, assistant professor of history, has been appointed to the membership committee of the Organization of American Historians for 1973-74.

Charles F. Mullett, professor emeritus of history, has returned from Drew University, Madison, N. J., where he held the Aquinas Distinguished Professorship for the year 1972-73. While there he also helped design an interdisciplinary program for the Ph.D. He delivered lectures at Union College, Seton Hall University and Temple University, presented a paper at an Eighteenth Century Symposium at McMaster University, Hamilton, Ontario, and chaired the Conference of British Studies spring meeting in New York.

Several chemistry faculty members attended the annual meeting of the American Chemical Society in Chicago, Aug. 26-31. Among those presenting papers were: **Anthony M. Dean**, assistant professor; **David E. Troutner**, department chairman; **John M. Malin**, visiting assistant professor; and **Stanley E. Manahan**, associate professor. Troutner chaired one of the technical sessions organized and presided at a Symposium on Education in Chemistry of the Aqueous Environment.

COLLEGE OF EDUCATION

Jo Behymer, instructor in education, attended the 28th Bienniel Council of Pi Lambda Theta, an international honor and professional association for women in education, in Claremont, Calif. Mrs. Behymer is past president of the association's Alpha chapter at UMC.

Douglas A. Grouws, assistant professor of mathematics education, gave two invited addresses at the summer meeting of the National Council of Teachers of Mathematics. One speech was on mathematical relations and the other was on the role of open sentences in the school mathematics curriculum.

Neil C. Aslin, chairman of educational administration, formally opened the workshop held Sept. 25 in Columbia by the Missouri State Committee of the North Central Association of Colleges and Secondary Schools. Dr. Aslin is state chairman of the accrediting association.

Carl C. Fehrle, professor of education, spoke at the annual meeting of the National Council for the Social Studies Nov. 20-21 in San Francisco. Fehrle, who is directing the Missouri program to expand knowledge of law, spoke on how state resources can be used to implement law-related education in elementary and secondary schools.

COLLEGE OF ENGINEERING

William R. Kimel, dean, attended the annual meeting of the American Nuclear Society Nov. 12-15 in San Francisco and the Mid America State Universities Association dean's conference Nov. 16 in Kansas City. Dean Kimel was chairman of the ANS planning committee meeting and chairman of the ANS nuclear engineering department chairmen meeting.

Robert M. Eastman, professor of industrial engineering, has been elected secretary-treasurer of the International Division of the American Society for Engineering Education. He also has been appointed to the ad hoc metric study committee of the society.

C. Leon Partain, associate professor of nuclear and electrical engineering, has been granted a $2,000 scholarship from the Cecil M. Hayes Scholarship Fund. Partain is on leave while enrolled at the Washington University medical school, where he is specializing in nuclear medicine.

Gordon Moore, associate professor of mechanical and aerospace engineering, has been elected president of the newly-formed Mizzou Astronomy Club.

The College sponsored a 30-hour seminar on the Time Division Multiplex (TDM) system Oct. 1-5 at Air Force Communications Service headquarters, Richards-Gebaur Air Force Base. Instructors for the seminar were: **Samuel J. Dwyer, Frank Mathur, J. Chang, William McFarland, Wes Sherman**, and **Glenn Staats**.

COLLEGE OF HOME ECONOMICS

C. Bud Kaufmann, professor of housing and interior design, has been appointed to the Graduate School Standards Development Committee of the Foundation for Interior Design Education Research.

In addition, Kaufmann was invited by the American Friends of Attingham to attend the Attingham Summer School Trust during his summer sabbatical in England.

Elinor Nugent, chairman of clothing and textiles, was secretary of the planning council and coordinator of a research session for the annual meeting of the Central Region of the Association of College Professors of Textiles and Clothing Oct. 17-19 in Kansas City.

Nutrition and dietetics faculty and staff presented papers at the annual national meeting of the American Dietetic Association Oct. 22-26 in Denver. They included: **Aimee Moore**, department chairman; **Marian Spears**, educational director for food systems management; **Margaret Flynn**, research nutritionist; **Loretta Hoover**, administrative research dietitian; and **Peter Beyer**, head clinical dietitian.

SCHOOL OF LAW

William F. Fatcher, R.B. Price Distinguished Professor of Law, served as a member of the faculty of the Third National Conference on the Uniform Probate Code Oct. 12-13 in Kansas City. He spoke on "Protection for Persons and Property of Minors and Disabled Adults."

Frederick B. Davis, professor, participated on a task force at the new Center for Administrative Law at George Washington University in Washington Sept. 28-30. Davis is a member of the center's board of directors and was instrumental in helping it get established in 1972 through the American Bar Association.

SCHOOL OF LIBRARY AND INFORMATIONAL SCIENCE

Edward Carroll, professor of library science, represented the Missouri Association of College and Research Libraries Division of the Missouri Library Association (MLA) on a panel at MLA's annual meeting Sept. 27-28 in Columbia. **Margaret Howell**, head of the Library Science Library, and **Sharon Willis**, instructor in library science, were on the planning committee for the meeting.

SCHOOL OF MEDICINE

Richard H. Martin and **Brent M. Parker**, both professors of medicine in the division of cardiology, were members of the faculty of the Great Plains Heart Association workshop in Kansas City Sept. 20-22. Parker moderated a special panel discussion on the use of small group discussions as a method of continuing education.

Gwilym S. Lodwick, chairman of radiology, and James Lehr, assistant professor, participated in the International Congress of Radiology in Madrid, Oct. 13-21. Lodwick, who is a member of the executive committee of the organization, conducted a seminar on the current state of computer-assisted diagnosis of disease in the United States. Lehr conducted a symposium on automated image analysis.

Lodwick also participated in a seminar on radiology of the skeletal system in November in St. Louis.

Arnold A. White, associate professor of biochemistry and investigator, Dalton Research Center, has been invited to be a participant in the International Conference on Cyclic AMP, July 8-11, 1974, in Vancouver, sponsored by the University of British Columbia. The title of White's presentation is "Studies on Guanylate Cyclase Activity in Heart and Lung."

Calvin Woodruff, professor of pediatrics, conducted a course on the etiology and treatment of iron deficiency anemia in children at a meeting of the American Academy of Pediatrics in Chicago, Oct. 22-23.

Marie L. Verbeck, associate professor of pathology, presented a paper at the Symposium on Mycardial Cell Damage at the annual meeting of the International Study Group for Research in Cardiac Metabolism at Freiburg

The paper, "Membrane phospholipid metabolism in the isoproterenol-induced cardiomyopathy of the rat," was co-authored also by **Arlene P. Martin**, associate professor of pathology, and **E.F. Malewski**, student.

Leonard R. Forte, assistant professor of pharmacology, has attended several professional meetings in recent months. He was elected to membership in the American Society of Pharmacology and Experimental Therapeutics at the annual meeting, held in August at Michigan State University, East Lansing. Forte was a visiting professor and presented a seminar at the Department of Pharmacology of the Medical College of Georgia, Augusta, in August.

In addition, Forte attended the Biological Transport Group meeting, held in June at Lake Cumberland, Kentucky, and presented a paper entitled, "Kidney Membrane Cyclic Amp-Dependent Protein Kinase." He was also invited to be a participant in the La Jolla Summer Workshop on Molecular Techniques in Developmental Biology, sponsored by the University of San Diego.

Frank B. Engley Jr., chairman of microbiology, has participated in a number of meetings recently. During October he presented lectures at these places: an infection control program in Anaheim, Calif.; a regional medical technology meeting in Omaha, Neb.; an infection control program in Milwaukee; and the Society of Pharmacists in Industry meeting in St. Louis.

During September, Engley spoke in Detroit at a conference on infection control in hospitals; in Atlanta, Ga. at the Public Health Center for Disease Control; and in Washington D.C. at a meeting of the Food and Drug Administration.

In addition, he presented two lectures at the American Health Congress in Chicago in August and gave three speeches in the Los Angeles area — at Loma Linda Hospital at Rancho dos Adigos Hospital and at the Southern California Inter-Hospital meeting.

SCHOOL OF SOCIAL AND COMMUNITY SERVICES

J.F.X. Paiva, director of social work, was one of 10 international experts invited to establish guidelines for United Nations social welfare policy and planning. He was invited as rapporteur and participant in the Sept. 10-19 meeting at the U.N. by Helvi Sipila, U.N. assistant secretary-general, Center for Social Development and Humanitarian Affairs.

SCHOOL OF NURSING

Ingeborg G. Mauksch, nurse practitioner and associate professor of community health, was cited at the Centennial Celebration of the Massachusetts General Hospital School of Nursing, Boston, for "her contribution to nursing education and nursing research." The award was among 13 made at the Sept. 29 celebration.

She also keynoted the Ohio Nurses' Association Convention, Oct. 7 in Columbus, and addressed Sigma Theta Tau, National Honor Society of Nursing, at the organization's 50th anniversary banquet, Oct. 24 in Indianapolis.

SCHOOL OF VETERINARY MEDICINE

Esther Brown, professor of veterinary anatomy, has been appointed Director of Student Affairs (Acting) at the school. She will devote half-time to her duties and will continue to teach.

Roger Brown, professor of veterinary medicine and surgery, is president-elect of the American Association of Veterinary Medical Colleges for 1973-74.

William F. McCulloch, professor of veterinary microbiology, has been elected to a two-year term as president of the Association of Teachers of Veterinary Public Health and Preventive Medicine in the U.S. and Canada.

Robert E. Solorzano, associate professor of veterinary microbiology, has received an award of $1,000 from Diamond Laboratories for his contributions in the field of swine research.

C.J. Bierschwal, professor of veterinary medicine and surgery, has been elected to serve a three-year term on the executive board of the American College of Theriogenology. He will serve a three-year term on the examination committee and as chairman for a two-year term.

George Doering, associate professor of veterinary medicine and surgery, participated in the First International Conference on Veterinary Allergy and Clinical Immunology Nov. 5-6 in London. He spoke on "Patch Testing for Allergic Contact Dermatitis of Dogs," and was chairman for one of the sessions.

Doering also gave a symposium to veterinary students and faculty at the University of Utrecht, the Netherlands. He is secretary-treasurer of the American Academy of Veterinary Dematology and an executive board member of the Academy of Veterinary Allergy.

Charles E. Short, professor of veterinary medicine and surgery, conducted a two-day workshop and wet clinic on "General Anesthesia and Chemical Restraint in the Horse" in Vancouver, British Columbia.

He also presented a paper at the American Academy of Pediatrics, Oct. 20, in Chicago, entitled, "Comparative Pediatric Anesthesia, the Child Versus the Experimental Model." Co-author of the paper was Judith H. Donegan, assistant professor of anesthesiology, School of Medicine.

Frank E. South, professor of veterinary physiology, spoke at a symposium during the annual meeting of the American Association for Laboratory Animal Science at Bal Harbour, Fla., Oct. 1-5. He spoke on "The Care and Use of the Marmot for Physiological Studies."

LATE ADDITIONS

James E. Breazile, chairman of veterinary anatomy, has been appointed to the editorial board of the American Journal of Veterinary Research and to the Ralston Purina Research Fellowship awards committee.

Ralph H. Luebbers, professor emeritus of chemical engineering, has been named one of the five most outstanding engineering student counselors in the United States by the student chapter committee of the American Institute of Chemical Engineers.

John C. Merrill, professor of journalism, has accepted a visiting professorship at the University of Virginia, Charlottesville, Va. for the 1974 winter semester. The professorship is sponsored by a U. S. Office of Education grant for the development of international studies programs.

Noel P. Gist, professor emeritus of sociology, received a "distinguished alumni award" from Kansas State Teachers College, Emporia, at a special homecoming, Nov. 3. Gist graduated from the college 50 years ago.

Calendar of Events

Nov. 22-Dec. 21: Fine Arts Gallery Exhibit: "A Sense of Place," a collection of 19th and 20th century landscape paintings. Part of exhibit will also show concurrently at the Stephens College Gallery.

Nov. 28: Biological Sciences Seminar: The Biosynthesis of the Photosynthetic Membrane System of Phodopseudomonas Spheroides, Dr. Samuel Kaplan, U. of Illinois, 3:40 p.m., 115 Tucker Hall.

Nov. 28: Students International Meditation Society telelecture: Dr. Bernard Gluck, former president of the American Psychopathological Assn., now head of the Institute for Living, 7:30 p.m., S8 Memorial Union.

Nov. 28: MSA Speaker: Dick Gregory, 8 p.m., Jesse Auditorium.

Nov. 28: Germanic and Slavic Languages Department presents film, "The Birth of the Soviet Cinema," 7:30 p.m., General Classroom Building.

Nov. 28: Christmas crafts show: "Create a Christmas," 8 p.m., Memorial Union large ballroom, sponsored by AWS Fashion Board.

Nov. 29: Genetics and Biological Sciences Seminar: Lydosomal Enzymes: Problems Regarding Structure and Biosynthesis, Dr. Oscar Touster, Vanderbilt U., 3:40 p.m., 219 Curtis Hall.

Nov. 29: Business-Journalism and Public Affairs Lecture: David W. Stevens, assoc. prof. of economics, speaking on "Manpower Problems in America," 8 p.m., Neff Lounge. Open to the public.

Nov. 29: UMC Symphony Orchestra to perform, 8:15 p.m., Jesse Auditorium.

Nov. 29: Institute of Electrical and Electronic Engineers lecture: Prof. Dean L. Franklin, Scripps Clinic and Research Foundation and U. Cal-San Diego, speaking on "Telemetric Measurements of Cardiovascular Response in Dogs, Baboons, Giraffes, etc." 7:30 p.m., Electrical Engineering Auditorium.

Nov. 30: Veterinary Medicine lecture: Prof. Dean L. Franklin (see above) speaking on "New Techniques in Evaluation of Myocardial Ischemia — Animal Models," 12 noon, Veterinary Clinic Auditorium. Parking available in lots AV3 and AV4.

Nov. 30: Faculty Vocal Recital: Virginia Pyle, soprano, to perform, 8:15 p.m., Recital Hall, Fine Arts Building.

Nov. 30: John Stuart Mill Centenary Symposium: Sponsored by 19th Century Studies. Theme: "The ambiguity of the liberal imagination." Papers and discussion, 3:40 p.m., 210 GCB and 7:30 p.m., Memorial Union Auditorium.

Nov. 30: Linguistic Seminar: Ben Honeycutt, assistant professor of French, to speak on "computer Generated Concordances to the Medieval French **Lais** and **Fabliaux**," 8 p.m., S207 Memorial Union.

Nov. 30-Dec. 1: Singer Dana Cooper, 8 p.m., Memorial Union cafeteria, sponsored by MSA Student Activities.

Dec. 1: Quarter Horse Assn. Clinic: 8:30 a.m. to 4:45 p.m., Livestock Center. Students, faculty, staff free.

Dec. 2: Museum of Anthropology's Film Series: "Man of the Serengeti," 2-3 p.m., Memorial Union Auditorium.

Dec. 2: University Chorus Concert, 3:30 p.m., Jesse Auditorium.

Dec. 3: Men's Chorus, Women's Chorus, Singsations to perform, 8:15 p.m., Jesse Auditorium.

Dec. 3: Lectures in Language and Literature Series: M. L. Rosenthal, professor of English, New York University, to speak on "Some Thoughts on Contemporary Poetry," 8 p.m., small ballroom of the Memorial Union.

Dec. 4: Percussion Ensemble Recital, 2:40 p.m., Recital Hall Fine Arts Building.

Dec. 5: Philosophy Department Colloquium: Gene Hargrove to speak on "Wittgenstein's Neo-Transcendentalism," 7:30 p.m., 326 GCB.

Dec. 5: Esterhazy String Quartet to perform, 8:15 p.m., Recital Hall, Fine Arts Building.

Dec. 6: Faculty Piano Recital: Kenneth Smith to perform, 8:15 p.m., Recital Hall, Fine Arts Building.

Dec. 6: MSA Broadway Play: "Godspell," 8 p.m., Jesse Auditorium. Tickets, $4, $3.50, $3 at Memorial Union ticket window.

Dec. 6: MSA Environment Programs Committee program: "Is the Meremac Dam Needed for Missouri?" 7:30 p.m., S203 Memorial Union. Discussion by representatives of Sierra Club, Corps of Engineers and Governor's Office.

Mill Symposium Set

A centenary symposium on John Stuart Mill, 19th century economist and philosopher who had a great influence on current liberal thought, will be held Friday, Nov. 30. The symposium, entitled "The Ambiguity of the Liberal Imagination," will explore aspects of Mill's background and education and his economic and social theories.

The symposium will include papers and panel discussions at 3:40 p.m. in Room 210 of the General Classroom Building and at 7:30 p.m. in the Memorial Union auditorium. It is sponsored by the 19th Century Studies group, an interdisciplinary faculty organization, and the UMC Graduate School.

Charles F. Mullett, professor emeritus of history, will begin the afternoon session with a discussion of the society of Mill's time. He will be followed by Mary Lago, UMC lecturer in English, who will give a paper on Mill's education. Discussants for the afternoon session are Fred McKinney, UMC professor of psychology, and John Mitchell, associate professor of sociology and anthropology at Westminster College.

The evening session will include a discussion of Mill's conception of social science by John H. Kultgen, UMC professor of philosophy, and of Mill's economic theories by John C. Murdock, UMC professor of economics. Discussants will be N. Patrick Peritore, UMC asst. professor of political science and Ronald Munson of the University of Missouri-St. Louis philosophy department.

Officials Release Enrollment Figures

Final enrollment figures for the fall semester have been compiled.

The Columbia campus is now up to 22,815 students, an increase of 714 over last year.

All other campuses showed increases except for Rolla which recorded a decrease of 162 students. The Rolla enrollment decline was, however, smaller than expected earlier.

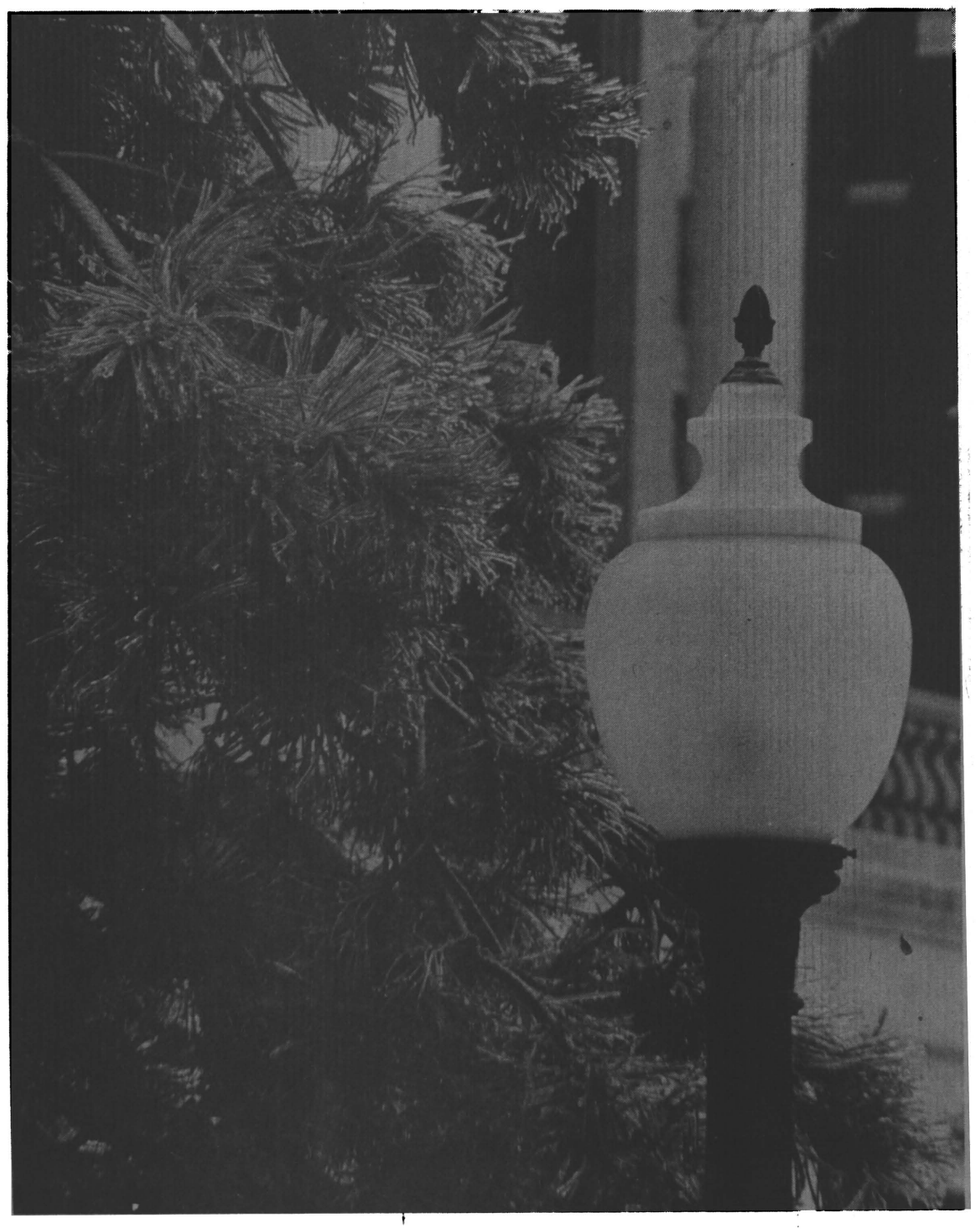
Total on-campus enrollment for all four campuses is 48,681, an increase of 1,254 students over last year's figures.

This Issue

	Page
Faculty Council Minutes	4
Graduate School and Research Notes	6
Calendar	Back Page

faculty BULLETIN

Vol. 9, No. 4 November 28, 1973



UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 5 January 9, 1974

Ag Science Week Set; "Energy" To Be Aired

The ominous energy crisis and its effect on agriculture will get a thorough airing during Agricultural Science Week, Jan. 28-Feb. 1, at the University of Missouri-Columbia.

The week-long event will have its usual meetings, awards and famous Ag Day Barbecue, but the overall tone will be a bit somber. The energy crunch is bringing shortages and higher prices for fuel, fertilizer and other farm supplies.

College of Agriculture experts will tell how to save gasoline and diesel fuel with no-till planting, reduce the use of high protein feeds in beef rations, conserve energy with insulation, and make most efficient use of fertilizers.

Here's a rundown of the week's events:

—For swine breeders, the Swine Artificial Insemination Workshop will be held Monday and Tuesday, Jan. 28-29, in the Livestock Center.

—The Farm Electrification Conference has been set for Tuesday and Wednesday in the Memorial Union auditorium.

—Wednesday is Soybean Day, and the Soybean Conference will run 9 a.m. to 5 p.m. in the Ramada Inn.

—For cattle feeders, the Cattle Feeding Seminar will be held Thursday and Friday at the Livestock Center auditorium.

—The Missouri Seed Improvement Association meets Thursday, Jan. 31, at the Memorial Union.

—The Irrigation Short Course also runs Thursday in the Hearnes Multipurpose Building.

—Anyone interested in farm management is invited to a seminar on that topic Thursday afternoon, Jan. 31, and Friday morning at the Memorial Union.

—Dairymen will have the Dairy Herd Improvement Association (DHIA) meeting Thursday morning at the Memorial Union. Then, starting at 3 p.m. Thursday, the Missouri Dairy Association has its annual dairy meeting, also in the Union.

Harold F. Breimyer

Of course, the big event will be Ag Day, Feb. 1. It starts at 10 a.m. in the Livestock Center.

Featured events will include some on climatic and environmental control, a model of the new atomic electric generating plant to be constructed in Callaway County, and a modular exhibit on energy from the U. S. Atomic Energy Commission.

The 11:30 a.m. Ag Day Barbecue program will be keynoted by Harold F. Breimyer, UMC agricultural economist, who will comment on "Future Agricultural Production with Limited Energy." Breimyer will point out that agriculture will bear its share of the energy shortage burden, but will also be looked upon as a critical producer of energy.

Following Breimyer, the outstanding family farm management, honorary ag alumnus, citation of merit, and ag engineering innovator awards will be presented.

Ag Day will conclude with quips and comments from James R. Craig, nationally prominent speaker from Springfield, Mo.

Dorms Add Room Phones

UMC students who live in residence halls will find an addition to their rooms when they return for the second semester — phones.

The 3,176 phones which were installed during the Christmas break have the same 882 prefix as other University numbers. However, because of the new phones the numbers listed for residence hall staff and students in previous directories will now be invalid. All residence hall floor phones have been removed.

Copies of a directory listing the new numbers will be placed in all residence halls' rooms, sent to all UMC faculty and staff and sold at the University Bookstore and the Memorial Union Sundry Counter shortly after the beginning of the semester.

Charge for the directories is 10 cents per person upon presentation of a UMC I.D. card.

Use of Census Data To Be Program Topic

Two series of meetings on the use of 1970 Census Data will be held in January and February at the University of Missouri-Columbia.

Programs will be oriented to students, faculty and staff of universities and colleges in the Midwest.

Sponsor is the Public Affairs Information Service (PAIS) of the College of Administration and Public Affairs (CAPA), directed by Warren G. Glimpse.

Further information and registration is available from Glimpse by phoning 882-4562 or 8256. Advance registration for the noncredit courses is required and will be limited to space available.

The first series, a Seminar on Concepts and Organization, will be held in 310 Middlebush Building, Monday, Wednesday and Friday, Jan. 21 through Feb. 1. Subjects covered will include a preview of the decennial census, geography, subject content, printed reports, summary tapes and public use samples. No fee is required and all materials will be made available by PAIS.

The second series, a Workshop on Locating and Using Data, will be held in 310 Middlebush Building, at 3:40 p.m., Monday, Wednesday and Friday, Feb. 4 through Feb. 15. Subjects covered include a review of 1970 Census data products, general methods for locating specific data with exercises and examples, accessing data on the summary tapes, using data from public use samples and considerations in research. No fee is required. A 1970 Census User's Guide, Part I & II, is required (available for $4 from PAIS).

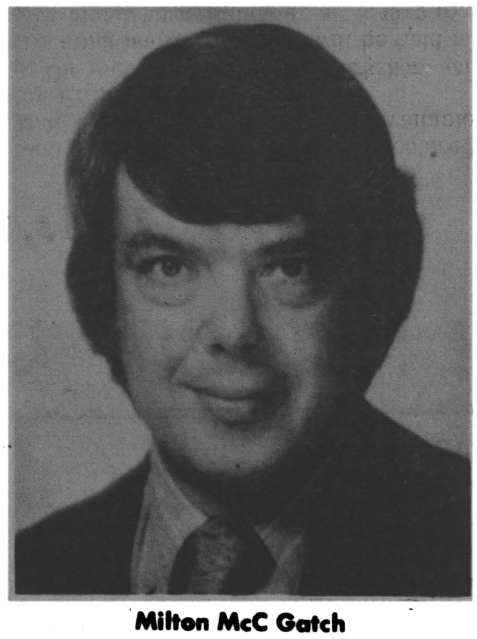
This is the second series of Census data conferences at UMC. The first, held last September, was directed toward regional planners, state agencies, business firms and colleges. This series is oriented more toward academic research, according to Glimpse.

Gatch Receives Fellowship To Spend Year at Cambridge

Milton McC Gatch, professor and chairman of the English department, has received a senior fellowship from the National Endowment for the Humanities, which will permit him to spend a year in study and research at Cambridge University in England.

The fellowship was one of 10 awarded for the study of English literature. The council previously recognized UMC with a fellowship three years ago to Dr. Noble E. Cunningham Jr., professor and chairman of history.

Dr. Gatch will be on sabbatical leave of absence next year to continue studies in England on the influences of the liturgy on old English literature. In the main, he will argue that many of the theological reflections and Biblical allusions in Old English theological reflections and Biblical allusions in Old English literature came to the writers through the medium of liturgical services conducted in both the monastic and secular churches.



Milton McC Gatch

Widely published in the areas of Old English literature and church history, Prof. Gatch joined the UMC faculty in 1968 after teaching at Northern Illinois University and Shimer College. He received master of arts and doctor of philosophy degrees from Yale University in 1961 and 1963, respectively. Since 1971 he has served as chairman of the UMC English department. In 1974 Prof. Gatch will assume the presidency of the Midwest Modern Language Association, a professional society he served in 1973 in a vice presidential capacity.

Power Engineering Program Rated Tops

A recent nationwide study of the 85 colleges and universities offering programs in electric power engineering concluded that the graduate program conducted by the department of electrical engineering in the UMC College of Engineering is among the top two programs in the country.

The identification of outstanding graduate programs in electric power engineering was the purpose of the study directed by Larry Dwon of the American Electric Power Service Corporation of New York.

With the crunch of the energy crisis, the power industry is under increasing pressure to find better methods of generation and distribution of energy, according to UMC engineering dean William Kimel, and the recent study was an attempt to locate those schools whose programs merited support by the industry.

Researcher Dwon attempted — through the use of 20 areas of evaluation — to develop a list of the top 20 graduate programs in electric power engineering in the country. He came up with two lists — one ranking the UMC program first in the nation and the other giving it a second place rating.

The Columbia Campus program topped all other programs in the number of times it ranked in the top twenty (18 times in the 20 study areas used in the survey). The UMC program was rated just a notch below famed Rensselear Polytechnic Institute when an average score was computed for each school through the assigning of numerical values to the rank each held in the study categories.

The latter method, according to researcher Dwon, had "a stronger basis for acceptance."

Missouri can boast of two programs in the top 20 with 14th place being assigned to the power engineering program of the Rolla Campus of the University of Missouri.

The UMC program gained its highest ratings in the number of graduate degrees granted and in the funding of research by the power industry and government sources.

The study will be evaluated by the education committee of the Institute of Electrical and Electronic Engineers. The committee was asked by the study's director to "develop an acceptable group of parameters to use in the selection of good power engineering programs," to announce "on a periodic basis the 20 programs it believes to be most outstanding," and to "develop some means of recognition for the professors who are responsible for the good programs that prevail."

The study evolved from a suggestion by the Edison Electric Institute Task Force that the power industry's engineering manpower needs could be met by 20 "properly distributed" schools offering "programs of excellence at the graduate level" which should be "adequately supported by the whole power industry."

General Faculty Meeting Minutes

Dec. 12

The University Faculty met at 3:40 p.m., Dec. 12, in Jesse Auditorium with Chancellor Schooling presiding with an estimated audience of 280.

Minutes of October 2 were approved as published.

Chairman Daniel, on behalf of the Faculty Council, moved, properly seconded, the adoption of the "Proposed Changes in Faculty By-Laws." (See Faculty Bulletin Special Issue, Dec. 7.)

On motion of Prof. Haseman, properly seconded, the Faculty approved amending the motion by adding the words "schedule of studies and examinations", after "calendar" and before "academic" in sentence three, paragraph numbered two in Article V.

Prof. Koelling moved, properly seconded, to amend Article II (C) (vi) by adding the statement:

"Faculty Council actions shall not be deemed to be official actions of the Faculty until the expiration of one full week following announcement of these actions to the Faculty, provided that if a petition for full Faculty review is submitted in accordance with these By-Laws, such actions shall not be deemed to be official until acted on by the Faculty."

The motion to amend failed.

Chairman Daniel, on behalf of the Faculty Council, moved, properly seconded, that the vote on the original motion, as amended, be by mail ballot. The motion was approved.

Chairman Daniel, on behalf of the Faculty Council, moved, properly seconded, the adoption of the following resolution:

BE IT RESOLVED BY THE FACULTY OF THE UNIVERSITY OF MISSOURI-COLUMBIA:

1. That a University Governance Commission independent of the central administration should be appointed by the Board of Curators, on nomination by the Intercampus Faculty Council.

2. That this University Governance Commission should be headed by a distinguished scholar having responsible administrative experience at a major university but having no prior affiliation with the University of Missouri; and

3. That this University Governance Commission should make a critical assessment of the administrative structure of the University of Missouri and of its impact on educational policy, and should communicate its report and recommendations simultaneously to the Board, the Faculties, and the people of Missouri.

Prof. Nauert moved, properly seconded, to amend the motion by including the four (4) Whereas statements published in association with Resolution 3 in the Faculty Bulletin dated Dec. 7. The statements read as follows:

Whereas the Faculty feels grave concern about the continuing transfer of control over educational policy from the Faculty into the hands of a central University-wide administration which does not face the responsibility of carrying out the policies adopted;

Whereas this central administration constantly grows in size and cost at the expense of the University's primary functions of teaching and research;

Whereas the central administration has made repeated direct interventions into the internal operation of the campuses rather than confining itself to a role of coordination; and

Whereas the University budget, at both the asking stage and at the administrative stage after appropriation, has been kept so secret and has become so complex and ambiguous that neither the public nor the Faculty can understand how the University really spends its funds;

The motion to amend was approved. The motion, as amended was approved.

Chancellor Schooling commented on the "Articulation Agreement" currently under consideration by the Council on Public Higher Education and on the Campus Academic Plan.

Faculty Council Minutes

Dec. 6

Announcements. Chairman Daniel announced the decision to include in the special issue of the **Faculty Bulletin,** to be published Dec. 7, the contents of the recent **Center and Periphery.** That issue will also include the proposed revision of Faculty By-laws, Resolution No. 3 and the UMC Academic Plan.

Resolution No. 3. The Chairman distributed a letter from Chancellor Schooling pertaining to Resolution No. 3. Discussion followed. Concensus was that the motion to be made at the Dec. 12 Faculty Meeting pertaining to Resolution No. 3 shall be for adoption of the resolve statement only.

Delegation of Authority. Proper procedure for the Faculty voting on delegation of authority to the Faculty Council was discussed. Consensus was that the vote on By-laws, to be made by mail, should precede the vote on specific delegation of authority to the Faculty Council.

Tenure and Promotion. Prof. Miller expressed concern about the principle of campus-level review of tenure and promotion recommendations. Prof. Miller moved that "The Faculty Council is concerned with the campus-level portion of the Promotion and Tenure guidelines. While the Council does not wish to specify all the functions of the campus review committee, which is designated as advisory to the Chancellor, it does wish to request that the group advise the Chancellor regarding appropriateness of the submissions from the Divisional level, as per the guidelines, and that the campus-level committee review credentials of individuals **only** in special cases questioned by the Provost for Academic Affairs or the Chancellor." Seconded.

In discussion, members of the Faculty Affairs Committee, which had had some discussion with the Provost for Academic Affairs about the matter prior to the time the guidelines were written, reported that it was their impression that the intent of this motion was in general agreement with the intent of the guidelines as they perceived it in those early conversations.

Motion passed without dissent. It was agreed that the Faculty Council should nominate the four faculty members to the campus-level promotion and tenure committee.

MSA Academic Reform Proposals. Prof. Adair distributed information about MSA Academic Reform Proposals. No action required or reqiested, but discussion ensued.

Library Procedures. Prof. Peden reported for the Academic Affairs Committee that further action by the Council on the new library procedures was not appropriate right now.

Board of Curators Meeting. Prof. Holroyd commented on the last Board of Curators meeting, especially on aspects related to the Independence Center.

Report of Inter-Campus Faculty Council. Prof. Daniel and Spencer reported on the last meeting of the Inter-Campus Faculty Council. Topics included: (1) Issues surrounding transfer of the Independence Center to UMC; (2) Faculty appointments to a group to advise Mr. Kyd, currently concerned with Senate Bill No. 77; (3) Plans for ICFC, the President's cabinet, the APC, and others to discuss the University academic plan; and (4) Issues pertaining to CLEP.

AAUP Letter to President Ratchford. Prof. Daniel distributed copies of a letter from Joseph Schwartz of the national AAUP to President Ratchford.

Common Course Numbering. Prof. Whitworth mentioned that the U-wide committee on common course numbering is to meet Dec. 12.

Operations Committee of the Maneater. Prof. Adair commented on the establishment of the newly-appointed Operations Committee of the Maneater. He suggested having Dean James Banning speak to the Council about the role of the student newspaper on campus.

Dec. 13

Proposed Advance Deposits. Chairman Daniel briefed the Council on the situation pertaining to the proposed advance deposits and circulated a document from Vice President Unklesbay (dated 11-9-73) relating thereto.

Dean Minor indicated that presently graduate students are required to make an advance deposit (which is applicable to fees when the student registers) after they are notified of acceptance to graduate study. He indicated the proposed application fee would be in addition to this and apparently would be non-refundable and would not apply toward fee payment.

Registrar Smith outlined the ramifications of the proposed plan which would in effect drop the present advance payment for undergraduates. In discussion, it was pointed out that the proposed admission fee would deter recruitment of minority students. Also, that the deterrent to students applying probably was undesirable academically.

Prof. Adair moved that: Whereas the Faculty Council has not been informed of the benefits to be derived from this change and, Whereas the Faculty Council is not able to discern any benefits of this change, and Whereas the Faculty Council is familiar with the negative effects of some administrative decisions made at the U-wide level, therefore, Be It Resolved: that Vice President Unklesbay be invited to meet with the Faculty Council and tell us what it is all about! Seconded. Unanimously passed. Agreement that the communication of this should be directly to Vice President Unklesbay, cc: Chancellor.

Resolution 3. The Chairman asked for guidance about the next steps with regard to Resolution 3, especially whether to send to the other campuses and what, if anything, to request of them. Concensus that the Chairman send to other campuses asking that they consider the possibility of taking similar action.

Voting on By-laws. Council discussed matters relating to next steps in handling the voting on by-laws. Prof. Miller moved that the procedures for balloting on by-laws outlined by the Chairman at the Faculty meeting including explanatory note that before a request is made for delegation of authority to the Faculty Council a committee will consider possible action on the issue raised at the Faculty meeting re: Article II-3-c-vi. Spencer seconded. Passed unanimously.

Prof Studies Tropical Disasters

David K. Davies, professor of geology, has been granted $1,000 by the National Science Foundation to study natural catastrophies in tropical environments.

He will use the award to begin a study of the effects of volcanic eruptions, mud flows, floods, and storms in the tropics, where many thousands of people are killed annually by such catastrophies.

The focus of Davies' research will be the Pacific coastal plain of Guatemala, the richest agricultural region in the country. This large fertile area is regularly reduced to a state of havoc by catastrophic events. These catastrophies not only destroy homes, villages and lives, but also significantly affect the national economy of Guatemala.

Davies visited Guatemala during the holidays as a guest of the National Geological Institute of Guatemala. The Institute provided him with logistical ground and air support for the research project. While in Guatemala, he was also responsible for developing a joint United States-Guatemalan research project to study major geologic problems of tropical environments.

Dr. Davies will use some of the data collected during his visit to Guatemala in a course to be taught in the first summer semester of 1974. This course is entitled "Man and His Earth" (Geology 301). It has no prerequisites and is concerned with exploring the delicate interrelationship that exists between man and his natural environment.

Brewer Closes for Remodeling

Brewer Field House is closed for remodeling which is expected to take about seven months.

Dr. Ralph Stewart, coordinator of the building, said that the closing eliminates all activities except those in corridors which in the past have included elections, bloodmobile, table tennis, and similar activities.

All but eliminated will be physical education classes and faculty, student, and staff recreation activities in the Brewer facility. Anticipating the closure, no physical education classes have been scheduled for the approaching semester in the field house except for a jogging class which probably will be moved to the Hearnes Multipurpose Building and some badminton instruction which will take place at the Laboratory School.

More than $325,000 has been allocated for the remodeling project which will convert the field house and Rothwell Gymnasium into a recreation center. The project involves lowering the floor in the field house to provide six handball courts, installing a concrete ceiling over the courts that will become the floor for a basketball court, and covering the running tract and infield. Showers and locker rooms for women also are included in the project.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 116 Jesse, or to the Office of Public information, 223 Jesse, 882-6211.

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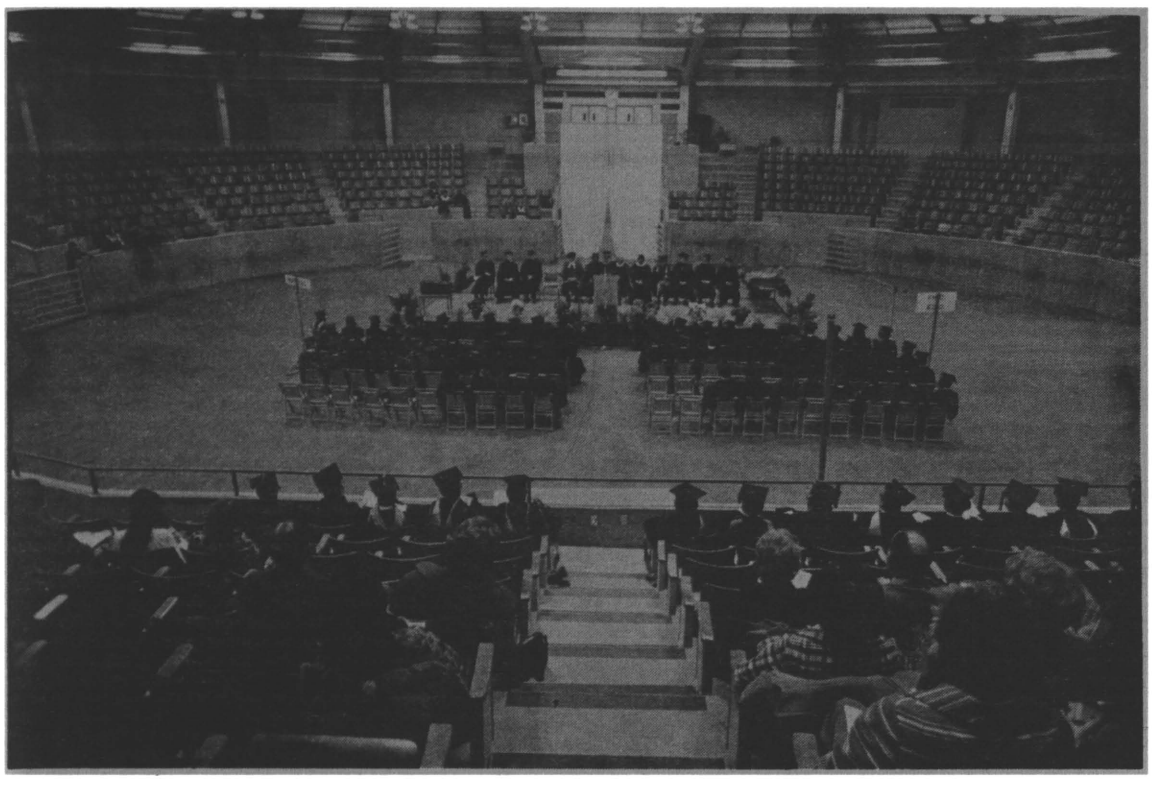
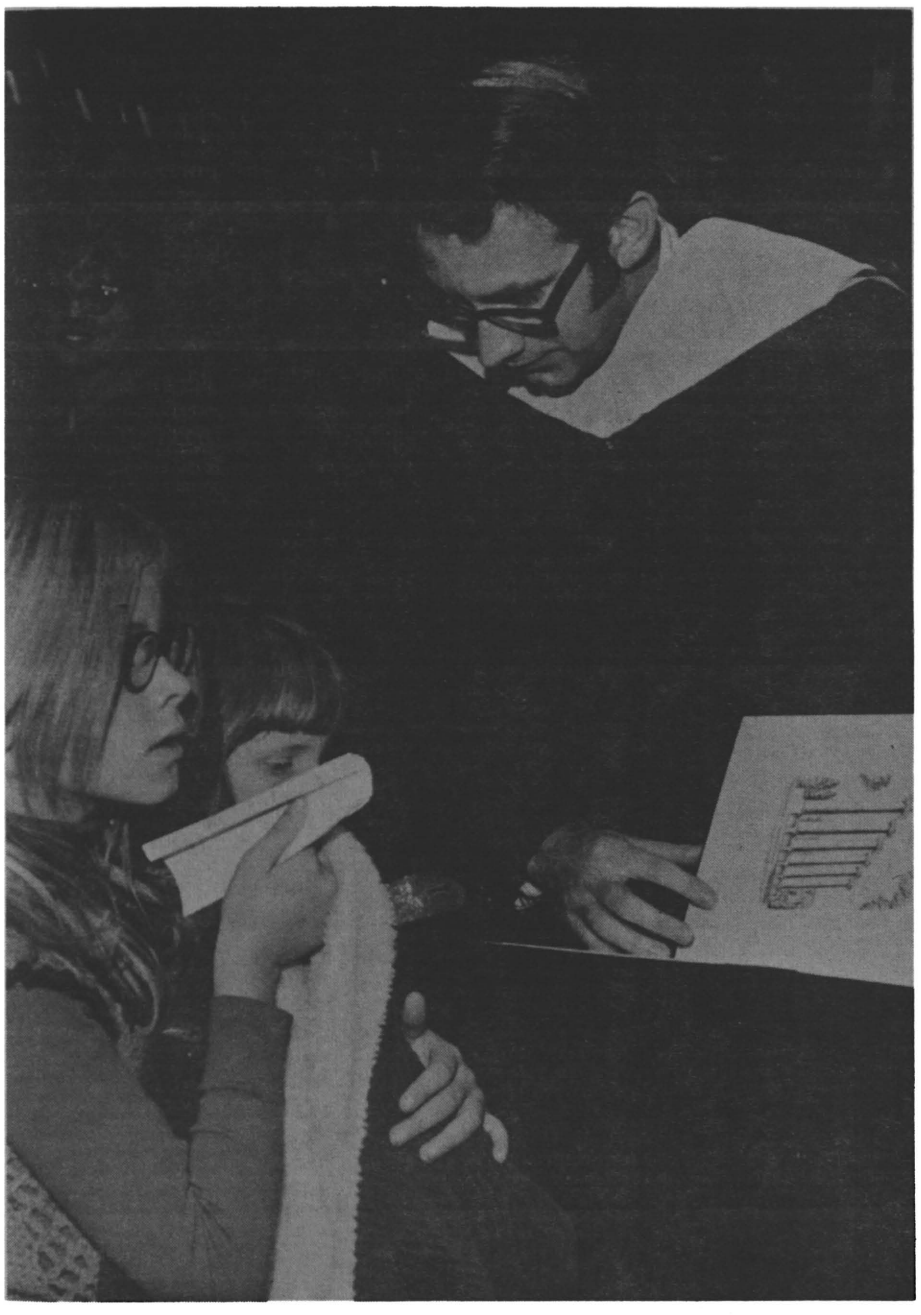


A Family Affair



Graduate students completing requirements for doctorates and master's degrees at UMC were honored at a Graduate School Pre-commencement ceremony Dec. 18.

Proud parents, husbands, wives and children were on hand for the ceremony held in the Livestock Pavilion.

Left: Donald E. Waters, former coordinator of extended services and IFC advisor, shows his doctoral diploma to his daughters.

Below: Some parents traveled great distances for the occasion. Graduate Dean Lloyd E. Berry (third from left) poses with Cesar H. Barahona (second from left) and his parents who came from Quito, Equador to see him receive his M.A. in Business Administration.

Bottom photo: Oblivious to the ceremonies below her, one child takes a nap.

Proposed Gradu

For somewhat over a year, a special committee of the Graduate Faculty Senate has been drafting by-laws for that body. These have now been submitted to the Senate for consideration and possible revision. Proposed amendments are to be submitted in writing to Robert Marshall, 124 Eckles, or Marc de Chazal, 0039 Engineering, so they can be included on the agenda of the January 24 Senate meeting. At that time, it is hoped they will be adopted.

As with all actions of the Senate that affect the Graduate Faculty or the Graduate Program, parts of the proposed document are subject to review by the Faculty. In particular, Section 2, Membership, modifies the representation in the senate and warrants your attention. The Appendix shows the numerical consequences of this change. The principal effects are to ensure more proportional representation, to eliminate a group of senators whose allegiance may be construed to be to sectors rather than to departments, and to avoid undesirable aspects of the "pop-up" replacement of departmental representatives when one is elected sector representative.

Your comments and suggestions are solicited.

Marc de Chazal, President
Graduate Faculty Senate

Preamble

A graduate program requires a competent graduate faculty interacting freely with qualified graduate students in a climate which fosters intellectual growth and exploration. The maintenance of such a climate requires partnership and effective communication within the community among faculty, students, and administrators. It requires that an idea generated in any part of the community be transmitted quickly to the appropriate body where it should receive expeditious consideration and action.

In order to promote democratic processes without sacrificing flexibility, faculty organization must provide for: (1) the mechanisms for communication between individual faculty members, administrative officers, and students; (2) a policy-making body which is truly representative of the faculty, being elected by them and large enough to represent the various interests; (3) a representative nucleus of this body small enough to act in emergency and to provide for constant interaction with administrative officers, faculty, and students.

To effect these ends, the Graduate Faculty Senate and the Executive Committee thereof are constituted.

Article 1. Graduate Faculty Senate

1. Functions and Responsibilities.

a. The Graduate Faculty Senate shall be the chief legislative and policy-formulating body for the Graduate Faculty of the University of Missouri-Columbia. It shall exercise these responsibilities subject only to the following limits:

1. The Graduate Faculty retains the right to approve new members of the Graduate Faculty.

2. The Graduate Faculty retains the responsibility for recommending candidates for graduate degrees.

3. The Graduate Faculty reserves the right to review, change, or rescind any legislation which is enacted by the Senate. Such action shall be initiated by written petition signed by 30 or more members of the Graduate Faculty and submitted to the Graduate Dean within 30 days after the minutes of such legislation have been published. Upon such petition a special meeting of the Faculty shall be called. Notice of the meeting, together with a complete statement of the legislation and the specific change to be voted on shall be mailed to each member of the Graduate Faculty no less than two weeks before the meeting.

b. Within these limits, the Senate shall be responsible for changes of policy or new policies including:

1. New courses of degree programs.
2. Changes in courses or degree programs.
3. Deletions of courses or degree programs.

2. Membership.

a. All members of the Graduate Faculty are eligible for election to membership in the Graduate Faculty Senate.

b. Each Graduate Department and each Graduate-Degree-Granting Area Program shall be represented in the Graduate Faculty Senate. Each such Department and Area Program shall be entitled to representation according to the unduplicated count of the graduate faculty members assigned to it following this formula:

Less than 15 graduate faculty members — one senator

15 to 29 graduate faculty members — two senators

30 or more graduate faculty members — three senators

c. In those instances in which a member of the Graduate Faculty is a member of more than one Graduate Department or is simultaneously a member of a Graduate Department and a Graduate-Degree-Granting Area Program, he/she must designate the unit to which he wishes to be assigned for purposes of representation in and election to the Graduate Faculty Senate.

d. Senators shall be elected by Graduate Faculty members of each member unit in the manner stipulated in Article 1, Section 6.

e. The normal term of office of a Senator shall be three (3) years with the Senators serving staggered terms in such a manner that approximately one-third of the Senate will be elected each year.

f. The election will take place in March of each year. The newly-elected Senate will hold an extraordinary meeting, chaired by the President of the current Senate in April to elect officers and standing committee members. The new officers and committee chairmen will arrange for an orderly assumption of duties from their counterparts at the expiration of the latters' terms of office.

g. Elections shall be conducted only for: (1) Those seats being vacated because of the end of the term of office, (2) vacancies created by resignations or other reasons, and (3) new seats created by change in Graduate Faculty membership within a department. Prior to each annual election, the Committee on Problems and Procedures shall verify the number of seats to which each unit is entitled and shall make provision for added or deleted seats in the ballot. However, no seat shall be deleted prior to the expiration of the term of the unit representative having the shortest remaining term of office.

3. Term of Office.

a. The term of office of each regularly elected senator shall begin on the first day of the academic year following his election and shall terminate at the end of the summer following the final academic year of the term for which he was elected.

b. The term of office for each newly constituted Senate as a corporate body shall begin on the first day of the academic year and shall continue through the following summer until the beginning of the new academic year.

4. Organization of the Senate.

The Senate shall be organized in terms of the following elements:

a. **Officers.** Its executive officers shall consist of a President and a Secretary.

b. **Executive Committee.** The Executive Committee shall include the President, the Secretary, the chairmen of standing committees, the chairmen of Academic Sectors and a representative of the Graduate Student Association.

c. **Standing Committees.** Standing committees of the Senate shall be the following:

Academic Affairs
Graduate Faculty Membership
Problems and Procedures

The method of selection, duties, and responsibilities of these standing committees are detailed in Article 3.

d. **Academic Sectors.** In order to preserve some community of interest and understanding among the wide variety of disciplines represented in the Graduate Faculty, the various departments and other degree-granting units are grouped into broad subject-matter areas whose members shall constitute the following Academic Sectors:

Biological Sciences
Humanities
Mathematical Sciences
Physical Sciences
Social Sciences

Methods of determining membership in these sectors, representation, and duties and responsibilities of the sectors are specified in Article 4.

5. Officers.

a. **President** for the ensuing year is to be elected at a special meeting of the newly elected Senate in April following the election of new members. He or she will take office on the first day of the following academic year. The President shall preside over the Senate meetings and chair the Executive Committee of the Senate.

b. **Secretary** for the ensuing year is to be elected by the Senate at the April meeting following the election of new members. The Secretary shall (1) keep the minutes of the Senate meetings and make them available to the entire Graduate Faculty, (2) send to each graduate department chairman and to each member of the Senate a copy of the agenda of each Senate meeting, and (3) serve as the secretary of the Executive Committee of the Senate.

c. **Term of Office.** The term of office of the President and Secretary shall be one year and no person may serve more than three consecutive terms.

6. Election of Senate Members.

a. **Time of Election.** Election of members of the Senate for the ensuing year shall be held during the month of March each year.

b. **Committee on Elections.** During the month of March each year the Committee on Problems and Procedures shall conduct the election of new members of the Senate. The Committee shall be guided by the following procedures and principles in the conduct of the election:

1. Secure a certified list of the Members of the Graduate Faculty in each unit.

2. Determine the appropriate numbers of Senators from each Department or Area Program based upon its Graduate Faculty membership on February 1, using the following formula:

1 Senator per unit with 1-14 members of the Graduate Faculty

2 Senators per unit with 15-29 members of the Graduate Faculty

3 Senators per unit with 30 or more members of the Graduate Faculty

For purposes of determination of representation in the Senate and eligibility for election, any member with membership in more than one unit must designate a single unit to which he or she wishes to be accredited. His or her membership will thereupon be assigned to that unit and that unit only in the determination of the appropriate number of representatives to the Senate and he or she may become a candidate for membership in the Senate only as a representative of that unit.

3. Ascertain which Senate seats must be filled in the up-coming election. These may include the following:

a) Seats filled by incumbents whose terms are expiring.

b) Seats to be vacated for other reasons including incapacitation, retirement, resignation from Senate, termination of appointment with the University, leave of absence, etc.

c) New seats created by increase in numbers of Graduate Faculty members in any departments.

4. Prepare and distribute ballots to Graduate Faculty members in Departments in which vacant seats are imminent.

The ballot sent to each member of the Graduate Faculty shall indicate the number of representatives to be elected from his or her unit in that particular election and instruct said member to vote for exactly that number of candidates. A list of eligible members from that unit shall accompany the ballot.

5. Count the ballots and report the results in writing to the Secretary of the Senate.

7. Meetings. Regular monthly meetings of the Senate shall be routinely scheduled during the academic year by the Secretary of the Senate.

Special meetings of the Senate may be called by the President of the Senate. The President of the Senate shall, with deliberate speed, call special meetings of the Senate upon petition of 10 Senators or at the direction of a majority of the members of the Executive Committee or at the direction of a majority of the members voting at a regular Senate meeting.

8. Presiding Officer. The presiding officer of the Senate shall be the President of the Senate or his representative whom he shall designate.

9. Quorum. A quorum shall consist of a number of Senators equal to one-third of elected members of the Senate.

Faculty Bylaws

10. Voting Membership. The voting membership shall consist of the Senators or their designated substitutes, and the representative of the Graduate Student Association.

11. Attendance at Meetings. The meetings of the Senate will normally be open to the Dean and Associate Deans of the Graduate School and any interested member of the University faculty or any interested graduate student.

Non-voting participation and discussion by non-members shall be at the discretion of the President of the Senate.

12. Order of Business. The normal order of business at any regular meeting of the Senate shall be as follows:

1. Call to order
2. Approval of minutes of the last meeting
3. Acceptance of the agenda
4. Special business for the day
5. Unfinished business
6. Reports of committee
7. Other new business
8. Resolutions
9. Adjournment

13. Agenda. The agenda for a regular meeting of the Senate shall be distributed to members of the Senate at least 4 days prior to the meeting.

Any item on the agenda which involves a motion to be presented before the Senate for a vote shall be identified as such.

14. Substitute Motions and Amendments to Motions. Substitute motions or amendments which alter significantly the substance of any motion on the agenda shall require the same previous notice as the original motion. Substantive amendments presented from the floor will therefore have the effect of delaying the vote on the main motion until the next succeeding meeting of the Senate. The President shall determine whether an amendment is substantive.

15. Parliamentary Authority. The business of the Senate shall be conducted under Robert's Rules of Order, unless contrary requirements are specified elsewhere in these rules. The President of the Senate shall appoint a Parliamentarian at the beginning of the academic year.

16. Substitutes. A Senator who is unable to attend a meeting of the Senate may send a substitute. However, a Senator who is unable to serve for a semester or more will be replaced during the period of his absence by a member elected by his unit with the help of the Committee on Problems and Procedures.

Article 2. Executive Committee

1. Duties and Responsibilities.

a. The Executive Committee shall prepare the agenda for each session of the Senate. It shall insure the distribution of the agenda to each member of the Senate at least four days before each regularly scheduled meeting.

b. The Executive Committee shall convey suggestions for policy decisions to the Senate, and to its standing committees.

c. The Executive Committee shall promote coordination of policy and administration by acting as an intermediary between the Senate and the Graduate Dean. This function shall include these responsibilities:

1. Receive recommendations from the Dean regarding changes in policy which would better enable the Graduate School to perform its function.

2. Suggest to the Dean ways of improving the ongoing implementation of Graduate Faculty Policy.

3. Inform the Dean of pending or completed actions of the Senate in order to ensure that policy decisions are made in such a way as to be administrable by the Graduate School.

4. Assist the Dean in making policy decisions where these require the interpretation of Graduate Faculty or Senate rules or by-laws.

5. Identify problems and direct appropriate committees to consider them.

6. Appoint **ad hoc** committees where conditions warrant their creation.

2. Membership. The Executive Committee shall consist of:

a. The President and Secretary of the Senate who shall serve as Chairman and Secretary respectively of the Executive Committee.

b. The Chairmen of all standing committees.

c. Five chairmen of the Academic Sectors.

d. One Graduate Student representative designated by the Graduate Student Association.

3. Election.

a. The election of the Chairman and Secretary is provided for in Article 1, Section 4.

b. Chairmen of the Standing Committees and the Academic Sectors shall qualify as members of the Executive Committee when their election is officially certified to the Secretary of the Senate.

c. A request for the designation of a graduate student to serve on the Executive Committee will be made to the Graduate Student Association prior to the first meeting of each academic year. Upon certification by that body, the student so chosen shall become an official member of the Senate Executive Committee.

4. Meetings. The Executive Committee will meet regularly at least once a month with an agenda sent out at least five days in advance. Additional meetings for spectific purposes may be called by the Chairman or upon request of two members of the Executive Committee.

Article 3. Standing Committees

1. The Election and Composition of Standing Committees.

Members of the standing committees shall be elected by the Academic Sectors following the meeting of the new Senate in April. Each Graduate Faculty Senate Sector shall elect two of its sector members to each of the standing committees.

Additional members of the Graduate Faculty who are not members of the Senate may be appointed to standing committees by a majority vote of the Committee; however, the number of non-Senate members on these committees shall be less than the number of Senate members.

All standing committees except the Membership Committee shall include a representative designated by the Graduate Student Association.

2. Duties and Responsibilities.

a. **The Committee on Academic Affairs** shall be responsible for considering questions of policy and for making recommendations to the Senate regarding general Graduate School degree requirements, standards and procedures for admission to the Graduate School, curriculum and course offerings, and degree programs.

It shall also be responsible for making recommendations to the Senate regarding methods of encouraging scholarly endeavor, through such means as research grants, summer research fellowships, sabbatical leaves, and graduate student fellowships.

b. **The Committee on Graduate Faculty Membership** shall be responsible: (1) for considering matters of policy and making recommendations to the Senate regarding the standards for admission to the Graduate Faculty; and (2) for recommending action to the Senate on individual applications for membership to the Graduate Faculty, in accordance with the standards set by the Graduate Faculty; (3) review of and recommendations on applications for membership in the Doctoral Faculty.

c. **The Committee on Problems and Procedures** shall be responsible for: (1) hearing individual complaints by students or faculty members regarding the administration of Graduate Faculty policy in their individual cases and investigating the particulars of each case in order to ascertain whether remedies should be recommended to the Senate; (2) considering matters referred to it by the Executive Committee or the Senate which do not fall within the purview of any of the other standing committees and to make recommendations concerning such matters to the Senate; (3) conducting the annual election of new Senators as specified in Article 1, Section 6; and (4) overseeing elections of new members or officers as necessary between annual elections.

3. Election and Duties of the Chairman.

a. When all of the Sectors have elected their representatives to the standing committees, and have certified their election to the Secretary of the Senate, the president shall call a meeting of the committee which shall then elect its own Chairman.

b. The person elected as permanent Chairman shall serve throughout the year and shall be eligible for re-election during his membership in the Senate.

c. The Chairman of each standing committee shall also serve as a member of the Executive Committee and shall be responsible for maintaining regular contact with the President of the Senate.

Article 4. Academic Sectors

1. The Senate shall be composed of the following Academic Sectors:

a. Biological Sciences
b. Humanities
c. Mathematical Sciences
d. Physical Sciences
e. Social Sciences

2. The placement of a Department or Area Program in any of the given Sectors shall be determined by plurality vote of the Graduate Faculty members of said Department or Area Program.

3. Transfer of a unit from one Sector to another shall require:

a. Petition signed by two-thirds of the Graduate Faculty membership of the Department or Area Program requesting the transfer. The petition must be filed with the Secretary of the Senate.

b. The petition must be endorsed by an affirmative vote of a majority of the members of the Sector into which transfer is being requested.

c. Notification of action taken on the petition is to be submitted to the Executive Committee of the Senate and to the petitioning unit.

4. Duties and Responsibilities of a Sector.

a. Review proposals for new courses and degree programs and submit recommendations to the Dean of the Graduate School. Substantive changes in existing courses and degree programs shall also require Sector action.

b. Participate in the nomination of representatives of the Graduate Faculty to other bodies outside of the Senate.

c. Communicate its wishes and needs to the Executive Committee of the Senate.

d. Provide a forum for the discussion of issues of interest to the specific Sector.

e. Establish an effective liaison with Sectors having overlapping areas of interest and concern.

5. Election of the Chairman.

a. Following the meeting of the new Senate in April, the President shall call a meeting of each Sector which shall elect its own Chairman.

b. The person elected as permanent Chairman shall serve throughout the year and shall be eligible for re-election during his membership in the Senate.

c. The Chairman of each Sector shall also serve as a member of the Executive Committee and shall be responsible for maintaining regular contact with the President of the Senate.

Article 5. Amending The By-Laws

1. Advance Notification. Proposed change(s) in the By-Laws shall be sent in writing by the Secretary to each member of the Graduate Faculty Senate two weeks prior to action thereon by the Senate. The communication shall include a copy of the By-Laws in question and the proposed change(s).

2. Voting Procedures. The adoption of an amendment will require an affirmative vote of a majority of members present and voting, provided that no less than one-half of the membership of the Senate exercise their vote.

3. Amendments from the Floor. In consideration of proposed amendments presented with advance notification, motions from the floor which would affect major substantive changes shall have the effect of postponement of adoption until a subsequent meeting when the rule of advance notification, as provided for in Article 5, Section 1, will have been fulfilled for the proposed modification.

Appendix

Comparison of Senate Composition in 1972-73 with Proposed Composition+ by Sectors

	Current Senate			Proposed Senate
	Total	Sector Reps.	Dept. Reps.	Dept. Reps.
Total	**117**	**39**	**78**	**105**
Biol. Sci.	39	13	26	30
Human.	15	5	10	15
Math.	9	3	6	10
Phys. Sci.	12	4	8	11
Soc. Sci.	42	14	28	39

+Proportional representation by academic unit

		No. of Depts.
1-14	Graduate Faculty Members	54
15-29	Graduate Faculty Members	21
30 or	more Graduate Faculty Members	3

The Published Faculty

COLLEGE OF AGRICULTURE

Two UMC animal husbandry professors are co-authors of a chapter of a new book designed to help livestock and poultry producers improve the level of protein in feed.

J.M. Asplund, associate professor, and W.H. Pfander, professor, wrote the chapter, entitled "Production of Single-Cell Protein from Solid Wastes," for the recently published book, "Alternative Sources of Protein for Animal Production."

COLLEGE OF ARTS AND SCIENCE

A book co-authored by a UMC history professor has been selected by the Museum of the Confederacy at Richmond, Va., as the best book-length narrative on Confederate history published in 1972.

Thomas B. Alexander of UMC wrote the book with Richard E. Beringer of the University of North Dakota under the title of "An Anatomy of the Confederate Congress: A Study of the Influence of Member Characteristics on Legislative Voting Behavior, 1861-1865."

Edwin M. Kaiser, professor of chemistry, is co-author of a chapter entitled "Carbanions" in a recent monograph in organic chemistry entitled "Organic Reactive Intermediates", edited by S.P. McManns and published by Academic Press.

Basic economics and the role of government in the American economy receive major attention in "Economic Problems and Policies," by **John Kuhlman,** professor of economics. A second edition of his 1969 text has just been printed by Goodyear Publishing Company, Pacific Palisades, Calif.

William H. Shoemaker. visiting professor of Spanish, has just had published in Spain an edition of previously unknown letters of the famous Spanish novelist Benito Perez Galdos. The book, entitled "Las Cartas Desconocidos de Galdos en 'La Prensa' de Buenos Aires," was brought out jointly by the Instituto de Cultura of Madrid and the Cabildo Insular (Island Council) of Gran Canaria.

Bonner Mitchell, professor of French and Italian and chairman of Romance Languages, is the author of a new University of Oklahoma Press book entitled "Rome in the High Rennaissance: The Age of Leo X." The book deals with both material and intellectual life in Rome during the early sixteenth century. It is published in the Oklahoma Press's series called "Centers of Civilization."

An article, of which **David K. Davies,** professor of geology, is senior author, has been selected as one of eight outstanding papers ever published by the American Association of Petroleum Geologists in the field of sandstone reservoirs and stratigraphic concepts. The eight papers will be reprinted by the Association this fall in a special volume entitled "Sandstone Reservoirs and Stratigraphic Concepts."

Haskell Hinnant, assistant professor of English, is the author of "Dryden and Hogarth's **Sigismunda**," which appears in the Fall 1973 issue of **Eighteenth-Century Studies**, a journal concerned with the interrelationship of literature and the fine arts.

"Giraldi on Chaucer," an essay by **George B. Pace,** professor of English, appeared recently in the **Chaucer Review**.

William Peden, professor of English, has published a short story, "Absent Thee from Felicity," in Contempora, Summer 1973, and a novel, "Twilight at Monticello," released by Houghton Mifflin, May 1973.

A review of Morris Dickstein's "Keats and His Poetry; A Study in Development," written by **Howard Hinkel,** assistant professor of English, appears in the September issue of the Georgia Review.

Albert J. Devlin, assistant professor of English, is the author of "How Much it Takes to Compound a Man(A Neglected Scene in Go Down, Moses," an essay appearing in the summer issue of the Midwest Quarterly.

COLLEGE OF ENGINEERING

A technical book, "Buckling of Shell and Shell-like Structures," has been published by **Kenneth P. Buchert,** professor of civil engineering.

SCHOOL OF JOURNALISM

The second edition of "Law for the Newsman" written by **Dale R. Spencer**, professor of journalism, has just been released by Lucas Brothers Publishers. The book is designed to improve the teaching of communications law and serve as a guide for working journalists. The first edition was published in 1971.

SCHOOL OF LAW

Grant S. Nelson, professor of law, is co-author of a law text, "Cases and Materials on Equitable Remedies and Restitution," (second edition) published by West Publishing Co., leading law book publisher.

William F. Fratcher, R.B. Price Distinguished Professor of Law, is the author of an article entitled, "The Uniform Probate Code and the Veterans' Administration," which was published recently in the Case Western Reserve Law Review.

SCHOOL OF MEDICINE

A paper authored by two UMC faculty members, in collaboration with a graduate student, has been accepted for inclusion in the 1974 volume of the Annual Review of Behavior Therapy Theory and Practice. The authors are **William F. Waters,** assistant professor of psychiatry (medical psychology); **David G. McDonald,** professor of psychiatry (medical psychology) and psychology and associate dean of the College of Arts and Science; and Richard L. Koresko, graduate student in psychology.

Their paper, entitled "Psychophysiological Responses During Analogue Systematic Desensitization and Non-Relaxation Control Procedures," first appeared in the journal Behavior Research and Therapy.

Armando R. Favazza, associate professor of psychiatry, has been named editor of the Journal of Operational Psychiatry. He succeeds James M.A. Weiss, professor and chairman of the UMC psychiatry department, who founded and was first editor of the journal established in 1970.

T.D. Luckey, professor of biochemistry, is editor of **Thymic Hormones**, a reference source and guide to future research published by University Park Press of Baltimore and released last summer.

SCHOOL OF VETERINARY MEDICINE

An atlas, text and dissection guide titled "Cat Anatomy" has been published by three veterinarians with connections at UMC.

The authors are **Robert C. McClure,** professor of veterinary anatomy; **Mark J. Dallman** of Joliet, Ill., formerly a research assistant in veterinary anatomy; and **Phillip D. Garrett** of Jackson, former assistant professor of veterinary anatomy.

The book, published by Lea and Febiger, is divided into nine sections. It contains 128 original illustrations by Dr. Garrett, formerly medical illustrator at UMC.

UNIVERSITY PRESS

"No Witness But Ourselves" by Darcy Gottlieb was formally published Dec. 17 by the University of Missouri Press. This new book of poetry is the second of the 1973-74 issues of Breakthrough Books, a series designed by the Press to introduce new writers and new forms in poetry, short fiction, and drama.

David M. Pletcher, whose earlier books have won the Beveridge Prize of the American Historical Association (1957) and the McKnight Humanities Award (1961), is the author of "The Diplomacy of Annexation," a major work published by the University of Missouri Press. Pletcher is professor of history at Indiana University, Blomington.

John Cam Hobhouse, whose career in British politics spanned almost half a century, is the subject of a book published by the University of Missouri Press. The author, Robert Zegger of Northeastern Illinois State University, sees in Hobhouse an instrument of change and an ultimate enemy of change, illustrating the dichotomy that has long baffled historians of the period. Title of the book is "John Cam Hobhouse, A Political Life, 1819-1852."

The University of Missouri Press has published a book that brings together Shaw's numerous, scattered statements on playwriting theory and reveals a comprehensive and coherent theory of dramaturgy. The book, "Bernard Shaw, Playwright: Aspects of Shavian Drama," is by Bernard F. Dukore, chairman of the department of drama and theatre at the University of Hawaii.

"The Village War: Vietnamese Communist Revolutionary Activities in Dinh Tuong Province, 1960-64" by William R. Andrews has been published by the University of Missouri Press. Andrews received his M.A. from Northeast Missouri State University. He is a Major in the U.S. Army.

"Dancing on the Edges of Knives," winner of the 1973 Devins Award for Poetry, was published Dec. 10 by the University of Missouri Press. The publication was marked by a reading by Ed Ochester, author of the collection, at the Jewish Community Center in Kansas City. Ochester teaches English at the University of Pittsburgh.

Faculty Footnotes

COLLEGE OF AGRICULTURE

Professors **Charles W. Gehrke** and **Robert Zumwalt** attended the meeting of the Group for the Analysis of Carbon Compounds in Carbonaceous Chondrites and the Returned Lunar Sample. Gehrke presented a paper entitled, "Search for Amino Acids in Apollos 15, 16 and 17 Lunar Soils."

The Association of Official Analytical Chemists held a meeting in Washington D. C. in October. Attending from the Experiment Station Chemical Laboratories were **Charles W. Gehrke, Paul R. Rexroad, Larry L. Wall Sr.** and **Terry E. Neuner**. They presented three papers entitled, "The Determination of Methionine," "Automated Method for the Determination of P2O5 in Fertilizers," and "Automated Method for the Determination of L-Lysine in Grain." Rexroad gave a report on "Kjeldahl Nitrogen" and Gehrke chaired a meeting of the Magruder Check Sample Committee.

Prof. **Charles W. Gehrke** gave a presentation in Madrid, Spain, on automation of the chemical methods for methionine, lysine, and for the total nitrogen method as developed in our laboratories. The invitation was extended by the Technicon Corporation.

Prof. **Charles W. Gehrke** and **Ralph Franklin,** director of University-wide grants and contracts, represented the University at a meeting of the National Aeronautics and Space Administration—Ames University Consortium in northern California Dec. 3.

COLLEGE OF ARTS AND SCIENCE

English Professors **Thomas Cooke, J. Donald Crowley, Leon Dickinson, Milton Gatch, Winifred Horner, Donald Lance, Gilbert Porter, John R. Roberts** and **Herb Stappenbeck** attended meetings of the Midwest Modern Language Association in Chicago recently. Porter delivered a paper entitled "The Scene as Image: A Reading of Seize the Day," while Stappenbeck spoke on "The Case of Joseph Hergesheimer." Dickinson is chairperson-elect for the 1974-75 section American Literature to 1870. Gatch, MMLA president-elect for 1974, participated in a panel discussion regarding the future operation of the MMLA.

English Professors **Thomas Cooke** and **Timothy Materer** have been nominated by the University for NEH Summer Stipends. Cooke plans to study the comic spirit in Medieval English Literature, while Materer will concentrate upon the association of Wyndham Lewis, Ezra Pound and T. S. Eliot with selected Vorticist painters.

Mary M. Lago, lecturer in English, participated in a panel discussion on "Is Relevancy Relevant?" at Grinnell College. She also was the guest of the English Department of the University of Wisconsin, Oshkosh, where she delivered a public lecture entitled "Cultural Encounters: Perfect and Imperfect," a discussion of her recent work in preparing **Imperfect Encounter: Letters of William Rothenstein and Rabindranath Tagore, 1911-1941** published in 1972 by Harvard University Press.

Betty Crossley Miller, director of music extension, was first chair violist with the Mid-West Directors' Orchestra at the National Band and Orchestra Clinic in Chicago Dec. 18-22.

James A. Middleton, associate professor of music and education, is president of the Southwest Division of the Music Educators National Conference and recently attended the meeting of the national executive board in Williamsburg, Va.

He also served as consultant and clinician in the Ector County (Odessa, Texas) Schools Nov. 7-8 and delivered a paper on "Innovative Instrumental Techniques in Teaching" to the District 18, Texas State Teachers Association, Odessa, Nov. 9, and conducted a workshop in instrumental music for the Ritenour School District in St. Louis, Nov. 19.

K. H. Lee, associate professor of physics, and H. W. White, assistant professor, presented papers at the 19th Conference on Magnetism and Magnetic Materials in Boston, Mass., Nov. 13-16. Topics were: "Specific Heat of the Magnetic Chain TMMC Below 1.2 degrees K" and "Exact Treatment of Non-Periodic Boundary Conditions for Heisenberg Chain."

Brian DeFacio and **Guy Schupp**, associate professors of physics, attended the fall meeting of the Missouri Section of the American Association of Physics Teachers at Meramec Community College, St. Louis, where DeFacio presented a paper entitled, "Teaching Graduate Assistants to Teach."

James W. Gibson, professor of speech and dramatic art, presented a paper entitled, "An Interim Report on the Status of the Basic Course in Speech in U. S. Colleges and Universities," at the annual convention of the Speech Communication Association in New York.

Carla Waal, professor of speech and dramatic art, served as chairman of the Scandinavian Section at the annual meeting of the South Atlantic Modern Language Association in Atlanta.

Stephen M. Archer, director of the theatre, was recently invited to lecture at Luther College, Decorah, Iowa, on Elizabethan and Restoration Acting Styles. He also attended the annual convention of the American Society for Theatre Research at Lincoln Center Library for the Performing Arts in New York City.

COLLEGE OF EDUCATION

J. Christopher Reid, associate professor of education and research associate in the Educational Resources Group of the Medical Center, presented a paper in Tucson, Ariz., at the Rocky Mountain Educational Research Association on the use of various factor analytic models to analyze learning curves, and the effects of stimulus characteristics on learning.

Charles H. Koelling, professor and director of continuing professional education; **Richard Robinson,** assistant professor of education; and **Neila Pettit,** assistant professor of education, presented a symposium on the "Assessment of School Reading Programs: Evaluation for Improvement" at the National Reading Conference in Houston, Texas, Dec. 1.

W. R. Miller, professor and chairman of practical arts and vocational-technical education, and **H. C. Kazanas**, professor, presented a paper titled, "The Development of Teacher Education Personnel for Vocational Education in the 1970s" at the American Vocational Association Convention in Atlanta, Ga., Dec. 1-4.

Miller also presided at the annual meetings of the National Association of Industrial and Technical Teacher Educators as 1973 president of the organization.

Joan Quilling, assistant professor of home economics education, was a guest speaker on curriculum development at the Foods Systems Management National Workship at the UMC Medical Center.

James B. Karnes, assistant professor of industrial education, participated on a site survey team of the American Society of Clinical Pathologists to evaluate the Medical Laboratory Technology Program at Illinois Central College, East Peoria, Ill., during December.

Mary Jane Lang, associate professor of practical arts and vocational-technical education, participated in a meeting of the board of directors of the College of Education Alumni Association, of which she is secretary-treasurer, in St. Louis Nov. 8. She also served as a member of the North Central Committee to Re-evaluate Van-Far High School, Vandalia, and as chairman of the Business Education Committee, Nov. 11-13.

Franklin J. King, coordinator of industrial education, served as general program chairman for the 1973 Four-State Conference held at Kansas State College of Pittsburg, Oct. 5-6.

King also was the principal speaker for the Occupational Education Division at the District Meetings of the Missouri State Teachers Association at Springfield, Mo. Oct. 18 and Rolla, Mo. Oct. 19. His topic was "Another Way to Look at Career Education." On Nov. 8 and 9 he attended the Mississippi Valley Industrial Teacher Education Conference at the request of the permanent chairman, Dr. Rupert Evans, University of Illinois.

John E. Elias, coordinator of distributive teacher education, assisted in an in-service curriculum development project for Hazelwood Senior High School Nov. 7.

Elias was a member of the national task force of vocational educators who successfully negotiated a $250,000 grant from the Office of Economics Opportunity for the purpose of expanding Project 70,001, a special program for exceptional youth throughout the nation. He is currently serving as consultant for the project.

He also presented a paper on the ongoing research generating from the competency based teacher education project on coordination of cooperative education to the Research Division of the American Vocational Association at its national conference in Atlanta, Ga.

Donald Osburn, associate professor of agricultural education and agricultural economics, presented a paper entitled, "Some Characteristics of Part-Time Farmers in Missouri" at the Central Region Research Conference in Agricultural Education at Southern Illinois University.

Joseph C. Robinson, instructor in practical arts and vocational-technical education, participated in an Instructional Systems Design Conference in Biloxi, Miss., co-sponsored by the Southern Association of Colleges and Schools and the Community College of the Air Force.

Bob R. Steward, associate professor of agricultural education, was recently elected national secretary-treasurer of Alpha Tau Alpha, national professional honorary fraternity of agricultural education.

F. Milton Miller, assistant professor of industrial education, made a presentation entitled "A Module Writing Process Missouri Style" at the national Vocational and Technical Teacher Education Seminar in Dallas, Texas, Oct. 22-25. He is also serving as National Membership chairman of the American Council for Elementary School Industrial Arts.

Miller also participated in a VICA workshop and recently completed the development of a self-instructional module on "establish and Guide VICA Club Activities."

COLLEGE OF HOME ECONOMICS

Richard Helmick, assistant professor of housing and interior design, received a special mention award in graphics at the recent Quincy (Ill.) Annual Art Competition. His entry was "Computer Serigraph No. 3," a silk screen print, with computerized patterns.

SCHOOL OF LAW

Fred Davis, professor of law, was a speaker at an insurance seminar sponsored by the Insurance Institute of Northeast Missouri State University, Dec. 5-6.

SCHOOL OF MEDICINE

Kaye H. Kilburn, director of the pulmonary division, was a consultant to the Cracow, Poland, study sponsored by the National Center for Health Statistics, Nov. 24-Dec. 10.

Charles E. Mengel, chairman of the department of medicine, was a visiting professor at the Kansas University Medical Center Dec. 12-13.

Ingeborg G. Mauksch, associate professor of community health and medical practice and nurse practitioner, was program director for the continuing education workshop entitled "Nursing in the Year 2000," Dec. 14 at Carle Foundation Hospital in Champaign, Ill.

James M. A. Weiss, professor and chairman of psychiatry, and **David Davis**, professor of psychiatry and associate chairman, recently returned from an international meeting of the Royal College of Psychiatrists held at the Royal Society of Medicine in London. They were the only American psychiatrists invited to present papers and serve on the discussion panels.

Alexander D. Kenny, professor of biochemistry and investigator at the Dalton Research Center, presented a lecture entitled "Pharmacology of Calcium Metabolism" to the sophomore medical students in the Department of Pharmacology and Toxicology, University of Texas Medical Branch, Galveston, Dec. 6.

SCHOOL OF VETERINARY MEDICINE

Kenneth D. Weide, dean, testified before House Subcommittee hearings in support of Animal Health Research legislation and met with Missouri congressmen to discuss legislation related to veterinary medicine while he was in Washington D. C. Nov. 12-13 for the Council of Deans meeting of the American Association of Veterinary Medical Colleges.

Keith L. Kraner, professor of veterinary medicine and surgery and director of animal resources, was recently named president-elect of the American Association for Laboratory animal Science.

Four members of the veterinary medicine and surgery faculty gave lectures at a workshop on canine disc syndrome, sponsored by the School of Veterinary Medicine, the University Extension Division and the Office of Veterinary Medical Continuing Education, held at UMC Nov. 17-18. They were: **M. J. Bojrab,** surgery; **C. E. Short** and **R. R. Paddleford,** anesthesiology; and **L. A. Corwin Jr.**, radiology.

Leaves and Sabbaticals

Lewis Merrill Cason, assistant professor of art, is on sabbatical from January through August for personal development in painting and illustration in New York City.

Josephine Martin Holik, associate professor of clothing and textiles, is on sabbatical from Jan. 1 to June 30 to work and teach clothing and textiles at the Fort Valley State College in Georgia.

John Henry Kultgen Jr., professor of philosophy, is on sabbatical from Jan. 1 to May 31 to conduct research.

Kenneth C. Schneeberger, associate professor of agricultural economics, will be on sabbatical from Aug. 15, 1974 to Aug. 15, 1975. He has been offered a position as a research fellow in the economics department at Vanderbilt University, Nashville, Tenn., where he plans to expand and update his understanding of macroeconomic theory and applied statistics.

Richard T. Bienvenu, associate professor of history, will be on sabbatical from September 1974 to September 1975. He will spend eight months in London for research on the Industrial Revolution at the British Museum. The summer of 1975 he will spend at Cambridge, Mass., doing research in Harvard's Kress collection of 18th century economic literature. Bienvenu is completing a book on work in Western thought and culture.

Gerard H. Clarfield, associate professor of history, will be on sabbatical from Sept. 1, 1974 to Aug. 31, 1975 to research the history of U.S.-British Caribbean relations, 1840-1860. He plans to do research at the British Museum and Public Record Office.

William A. Thompson Jr., professor of statistics, will be on sabbatical from Sept. 1, 1974 to Aug. 31, 1975 to study applied probability and finish several research projects. He has been invited to spend a year at the Imperial College in London.

Five To Be Honored at Ag Day

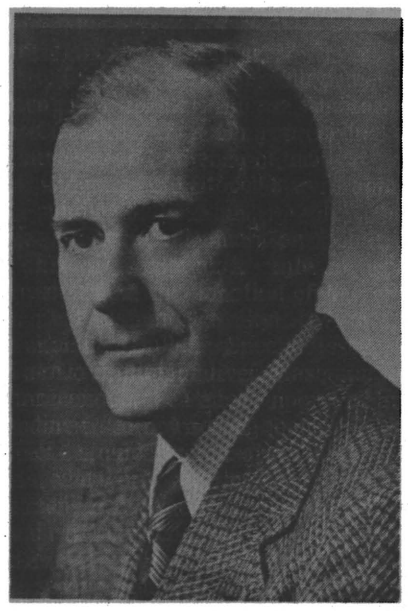
Five individuals will be recognized for their contributions to agriculture at the 1974 Ag Day at the University of Missouri-Columbia Feb. 1.

Ag Day is the traditional finale to Ag Science Week, sponsored annually by the UMC College of Agriculture.

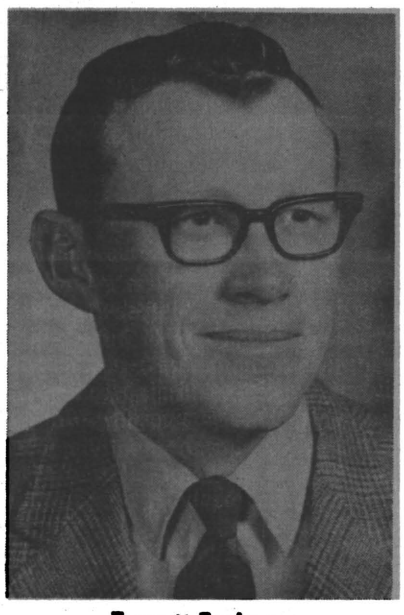
Those receiving special awards on Ag Day include Everett Forkner, Richards; Richard J. Harman, Kansas City; Dorsey R. Martin, McBaine; Robert D. Partridge, Alexandria, Va.; and J. Delbert Wells, Jefferson City.

Forkner, Partridge, and Wells will receive Citation of Merit awards from the UMC Alumni Association. This award is given for professional attainment by agriculture alumni in a field related to the academic curriculum of a division of the University.

Harman will receive an Honorary Ag Alumni Membership from the UMC College of Agriculture Alumni Association for exemplary interest in the College and its agricultural programs.



Richard J. Harman



Everett Forkner

Martin is to be the first recipient of the Agricultural Engineering Innovator Award, given by the department of ag engineering. It recognizes a Missouri farmer who has had a long and close association with University Extension and who is a pioneer in his area in installing and using innovative agricultural equipment in his operation.

Forkner, who graduated with distinction in the upper five percent of his class from the UMC College of Agriculture in 1961, is a purebred Duroc swine producer in Vernon County.

He operates, in addition to 125 purebred, 200 acres of crops and grassland and a small herd of Maine Anjou cattle.

In his breeding program, Forkner has produced numerous carcass, test station, and show ring winners, including 12 national show ring champions, in the past nine years.

A native of Maryville, Partridge graduated from the UMC College of Agriculture in 1938 and holds a master's degree in economics from American University, Washington, D. C.

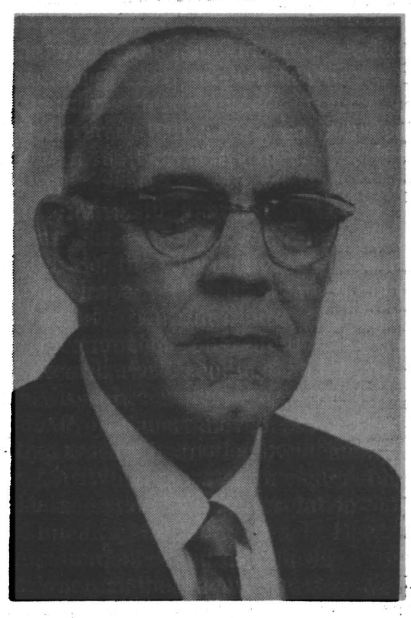
He is executive vice-president and general manager of the National Rural Electric Cooperative Association and is the chief administrative officer for the nearly 1,000 rural electric systems that comprise the membership.

Partridge was with the Rural Electrification Administration from 1946 to 1950 as economist and head economic staff. Following active Army duty in Korea and Germany, he was assistant chief of the program planning division with the REA from 1953 to 1960.

Wells is the manager of agribusiness programs for the Missouri Chamber of Commerce. He is a graduate of Panhandle A & M, Goodwell, Okla., and has a master's degree in animal husbandry from Oklahoma State University. He attended the Missouri College of Agriculture in 1941.

Wells has farmed and has taught animal husbandry, biology, and vocational agriculture. From 1948 until 1960 he was with Farm Bureau organizations in Kansas, South Dakota, Minnesota, and Michigan. From 1960 until coming to the Missouri State Chamber of Commerce, he was director of program activities for the State Farm Bureau in Michigan.

Robert D. Partridge



J. Delbert Wells

Harman is owner and chief executive officer of food service operations for Myron Green Cafeterias Companies, which serve in the Kansas City, Wichita, and Topeka areas. In 1961 he was selected "Missouri Restaurant Man of the Year."

When the food science and nutrition department was established in the UMC College of Agriculture in 1967, Harman was an active supporter and helped establish the food science and lodging management institute in that department.

Harman received a B.S. in industrial chemistry at Kansas State University, where he was an All-American basketball player. He was a candidate for governor of Kansas in 1968 and is a former national president of the Kansas State Alumni Association.

Martin, a life-long Boone County resident, farms 248 acres, plus 90 acres of Missouri River bottomland, in southwestern Boone County between McBaine and Easley.

He is primarily a crossbred swine operator, selling between 1,200 and 1,500 head per year, and also has a small herd of crossbred beef cattle. His crops include wheat, soybeans, corn, and hay.

Working closely with county and state Extension specialists in the 30 years he has farmed, Martin was among the first in the state to build innovative swine facilities which have since been widely adopted.

Dorsey R. Martin

Big 8 Schools Study Doctoral Duplication

Reduction of unnecessary duplication of doctoral programs is a primary goal of members of the Mid-America State Universities Association (MASUA), a voluntary association of seven Big Eight universities including the University of Missouri.

MASUA is a consortium of all Big Eight Schools except the University of Colorado. It was established to develop cooperative programs among member institutions.

Dr. James A. McCain, president of Kansas State University and current chairman of the MASUA Council, has announced that Phase I of the MASUA program — an inventory of doctoral programs that includes degrees offered by the institutions and number of degrees produced in the last five years — has been completed.

"Phase II of the project will be to recommend the elimination of programs where unnecessary duplication exists and to concentrate this work at a single institution," McCain said. "The task of coordinating Phase II has been assigned to MASUA graduate deans and chief academic officers."

Phase I was carried out by graduate deans of the various institutions under the chairmanship of Prof. Norman Cromwell of the University of Nebraska. Cromwell will also chair the new study, McCain said.

Economics Awards Offered

Applications for the 1973-74 Kazanjian Foundation program for excellence in economic instruction are being accepted by the Joint Council on Economic Education, administrators of the national awards program. Announcement was made by the Center for Economic Education at the University of Missouri-Columbia.

Deadline for entries is July 15, 1974. Entrants will be competing for 60 awards and more than $9,000 in prize money in five categories: primary, intermediate, junior high, high school and college. Awards are made to individuals with accompanying recognition for the educational institutions in which they teach.

Awards will be presented and winners honored at a reception in March, 1975, in New York City, held in conjunction with the annual conference of the Association for Supervision and Curriculum Development.

Competition is open to any elementary or secondary teacher in public, private or parochial schools in the United States. College teachers who offer economics courses or courses including economics are also eligible. Only teaching programs carried out between July 1, 1973 and June 30, 1974, will be considered for awards.

The awards project, sponsored annually by the Calvin K. Kazanjian Economics Foundation, Wilton, Conn., is administered by the Joint Council on Economic Education. The Council is a non-profit, nonpartisan educational organization established to coordinate and improve teaching of economics in the national schools and colleges.

Information and applications for entering the competition are available by writing to Economic Education Awards Program, Joint Council on Economic Education, 1212 Avenue of the Americas, New York, N. Y. 10036 or to the Center for Economic Education, 214 Middlebush, University of Missouri-Columbia, Columbia, Mo. 65201. Director of the Center is George Vredeveld, assistant professor of economics in the College of Administration and Public Affairs.

'Underground Papers' Given to UMC Library

A major collection of "underground newspapers" has been given to the University of Missouri-Columbia by Robert J. Glessing, author of "The Underground Press in America." Glessing is an instructor at Canada College, Redwood City, Calif.

The collection, totalling 1,500 newspapers, was the research base for Glessing's book, and contains every edition published of some of the papers.

"Underground newspapers" are generally defined as new papers appearing in communities in the last 10 to 15 years. They usually represent dissenting voices and differing life styles, and are often referred to as the "alternative press."

The Glessing gift was arranged through the UMC School of Journalism. In 1971, Glessing received a Frank Luther Mott-Kappa Tau Alpha Research Award for his research on the book. Glessing has included in his gift magazine articles and other research materials and the first draft through final manuscript of his book.

In making the gift, he specified that the collection be "accessible to any and all scholars from the academic and mass media community whether or not they are affiliated with an academic institution."

Glessing said that 500 of the newspapers were from the collection of Paul Slater, who received a bachelor's degree from the UMC School of Journalism in 1968. As a graduate student at the University of California in his native Berkeley, Slater did his thesis on the California underground press.

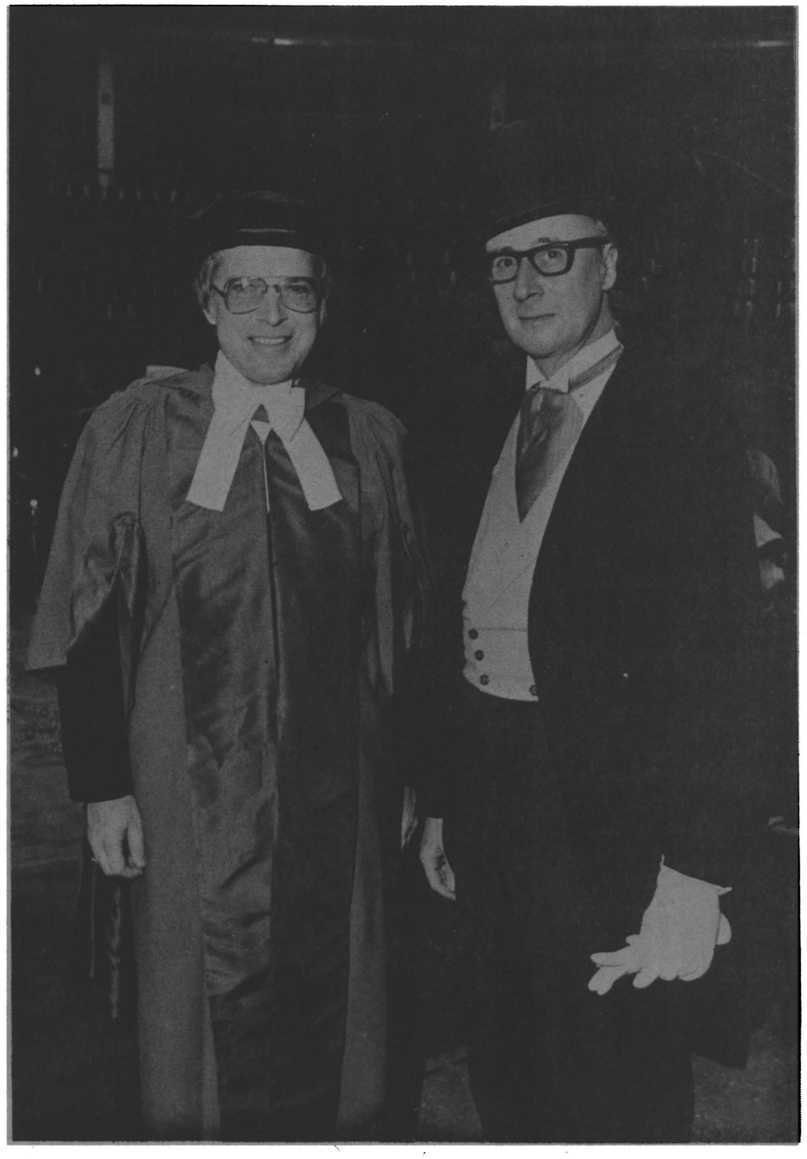
Dwight Tuckwood, director of UMC libraries, said in evaluating the Glessing gift, "it adds considerable strength to our existing collection of underground newspapers, particularly appropriate since a leading school of journalism is located on this campus. This collection will be of increasing value to studies of our social history."

faculty BULLETIN

Vol. 9, No. 5 January 9, 1974

This Issue

	Page
General Faculty Minutes	2
Faculty Council Minutes	2
Proposed Graduate Faculty By-Laws	4-5
Graduate School and Research Notes	Back Page



Unusual academic garb was displayed at the Dec. 18 Graduate School Convocation by Graduate Dean Lloyd E. Berry (left) and Edzard Baumann, associate professor of art history and archaeology. Although both wear official academic dress, neither outfit is the usual seen at UMC ceremonies—Berry's bright scarlet robe is from Cambridge University and Baumann's morning dress from the University of Vienna.

For more pictures taken at the convocation, see page 3.

Graduate School and Research Notes

OFFICE OF COAL RESEARCH — Public Law 86-599 established the Office of Coal Research to encourage and stimulate the production and conservation of coal in the United States through research and development by authorizing the Secretary of the Interior to contract for coal research and for other purposes. The Office of Coal Research invites proposals from recognized, interested organizations to be considered as the basis of entering into contract negotiations covering research and development work in the fields of mining, preparation, utilization, and coal economics and marketing. Either formal or informal proposals may be submitted. All proposals should be submitted to: Director of Coal Research, U.S. Department of Interior, Washington, D.C. 20240. The Office of Research has recently received new guidelines for this program.

NEA MUSEUM PROGRAM — The National Endowment for the Arts supports the growing role of museums in American cultural life by funding a program designed to assist: 1) American museums in meeting the increased demands for their services; 2) in the training and preparation of professional staff; 3) in the preservation of museum collections; and 4) museums and artists through purchase awards for the acquisition of works of art by living American artists. NEA will also consider proposals for specific projects which do not fit into any one, or which fit a combination of the programs. For a list of the program's specific award areas and their deadlines, call Mrs. McQuary.

NSF OFFICE OF EXPERIMENTAL PROGRAMS AND PROJECTS — The National Science Foundation is inviting preliminary proposals in the area of increasing the availability of high school student project activity as part of the high school curriculum. The Foundation wishes to explore various mechanisms through which project activity can be made available to secondary school students during the regular school year, in or outside the school. Two types of proposals are invited:

a) Experimental projects trying out ways to introduce student project activity in association with high school science programs during the regular school year. Experiments should be clearly stated, the design, procedures, and evaluation plan set forth, the key personnel identified, the costs estimated.

b) Studies of current project-type activities in, or associated with, secondary schools leading to a comprehensive summary of the kinds of activities underway, their sources of support, and an assessment of their effectiveness as teaching mechanisms or motivators.

Preliminary proposals, which may be in the form of a letter, outlining the proposed study or experimental project should be submitted by Jan. 15. Contact: Experimental Projects and Problem Assessment Group, Office of Experimental Projects and Programs, NSF, Washington, D.C. 20550 (202) 282-7947.

NIMH SMALL GRANTS — Research grants not to exceed $5,000 are awarded to faculty of colleges for conducting studies in behavioral, biological and medical services relevant to mental health. These grants are intended for the younger, less experienced investigator. Priorities for FY 74 include: 1) any activity dealing with the development of children (age to 18); 2) studies of the family) 3) crime and delinquency; 4) alcoholism; and 5) studies of minorities. For further information, contact: Dr. Stephanie B. Stoltz, Chief, Small Grants Section, National Institute of Mental Health, 5600 Fishers Lane, Rockville, Md. 20852. 301-443-4337. Applications with June, July, or August starting dates must be received no later than Feb. 1 in order to be reviewed in time for the award of summer support.

NIE RESEARCH GRANTS — The National Institute of Education, which has been the victim of a 50+ per cent cut in budget request, has through some "book juggling," managed to allocate approximately $15 million to support new research grants during the current fiscal year. About $5 million of the new money will be devoted to a small research grants program that will focus on five specific issues: essential skills; relevance of education to work; diversity, pluralism, and opportunity in educational systems; production and utilization of knowledge; and efficiency and productivity in education. The remaining $10 million will support in-house research, spontaneous proposals that fall outside the priority areas, and other exploratory and planning studies. Preliminary proposals of no more than five pages are due at NIE by Jan. 28. For further information, contact: Mr. Andrew Falender, Research Grants Program, National Institute of Education, Washington, D.C. 20208.

ANALYSIS OF SPEECH, LANGUAGE AND HEARING DEFECTS — The National Institute of Neurological Diseases and Stroke is looking for insitutions interested in the assessment and interpretation of the influence of material, socio-economic, neonatal and other medical and personal factors on the occurence of speech, language, and hearing defects in order to facilitate prevention, early diagnosis, and treatment. The relative frequency of speech, language and hearing defects will have to be determined as well as the associated psychological and neurological handicaps of affected individuals. The natural history of these communicative disorders will have to be assessed by establishing when they become manifest and by determining the changes that take place at the affected childhood ages. Request for proposal NINDS-74-06 is available from the Contracting Office, National Institute of Neurological Diseases and Stroke, Office of Research Contracts, C&FR, Room 8A-34, Building 31, National Institutes of Health, Bethesda, Md. 20014. Completed forms must be returned by Feb. 25, 1974.

SOME OTHER DEADLINES

Danforth Graduate Fellowships for Women	Jan.11
Office of Water Resources Research grants	Jan. 11
National Research Council postdoctoral associateship	Jan. 15
Ford-Rockefeller population research grants	Jan. 15
Smithsonian Institution Postdoctoral fellowships	Jan. 15
OE Adult Education grants	Jan. 21
Decision-related research on metropolitan areas	Jan. 22
NATO Senior fellowships in science	Jan. 31
PHS research grants	Feb. 1
Doctoral Dissertation fellowships in natural resources	Feb. 1
American Council of Learned Societies grants-in-aid	Feb. 15
ACLS grants for summer research in linguistics	Feb. 15
NSF Undergraduate Instructional Scientific Equipment	Feb. 11

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 6 February 6, 1974

Criteria Established For Doctoral Faculty

Criteria for nomination to the Doctoral Faculty and application blanks have been sent to all department chairmen, according to Lloyd E. Berry, dean of the Graduate School.

Berry said the material is to be distributed to any individual who desires to become a member of the Doctoral Faculty. "All persons, regardless of their previous status within the Graduate Faculty, must apply at this time to be eligible for membership in the Doctoral Faculty," he added.

The following dates have been established for this campus:

Feb. 1—Forms to faculty
Feb. 25—Date due in office of the Divisional Dean
March 4—Date due in office of Campus Review Group
April 1—Date due in office of Graduate Dean

April 8—Date due to ad hoc Advisory Peer Group
April 22—Date due in office of Graduate Dean
April 29—Date due to Chancellor
May 3—Date due to ad hoc Doctoral Council

Committee Reviews Promotions, Tenure

Divisional recommendations for promotions and tenure are being reviewed by the Campus Tenure and Promotions Committee, with the hope that a final decision can be reached by the end of March, Owen J. Koeppe, provost for academic affairs, said.

Koeppe said the committee will forward its recommendations to the Chancellor, who in turn will send them to University Hall sometime around the end of February. The provost said he is hopeful that University Hall administrators will make a final decision by the end of next month.

Members of the Campus Tenure and Promotions Committee, in addition to Koeppe who is chairman, are: Lloyd Berry, dean of Graduate School; Roger Mitchell, dean of extension; Neil Aslin, professor of educational administration; John Murdock, professor of economics; John R. Roberts, professor of English; and Ray Schroeder, professor and chairman of horticulture. The faculty representatives were selected by the Faculty Council.

Orientation Leaders Sought

The Center for Student Life is seeking orientation leaders for Summer Welcome '74, according to Margy Harris, program adviser. There are 32 positions open.

"We'd like to solicit the help of faculty and staff in identifying students who would have the qualifications necessary," Miss Harris said.

Employment would start with a 2-week intensive training program, beginning June 3. Summer Welcome runs June 16 through July 17. Students would be paid $600 plus room and board.

Applications are available at the receptionist's desk at the Center for Student Life in Read Hall and must be returned by Feb. 8.

A cross-section of students — from all academic divisions and all life styles and living units — is being sought. Questions may be addressed to Miss Harris at 882-3616.

Equipment Funds Allocated

Funds are being allocated to divisions to purchase special equipment, primarily "items that directly support academic programs," Owen J. Koeppe, provost for academic affairs, has announced.

Koeppe sent a letter to divisional deans and other selected administrators Jan. 31 explaining the allocations and assigning an approximate number of dollars to each division or other unit.

Deans were asked to submit a list of equipment with estimated prices to Assistant Provost Larry Clark no later than Feb. 25.

Koeppe said he hopes to inform the deans of the level of funding approved for their divisions by about March 4.

Quadrangle Named National Historic District

Frances Quadrangle and 18 surrounding red brick buildings on campus have been entered on the National Register of Historic Places.

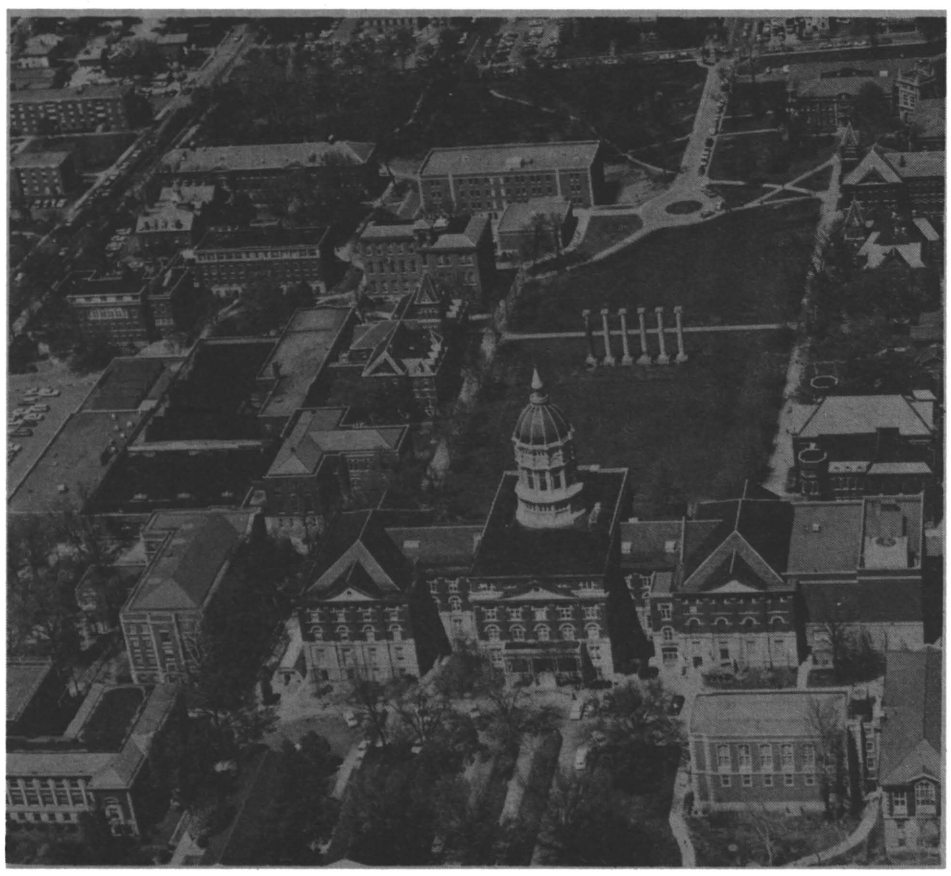
Expressing pleasure at the recognition, Chancellor Herbert W. Schooling noted that the "Quadrangle Historic District" — with its buildings dating back to 1867 and known as the "Red Campus" — will be eligible for federal matching grants-in-aid monies to assist in future restoration and repairs.

These buildings, in order of construction, are the Chancellor's Residence, Switzler Hall, Sociology Building, Old Chemistry, Swallow Hall, Jesse Hall, three portions of the Engineering complex bordering the Quadrangle, Parker Hall, McAlester Hall, Jay H. Neff Hall, Noyes Hospital, Lee H. Tate Hall, Education Building, Student Health Center, Walter Williams Hall and A. Ross Hill Hall.

The National Register is the "official schedule of the nation's cultural property that is worth saving . . . protective inventory of irreplaceable resources across the face of the land." Copies are sent to libraries and government agencies.

Osmond Overby, professor of art history and archaeology, observes that the Quadrangle Historic District's inclusion in the National Register commits federal agencies to protect the buildings for their cultural and historical value and places an obligation upon the University for maintenance and preservation.

Nomination of the Quadrangle was made by James L. Wilson, preservation officer for implementation of the National Historic Preservation Program in Missouri. A date will be set for presentation to UMC of a certificate with the official recognition.



Over the years, alterations and additions have been made to the 18 campus buildings. At present, Switzler Hall is being reroofed. Remodeling is expected to begin this fall inside the Old Chemistry Building, which will house the department of art history and archaeology, a classroom, teaching laboratory and learning center.

The Quadrangle "on the old or west campus" was named "in honor of David R. Francis," according to minutes of the University Board of Curators, "and in recognition of his services in rebuilding the University after the fire of Jan. 9, 1892, when he was governor of the state."

Focus for the area is an open mall with six Ionic columns which are all that remain of Academic Hall after the fire of 1892. The area also contains the original tombstones of President Thomas Jefferson and David Barton, Missouri's first United States senator.

Francis Quadrangle has been given the distinction of National Register enrollment "because of its buildings' significance as memorials and monument to the people of Missouri," Preservation Officer Wilson said in notifying Chancellor Schooling of the acceptance. The Quadrangle, "heart of the District," he said, "is significant as the oldest, most monumental expression of the quadrangle type of campus setting in the state, symbolizing the historic significance of the University of Missouri as the first state university established west of the Mississippi River. Six of the Quadrangle structures also stand as intact, well-preserved examples of the work of Missouri's institutional architect, Morris Frederick Bell (1849-1929)."

The 18 buildings in the Quadrangle Historic District are all close in architectural quality. Although some of the buildings do not face the Quadrangle and may not be of historical interest alone, they are important as part of the whole complex, Overby says.

Their styles include Italianate (Chancellor's Residence, oldest building on campus, built in 1867, and Switzler Hall, oldest classroom building, 1872) and Eclectic, those built between 1892 and 1895 with features of Richardsonian Romanesque, High Victorian Italianate, High Gothic and Classic Revival (Sociology, Chemistry, Swallow Hall, Jesse Hall and portions of the engineering complex that border the Quadrangle).

Parker Hall was built in 1900 in Second Renaissance style, then followed by Jay H. Neff Hall, Lee H. Tate Hall and Walter Williams Hall. Buildings reflecting the Georgian Revival are McAlester Hall, Noyes Hospital, Student Health Center, Education Building and A. Ross Hill Hall.

The Quadrangle and its six buildings designated by Architect Bell are called his "supreme accomplishment," as stated in the National Register form. Bell came to Missouri from Hagerstown, Md., and made Fulton his home.

Research for the Quadrangle inventory-nomination form was based on studies by Marian Ohman, program coordinator for humanities in the Extension Division. She made the studies as a graduate student under Prof. Overby. The inventory form is on file at the Missouri State Historical Survey and Planning Office of the Missouri State Park Board, and with the Department of Interior in Washington, D.C.

Other UMC areas have received historic recognition — Sanborn Field and Soil Erosion Plots were named National Historic Landmarks in 1965 for "possessing exceptional value in commemorating and illustrating the history of the United States." Sanborn Field is the oldest agricultural experiment field west of the Mississippi. Auremycin was isolated from a soil sample taken for the field. Results of a Soil Erosion Plots study provided the basis for the soil conservation movement, noted on a plaque at the site. As National Historic Landmarks, the areas are included in the National Register of Historic Places.

Other places in the campus vicinity which are in the Register are the Gordon Tract Archaeological Site, in the Rock Quarry area and the Sanford F. Conley House (1868), 602 Sanford Place, designated as a "rare local example of the Italianate style."

Professors Win 'Purple Chalk'

The "Purple Chalk Award", signifying teaching excellence, will be given to four professors in the College of Arts and Science in a special ceremony Feb. 21 during Arts and Science Week.

Arts and Science students elected the four Jan. 31. John Kuhlman of economics, David Davies of geology, William Bondeson of philosophy and William M. Jones of English were chosen to receive the newly-established award.

The "Purple Chalk Award" was created by the Arts and Science Student Government this year to "reward good teaching and give professors the recognition they deserve."

Tom Battistoni, president of the student government, said the professors were elected from a slate nominated by the 45 students who make up the Arts and Science Student Government.

"We tried to take into account such things as a teacher's personal interaction with students and his class preparation, the scholarly work he does. We wanted to recognize those teachers who are enriching the lives of students on this campus."

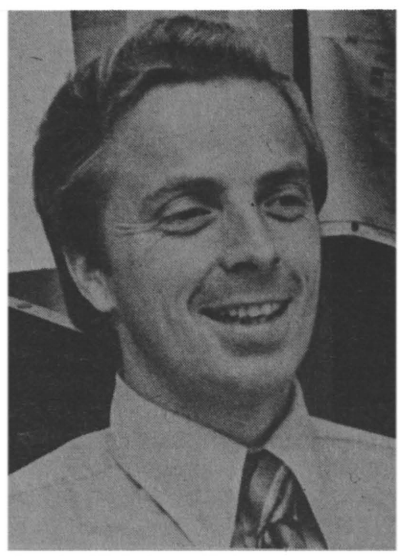
Professors were nominated in one of three categories: humanities, social sciences or natural sciences. Kuhlman polled 47 per cent of the vote in social sciences, or 260 out of 569 votes cast. Others nominated in that category were Paul Nelson of speech, Loren Reid of speech and Peter Hall of sociology.

In the natural sciences area, Davies received 37.5 per cent, or 198 of the 528 votes cast. John Farmer of biology, Edward Kaiser of chemistry and Robert Breitenbach of biology were the other nominees.

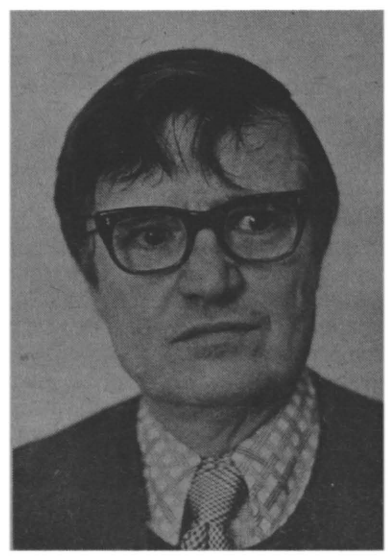
Bondeson and Jones each received 138 of the 540 votes cast in the humanities division, for 25.5 per cent each. Others considered were Charles Nauert of history, Theodore Tarkow of classics and John Roberts of English.

The "Purple Chalk Awards" will be presented during an honors tea to be held at 3:45 p.m. Feb. 21 in the Faculty-Alumni Lounge of the Memorial Union. At this time also, about 100 of the approximately 7,000 Arts and Science students will be honored for their academic excellence.

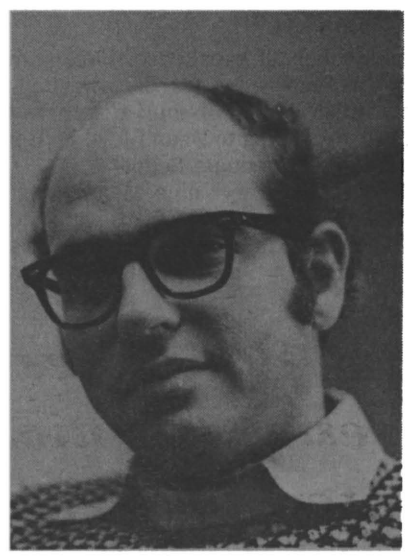
WILLIAM M. JONES



DAVID DAVIES



JOHN KUHLMAN



WILLIAM BONDESON

Nutrition Emphasis Week Set for March 4-6

The annual Nutrition Emphasis Week at the University of Missouri-Columbia will this year honor Dr. Margaret Ohlson on March 4, 5, and 6. She will deliver the Hogan Memorial Lecture at 7:30 p.m. on March 5, in the Memorial Union Auditorium. The lecture is entitled "Trends in Patterns of Eating in the United States and the Implication of Good Nutrition."

Dr. Ohlson will be honored at dinner in the Memorial Union March 4, and at a reception following the March 5 lecture. Banquet tickets may be obtained from Dr. David Hutcheson, Sinclair Research Farm, University Missouri, Route 3, Phone 445-4431.

MARGARET OHLSON

The Hogan lecture is an annual event at UMC in memory of the outstanding research in animal and human nutrition of the late Professor A. G. Hogan. Faculty in medicine, veterinary medicine, home economics, and agriculture participate in Nutrition Emphasis Week.

Two of Dr. Ohlson's colleagues and former students will participate in the scheduled events — Dr. Annette Gormican and Dr. Charlotte Young. On March 4, at 3:40 p.m. in the Memorial Union Auditorium Dr. Gormican will speak on "Current Concerns in Clinical Nutrition and Applied Dietetics — New Challenges."

On March 6 at 3:40 p.m. in the Medical Center Auditorium, Dr. Young will speak on "The Unsolved Problems of the Obesities."

Some of the outstanding nutritionists honored in previous years as the Hogan Memorial Lecturer have been Dr. William C. Rose, Dr. Paul Gyorgy, Dr. Max Kleiber, and Dr. Roger J. Williams.

Dr. Ohlson, the 1974 Hogan Memorial Lecturer, has an extensive background in nutrition and dietetics. This well-known nutritionist has served as a hospital dietitian, as a nutrition consultant for the armed services, as a lecturer in nutrition, as director of nutrition, and researcher in medical centers and nutrition.

Dr. Ohlson was a leader in NC5, the original regional nutrition research project on energy and protein. She served as secretary and president of the American Dietetic Association and was the president of the second International Congress held in Rome.

She was a member of the Food and Nutrition Board of the National Research Council from 1952 to 1958. She has received the Borden Award and the Marjorie Copher award of the American Dietetic Association. She has been elected a fellow of the American Public Health Association and the American Institute of Nutrition.

Dr. Young is a professional colleague of Dr. Margaret Ohlson and was Dr. Ohlson's first student. She is a dedicated nutritionist, research worker and teacher.

Dr. Young is currently a professor of medical nutrition in the Graduate School of Nutrition at Cornell University in Ithaca, New York. She also holds an appointment in the New York State College 0f Human Ecology and as a medical nutritionist with Gannett Medical Clinic in the Cornell University Health Service.

Dr. Gormican studied under Dr. Ohlson at the University of Iowa in the early 1960s. She is currently at the University of Wisconsin in Madison as director of the dietetic internship program and in charge of graduate student programs. Her interests are in Clinical dietetics and in the use of the computer.

Information Desk Set Up In Lobby of Ellis Library

An information desk has been set up in the lobby of Elmer Ellis Library to assist persons in locating materials and services within the building, and particularly to help them use the card catalogs.

The desk will be staffed seven days a week for most of the hours the library is open. June DeWeese and Gina Mares, both newly appointed librarians, will staff the desk during the week. Nan Blaine and Karl Proehl, two graduate library science students, will staff the desk on weekends.

According to Harry Butler, director of public services at the library, an information desk of this kind is made necessary by the size and complexity of the building and by the subject divisional arrangement of library services.

Several years ago the information desk was discontinued because of lack of adequate staffing, Butler said.

Lawrence Welk to Present Champagne Music in Hearnes

Lawrence Welk and his entire television company will present 2½ hours of "champagne music" at Hearnes Multipurpose Building, at 8 p.m. March 16.

Welk, a fixture on television since 1955 when he performed on a summer replacement show, will be making one of his limited "road" appearances which have been so popular that sell-out crowds are a rule rather than an exception.

Included among his roster of performers will by Myron Floren, Joe Feeney, Bobby and Cissy, Jim Roberts, Mary Lou Metzger, Guy and Ralna, Arthur Duncan, Ken Delo, Tanya Welk, Clay Hart, Gail Farrell and others seen on the weekly Lawrence Welk Show.

Tickets for the show ($7, $6, $5, and $4) were placed on sale Feb. 4 at the Hearnes Box Office, and mail orders will be accepted. They should be addressed to Lawrence Welk Show, P. O. Box F, Columbia, Mo. 65201.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 114 Jesse, or to the Office of Public information, 223 Jesse, 882-6211.

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The University of Missouri
An Equal Opportunity Institution

Cooperative Engineering Planned

The University of Missouri-Columbia and Stephens College have announced agreement to participate in a cooperative program enabling Stephens Associate of Arts graduates to earn an engineering degree at UMC following two additional years of study.

John C. Lysen, Director of the Engineering Experiment Station at UMC, said the addition of Stephens brings to 17 the number of colleges and universities in Missouri participating in the engineering transfer program. The plan allows students to spend their initial two years at schools close to their homes and then transfer to UMC as juniors.

A smooth transfer is assured, Lysen said, through the cooperative planning of a course of study at both institutions.

"We are happy to make the affiliation because of the industires that are seeking interviews with women graduates," Lysen said. "Nearly every firm has openings for women. In fact, I inquired of one manufacturing firm about employing women engineers and was told, 'We'll take all you've got.' "

Alfred Novak, sciences coordinator at Stephens College, said that "the beauty of the program is that women would like to study engineering if they could start in a way not so precipitous as enrolling directly in a large engineering school.

"If they have an opportunity to go to small schools for two years, to check out their calculus, physics and chemistry, then transfer into a large university, I believe a lot of women students will take advantage of the plan. We believe we can give women a more comfortable atmosphere to start engineering training."

While the program is essentially for transfers, Lysen didn't rule out possibilities of some Stephens undergraduates taking a class or two on the UMC campus, particularly if that step proved more advantageous.

Lysen said that transfer programs are partly responsible for increased upperclass engineering enrollments at UMC. He also pointed to recent surveys showing that women engineers rate starting salary offers larger than those made to men and that 61 per cent of women engineers move into supervisory or staff positions.

Doctoral Fellowships Announced by UMC

As symbols of excellence, 16 beginning doctoral fellowships will be awarded by the University of Missouri-Columbia for 1974-75, according to Dean Lloyd E. Berry of the UMC Graduate School.

The fellowships — nine $1,000 Gregory Doctoral Fellowships and seven $1,000 UMC-Graduate School Doctoral Fellowships — are available to any student who will have completed 30 hours of post-baccalaureate work by August, 1974.

Dean Berry pointed out that the awarding of these fellowships from very limited UMC funds indicates the high priority given to the program. The step is taken during a time when Federal support money has been drastically reduced.

An interested student, Berry said, must apply to the appropriate UMC department or area program, which in turn will send a fellowship application form. Applicants must submit the completed form by March 1 to the appropriate department or area program director, including Graduate Record Examination scores, undergraduate and graduate transcripts, and a letter of recommendation from a professor who has supervised the applicant's graduate work.

Each UMC department or area program director will nominate three persons listed in order of priority, by March 15, and successful applicants will be notified on April 1.

Berry said that each awardee may hold a graduate teaching assistantship or graduate research assistantship, if such is available, up to 25 per cent of full time equivalency. In teaching assistantships this normally amounts to one course, for which the current minimum compensation is $750. Holders of fellowships are exempt, for the period of the fellowship, from out-of-state tuition of $500 per semester.

The fellowship selection program will be directed by Donald K. Anderson Jr., associate dean of the Graduate School. Questions concerning the program may be directed to him or to his secretary, Mrs. Betty Seiler.

Five Countries Present Exotic Entertainment

International Night will feature exotic entertainment from five countries at 8 p.m., Saturday, Feb. 9 in Jesse Auditorium.

The program will include a skit "Japan: Long Ago and Today" with demonstration of the "Cherry Blossom Dance" and "The Summer Dance" by Japanese students.

Iranian students will present a slide show, "Oil and Its Relationship to the Energy Crisis." Thai students will dance the "Chiu Choi" which portrays a favorite story from classical literature and the "Klong-Yao," a Thai art form.

Students from India will perform a number of native dances including the famous "stick dance." A 20-member choir of Korean students will sing traditional and popular songs of Korea.

The performance, which is sponsored by MSA International programming, is free and open to the public. Abdul Said, a student from Saudi Arabia, will be the moderator.

Classroom Policy Set

A shortage of classroom space on the Columbia campus has forced the administration to put a ban on the conversion of classrooms to space for other purposes.

Owen J. Koeppe, provost for academic affairs, and John F. McGowan, provost for administration, sent a letter to all divisional deans and directors on Jan. 29 explaining the new policy.

The letter states that any exceptions to the policy "would have to be justified and approved by the Chancellor personally."

Koeppe said the letter was just the initial step. He said the administration plans to seek the advice of student and faculty groups on ways to ease the classroom shortage situation.

"We'll look toward possible ways of making more efficient use of classrooms in the late afternoons and Saturday mornings, too," Koeppe said.

News-In-Sound

For a brief nightly run-down of cultural events, entertainment features and campus news, News In Sound, 882-7869, produced by the Office of Public Information for the University of Missouri-Columbia.

Hours Listed for Hearnes

The fieldhouse, practice gym and wrestling room of Hearnes Multipurpose Building are available to faculty and staff for recreation, but pre-scheduled events and varsity team practices take precedence, according to Duane L. Wolfe, assistant to the director of Hearnes.

He gave the following schedule, which he said will be in effect for the coming weeks.

The fieldhouse, practice gym and wrestling room will generally be available 8 a.m. to 2 p.m., Monday through Friday. From 2 to 5:30 p.m., varsity track, basketball and wrestling teams practice.

From 6 to 9 p.m. the fieldhouse is used for baseball practice, but it is available from 9 to 10 p.m.

The practice gym is used for women's varsity basketball from 6 to 7:30 p.m., but it is available from 7:30 to 10 p.m.

The wrestling room is available 6 to 10 p.m. Monday through Friday.

During weekends, the fieldhouse is used for baseball or track practice from 8 a.m. to 12 p.m. Saturday and it is used for varsity tennis practice from noon to 5 p.m. Saturday and Sunday.

The practice gym is used for team practices in the morning, but is generally available from 12 to 5 p.m. on weekends, except when needed by the basketball team for practice.

Hearnes closes at 5 p.m. on Saturday and Sunday.

Family Physicians Specialize in People

Doctors specializing in people. These are physicians emerging from medical schools who want to take additional training to become specialists in family medicine.

Family physicians care for entire families, trying to keep everyone well rather than just stepping in when there's a crisis. They are qualified, however, to treat at least 80 percent of a family's health complaints.

They quarterback your care when you need a surgeon or other specialists, following through to see that you receive the attention and help you need. They might perform minor surgery and deliver babies but wouldn't take out your appendix or perform other major surgery unless qualified by special surgical training.

Indicative of a shifting emphasis in the delivery of health care, approximately 30 percent of the 97 medical school seniors at the University of Missouri-Columbia have applied for three-year residency training programs in family practice next year.

"The competition is pretty tough in getting into the family practice training program you want," says Greg Steiner, a senior from St. Louis. "There are about three times as many applicants as there are places available in training programs across the country."

The family medicine program at UMC Medical Center can accept six new trainees a year — a total of 18 in the three-year program. The number is limited by funding for faculty salaries, as well as the scarcity of teachers in this specialty.

In 1973, 17 percent of the UMC graduates chose family medicine training, double the number of the previous year. The increase became nation-wide when family practice was approved as a specialty by the American Medical Association in 1970, requiring three years of special training. Prior to that, physicians known as general practitioners could begin practice in most states after one year of internship following graduation from medical school.

"About 25 years ago the United States began to place major emphasis on the creation of new medical knowledge. The National Institutes of Health were established, making grant funds available for basic medical research. This, in turn, led to increasing specialization in medical fields," explains Dr. Jack Colwill, director of the family medical care center at UMC.

And what happened to the general practitioner? As efforts provided the nation with the most highly trained consulting specialists in the world, almost no medical graduates entered general practice.

"We have developed progressive concerns that large segments of our population have not had ready access to health care," Dr. Colwill says. "National priorities in health now revolve around three terms — accessibility, quality and economy."

"A lot of people go to specialists when they really don't need to," says medical student Steiner. "It's more expensive and often you have to wait for an appointment."

During the past few years, training programs have been developed to make the family physician a true specialist in the common illnesses and health problems of all family members — the baby's colic, the first grader's chicken pox, brother's cut finger, mother's pregnancy, and father's ulcer, for example.

"I like primary care because that's where you get to know the people," Steiner says, "and it's a good way of working in preventive medicine."

Bill Wilson is a fourth year medical student who chose to spend a full year working in the family medical care center at UMC.

"Missouri has one of the best training programs in the country," Wilson says.

Wilson lives on a farm near Ashland now, and "I want to end up practicing in a rural area," he adds. By 'rural' he means a town of 15,000 or less.

Dr. Patricia McGannon and Dr. Alan David are residents in training at Missouri. Dr. McGannon is a graduate of the University of Nebraska where she was in a three-year program geared especially toward family medicine; she hopes to join a group practice in a small community.

Dr. David says he likes the "total patient concept." It's not just disease-oriented when you deal with a whole family, he explains. A Michigan native, he thinks Missouri has a lot of appeal because "the friendliness of the people is so great" and aims for either a teaching career or a group practice with a minimum of four doctors.

More teachers are needed in the family practice specialty, Dr. Colwill agrees, to provide more training programs for the young doctors now opting for this type practice.

This newest specialty is geared to what physicians call "primary care" in that the family practitioner is the one the family group seeks first. He, in turn, calls in consultants or makes referrals to specialists when necessary. It is the only specialty that requires a recertification examination every six years, a stipulation designed to compel the family physician to keep abreast of new knowledge and techniques.

Lodwick Gets Medal

Gwilym S. Lodwick, professor and chairman of the department of radiology, has been recognized for his contributions to his field by being awarded the gold medal of the XIII International Congress of Radiology.

A pioneer in computer applications, Dr. Lodwick has previously been honored by Sigma Xi scientific society of UMC and by his alma mater, the University of Iowa College of Medicine. Another recent recognition came with his biographical sketch in "Who's Who in the World," 1974 edition.

Dr. Lodwick was one of the invited speakers at the International Congress of Radiology in Madrid last October. He is noted for his work in developing computer-assigned diagnosis of bone tumors, and more recently, development of a computer program for automated diagnosis of heart and lung disease.

He was largely responsible for inaugurating interdisciplinary bioengineering programs at UMC.

GWILYM S. LODWICK

Ensminger Honored

Douglas Ensminger, professor of rural sociology at the University of Missouri-Columbia, received an honorary doctorate degree from a university in India in ceremonies Jan. 14 at Champaign, Ill. Also honored was David D. Henry, president emeritus of the University of Illinois.

The doctorates were presented by D. P. Singh, chancellor of Govind Ballabh Pant Agricultural and Technological University at Pant Nagar, India.

Dr. Ensminger was honored for his 19 years of service with the Ford Foundation in India and Dr. Henry because of the assistance from the University of Illinois in establishing the Pant Nagar school.

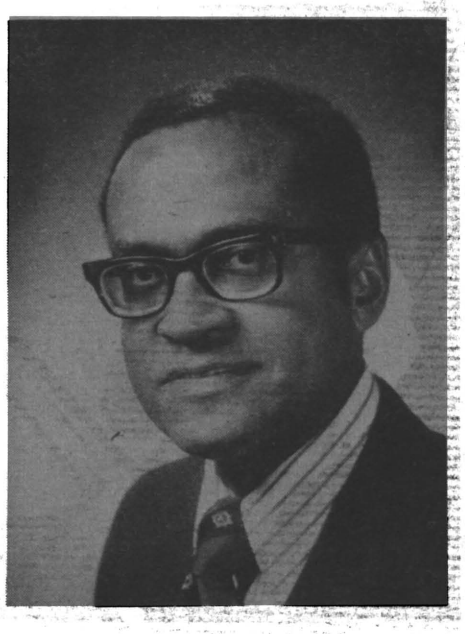
Ensminger has been on the UMC faculty since September, 1970, returning that year from India where he was the Ford Foundation representative.

McKinney Elected

T. Charles McKinney, associate professor of community health and family medicine-management at the University of Missouri-Columbia, has been elected president of the Missouri division of the National Association of Health Services Executives (NAHSE).

The recently organized group composed of health administrators, educators and planners will serve as a vehicle to promote better health care and community services in Missouri.

NAHSE, as well as the Missouri chapter, is composed of predominantly Negro executives in the health services field. Programs, projects, research and educational efforts will be directed mainly toward the Negro health services consumer.



T. CHARLES MCKINNEY

Hoeppner Joins Staff

An engineering researcher from industry has joined the staff of the College of Engineering as a visiting professor of mechanical engineering, nuclear engineering, and bio-engineering.

He is David Hoeppner, formerly a group leader in the Advanced Design and Research Laboratories of Lockheed-California, Burbank, Calif.

Dr. Hoeppner earned a bachelor of science degree in mechanical engineering from Marquette University, and M.S. and Ph.D. degrees from the University of Wisconsin.

He held various teaching positions from 1958 through 1964, and has had considerable experience in applied materials research and the successful development of contract support.

Gifts and Grants

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

A $10,000 scholarship has been established for students in CAPA. Mrs. **Lucille Green** established the fund in memory of her husband, Henry Hatch Green, nationally known grain dealer of Pattonsburg.

Phillips Petroleum Company has awarded $2,500 from its Professional Development Fund to be used by the Colleges of Engineering, Arts and Science, and Administration and Public Affairs.

COLLEGE OF ARTS AND SCIENCE

The U.S. Department of Health, Education and Welfare's Administration on Aging has made a $39,715 grant for the first year of a two-year study of "Housing and Health Care Paths of Dependent Elderly."

The study is under the direction of Ellen H. Biddle, research associate, Center for Research in Social Behavior; Robert W. Habenstein, professor of sociology and Center research associate and Charles H. Mindel, assistant professor of sociology and Center research associate.

A $54,000 grant for a project to re-study 1,700 elderly persons located in small Missouri towns was awarded by the **U.S. Department of Health, Education, and Welfare's Administration on Aging**. C. Terence Pihlblad, professor emeritus of sociology and Robert L. McNamara, professor of rural sociology and sociology are the principal investigators.

Donald M. Lance, associate professor of English and chairman of the Linguistics Committee, has been awarded a grant for the '74 summer term. The grant, given by the **Kansas City Association of Trusts and Foundations**, will be used to fund a class in Swahili and to provide the salary for the coordinator of an African culture program in the Black Culture House. The funds were provided by the Edward F. Swinney Fund.

A recent $5,000 grant from the **U.S. Department of Health, Education and Welfare** will enable libraries to add a number of publications in environment and ecology.

COLLEGE OF ENGINEERING

The Associated General Contractors of Missouri has awarded scholarship grants totalling $6,900. This program, together with the Missouri Construction Industry Advancement Fund, annually provides financial aid for undergraduate and graduate civil engineering students.

A $2,000 grant from **Atlantic Richfield Company** for use by the College of Engineering was presented to finance the Synergistic Technology Conference to be held in April in Kansas City.

The National Science Foundation contributed $12,500 toward the purchase of a $25,000 exhaust gas analyzer for Engineering. It is used for undergraduate instruction in the internal combustion engine laboratory course. The grant was matched by the State.

Engineering received $2,000 from **A.B. Chance Co.**, Centralia, for developmental funds. The presentation was made in recognition of the research studies of Aly Mahmoud, professor of electrical engineering and Carmelo Calabrese, professor of electrical engineering, in breakdown in insulation level and field mapping in power system transmission and distribution.

COLLEGE OF EDUCATION

The Center for Educational Improvement received a $137,956 grant to hold in-service training during the 1973-74 school year for teachers who deal with problems brought about by desegregation. The special grant from the **U.S. Office of Education**, established training institutes for 150 elementary teachers at inner-city schools in Kansas City, St. Louis, and Columbia. Project director is Frederick J. Gies.

The University has received a **$66,268** grant from the **National Institute of Education** in support of a UMC project to determine "the influence of teacher behavior on student achievement and classroom climate." The two year project, "Multiple Criteria of Teacher Effectiveness," is under the direction of Thomas L. Good, associate professor of education and research scientist at the Center for Research in Social Behavior.

The **U.S. Department of Health, Education and Welfare** has awarded a $252,957 grant for the "Training of Professional Personnel in the Education of the Handicapped." The grant will be used by special education, health and physical education, and speech pathology.

Administrators of the grant include Richard Schofer, professor of education and chairperson of the department of special education; Leon E. Johnson, associate professor of health and physical education and Charlotte G. Wells, professor of speech pathology.

SCHOOL OF MEDICINE

The Public Health Service awarded grants to: Allan W. Jones, associate professor of physiology, $41,638 for study of vascular ion transport and hypertensive mechanisms; John Schuder, professor of surgery, $29,580 for biophysical research; Douglas Griggs Jr., professor of physiology, $38,420 for study of coronary resistance and cardiac metabolism; A. Sherwood Baker, chairman of the community health and medical practice, $33,121 for preceptorship training for medical students; Ruby Potter, dean emeritus of the School of Nursing, $3,041 for teaching psychiatric nursing to undergraduate students and $31,633 nursing capitation grant; Alice D. Kitchen, Missouri Institute of Psychiatry, $70,616 for training resident physicians in psychiatry; Herbert S. Goldberg, associate dean of the School of Medicine, $779.903 for a health professions capitation grant program; Fred V. Lucas, chairman of the department of pathology, $387,226 for implementation of an automated physician's assistant; James L. Chapel, professor of psychiatry, $52,552 for studies in child psychiatry; Jack M. Colwill, associate dean of the School of Medicine, $164,502 for a health professions special project grant program; Giulio J. Barbero, chairman of the pediatrics department, $4,471 for organizing a training conference on mental health; James M. Weiss, chairman of the psychiatry department, $10,692 for training physicians in psychiatry; George Brooks, director of student financial aids, $1,979 for financing the graduate nursing program, $52,822 for a nursing student loan scholarship program, $35,147 for a health professions student loan and scholarship program.

Other institutions awarding grants were: The **Social and Rehabilitation Service** of Kansas City, $5,752 to Gerald W. Browning, director of physical therapy, for improvement and expansion of the physical therapy program; the **National Aeronautics and Space Administration**, $38,128 to Charles E. Mengel, chairman of the department of medicine, for studies of the effect of space flight and related conditions on red blood cells; the **Health Services and Mental Health Administration**, $156,397 to Giulio Barbero, chairman of pediatrics, for financing the Multiple Handicap Clinic at the Medical Center; the **Department of the Army**, $70,000 to Donald B. Lindberg, professor of pathology, for a theoretical consideration of a disease information system; **State Department of Education**, $247,564 to Charles R. Peterson, chairman of the department of physical medicine and rehabilitation, for staffing of McHaney Hall (rehabilitation unit at the Medical Center), and the **American Medical Association** awarded $29,622 to Fred V. Lucas, chairman of the pathology department, for an AMA uniform procedure code project.

An $800,000 state appropriation to fight chronic kidney disease is being administered by the Regional Medical Program. Eight Missouri hospitals are sharing in the distribution which will benefit patients whose lives depend on the aid of artificial kidney machines.

A year-long study of the relationship between a high meat diet and the incidence of bowel cancer in humans has been made possible by a contract of $240,648 from the **National Cancer Institute**. The study is being conducted by a multidisciplinary faculty team. Prof. David Hentges is the principal investigator.

Nine faculty members of the schools of Medicine and Nursing have received grants to initiate or continue their research studies. Grants were awarded to: Walter D. Wosilait, professor of pharmacology, $22,494 from the **Public Health Service** for study of the factors affecting the action of anticoagulants; Philip J. Marco, associate professor of psychiatry, $14,088 for special training of students in psychiatry; J. Ricardo Martinez, associate professor of pediatrics and physiology, $1,000 from the **National Cystic Fibrosis Research Foundation** for study of the action of reserpine and guanethidine on exocrine gland structure; Marvin Zatzman, professor of physiology, $19,800 from the **National Science Foundation** for research on renal function and blood flow distribution in marmots; Leonard Forte, assistant professor of pharmacology, $131,500 from the **Public Health Service** for a five-year study of the molecular pharmacology of renal plasma membranes; Alice Major, professor of nursing, $3,500 from the **National Fund for Graduate Nursing Education** for training of graduate students in nursing and $49,180 additional funding of a grant from the **Department of Health, Education and Welfare** for training of graduate students in psychiatric nursing of children and adults; James O. Davis, professor and chairman of the physiology department, $107,088 from the **Public Health Service** for study of the humoral factors in heart failure and hypertension; Egil Fosslien, assistant professor of pathology, $37,597 from the **Public Health Service** for research into automated hemoglobin electrophoresis; and Patrick D. Harris, associate professor of physiology, $41,788 from the **Public Health Service** for continued study of the small vessel mechanisms during hemorrhagic shock.

Eight faculty members of the School of Medicine have received grants to initiate or continue research studies. Six of the 11 grants were awarded by the **U.S. Public Health Service**. William D. Mayer, dean, received $402,846 for studies in the General Clinical Research Center; Gwilym S. Lodwick, professor and chairman of radiology, $147,475 for study of diagnostic content and redundancy in radiant images; Kaye H. Kilburn, professor of medicine, $35,030 for research into the prevalence, pathogenesis and control of byssinosis; Thomas W. Burns, professor of medicine, $35,778 for study of human adipose tissue regulation of fat mobilization; Leonard R. Forte, assistant professor of pharmacology, $26,000 for research in the molecular pharmacology of renal plasma membranes; and Robert L. Jackson, professor of pediatrics, $36,720 for a study of the vascular changes in diabetes mellitus.

Other grants awarded included: Charles E. Mengel, professor and chairman of medicine, $15,462 from the **Department of Health, Education and Welfare**, for study of hemostatis; Robert L. Jackson $35,920 from the **Lilly Research Laboratories**, for an evaluation of new insulin preparations in the management of juvenile diabetis mellitus; William D. Mayer, $105,188 from the **Social and Rehabilitation Service** for a core grant for the University Affiliated Facility; Sadashiv Parwatikar, professor of psychiatry at the Missouri Institute of Psychiatry in St. Louis, $38,000 from the **Missouri Division of Mental Health** for the "St. Louis Comprehensive Drug Treatment Center"; and Kaye H. Kilburn, $18,000 from Cotton Incorporated for identification and evaluation of biologically active cotton dust.

An award of $396,371 made available to the Missouri Regional Medical Program, will be used for direct costs of operations for the period ending June 30, 1974. Nineteen Missouri health activities will receive these funds.

Grants to initiate or continue research studies relating to medicine and nursing have been given to nine faculty members. Two of the grants were awarded by the **Missouri Division of Mental Health**. $597,244 went to Warren Thompson, associate chairman of psychiatry at the Missouri Institute of Psychiatry, St. Louis, for a statewide electronic data processing system for the Missouri Division of Mental Health and $116,105 to M. S. DeWeese, chairman of the surgery department, for emergency medical services.

The other grants were $1,000 from the **American Dietetic Association** to Aimee Moore, chairman of the nutrition and dietetics department, for a chemical instructor workshop; $203,653 from the **National Institute of Health**, Bethesda, Md., to Gordon C. Sharp, professor of medicine, for study of the immunologic and morphologic consequences of vasectomy; $30,000 from the **National Science Foundation** to Wynn A. Volkert, associate professor of radiologic science, for study of the photoprocesses in tryptophan and model compounds; $1,000 from the **Southern Medical Association** to Robert Carolla, assistant professor of medicine, for research into the granulocyte yields by filtration leukophersis; $41,256 from the **Public Health Service** to Patrick H. Henry, professor of medicine, for study of acute leukemia group B; $3,500 from the **National Fund for Graduate Nursing Education** to Alice Major, assistant to the dean of nursing, for experimental core courses in advanced nursing; and $61,869 from the **Department of Health, Education and Welfare** to Maw Lin Lee, professor of economics, for study of the effects of medicare on patterns of hospital use.

SCHOOL OF VETERINARY MEDICINE

A $104,000 award from the **National Heart and Lung Institute** is financing an investigation into the process of aging. A team of researchers at the Sinclair Research Farm is focusing on atherosclerosis — a form of "hardening of the arteries."

A continuation grant from the **Public Health Service** for $18,519 has been extended to a research project on avian leukosis. The three-year project's goal is an understanding of the relationship between this disease found in chickens and cancerous diseases such as leukemia in man.

Two continuation grants have been awarded to microbiologists in Veterinary Medicine by the **Research Service of the U.S. Department of Agriculture**. John Berg, assistant professor of veterinary microbiology, received $30,000 to continue research on "Foot Rot in Cattle." Gerald Buening, associate professor of veterinary microbiology, received $10,000 for research in "Investigations on Anaplasmosis of Cattle."

A 153,000 grant from the **U.S. Public Health Service** will fund research on projects involving miniature swine. The work, which will be done at the Sinclair Comparative Medicine Research Farm, will focus on public health problems such as cancer, alcoholism, tooth decay, malnutrition and atherosclerosis. Mike Tumbleson is chief investigator.

A $3,000 Animal Health Education Grant from the Merck **Company Foundation**, is being used to assist in the development of the Equine Center.

Ronald Sprouse, associate professor of veterinary microbiology and medical microbiology will continue research on histoplasmosis, as a result of a $29,028 grant by the **Public Health Service**. The grant, "Structural Elucidation of Histoplasmin HPD DII and DIII," will be aimed at developing a synthetic skin-test antigen for the detection of histoplasmosis, a respiratory infection affecting both man and animals.

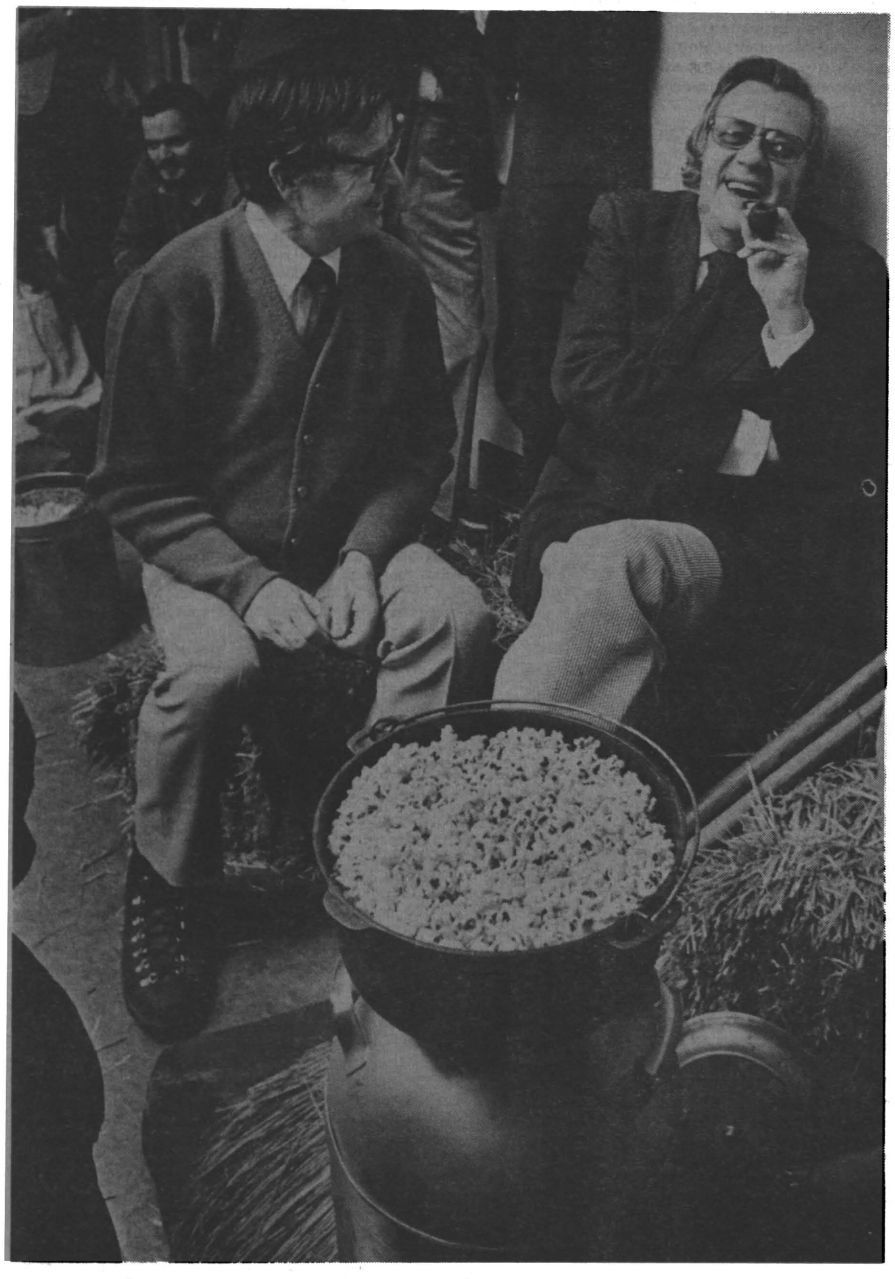
Two faculty members, William F. Glueck and Joseph Wagner, have received a $52,000 from the **National Institute of Health** to measure how well federal animal resources laboratories serve human and animal medicine. Glueck is professor of management and Wagner is professor of veterinary pathology.

John P. McCormick's project to develop a purely chemical approach to duplicate important biochemical reactions has been awarded $6,150 from **Cottrell Research Grants Program**.

Renewal grants have been awarded to two research projects in veterinary medicine. The Food and Drug Administration gave $110,365 to a study on the "Ecological Effects of Antimicrobial Agents on Enteric Flora of Animals and Man, supervised by Donald C. Blenden, professor of veterinary microbiology and community health and medical practice. A study of "Early Biopsy Diagnosis of Rabies," also under the direction of Blenden, has received $9,500 from the American Kennel Club.

Fiddling Fits His Fancy

Photos by Leilani Hu

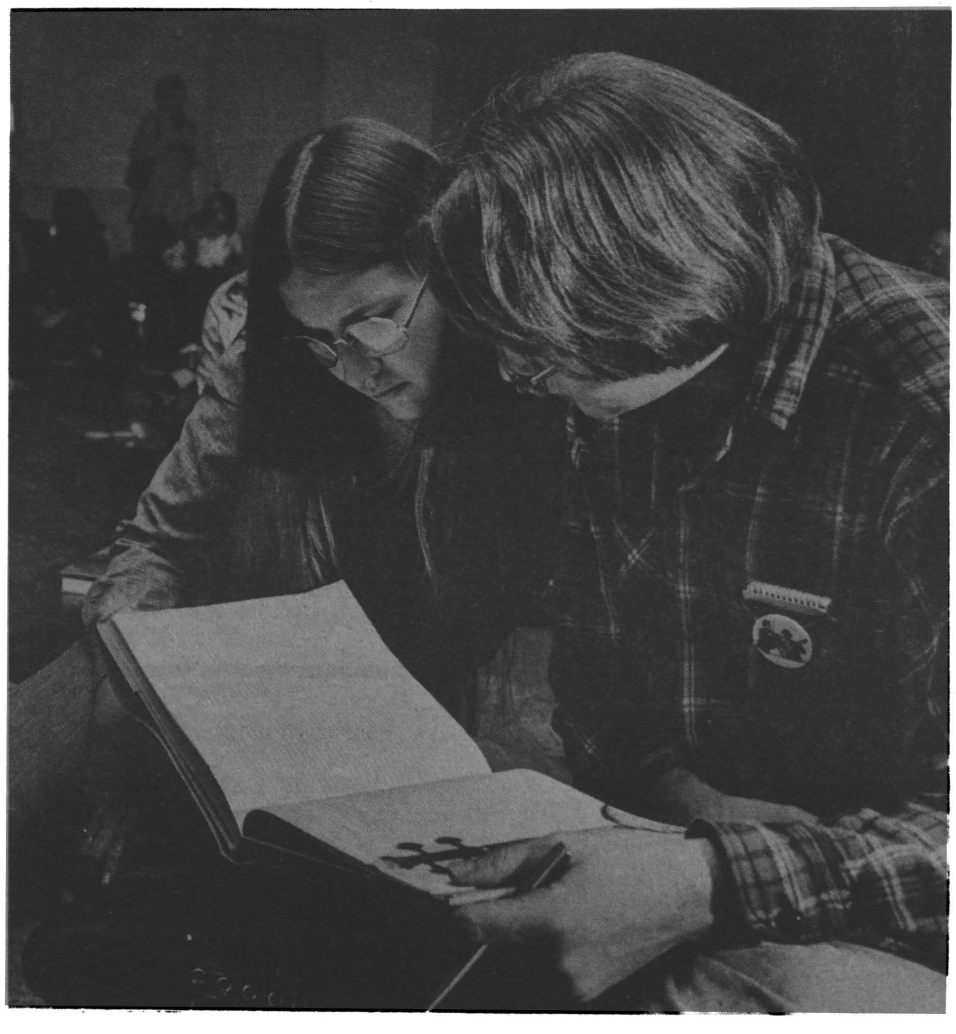


The sound of fiddling music and the smell of hot buttered popcorn and apple cider created an unusual atmosphere for a recent University Press reception.

The occasion was the publication of "The Old-Time Fiddler's Repertory," a collection of 245 traditional American fiddle tunes, complied by R. P. Christeson of Auxvasse.

Christeson began his collection of commercial recordings of fiddle music in 1933 and started making live field recordings in 1947. Over a period of 25 years, the University of Missouri graduate travelled widely as an employe of the U.S. Department of Agriculture, and was able to study and record fiddle music as played by fiddlers in nine states.

His recordings and notes, transcribed into performing scores, are offered in four categories in the new book: breakdown, waltzes, quadrilles, and "pieces." Christeson and his cronies demonstrated a few of each for the fiddling fans last month at the reception at the Memorial Union.



Prof Ponders Astronauts' Weighty Problem

Many people would be delighted to lose a little weight; however astronauts losing weight during space flights pose a "why" question which a University of Missouri-Columbia researcher is trying to answer.

Thomas D. Luckey, professor of biochemistry, said that with the exception of one astronaut ("who ate like a horse on one flight") all American and Russian astronauts have lost an average of eight pounds during space flights.

Luckey has a three-year $75,000 grant from the National Aeronautics and Space Administration to develop an indirect method of measuring how much of 40 different nutrients, such as calcium, the astronauts consume and how effectively their bodies make use of these nutrients during space flights.

"The astronauts are too busy during space flights to log accurately and consistently what and how much they eat during a day," Luckey said. "We are trying to develop an indirect method of doing this for them."

The method involves incorporating a non-absorbed mineral powder into all food available in proportion to the nutrients to be traced. For instance, the addition of one microgram of lathanum oxide for each milligram of vitamin C present in the foods would give an index of the vitamin C intake of each astronaut when the feces are analyzed at the end of the flight. (Collection of urine and feces is routine for Skylab astronauts.)

In this way the minerals, according to Luckey, act as "nutritional markers" and will help researchers discover whether the astronauts' weight loss is mostly fat, water, muscle or protein. Luckey said the present supposition is that it is water.

"Because water can hide tissue loss, the astronauts may have lost more tissue than we know about," Luckey said. He explained that some of the weight loss is also associated with bone, but they cannot yet determine whether this is related to the loss of calcium, phosphorous or nitrogen.

Dr. Venu Gopal Balarishna, research associate in biochemistry; Dr. David P. Hutcheson, associate professor of veterinary nutrition and physiology and Dr. Donald H. Gray, radiochemist, Nuclear Reactor, are collaborating on this research.

Luckey, who is an international authority on germfree research, has also been concerned with the long-term isolation of astronauts which allows a change in the "micro-ecological" (bacteria) balance of their bodies.

"There are approximately 100 kinds of bacteria which live on and in the intestinal tract," Luckey explains. "In isolation the kinds may decrease to a handful, and the delicate balance between the 'good' and 'bad' bacteria may be destroyed. This is why the day by day exchange with our environment is important. We need the exchange with our environment to maintain this normal micro-ecological balance in and on ourselves."

Luckey emphasized that, contrary to popular belief, not all bacteria are harmful. In fact certain bacteria produce vitamins such as vitamin K and B which the body absorbs.

Because of his research in this field, Luckey has recommended to NASA that the astronauts have a gradual "re-innoculation" of "home bacteria" during the isolation period following long flights. He said that such things as yogurt and homemade sandwiches can help to restore the balance of bacteria.

"When astronauts go to Mars they will have to take along pills containing 'normal man' bacteria because of the length of time they will be exposed to an environment of sterile food, water and filtered air," Luckey said.

Maledictions Threaten Academic Freedom

(Editor's Note: The following article, originally titled "Six New Threats to the Academy," was written by John H. Bunzel, president of California State University, San Jose, and is reprinted from the Jan. 14, 1974 issue of the Chronicle of Higher Education.)

Both the time and the need are at hand for the higher-education community to turn its attention to some of the more novel challenges to academic freedom that have arisen since the last most conspicuous university crisis.

Most of us are persuaded, I think, that the experiences of the middle and late 1960's have left their mark in an indelible way. It is not merely a question of a bruise or two. We will just never be the same. While the principles and values of those of us committed to the defense of academic freedom have remained constant, the university and its cultural climate have not.

I encounter almost every day much mischievous advice about how best to deal with these concerns. Some of that advice is the usual dreary stuff and comes from false counselors, those whom Dante quite properly placed way down toward the bottom of the Abyss in the eighth level of the eighth circle. Those we will always have with us.

But there is also the bad advice offered by those who seem to have difficulty

communalism disguised as pluralism

perceiving what is harmful to the university. They are unable or unwilling to see how maledictions are currently disguised as benedictions. These maledictions constitute the new threats to academic freedom.

1. The revival of communalism disguised as pluralism. At their worst, many ethnic-studies and affirmative-action programs have encouraged the growth of an infatuation with ethnicity that is socially divisive, frequently bewildering in its actual demands on institutions, and harmful to the commitment of the university to the principle of reward based on individual merit.

We are witnessing in our day a powerful and necessary upsurge in the movement for social justice for which many of us have fought for decades and towards which the country has struggled for over 200 years. We are also simultaneously witnessing a rebirth of communal ties of all sorts, much of it sound and affirmative in character but some of it, unhappily, expressing a harmful factionalist spirit.

The movement within the academic world which expresses this spirit frequently seems intent on dividing the university into special groupings based on race or ethnic origins (or, indeed, on sex), which amounts to nothing less than a regressive sundering of the unity and objective character of knowledge. It revives criteria for appointment and advancement which are irrelevant to the search for truth. It is a movement sustained by the argument that tribalism is really indistinguishable from pluralism, and that affirmation of the democratic desire for diversity means acceptance of a group mentality indifferent to recognition based on personal merit.

2. The reappearance of populism disguised as egalitarianism. This maledictions might also be characterized as "the exaltation of the ordinary

populism disguised as egalitarianism

disguised as democracy." There are simplistic views of democracy that assume or allege that the existence of any differences constitutes **prima facie** evidence of inequality — and since in a democracy "all men are created equal," these differences are presumed to be a self-evident indictment of democracy. Advocates of such pseudo-egalitarianism may be found in many quarters, including faculties and legislatures, attacking "elitist education." I have heard such arguments from faculty members who

vulgarity disguised as freedom

insist on their right to award only A's and B's.

The antidote to such confusion and illogic might perhaps begin with a rereading of the founding fathers and de Tocqueville.

3. The rise of vulgarity disguised as freedom. I refer here to intellectual and aesthetic vulgarity, to aggressive coarseness in speech and manners, to contempt for grammar and indifference to logic, to sloganeering as a substitute for thought, to hatred of culture, antipathy to history, and release into fashionable nihilism. All these are paraded as the sweet, necessary, and inevitable fruit of liberty. More accurately, they represent a betrayal of freedom and of the life of the mind, both of which are essential to the very idea of the university.

4. The worship of relevance disguised as realism. The arguments in support of the modish and the jazzy are all too familiar.

relevance disguised as realism

We are sometimes told that realism requires us to endorse the search for immediate gratification, that it is folly to deal with people except with reference to "where they are" at that moment.

Such a view is in part a tautology and in part a non sequitur. Obviously, people must be encountered where they are, since that is the only place they can be found. But it is far from obvious — indeed, it is a serious error to suppose — that this requires us to define where they are or where they should be exclusively in terms of the current catch-words. For almost a decade in higher education, "relevance" has been used as a rallying cry for legitimating the immediate and for wrongly equating the transitory with the more enduring.

We would do well to remember that it is the essence of university life to struggle for objectivity and personal knowledge by skeptical testing of the immediate and the known and the continuous exploration of the unknown. Intoxication with relevance blunts this vital activity, since it tends to confine the examination of reality to the immediately relevant.

5. The recourse to litigation disguised as equity. Everybody, it appears, wants to sue in the interest of justice. Matters never brought to litigation before, i.e., tenure, promotion, the making of professional judgments (which can do someone an "injury" and hence open you

litigation disguised as equity

to a lawsuit), are now increasingly headed for the courts.

It is not the appeal to law that is necessarily bad. It is the scale of these appeals and the degree to which normal university procedures are being pushed from the center of university life to another center of gravity. In short, academic due process is giving way to the legal adversarial process.

6. The appeal to subjectivism disguised as individualism. This is the "do your own thing" disease. Too often it is a form of anarchy or eccentricity disguised as the right of the individual to express himself without hindrance.

In one of the state universities in California, an established scholar with 20 years of academic experience was recently charged by a student with infringing on her constitutional and individual rights because he made critical comments on her research paper. Sometimes such a charge is supported by a belief that "objective knowledge" is impossible to achieve. It presumably

subjectivism disguised as individualism

follows that in the absence of authoritative judgments, anything — or almost anything — is legitimate. Such an irresponsible view is tantamount to social illiteracy. It obscures the real character of individual rights, reducing them entirely to personal whim and neglecting entirely their meaning within a nexus of social relationships. University life is one of those social relationships where it is essential to recognize the reality of differences in knowledge and authority without regarding these differences as adversarial in character or menacing to the human rights of the individual.

These are but some of the maledictions that are the legacy of the 1960's. Each has been with us to some degree in the past. They have now gained new credibility because in the last ten years our cultural values have shifted, and with that has come, inevitably, a shift in university standards and norms.

It would be comforting if there were some potent wizardry to cope with these maledictions. What is available to us instead are the arts of persuasion and civility, the principles of logic and argumentation, respect for the rule of law and due process, and the processes of science and scholarship broadly conceived as involving a commitment to rational and fair public discourse and scrupulous concern for the assessment of evidence.

Faculty Council Minutes

Jan. 24

Visit of Vice President Unklesbay. Considerable discussion took place about advance deposits and student application fees following which it was agreed that a statement concerning these fees should be prepared by a committee and returned to the council for consideration at our next meeting.

COPHE Articulation "agreement." Vice-President Unklesbay described the history of the development of the COPHE agreement and stressed that the University of Missouri has NOT accepted the agreement. A statement of the University position is to be found in the Faculty Bulletin in Brief for Jan. 18, 1974. It was agreed that the Chairman should inform Divisional Policy Committees of the status of this problem.

Report from Inter-Campus Faculty Council. Prof. Utz reported on the Jan. 20-22 meeting of the Inter-Campus Faculty Council with the Academic Planning Council at which the academic plans of the four campuses were discussed.

Doctoral Faculty and Campus Plans. Prof. Daniel reported that there have been reports of changes made by the APC in appointments to the Campus Doctoral Faculty Evaluation committees. Further, Vice President Nagel has been reported as making comments concerning the "operative" status of the "shalls" and "mays" in the Role and Scope statement. A letter expressing our concerns to President Ratchford about these matters was presented to the Council. Prof. Mauksch moved and Prof. Miller seconded that this letter be endorsed as coming from this Council and sent through channels. Motion passed by voice vote. The letter is attached to these minutes.

January 28, 1974

To President C. Brice Ratchford
SUBJECT: Faculty Morale

Dear Brice:

Although I was unable to attend the press conference on January 22 following the Academic Planning Council meeting, it is my understanding that Paul Nagel said, in effect, that the Role and Scope statement, approved by the Board, is now "inoperative" insofar as the "shalls" and "mays" are concerned.

In addition, it has been reported that he indicated that the four campus planning groups were remiss in not setting degree program priorities in their planning prior to the sessions just held. Such action was not included in the guidelines provided campus committees.

Furthermore, Dean Berry has just informed me that the APC has instructed Graduate Deans that they must be members of Campus Evaluation Committees in the Doctoral Faculty admission procedures. The approved plan for establishing the Doctoral Faculty did not provide for this arrangement.

All three of these events are contrary to the understanding held by the faculty of UMC. We have been working hard at our problems in good faith. Developments of this sort are disasters for effective cooperation between the faculties and U-wide administration. I would not be fulfilling my obligation to the faculty if I did not so inform you.

Cordially yours,
By action of the
UMC Faculty Council,
Robert S. Daniel, Chairman
cc: Chancellor Schooling

Grad Faculty Adopts Bylaws

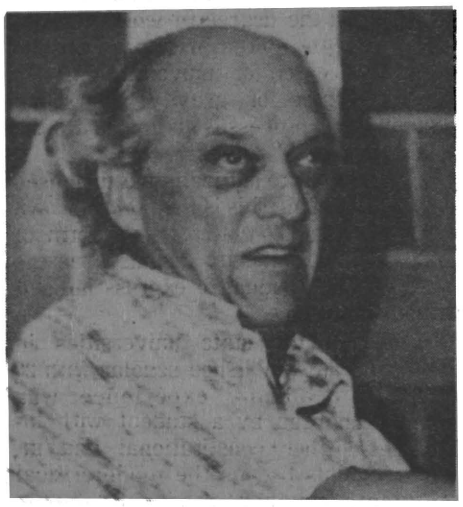
The Graduate Faculty on Jan. 25 voted to adopt the bylaws printed in the Jan. 9 edition of the Faculty Bulletin. These bylaws will become official in 30 days unless amended or rejected by the Graduate Faculty at a special meeting.

According to Marc de Chazal, Graduate Faculty president, a special meeting would be called only if 30 or more members of the Graduate Faculty petition the Graduate Dean for one.

Commenting on the bylaws, de Chazal asked that the faculty make special note of Article 1, Sections 1 and 2:

"Section 1 is intended to delineate the functions of the Senate. It is not intended to limit the rights of the Graduate Faculty. A statement to clarify this point will shortly be submitted for Senate and Graduate Faculty vote.

"Section 2, as previously stated, modifies departmental representation. Senate membership will now more nearly reflect the distribution of Graduate Faculty."



Marc de Chazal

Faculty Footnotes

COLLEGE OF AGRICULTURE

Roger L. Mitchell, dean of the Extension Division, was one of 20 persons nationwide who were named Fellows of the American Society of Agronomy at its recent national meeting in Las Vegas.

Bob R. Stewart, associate professor of agricultural education, was recently elected national secretary-treasurer of Alpha Tau Alpha, national professional honorary for agricultural education, at its 52nd annual convention in Kansas City.

Cecil V. Roderick, UMC professor of agricultural education, received a lifetime honorary membership in the American Association of Teacher Educators (AATE) at its annual meeting in Atlanta, Ga.

J.E. Savage, chairman of poultry husbandry, is serving as a poultry consultant to the government of Poland. His assignment, which is with the Food and Agriculture Organization of the United Nations, began Jan. 14 and will continue for two months.

COLLEGE OF EDUCATION

A Feb. 7-8 workshop on curriculum at the Lake of the Ozarks will feature three University faculty and staff members. The workshop, sponsored by the Missouri School Boards Association, has invited **Bob G. Woods**, dean of education; **Allan W. Sturges**, chairman of curriculum and instruction; and **B. Charles Leonard**, director of educational improvement, to speak during the program.

COLLEGE OF ENGINEERING

William R. Kimel, dean of engineering, was the moderator for an Atomic Energy Commission traineeship selection panel Dec. 17-18 in Washington, D.C.

The Hospital Research and Educational Trust, Chicago, Ill., has named **Jay Goldman**, chairman of the department of industrial engineering, as an advisor to its National Cooperative Services Center for Hospital Engineering Management.

Adrian Pauw, professor of civil engineering, has been elected a fellow of the American Concrete Institute, Detroit, Michigan.

SCHOOL OF LAW

Professor **William F. Fratcher** spoke at a meeting of the Property Section of the Association of American Law Schools Dec. 29 in New Orleans, Louisiana.

SCHOOL OF MEDICINE

William D. Mayer, dean of medicine, and Gail I. Bank, executive director of continuing medical education, spoke at the 70th annual Congress on Medical Education in Chicago Feb. 1-3. Dean Mayer discussed foreign medical graduates and Dr. Bank spoke on patient care education interface. Dr. Bank was also a panel moderator.

James T. Barrett, professor of microbiology, is lecturing on immunology and medical microbiology for six to eight weeks (beginning Jan. 2) at the University of Lagos School of Medicine, Lagos, Nigeria. His visit to Nigeria is part of a scientist exchange program being carried on between the two medical schools.

C. R. Leeson, was elected to the Council of the Anatomical Society of Great Britain and Ireland as the overseas member for 1974. Professor Leeson, who is on sabbatical leave at the London Hospital Medical College, will return in August to resume his duties as chairman of the Department of Anatomy.

Arthur E. Rikli, program coordinator of the Missouri Regional Medical Program and professor of community health and medical practice, was elected to the board of directors of the Society for Computer Medicine.

Several members of the faculty in the department of medicine presented results of their research at the 28th annual meeting of the Southern Society for Clinical Investigation in New Orleans.

Representing the division of cardiology, **Richard Martin, Linley Watson, John Stone** and **George Reed** reported on "Pump failure complicating myocardial infarction: clinical and hemodynamic features."

Two papers were presented by the division of gastroenterology: "Gastric ethanol clearance" by **Daniel Winship, Timothy J. Shuck** and **C. D. Winship**; and "Effect of frequency of feeding upon biliary lipid output" by **Kenneth Hanson** and **James Butt**.

The division of immunology-rheumatology reported on "Relative diagnostic value of different antinuclear antibodies in old age" by **C. F. Manning, J. A. Woltjen, Edward Adelstein** and **A. D. Morris**. "Effects of vasectomy and vasoligation on immune responses to sperm and fertility in strain 13 guinea pigs" was reported by **William S. Irvin, M. Akimoto, Ian Thompson,** and **Gordon C. Sharp. R. J. Samaha** and **W. S. Irvin** reported on "A model of deoxyribonucleic acid (DNA) as antigen based on biochemical and radioactive binding data."

Oral E. Bass, Karl D. Nolph and **John F. Maher** of the division of nephrology reported on "Acute effects of hemodialysis on removal of intracellular solutes."

Published Faculty

COLLEGE OF ARTS AND SCIENCE

Vern B. Williamsen, associate professor of Spanish, made two contributions to the 1973 volume of the Bulletin of the Comediantes, a journal devoted to the Spanish theater of the seventeenth century. Williamsen's "Bibliography of Foreign Publications on the Comedia, 1972-1973" appears on pages 53-60 and his article "Lope de Vega: A 'Missing' Parte and Two 'Lost' Comedias" appears on pages 42-51.

SCHOOL OF LAW

William F. Fratcher, R. B. Price Distinguished Professor of Law, is the author of the 606-page 1973 Pocket Parts for "Simes and Smith on Future Interests," the leading treatise in its field.

SCHOOL OF VETERINARY MEDICINE

Harlan Jensen, associate professor of veterinary medicine and surgery, has written "Stereoscopic Atlas of Ophthalmic Surgery of Domestic Animals," published by the C. V. Mosby Co., St. Louis.

Leaves and Sabbaticals

Robert W. Habenstein, professor of sociology, will be on sabbatical from January through July. He will be conducting comparative family and gerontological research in Townsville, North Queensland, Australia. Habenstein also will assist in the initial planning and building of the behavioral science program at James Cook University of North Queensland.

Joseph T. Kunce, professor of education, will be on sabbatical from January through June to conduct research. He plans to spend a week at the Rehabilitation Research Institute at Greely, Colo. to collect necessary data.

Kay Harris Asay, associate professor of agronomy, will be on sabbatical from May 15 through November 15. She plans to work with Dr. D. R. Dewey of Utah State University in cytological techniques and cytogenetics.

William M. Wiecek, associate professor of history, will be on sabbatical from September, 1974 to September 1975 to do research and writing on the slavery controversy in the U.S., 1760-1846. He plans to spend a month working in the archives on the east coast from South Carolina to Massachusetts, doing research in unpublished papers.

Pinkney Walker, professor of economics and former member of the Federal Power Commission, will be on leave from Feb. 1 to Aug. 31. He will spend the time in study relating to future teaching and in research and consulting in energy econmics, participating in several conferences. Walker is former chairman of the department of economics and former dean of the College of Administration and Public Affairs.

Graduate School and Research Notes

1974-75 FULBRIGHT-HAYS LECTURESHIPS IN THE U.S.S.R. — The Council for International Exchange of Scholars (formerly the Committee on International Exchange of Persons) has announced that approximately 10 lectureships are being offered under the exchange agreement between the U.S. and the Soviet Union. There is no provision under this category for research awards. Applications from associate or full professors in the social sciences and humanities, natural sciences, engineering, and mathematics will be welcome. Completed applications and supporting materials must be received by Feb. 28. For information and application forms, contact: Ms. Georgene B. Lovecky, Council for International Exchange of Scholars, 2101 Constitution Ave., N.W. Washington, D.C. 20418. Tel. (202) 389-6637.

OFFICE OF COMPUTING ACTIVITIES— National Science Foundations Office of Computing Activities has been reorganized. A new program, Special Projects, reports directly to the Head of OCA and assumes the activities and responsibilities of the Computer Impact on Society Section. The Computer Science and Engineering Section and the Computer Applications in Research Section remain unchanged. For further information, contact Fred Weingarten Jr., Program Director for Special Projects (632-5747).

RESEARCH ON LANGUAGE LEARNING — The National Institute of Neurological Diseases and Stroke is requesting proposals from organizations capable of preparing two documents concerning the hypothesis of a critical age for language learning. One document should provide a critical, analytic review of research from fields of anatomy, neurophysiology, psychology, education, speech and language, and ethology which is related to the hypothesis that there is a critical age for language learning. The second document should be a position paper concerning future research strategies for obtaining further information concerning the hypothesis. Refer to RFPONINDS-74-10.

The Institute is also soliciting proposals to develop a research tool concerning speech and language therapy for aphasic adults. The research plan would include development of a descriptive and quantifiable system for recording and documenting the therapeutic process manifested in the speech pathologist-patient interaction, and preparation of a manual to describe the coding system and permit mastery of it without direct training by the developers. Refer to RFPONINDS 74-09. Request forms for either project from Lawrence J. Fitzgerald, Jr., Acting Contracting Officer, National Institutes of Health, National Institute of Neurological Diseases & Stroke, Bethesda, Md. 20014.

Calendar of Events

To Feb. 9: Stanley Hall Gallery Exhibit: Black and white drawings collection by artist William Allen Marriott. Free to the public.

To Feb. 15: Columbia Art League Exhibit: Sculpture by Haim Misholy, stained glass of Charles Manning, and charcoal drawings by Rodney Lusk. "Aspects of a Classical Sense", the photographs of **Michael Flinn,** on display upstairs, in the Betty Robins Gallery.

To Feb. 22: Fine Arts Gallery Exhibit: Cloth, tapestries, weaving & wall hangings.

Feb. 6: Tickets on sale at the Hearnes box office for the Feb. 21 Harlem Globetrotter performance. Box office hours will be 9 a.m. to 4:30 p.m., Monday through Saturday. Ticket prices are $4.50, $3.50, and $2.50.

Feb. 6: Ticket sales for Lawrence Welk Show begin, Hearnes Box Office. ($7, $6, $5, $4; mail orders accepted). Performance 8 p.m. March 16.

Feb. 6: Conference: "Preventive Medicine in Childhood." The conference is approved for five hours of credit by the American Academy of Family Physicians. The enrollment fee for physicians is $25, for non-physicians, $15.

Feb. 6: International Coffee Hour: "Iran and its Role in the Third World," 3:30 p.m., Memorial Union.

Feb. 6: Speaker: Dr. Harvey G. Cox, Jr., professor of divinity at Harvard University, "Religion and Secularization in America," 8 p.m., Ellis Library Auditorium. Free and open to the public.

Feb. 9: Stephens College Playhouse: "A Doll's House," 8:15 p.m. at Stephens Warehouse Theater. Tickets $2.50, on sale at box office, Stephens College Assembly Hall.

Feb. 7: University Concert Series: "A Mime's Eye View." American mime artist Tony Tontanaro will perform a collection of pantomime sketches, 8:15 p.m., Jesse Auditorium. Tickets available in advance free to students with I.D.'s at Memorial Union Ticket Window. The public may purchase tickets Jan. 31, $3, downstairs and $2.50, balcony seating. Tickets may be purchased at the door.

Feb. 7-8: Missouri Chapters of Wildlife Society & American Fisheries Society, Memorial Union.

Feb. 7-8: Nutritional Labeling Regulations Conference, Ramada Inn.

Feb. 8: Missouri-Drury Swimming, UMC Pool.

Feb. 8: Missouri-Kansas State Wrestling, Hearnes Auditorium.

Feb. 8: Linguistic Seminar: Michael J. P. Nichols, "Linguistic Reconstruction of Culture and Ecology," 8 p.m. S-204 Memorial Union.

Feb. 8: Faculty Recital, 8:15 p.m., South Campus Auditorium. Stephens.

Feb. 8: Film: "The Violent Universe — Part IV," 114 Physics Bldg., 7:30 p.m.

Feb. 8-9: State High School Contest, University Theatre. 7:30 p.m.

Feb. 8-9: MSA Coffeehouse: Susan and Richard Thomas, husband and wife singing team from Wisconsin, 8 p.m., Memorial Union cafeteria. Free and open to the public.

Feb. 9: Missouri-Oklahoma Swimming, UMC Pool.

Feb. 9: Show-Me Trip: Trip to Ice Arena in Jefferson City, 8 a.m.; Meet at Physics parking lot. $3 per person; skate rental, 55 cents extra. Sign up at Memorial Union ticket window.

Feb. 9: International Night: Exotic entertainment from five countries, 8 p.m., Jesse Auditorium. Free and open to the public.

Feb. 10-28: Fine Arts Exhibit: "Computer Graphics in Art and Design," Stanley Hall Gallery, 8-5, Mon.-Fri. Free and open to public.

Feb. 10: MSA Concert: Singers Linda Ronstadt and Jackson Browne, 8 p.m., Livestock Center. Tickets sale opened Jan. 28 at the Union ticket window. $2.50 for students and $3 for non-students.

Feb. 11: MSA Speaker: William D. Ruckelshaus, former U. S. deputy attorney general, 8 p.m., Jesse Auditorium. Free and open to the public.

Feb. 11: Art history lecture: Professor Ross Holloway, Brown University, "New Marvels of Ancient Painting from Italy," 8 p.m. at Room 120 Physics Building.

Feb. 12: The University Concert Band at Jesse Hall, 8:15 p.m. Free and open to the public.

Feb. 12: International Cooking Class, "Exotic Food of Angola," 7 p.m. 203 Gwynn Hall. Free and open to the public.

Feb. 12-13: Unstructured Session on Campus Resources for Area Continuing Education Programmers, 8 a.m., Hearnes Building.

Feb. 13: International Coffee Hour: "Cross-Cultural Discussion about Friendship," 3:30 p.m., N 208 Memorial Union. Free and open to public.

Feb. 14: Mizzou Employees Federal Credit Union meeting, 7 p.m., Memorial Union. Buffet dinner, room N-214-215, $2.75. Membership open to all University of Missouri employes.

Feb. 14: Lecture: Dr. Scott Memorial Lectures in Accountancy, 2:40 p.m., Memorial Union.

Feb. 15: Astronomical film: "The Living Sun," 114 Physics Building, 7:30 p.m.

Feb. 15: Junior Recital: Nader Mortezapour will give a string bass concert. Recital Hall, 8:15 p.m. Open to public. Free.

Feb. 15: Stephens College: Ballet Repertory Company, Assembly Hall.

Feb. 15: North Central Accreditation Association State Meeting, 8:30 a.m., Memorial Union.

Feb. 15-16: Seminar in Administrative Nursing, Memorial Union, 9 a.m.

Feb. 16: Missouri 1974 Economic Outlook Conference. Ramada Inn. 8-5.

Feb. 16: Basketball: Tigers vs. Nebraska, 2 p.m., Hearnes.

Feb. 17-18: Missouri Young Farmers Association. Campus-wide. 8 a.m.-5 p.m.

Feb. 17: Recital: Collegium Musicum, Recital Hall. 3:30 p.m. Free and open to the public.

Feb. 17: Concert: "The Dramatics" and "The John Bailey Explosion, 8 p.m., Livestock Center. Tickets $2.50.

Feb. 19: Symposium: "Effects of the ERA on the Working Woman," 3:30 p.m., S203 Memorial Union, sponsored by Phi Chi Theta, women's business fraternity. Open to the public.

Feb. 20: University of Missouri Extension Association. Executive Committee Meeting, Memorial Union, 9 a.m.

Feb. 20: International Coffee hour: "Role of the Arab People in the Middle East Crisis," N 208 Memorial Union, 3:30 p.m.

Feb. 20: Speaker: Dr. John J. Voorhees, University of Michigan Medical Center, 3:30 p.m., M 253 Medical Center. Open to the public.

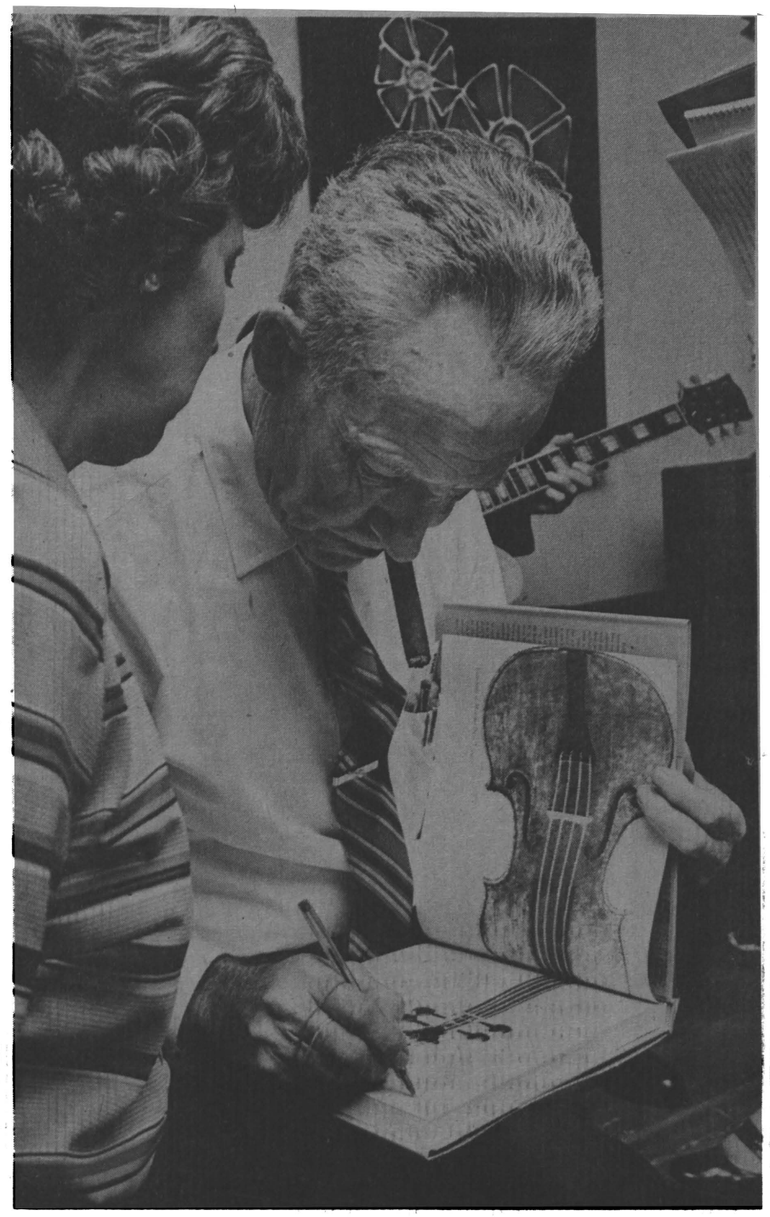
Feb. 21-23: University Theatre: "Birthday Party," 7:30 p.m.

This Issue

	Page
Faculty Council Minutes	7
Faculty Footnotes	7
Graduate School and Research Notes	7
Calendar	Back Page

faculty BULLETIN

Vol. 9, No. 6 February 6, 1974



A fiddling concert recently marked the University Press publication of "The Old-Time Fiddler's Repertory," a collection of 245 traditional American fiddle tunes. The author, R. P. Christeson of Auxvasse, delighted the audience with tunes on his fiddle, followed by an autograph session.

For more photos taken at the reception, see page 5.

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 7 March 6, 1974

Vice President Reports On Student Exchanges

For several years the University of Missouri has had exchange agreements with the Universities of Kansas and Nebraska whereby students enrolled in certain programs are treated as resident students and are not charged a non-resident fee.

These programs are beneficial because they eliminate the necessity for establishment of duplicatory programs and facilities, according to Vice Pres. A. G. Unklesbay.

Enrollments for the 1972-73 year are listed in the following charts.

The Kansas Agreement is currently being revised to change the basis of payment on Dentistry and Architecture, and Kansas University is adding Oriental Languages to their offerings.

1972-73
MISSOURI-KANSAS AGREEMENT FOR EXCHANGE OF STUDENTS
On Resident Fee Basis

	First Semester	Second Semester	Amount of fees waived*
KANSAS STUDENTS AT MISSOURI			
Columbia			
Forestry	26	25	$25,500
Wildlife	1	0	500
Kansas City			
Dentistry	129	127	128,000
Dental Hygiene	32	31	31,500
Rolla			
Engineering Management	3	2	2,500
Metallurgical Engineering	2	3	2,500
Ceramic Engineering	1	1	1,000
Petroleum Engineering	2	2	2,000
Geological Engineering	1	1	1,000
Total Kansas Students at Missouri and amount of fees waived by Missouri.	197	192	$194,500

*$500 per student per semester

1972-73
KANSAS-MISSOURI AGREEMENT FOR EXCHANGE OF STUDENTS
On Resident Fee Basis

	Fall Sem. 1972	Spring Sem. 1973	Fees Waived 1972-73*
MISSOURI STUDENTS AT KANSAS			
University of Kansas			
Aerospace Engineering	6	5	
Architecture	151	144	
Architectural Engineering	17	14	
Subtotal—K.U.	174	163	$ 99,415
Kansas State University			
Arcuitecture	150	148	
Architectural Structures	4	4	
Building Construction	12	14	
Interior Architecture	3	2	
Landscape Architecture	10	8	
Bakery Science	3	2	
Milling Science	2	3	
Nuclear Engineering	3	3	
Subtotal—K.S.U.	187	184	109,445
Total Missouri Students at Kansas and Amount of Fees Waived by Kansas.	361	347	$208,860

*$295 per student per semester

MISSOURI-NEBRASKA AGREEMENT
1972-73

Missouri students at Nebraska:	
Architecture	7
Actuarial Science	1
Total	8
Nebraska students at Missouri:	
Forrestry	14
Physical Therapy	2
Veterinary Medicine	9
Total	25

Faculty Meeting Set

A General Faculty Meeting has been called for 3:40 p.m., March 19 in Jesse Auditorium. The agenda will include a report of the Committee on Honorary Degrees, a report of the Academic Planning Council and a report regarding the status of the Academic Plan.

Shortages Cause Textbook Delay

The paper shortage and the energy crisis are causing problems which could affect the availability of textbooks for coming semesters, spokesmen for the University Bookstore and Missouri Bookstore indicate.

In an attempt to offset the impending problem, earlier deadlines for textbook requests have been established this year. Readoptions should be submitted by April 5 and all new adoptions should be in by May 1, they say.

Mike Beahon, book department manager of the University Bookstore, stressed that orders must be in on time to avoid "out-of-print, out-of-stock" situations. He said publishers are not printing or stocking as many books as in the past, due to the paper shortage.

He said, too, that there isn't as much truck service as there used to be because of the gas shortage and the truckers' strikes. Publishers can't afford to ship partial loads with the price of gas the way it is, so it is taking longer to get their shipments, he added.

William Allen, book department manager of the Missouri Book Store, added another reason for early text information deadlines. He said the April 5 deadline for readoptions will allow the bookstores to offer higher prices to students wishing to sell their books before leaving campus. If the bookstore hasn't received word that a book will be used again next semester, the resale value of that book automatically drops, Allen explained.

Beahon and Allen both say they're willing to meet with department chairpersons to discuss the situation and try to straighten out any problems which may arise.

Establish Rainbolt Scholarship

A scholarship in memory of the late Dr. John C. Rainbolt, associate professor of history at UMC, has been established and a campaign among colleagues and former students is under way to increase the permanent fund to a minimum of $2,500.

Edward A. Purcell Jr., associate professor of history, said that gifts totaling more than $800 already have been received. The history department, however, hopes that the principal can be increased to enhance the annual award.

Present plans are for the history faculty to nominate the recipient on the basis of scholarship and teaching as a graduate student from those who have passed the Ph.D. comprehensive examinations and have given evidence of a high degree of scholarly ability.

"Dr. Rainbolt was an extraordinary individual," Purcell said. "The wide reputation he enjoyed for historical scholarship and for teaching excellence bear witness to his success in meeting the high standards he set for himself. His sudden and untimely death was a great loss to the University and to the department of history, but his example was and still remains an inspiration to both his students and his colleagues."

Dr. Rainbolt joined the UMC faculty in 1966 after earning his doctorate and masters at the University of Wisconsin. He received his baccalaureate degree from Baldwin-Wallace College. He was born at Bedford, Ind., on April 16, 1938, and died of cancer here last August.

Persons interested in assisting with the scholarship may do so through the UMC history department.

Change in Student Pay Advised

A committee appointed last fall by Chancellor Herbert W. Schooling has recommended that UMC begin a phased program to equalize pay rates among students and full-time employes by 1979.

The first step recommended by the committee is the setting of student rates at 80 percent of the full-time rate for similarly titled positions beginning in the fall of 1974. "The pay relationships of student to full-time positions vary from 65 to 95 percent now," the report said.

By the start of the 1979-80 school year, according to the committee recommendation, separate student pay scales should be abolished. At that time, job classifications alone would determine pay rate. Increments of four percent per year were suggested during the 1975-79 period if adequate funding is available.

"The proposal represents an effort to proceed logically toward the desired end in a way that is fiscally possible," the report concluded.

Committee chairman R. Kenneth Hutchinson, assistant UMC personnel officer, said the committee unanimouly recommended that anyone who has completed six months of continuous full-time employment will remain at the same wage rate upon transferring to part-time status in the same job classification. This recommendation deals with a basic issue which prompted the formation of the committee — the change of pay rate experienced by a full-time employe who became a part-time student employe performing essentially the same duties.

The committee further recommended that the definition of "student" be changed to include any high school or college student. This would result the same rate as UMC students.

Recognizing that some job classifications are presently occupied solely by students, the committee recommended that new classifications be created in cases job titles do not now appear on full-time job wage scales.

At his weekly news conference, Chancellor Schooling lauded the committee's efforts, saying that cost studies would be initiated by administrative provost John McGowan to determine feasibility of the plan.

Home Ec Plans Alumni Weekend

On March 22-23 the College of Home Economics will hold its first Alumni and Friends Weekend since becoming a college on July 1, 1973.

Four home economists will be honored at a luncheon planned for 12:30 p.m. Saturday in the Memorial Union large ballroom. A Citation of Merit will be awarded to Dr. Elizabeth Dyar Gifford, Dean of the Colorado State University College of Home Economics, for her contributions to the field. A Junior Citation of Merit will be awarded to Miss Sharilyn L. Lemkuil, program coordinator and communications specialist, St. Louis Dairy Council.

Honorary memberships in the College of Home Economics Alumni Association will be awarded to Dr. Mary Nell Greenwood, Director of Programs for the UMC Extension Division, and Mrs. Dorothy Wagner, supervising home economist for the Expanded Food and Nutrition Education Program with headquarters in Columbia.

The featured speaker for the luncheon will be Dr. Marjorie East, chairman of the department of Home Economics Education at Pennsylvania State University. Dr. East is an immediate past president of the American Home Economics Association and former president of the American Council of Consumer Interests.

Events for the weekend begin with a convocation arranged by the Home Economics Graduate Student Association in the Fine Arts Auditorium at 3:30 p.m. March 22. Dr. East will speak on "The Family in the Evolving Social Milieu."

Following the program at 4:45 p.m. will be a reception in the Alumni and Faculty Lounge of the Memorial Union. UMHEA will hold the Annual Spring Honors Banquet at 6 p.m. in 214 Memorial Union.

Registration for Saturday's activities and a coffee hour will begin at 9 a.m. March 23 in the Memorial Union Alumni Lounge.

A seminar on "Family in the Money Squeeze" will be held at 10 a.m. in the Memorial Union auditorium featuring Edward Metzen, chairman of family economics and management; Sandra Helmick, assistant professor of family economics and management; Betty Feather, instructor in clothing and textiles; Helen Davies, extension specialist in foods and nutrition; and Pat Lieurance, assistant professor of family economics and management.

An open house and reception will feature a display of work by alumni from the Housing and Interior Design Department. The display will be in Stanley Hall Gallery at 2:30 p.m. following the luncheon program.

The Citation of Merit winner Dr. Elizabeth Dyar Gifford received a Ph.D. from the UMC College of Home Economics in foods and nutrition. She was on the staff of the University of Arizona before becoming Vice Dean and then Dean of Colorado State University's College of Home Economics. Dr. Gifford has served as vice president of the American Home Economics Association and president of the Colorado Dietetic Association.

Miss Lemkuil received an M.S. in home economics communications in 1970 from the UMC College of Home Economics. She is an advisor to the St. Louis Home Economists in Business and president of the St. Louis Chapter of American Women in Radio and Television.

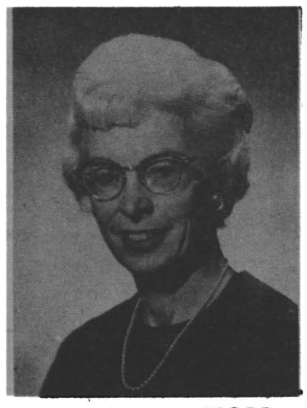
Dr. Greenwood received her B.S. in home economics education from Central Missouri State College and an M.S. and Ph.D. from the University of Wisconsin. She has served as a county home economist with the Extension Division, a district supervisor, assistant director of Home Economics Extension and Director of Continuing Education for Women.

Mrs. Wagner received a B.S. degree in home economics from Southeast Missouri State University, completed an internship and is a registered dietitian. She has worked for many years in the Southeast and Bootheel areas of Missouri.

MARY GREENWOOD

DOROTHY WAGNER

SHARILYN LEMKUIL



ELIZABETH GIFFORD

CAPA Schedules Phelps as Speaker

A speech by Lt. Gov. William Phelps will highlight the Honors Banquet for the annual CAPA Week, planned by the College of Administration and Public Affairs for March 18-22.

Other events scheduled include a "Beauty and the Beast" contest (with a professor as the beast) and "Professors for a Day" (with CAPA alumni and area businessman taking over teaching duties). Three alumni will receive Citations of Merit.

If you thought "Beauty and the Beast" belonged to the realm of fantasy, don't miss CAPA's contest. The two-day campaign begins March 18, when students select coeds as beauty candidates and the CAPA Student Council nominates one professor from each department for the title of beast.

The election will be held March 20; results of the contest and the 1974-75 Student Council elections will be announced at the barbeque scheduled for 6 p.m. March 21 at Corn's Lake. Tickets are available from Student Council members.

The "Professors for a Day" program was designed so businessmen could give students insight into "real world" competition and managerial decisions. The "professors" will be recognized at luncheons on March 20, 21 and 22 at the Memorial Union.

Citation of Merit Award winners join Friday's Professors for a Day at an Alumni Awards Luncheon at the Memorial Union March 22. The three winners, all CAPA alumni, are: Karl R. Bopp, retired president of Philadelphia's Federal Reserve Bank; Darrel D. Eichoff, executive vice-president of Metropolitan Life Insurance Co. of America; and Charles Price, president of Price Can Co. in Kansas City.

The Honors Banquet, with Lt. Gov. Phelps as featured speaker, will be held at 6 p.m. March 22 in the Memorial Union. Tickets are available in the CAPA Dean's Office, 105 Middlebush. Student honorees from the six CAPA departments will be recognized at the banquet, in addition to the winners of various scholarships, prizes and awards.

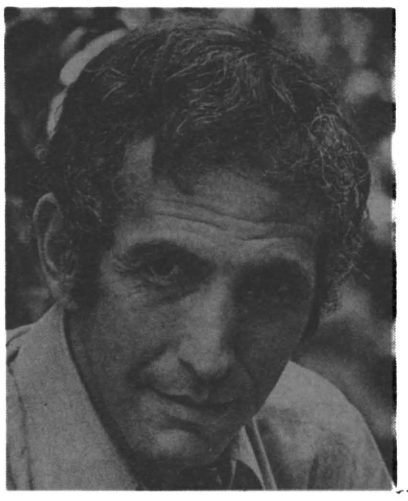
Ellsberg to Discuss Politics

Dr. Daniel Ellsberg, the central figure in the "Pentagon Papers" scandal, will speak at 8 p.m., Wednesday, March 6 in Hearnes Auditorium.

Ellsberg has done post graduate work in economics at both Harvard and Cambridge universities. He was a member of the Rand corporation's "think tank" and performed consulting work for the state department's policy planner.

Ellsberg joined the pentagon in 1964 as a special assistant in the department of international security affairs. In October 1969 he copied a top secret pentagon study of the Vietnam war and tried to bring it to the attention of government administrators. He later released certain of the documents to members of the press including the New York Times, the Boston Globe and the Washington Post.

Ellsberg was formerly tried for espionage, theft and burglary, However, all charges were dropped in lieu of the burglary of Ellsberg's psychiatrist's office.



DANIEL ELLSBERG

Government secrecy, press suppression, military policy and political persecution will be some of the topics Ellsberg will discuss. His speech, which is sponsored by MSA Student Activities, is free and open to the public.

Transfer Student Policies To Be Explored

Differences in policies on transfer students will be explored at the ninth annual University of Missouri Junior-Community College transition conference March 6-7 at UMC.

On the opening afternoon A. G. Unklesbay, University vice president for administration, will explain University policy on acceptance of Associate of Arts degree transfers and Dr. Dell Reed, president of Crowder College, will outline transfer recommendations of the Commission on Public Higher Education (COPHE).

Attendance of University faculty members to the conference is encouraged to obtain their opinions and to discuss possible differences with the college representatives.

The transition conferences were established to help solve problems arising between the two groups. At the suggestion of the colleges, a joint committee was formed for discussions that might be advisable between transition conferences.

The problems have become more complex with the upsurge in junior college enrollment. In earlier years, accreditation of the junior colleges was through the University, but junior colleges now are accredited through the State Department of Education.

Other discussion topics will include institutional cooperation, integrity of the transcript, vocational-technical programs and how they transfer, the meaning of general education, the non-traditional education experience, and a general concluding session to hear reports from the "mini sessions."

Dr. J. Lawrence Walkup, president of Northern Arizona University and a UMC graduate, will speak at the banquet on the opening evening, discussing "A Model for Student Centered Credit Transfer." The opening keynote address by Dr. Ervin Harlacher, chancellor of Metropolitan Junior College District in Kansas City, will be on "Partnership in Education." After a luncheon, John Pollmann of St. Louis' Meramec Community College, president of the Missouri Association of Community-Junior Colleges, will speak on "Institutional Cooperation."

Among others on the program: Herbert W. Schooling, chancellor, Gary Smith, Keener A. Tippin, Robert L. Burton, Terry Bashor, and Don Fitzhugh, all from UMC; Mrs. Sue Field-Smalley and George Spear, UMKC; Dave Allen, UMR; A. J. Boes, UMSL; Raymond J. Walsh, Jefferson College; and Arthur N. Wilkins, Longview Community College; Dale Schatz, Missouri Department of Education; and Mrs. Reba Cunningham, Cottey College.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 114 Jesse, or to the Office of Public Information, 223 Jesse, 882-6211.

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The University of Missouri
An Equal Opportunity Institution

Engineers Announce Honor Award Winners

For the twenty-third consecutive year, the College of Engineering, has chosen nominees to receive the Missouri Honor Award for Distinguished Service in Engineering.

The four 1974 awardees were chosen on the basis of their contributions to society through engineering education or professional engineering practices. They are:

D. W. Calvert, executive-vice president, The Williams Companies, Tulsa, Okla. Born in Bosworth, Mo., he earned his B.S. degree in civil engineering at the University of Missouri-Columbia in 1952.

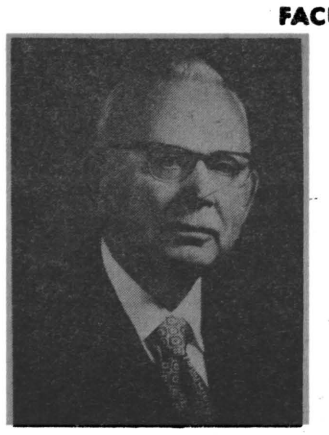
During his 22-year professional career, he has served in engineering and management positions in both industry and government.

Mack M. Jones, professor emeritus of agricultural engineering, UMC, was born in Buchanan County, Mo. He earned his B.S. degree in electrical engineering at the University of Illinois in 1918, his M.S. degree in agricultural engineering at Iowa State College in 1927. He was nominated in recognition of his 47-year association with UMC as teacher, prolific author, and administrator.

Edwin H. Meier, vice-president and assistant aerospace group executive-operations, Hughes Aircraft Company, Culver City, Calif., is a native of Enid, Okla. He was awarded his B.S. degree in electrical engineering by Oklahoma State University in 1940, his M.S. degree in electrical engineering at the University of Missouri-Columbia in 1941. He is being cited for his 33-year career that ranges from early World War II radar developments to key technical and management roles in the Hughes Aircraft missile and space programs.

Harold E. Thayer, chairman of the board and chief executive officer, Mallinckrodt Chemical Works, St. Louis, Mo., is a native of Rochester, N. Y. He graduated from the Massachusetts Institute of Technology with a B.S. degree in chemical engineering administration in 1934. His selection as an awardee is based on his 40-year association with the chemical industry, an ongoing career that has encompassed everything from technical sales to management responsibility for the processing of uranium and related materials.

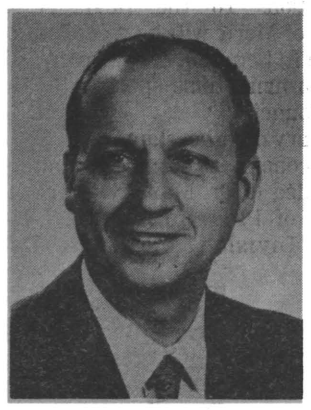
Bronze medals and framed citations will be presented to these four engineers at a special awards banquet Friday, April 5 at 6:45 p.m. in the Memorial Union.



MACK M. JONES

D. W. CALVERT

HAROLD E. THAYER



EDWIN H. MEIER

The following is a schedule of events planned for Engineers' Week, March 30-April 6.

March 30: Gas Economy Run, 9:30 a.m.

April 1: Parade, 3 p.m. Faculty Fun and Frolics, 7:30 p.m., E. E. Auditorium.

April 2: Professor for a Day, all day. Slide Rule Contest, 3 p.m., 1047 Engineering.

April 3: Professor for a Day, all day. Queen Skits and Serenade, 8 p.m., Middlebush Auditorium.

April 4: Board Contest, 10:30 a.m., 1001 Engineering. Barbecue with softball game, 4 p.m., Engineering parking lot.

April 5: Lab Exhibits, 6:30-9:30 p.m., E. E. and Engineering Bldgs. Knighting Ceremony, 5 p.m. Honors Awards Reception, 6 p.m., Alumni Lounge, Memorial Union. Honors Awards Banquet, 6:45 p.m., N201-202 Memorial Union.

April 6: Lab Exhibits, 9 a.m.-3 p.m., E. E. and Engineering Bldgs. Alumni Business Meeting, 10:30 a.m., N222-223, Memorial Union. Alumni Wives Tea, 10:30 a.m., Alumni Lounge, Memorial Union. Alumni Luncheon, noon, S214-215 Memorial Union. Green Tea, 2-4 p.m., Chancellor's campus home. St. Pat's Ball, 8:30-11:30 p.m., Tiger Hotel (Coronation at 10:30 p.m.).

Angela Davis Here April 4

ANGELA DAVIS

Angela Davis, a controversial philosopher and political activist, will speak at 8 p.m., Thursday, April 4 in Hearnes Auditorium.

Ms. Davis first made news in 1969 when she was fired as an assistant professor of philosophy at the University of California at Los Angeles after acknowledging affiliation with the Communist party. She was later reinstated in her position by the courts.

In 1970 Ms. Davis was charged and imprisioned in connection with a case of kidnapping, murder and conspiracy in San Rafael, Calif. However, after a trial in the spring of 1972 she was acquitted of all charges.

She has compiled a book of writings titled "If They Come in the Morning: Voices of Resistance."

Ms. Davis' speech, which is free and open to the public, is sponsored by the UMC Legion of Black Collegians and the Missouri Students Association.

News-In-Sound

For a brief nightly run-down of cultural events, entertainment features and campus news, **News In Sound, 882-7869,** produced by the Office of Public Information for the University of Missouri-Columbia.

Bill Vaughan to Speak To Friends of Library

Humorist Bill Vaughan of the Kansas City Star will speak at Friends of the Library Day March 23 at UMC. The annual dinner at which Vaughan will speak is scheduled for 6 p.m. in the Memorial Union Ballroom.

Vaughan is well-known for his columns, "Senator Soaper Says" and "Vaughan at Large." The humorist has written several volumes of essays, and in 1972, he received the University of Missouri Honor Award for Distinguished Service in Journalism.

The dinner will wind up a day of tours and other events for members of The Friends of the University of Missouri Library and State Historical Society of Missouri.

Another highlight will be a reception from 3 to 4 p.m. by President and Mrs. C. Brice Ratchford in the University Reception House and President's Home.

The Museum of Art and Archaeology and the State Historical Society Art Gallery will hold special hours, March 23, from 10 a.m. to 3 p.m., closing from 12 noon to 1 p.m.

Tours of Ellis Library will begin at 10:30 a.m. and 1:15 p.m. The John G. Neihardt Room in the Library will be open, with books from his private collection, his portrait and bust. A phonograph recording of Neihardt reading his poems will be available.

Various collections which Friends of the Library have assisted in obtaining will be on display in the Rare Book Room, fourth floor west. Included are collections of literature, early children's books, textbooks and cookbooks, rare books and books from private presses. Information about books which the library needs will also be displayed.

A buffet luncheon, open to members and guests, will begin at 11:30 a.m. in the Hawthorn Room and will precede the annual meeting from 2 to 3 p.m. in the fourth floor conference room of Ellis Library.

The Friends of the Library was organized here in early 1960. From that time until June, 1973, approximately 57,000 gift copies of publications have come to the Library through the efforts of members.

Further information about membership, the March 23 meeting or tickets is available at the office of the secretary of The Friends of the Library, Bob LaBerge, Room 4F42, Ellis Library, phone 882-2854. LaBerge is assistant to the director of UMC libraries.

Journalism Week Scheduled

Members of the local, state and national media will be on the UMC campus April 2-5 for the 65th Annual Journalism Week of the School of Journalism.

During the week, awards will be presented to the winners of the prestigious Pictures of the Year competition. The contest is sponsored annually by the National Press Photographers Association, the School of Journalism and Nikon Inc.

The coveted Missouri Honor Awards for Distinguished Service in Journalism will be presented at the traditional journalism banquet at 7:30 p.m., Friday, April 5. Winners of the bronze medals are selected on the basis of overall performance in the field of journalism.

Tickets, which are $7.50 per person, will go on sale in the Dean's office, School of Journalism, March 26.

Departments Set Symposium On Behavior

A symposium on "The Chemical Bases of Behavior," featuring six separate presentations, will begin March 6 at the University of Missouri-Columbia.

All lectures will be held at 3:40 p.m. in the Memorial Union Auditorium except as noted. The entire program is free and open to the public.

Speakers and topics in March include Howard Berg, assistant professor of biology, University of Chicago, "Chemotaxis in E Coli," March 6; and J. T. Bonner, professor of biology, Princeton University, "Chemical Signals in Development," March 20.

The program in April will include D. Muller-Schwarze, professor of zoology, State University of New York, "Chemical Communication in Mammals — The State of the Art," April 3; J. W. Truman, assistant professor of zoology, University of Washington, "Hormonal Control of Insect Behavior," April 10; G. Ungar, professor of anesthesiology, Baylor College of Medicine, "Peptides and Behavior," April 18 (Room 18 Tucker Hall) and J. Gaito, professor of psychology, York University, Ontario, "Molecular Psychobiology: Attempts to Find the Molecular Bases of Learning and Memory," April 24.

The symposium is sponsored by the Graduate School; Division of Biological Sciences; department of entomology; department of medicine; department of biochemistry; microbiology area program; department of psychology; department of psychiatry; department of agronomy; department of veterinary microbiology and the Dalton Research Center.

. . . A Dollar's Worth of Results

(Editor's Note: The following article, originally titled "Science and Management Techniques," is reprinted from the Feb. 22, 1974 issue of Science, Vol. 183, No. 4126. The author, Norman G. Anderson, is director of the molecular anatomy program at Oak Ridge National Laboratories, Oak Ridge, Tenn.)

The thoughts presented here had their origin in an insightful remark made by a drain maintenance specialist in our laboratory. He noted that research scientists spend much of their time in the library just reading magazines.

It is our public duty as scientists to see that for every research dollar spent, the public receives a dollar's worth of results. Hence the widely accepted conclusion that the management of our affairs needs much more careful scrutiny and control than in the past. Since scientists engaged in research are, as a group, somewhat less responsive to newer management techniques than other citizens appear to be, it might be well for the scientific community to ponder and profit from the management successes that have occurred in other creative fields. I am deeply indebted to the Office of Management Resources for permission to share with the reader portions of a recent study, OMR-CY 54-8-095, which earned a commendation at the Secretaries level for thoroughness and originality. Its lessons should be the subject of introspection for all of us.

Briefly, the problem that gave rise to the report was this: The symphony orchestra of one of our largest cities was found to be non-cost effective. Since 37 different agencies contributed in various ways to the support of this organization, the duties and responsibilities of the government were clear, and a 38th agency was assigned to investigate the case. With remarkable sensitivity to the nuances of such a difficult problem, and with due respect to the rights of minority groups, it was decided to appoint a member of a group not previously given sufficient recognition — the totally deaf. The investigator appointed was therefore less subject to bothersome auditory distractions. His study is remarkable for its insight and clarity, and I can do no better than to quote from it directly.

. . . the newly created Office of Participation Improvement, which has a skeleton staff of 148.

"It took only the most casual observation to discover that, while musicians are paid in full for their time, they do not play all of the time. The fault is partly in the choice of music. Using a simple computer program, it was possible to score musical programs for degree of involvement for each player and to choose programs on this basis. This has resulted in a Musician Participation Improvement Program that should be more widely adopted. It will be administered through the newly created Office of Participation Improvement, which has a skeleton staff of 148.

"Closer analysis of musical scores, however, revealed that many composers considered a full orchestra unnecessary and therefore obviously wasteful. By selecting works scored for smaller groups, very large savings are possible. While there has been disagreement concerning what should be retained, clearly some reduction in staff is in order.

"There appears to be little evidence of modern technology and of modern management principles in our orchestras. The piccolo clearly needs to be redesigned, and no attempts appear to have been made to improve violin design since the last century. However, the most immediate improvements are to be had by applying modern management expertise to orchestral direction. As is well known in military command circles, no one can direct 100 people effectively except through subordinates. On the average, one man can interact effectively with only five or six people. Clearly, subdirectors are required, and at least one should be appointed in each section to stand and receive instructions from the conductor and pass them on through the command chain to the performers. In this way responsibilities can be more clearly fixed and goals and tasks assigned.

"I have also found that communication within the orchestra is deficient. Some portion of each performance should therefore by set aside for discussion to improve the flow of organizational information and to allow subdirectors, through probing questions, to see if instructions and goals are understood. Much improvement is also to be made through standardization. For example, different conductors take different lengths of time to perform the same works. In addition, there is much repetition, and I can find no useful purpose for it whatsoever.

"However, the most glaring defect is in the reporting system. It is astounding to discover that no reports are written — weekly, monthly, triannually, semi-annually, or annually. It is my own view that this is clearly the heart of the problem. All sorts of advance notice, programs of intent, and so forth are given, but there is little evidence on file of solid performance. Continued government support should not be provided in its absence.

"The matter of training and education has also been examined. There simply are not enough positions available to justify musical education on the scale now practiced. Only four or five replacements per year are needed, yet, most orchestra members train literally dozens of students. The wastes here are staggering, and training should clearly be restricted. Further, little attention is given to the balance between instruments taught and requirements. Most instruction is in piano — an instrument often omitted from concerts entirely. And when one is used, it is almost always played by an outsider who busies himself serving many different orchestras. This policy of manpower sharing should be more widely adopted, especially as regards performers needed only occasionally, such as harpists.

"There is one specialty that appears to be in short supply, however, and that therefore demands a high salary, which contributes greatly to cost. This specialty is conducting. Of all performers, the conductor is the most vigorous, and he is the only one who performs constantly. The basic reason that there are few conductors is that there are no good texts on this vocation. Training programs should therefore be encouraged and should teach the essentials in this field once they have been catalogued. That will take some time, however. For the present, we need new and innovative solutions such as the one I propose here. Time-motion and eye-movement studies confirm my observation that conductors are able to fix visually different performers at precisely defined times and then make sweeping gestures in their direction. In a previous study, I found that successful quarterbacks do the same thing, singling one player out of many after a precise number of counts and, with a precise overhand motion, projecting a score object in that player's direction. Since plots of quarterback and conductor ages show little overlap, it is evident that one could quite successfully become the other. This concept, called Sequential Career Commonality Utilization, is now being applied in many other fields, and the Sequential Career Commonality Utilization Branch is slated to achieve bureau status in a few years. The greatest breakthrough achieved by this branch was the finding of politician-night watchman commonalities, such as random walking, peering into darkness, and lack of a requirement for intelligent conversation, suggesting that either could serve as the other.

. . . the Sequential Career Commonality Utilization Branch is slated to achieve bureau status.

"Modesty forbids that I dwell too long on my final point, but I cannot omit mentioning the question most often asked me: 'What accounts for your unbroken string of successes and innovations?' My success, I believe, due to my advantage of the broader view, of seeing how it all fits together, of knowing, if you will, the grand design. Knowing the game plan keeps one from reinventing the wheel, lets one leave the sinking ship, and lets one hit a home run without dropping the whole ball of wax, no matter how the cookie crumbles at any point in time. That's really the secret. The narrow, non-management trained specialist should be on tap, but never on top."

It is my deep pleasure to be able to share these insights with the readership of Science. It is easy to see how well this type of analysis and management skill applies to research management. I am, again, indebted to the Office of Management Resources for permission to reprint the above quotation.

University Press Wins Awards

The University of Missouri Press has placed three books among the 17 designated as "Midwest Books of the Year, 1973." Announcement of the recognition was made by Lawrence Thompson, program director for the annual competition for excellence in book design, typography, and quality of production.

Dr. Thompson, of the University of Kentucky, said that the 1973 competition drew more than 200 books from 40 commercial and university book publishers in the Midwest. The Missouri Press is the only publisher with three books in the award group, which will be displayed at colleges and libraries throughout the midwest during 1974. The 1972 winners, which included two Missouri titles, were shown at more than 50 university, college, and public libraries in 1973.

Edward King, associate director of the University Press, designed the three Press winners, and supervised each in manufacture. The three winners are: "A History of Missouri, Volume III: 1860 to 1975," by William E. Parrish, Dean of Westminster College, Fulton, Mo.; "The Cherokee Strip Live Stock Association," by William W. Savage, Jr., of the University of Oklahoma; "Captains and Cabinets: Anglo-American Naval Relations, 1917-1918," by David F. Trask, State University of New York, Stony Brook.

Gifts and Grants

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

Accountancy Department — UMC accountancy alumni and their employers have contribued nearly $11,000 for scholarships, equipment and technical aids, seminar travel expenses, and underwriting research by department faculty. Donors were Arthur Anderson and Co., Arthur Young and Co., and Price Waterhouse Foundation.

COLLEGE OF ARTS AND SCIENCE

Biological Sciences — A $44,000 grant has been awarded by the National Science Foundation to support a UMC project, "Acoustic Communication in U.S. Treefrogs." The project, under the direction of H. Carl Gerhardt Jr., will extend through the next two years. The research will provide important information about the central nervous system organization of the tree frog species.

COLLEGE OF ENGINEERING

Industrial Engineering — A $1,000 grant from Armco Steel Corporation will be used by the department of industrial engineering for student oriented projects.

Accounting Lectures Planned

Leaders in professional accounting will deliver DR Scott Lectures at the University of Missouri-Columbia on March 28 and April 18. Both will be held at 2:40 p.m. in Room S203 of the Memorial Union and are open to the public.

Sponsor of the seventh annual series is the department of accountancy in the College of Administration and Public Affairs (CAPA).

On March 28, Dr. Hector Anton of New York, recently elected partner of Haskins & Sells, CPAs, will discuss "Leveraged Leases: A Marriage of Taxation Economics and Accounting." Anton, formerly associate dean of the Graduate School of Business Administration, University of California, Berkeley campus, has been awarded several visiting professor appointments around the world.

April 18 Dr. Abraham Briloff, a critic of the accounting profession, will speak on accounting standards. Briloff is a professor at the City University of New York.

The lecture series is dedicated to DR Scott, organizer and first chairman of the department of accountancy in the College of Administration and Public Affairs, who died in 1954. Department chairman Joseph Silvoso says the series is internationally recognized as a result of publication of the annual lectures.

An earlier lecture, Feb. 14, featured Philip Defliese, managing partner of Coopers & Lybrand, international public accounting firm based in New York.

50 Graduate Programs End

(Editor's Note: The following article, originally titled "50 Graduate Programs Ending in Washington," is reprinted from the Feb. 22 issue of Higher Education and National Affairs.)

A total of 50 graduate programs at colleges and universities in the state of Washington are being terminated as a result of recommendations in the first phase of a Graduate Review Effort of the state's Council on Higher Education. Being eliminated are 15 programs at the University of Washington and additional ones at Washington State University, and Central, Eastern, and Western Washington State Colleges.

Initially, 136 programs were identified for review because of low enrollment and low degree conferrals. This was later reduced to 126 with 50 recommended for termination. Low productivity was determined by review of the five-year period, 1968-72. For the master's level, programs were considered in the low productivity category if degree conferral averaged less than three per year. At the doctoral level, degree conferrals of one or less per year were identified. Enrollment criteria were based on institutional graduate program averages.

The second phase of the Graduate Review Effort will examine duplicative programs at the institutions.

Prof. Experiments With Electronic Music

Electronic music might be dismissed as fadism by fundamentalists, but advocates like Prof. W. Thomas McKenney contend that the synthesizer has opened up an exciting new range of possibilities for composers.

McKenney, an associate professor of music, recently received his third University grant, this one earmarked to aid exploring those possibilities.

McKenney became interested in the synthesizer while working on his Ph.D. at the Eastman School of Music in Rochester, N.Y. at which time he spent an afternoon acquainting himself with the equipment at the Moog Center in Trumansburg.

In 1969, after joining the Missouri faculty, McKenney received a teacher improvement grant to return to Trumansburg for a week of study. In the course of seven 10-hour days, he produced his first short electronic composition.

The University of Missouri-Columbia Research Council appropriated $2,000 in 1971 for McKenney to procure an English-made VCS3 synthesizer and keyboard. The music department, which from the first was receptive to McKenney's experimentation, supplemented the studio with an eight-octave filter bank, tape recorders and amplifiers.

Since setting up the fledgling studio, McKenney's most ambitious composition has been a 14-minute electronic work for a poetic documentary film entitled "The Lake" which was produced in 1973 with Prof. Eric Rutherford of the University art department.

Both music and visuals in this film are independent entities each of which, McKenney says, is capable of standing on its own. The score is sufficiently strong to be used as a concert piece. McKenney and Rutherford will be cooperating again in the near future on a second film proposing to study the relationship of color and movement.

McKenney has just finished a composition for children's string orchestra and tape which may be performed by a New York children's ensemble, and he will soon be working on a sonata for solo violin and tape to be performed in New York and possibly Europe by UMC visiting professor Edward Polidi.

The synthesizer was never intended to simplify actual composition. Indeed, composing on the equipment is an arduous and time-consuming task. McKenney has spent up to three hours creating a single sound lasting only two or three seconds. The composer must not only hear in his mind the kind of sounds he would like to create, but must also be familiar enough with the instrument to create those sounds.

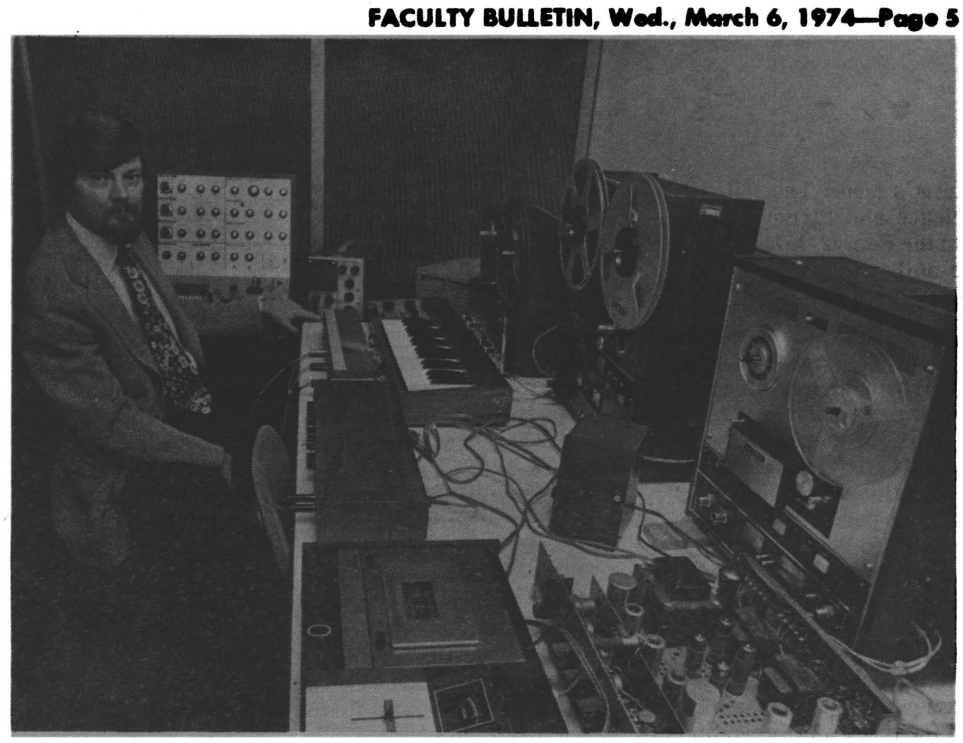
McKenney produces pitch with a signal generator then modifies timbre, duration and amplitude electronically. The VCS3, he explains, gives broader latitude to a composer than a traditional instrument like the piano because the potential variations on any given tone are infinite. Once a tone is born, it can stand on its own or be recorded on the University's four-track TEAC recorder to be combined with another tone for further variation.

Equipped now with two synthesizers, tape recorders, speakers, amplifiers and filter banks, the University studio allows McKenney to perform more complex variations than were possible with a single synthesizer.

Because electronic music is finding its way into everything from film scores to TV commercials, McKenney is convinced of the value of including this mode in standard music curricula. Those being trained for school music teaching, he feels, should at least be familiar with the synthesizer because they will be encountering students who may not be as interesed in choir as in rock bands. A teacher thus equipped has common ground to talk with students on the musical periphery.

McKenney observes that several St. Louis High schools, recognizing electronic music's significance, have set up their own studios, and the composer would like to see a class in electronic music appreciation opened to the entire student body of the University of Missouri-Columbia.

Far from fad, says McKenney, electronic music must be reckoned with as an increasingly important part of our musical environment.



Prof. W. Thomas McKenney in the University's Electronic Music Studio.

Accreditation Program Expands

The Commission on Accreditation of Service Experiences of the American Council on Education has been expanded to include measurement of other forms of nontraditional learning.

The Commission was established in 1945 to evaluate service experience for accreditation by the nation's schools and colleges. Dr. C. W. McLane, retired registrar and admissions director at the University of Missouri-Columbia, was instrumental in establishing the Commission and still is listed as a staff consultant.

The Commission's name has been changed to the Office on Educational Credit and its duties will include four new areas — measuring formal learning experiences offered by noneducational institutions such as business, industry and government sponsors; making recommendations to institutions regarding policies and procedures in measuring knowledge gained as a result of nonformal educational experiences; ascertaining feasibility of using certification, licensure and registration credentials as a means of awarding educational credit; and providing other services which might be helpful in encouraging desirable interface between traditional and nontraditional education.

Archives Program Helps Preserve History

(Editor's Note: The following article is reprinted from the January 1974 issue of Show-Me Libraries. The author, Ralph Havener, is University Archivist.)

The University of Missouri maintains an Archives to preserve the historical records of the University, to facilitate efficient records management, and to serve historical research and scholarship.

Eventually its holdings will include correspondence, subject files, minutes, reports, books, periodicals and reprints, documents, catalogs, bulletins, diaries, scrap books, photographs, disc and tape records, motion picture films, and memorabilia. Such materials help document the functions and activities of the University's staff and students.

By law, of course, the Board of Curators is the custodian of the University's records. At its meeting on February 13, 1970 the Board approved a University-Wide Archival program; and in order to develop a professional program, an archivist was employed. At the same meeting the Curators established certain board policies.

The University Records and Archives Committee under the Board policy "shall determine what University records have administrative, legal, fiscal, or historical value and should not be destroyed or otherwise disposed of, and shall authorize destruction or disposal of other records. No University records shall be destroyed or otherwise disposed of by any University officer or employee on his own initiative."

Inherent in the Board's archival program were the basic objectives and duties of the University Archivist. First of all, the archivist must collect and maintain the official records.

Traditionally the role of the archivist is the handling of official administrative files relating to policies, operations, and housekeeping activities. These records make up the basic documentation in a university.

Usually they include the subject files of the president, deans, divisions, departments, institutions, bureaus, centers, and committees. Among them will be found alphabetical subject files, chronological correspondence files, administrative issuances, directives and manuals, personal or case files, and the routine financial records common to all offices.

Since these records contain a heavy concentration of administrative inter-departmental affairs, they are a key primary source for the preparation of a university's history.

A second major objective of the archivist is to obtain the professional and personal manuscripts of the faculty and administrative staff. The papers of teaching and research faculty and administrators comprise the most interesting segment of a university's documentation.

Probably no other type of institution has as many individuals whose records should be preserved. Faculty papers provide a personalized account of the institution's development, its internal squabbles, and its research accomplishments.

Typically they include correspondence; clippings and scrapbooks; press releases; journals and notebooks; handwritten copies of papers, talks, and addresses; research notes; photographs; programs; instructional materials such as syllabi, notes, examinations, texts and slides; professional organization files; publications; and such reference files as catalogs, brochures, and reprints.

Especially significant, of course, are the handscript notes and letters of professors whose work earned them national or international reputations.

Obviously, another type of documentation which a university archivist must actively seek is all kinds of records relating to students and student organizations.

The archivist is particularly interested in obtaining the minutes, committee reports, and financial data of student groups such as literary societies, fraternities and sororities, independent groups, and others.

Firmly believing the old cliche that one picture is worth a thousand words, the archivist avidly searches out photographs of student activities and other kinds of memorabilia which help tell the story of student life.

Meanwhile, a further mandate of the Curators is that the archivist shall work in close cooperation with the chancellor of each campus in order to develop a records preservation system at each location.

Also, in order to serve historical research and scholarship, the archives staff must perform routine daily processing work — the nitty gritty of any archival activity. Archives work includes a good deal of physical labor, meticulous description work, and sometimes pure tedium.

The archivist, however, avoids some staff tedium by keeping a half dozen or so projects underway simultaneously. This aids morale and helps attain the goal of serving the archives' two principal clientele: 1) the administrators and 2) the qualified researchers.

In spite of complex problems, this many-faceted University of Missouri Archives program is designed to collect, process, and preserve for research use the historical documentation relating to the functions and activities of the University staff and students.

Procedural forms developed by the University of Missouri archives are among those being offered as models for other educational institutions in the United States and Canada to follow. Ten forms of the University's archives are included in a manual published by the College and University Archives Committee of the Society of American Archivists.

Since many colleges and universities do not yet have fully organized archives, the manual will help them in properly organizing one, according to Ralph Havener, University of Missouri archivist. This assistance was the main purpose for publishing the manual.

The manual contains 305 forms selected from over 1,000 forms gathered for the purpose. These 305 forms, considered as most representative, are arranged into 15 categories according to the various functions of the archival process.

Nineteen members of the CUAA participated in the preparation of the manual by gathering forms in various areas of the United States and Canada. Havener is one of those members and was responsible for gathering forms from Missouri and Iowa.

Faculty Council Minutes

Jan. 31

Council response to the admission fee problem. A letter to the Chancellor concerning this matter (attached to minutes) was presented to the Council from the Executive Committee. Its adoption was proposed by the Executive Committee, seconded by Prof. Holroyd. Following discussion some modification was agreed upon. The motion then passed by voice vote without dissent.

Letter to Divisional Policy Committee chairpersons. A letter (attached to minutes) concerning the COPHE agreement was presented to the Council. Prof. Nauman proposed, Prof. Bivens seconded, the motion that it be transmitted to the chairpersons of the Divisional Policy Committees. Motion passed by voice vote without dissent.

Faculty athletic opportunities. Prof. Miller reported that recommendations of the Council of Sept. 20, 1973 concerning the use of facilities in the Hearnes Multipurpose Building do not appear to have been implemented. Prof. Spencer moved, Prof. Bivens seconded, that Prof. Miller and a representative from the Hearnes Auditorium Committee should meet with the Chancellor to discuss the discrepancies. Motion passed by voice vote without dissent.

Prof. Miller requested the Council's endorsement of two items of policy concerning the use of the Hearnes Building. Item A was proposed by Prof. Miller, seconded by Prof. Spencer. Item B was proposed by Prof. Miller, seconded by Prof. Murdock. Both motions were accepted by voice vote without dissent.

Copyright policy. A short discussion took place concerning copyright policy. Prof. Murdock moved, Prof. Schooler seconded, that the matter be referred to a committee. Passed by voice vote without dissent.

Discussion items and announcements. A discussion took place covering several aspects of the academic scene including the Campus Academic Plan, the By-law status, faculty meetings and Calendar committees. Prof. Kimber presented an item, suggested for consideration by the University Assembly, that faculty-student committees should be appointed at the beginning of the winter semester for a period of 12 months. Following discussion Prof. Spencer proposed, Prof. Whitworth seconded, a motion that we should encourage the development of the plan. Passed by voice vote without dissent.

February 4, 1974

TO: Chancellor Schooling
SUBJECT: Proposed Fees

The UMC Faculty Council wishes to express concern and dismay over proposed changes in advance deposits and application fees expected of undergraduate and graduate students as well as the process by which these proposed changes have been initiated and processed. Furthermore, the Council seriously questions the need for identical fee schedules on all four campuses. As missions differ, so many costs and procedures differ.

The Council feels most strongly that matters relating to admission are such an integral part of the educational mission that early Faculty involvement in proposed changes, even those of a financial nature, should be obtained. Certainly, we feel it inappropriate that such matters would be generated beyond the Faculty level and preliminary decisions arrived at before seeking Faculty input.

The Council seriously questions the wisdom of dropping the advance deposit for undergraduates. This would seem likely to result in this campus having less accurate estimates of potential enrollments on which to plan. Additionally, of course, processing of applications itself costs something, and to adopt a practice which encourages applications from students who may only be nominally interested seems doubtful on fiscal grounds.

The Council strenuously objects to the $25 fee proposed for all applicants to the professional schools and the Graduate School. Especially at a time when the University is most interested in attracting highly-qualified graduate students, it seems inappropriate to introduce additional costs to prospective students who are already faced with increasing tuition and dwindling fellowship support. Whether such fees should be charged and professional schools is a matter that should be determined by each school. There is no necessity for all of them to have the same fee structure.

Cordially yours

Robert S. Daniel, Chairman
for the UMC Faculty Council

February 4, 1974

TO: Chairpersons of Divisional Policy Committees
SUBJECT: University response to COPHE Articulation "Agreement"

For some time the Council has had this "agreement" under study. We transmitted to the administration a statement of disapproval on December 3, 1973.

In early January, the COPHE group met for a final official acceptance of the document. The University of Missouri, along with a few other institutions, did not approve the agreement. Vice President Unklesbay, speaking for MU, read a statement of the University policy on transfer students. This statement appeared in the Bulletin In Brief of January 18, 1974.

Although this statement is original in its present form, it essentially represents policy we have been following for some years. In no sense is it a capitulation to the COPHE plan, as represented in a local newspaper story. One difference from present policy is that we will accept the minimal GPA including "D" grades (as we do for our own students). In recent years some divisions have not accepted credits with "D" grades.

Please note that the new statement covers "General Education Requirements" and not graduation requirements in other categories. Thus divisions which have language requirements ("skills"), or other categories, will be expected to continue to require them of transfer students.

In the College of Arts and Science (and perhaps others) there is an upperclass requirement of three courses in the General Education Requirements. If this requirement is removed from that category and recast as a graduation requirement, then it would follow that community college transfers would have the same requirements as do our own students.

It is the opinion of the Council that each division should carefully examine its own requirements in light of the recent policy statement and with special reference to impressions given to the prospective transfer student. We feel that there is a serious danger of students misunderstanding our requirements thus leading to bad public relations.

Inasmuch as the question of requirements is a Divisional concern, the Council feels that it has completed its work by referring the matter to you at this point. However, if we can be of further assistance, please feel free to call on the Council.

Cordially yours,

Robert S. Daniel, Chairman
For the Faculty Council

Feb. 7

Visit of the Dean of Student Affairs. Dean Banning visited with the Council and talked about the policies and operations of his office. He also indicated the relationships of his office with other divisions on the campus.

Visit of Prof. Viele. Prof. Viele visited with the Council and detailed the actions of the Geology Department with respects to the Doctoral Faculty. He presented an historical survey of events leading up to the present actions and then related some of the more recent developments. Prof. Viele then answered questions asked by members of the Council.

Doctoral Faculty. The Council debated various aspects of the Doctoral Faculty situation. The Executive Committee presented to the Council the draft of a communication to the Faculty which expressed the committee's concerns and contained two recommendations. The Executive Committee proposed its adoption, seconded by Prof. Denny. Considerable discussion took place.

Prof. Mauksch moved, Prof. Headley seconded, an amendment that the following paragraph be included after paragraph three. "Changes have been imposed upon the published procedures. This amounts to a breach of the understanding of the procedure." Following discussion the amendment passed by voice vote without dissent.

Prof. Wiecek moved, Prof. Hedlund seconded, that the word "Forum" be changed to "Meeting." Motion lost by 12 votes to 13.

Prof. Bivens moved, Prof. Hunvald seconded, that the last sentence of part six be deleted. Passed by voice vote without dissent.

The original motion, adopting the statement as amended, passed by voice vote without dissent. The statement was "polished" by the Executive Committee (meeting Feb. 7 at 8 p.m.). Copies were delivered to Schooling, Koeppe, Berry, and to OPI for release. Information copies were sent to the other three campuses. Delivery to the UMC faculty was scheduled for Feb. 11.

Feb. 14

Doctoral Faculty. A statement requesting a delay in the Doctoral Faculty procedures was proposed by the executive committee, seconded by Prof. Hunvald. Prof. Naumann moved, Prof. Storvic seconded, the motion that the last sentence be deleted. Motion passed by voice vote without dissent. Prof. Headley moved, Prof. Schooler seconded, that the penultimate sentence be deleted. Motion passed by voice vote.

The original motion then passed by voice vote.

A resolution, attached to these minutes, proposed by the Missouri Student Association Senate supporting the faculty efforts concerning Doctoral education was given to all members present. The council expressed its appreciation of the statement.

Visit of Pres. Ratchford. The request for the delay in procedures concerning the Doctoral Faculty was handed to Pres. Ratchford following which considerable time was spent discussing the Doctoral Faculty situation. The president repeated the reasons for the establishment of the Doctoral Faculty (1) improvement of quality (2) greater University-wide accessibility of faculty to participate in advisement and (3) dollar savings.

Discussion also ranged over the reorganization of State government, Administrative review processes, resolution C and other matters.

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PURPOSE: To voice the Missouri Students Association's support of the UMC faculty in its attempts to assure the continuation and improvement of quality education on the UMC campus.

BACKGROUND: Whereas any academic reform must necessarily rebound in its influence to the student body, thus justifying MSA's concern with such reforms, and

Whereas the Missouri Students Association recognizes and entertains many of the same concerns as the UMC faculty with regards to establishment of a University Doctoral Faculty, and

Whereas neither students nor faculty have received satisfactory answers to their pressing questions about the proposal, including such things as: 1) How can the new plan reduce costs of the doctoral program except by eliminating doctoral programs and thus the quality of education at UMC?; 2) If indeed the proposal would, as promised, recertify all qualified faculty without other criteria attached, and if therefore, the proposed system simply further administratively complicates the present process without improving professional quality, why is it necessary?; and 3) If the proposal is intended solely to improve the quality of education on the four University campuses, how is it to do so?

THEREFORE, BE IT RESOLVED that the Missouri Students Association voices its support of the UMC faculty in its attempts to assure the continuation and improvement of quality education on the UMC campus.

BE IT FURTHER RESOLVED that the Missouri Students Association will fully endorse any Faculty Council resolution with the goal of postponing implementation of the proposed University Doctoral Faculty Plan until pressing questions are adequately answered.

BE IT FURTHER RESOLVED that copies of this resolution shall be sent to the President of the University of Missouri, the Vice President for Academic Affairs, the Chancellor of the Columbia campus, the Faculty Council of the Columbia campus, and the Dean of the Graduate School.

PASSED UNANIMOUSLY BY THE MSA SENATE
ON Feb. 13, 1974

Respectfully submitted,
Paul S. Woerner, President
Missouri Students Association

Feb. 21

Visit with the Director of the Faculty Development Project. Dr. Tate discussed the functions of his office and focuses attention upon the impact of the Affirmative Action Program upon the academic community.

Doctoral Faculty. Chairman Daniel submitted a single page written report on the Doctoral Faculty issue. The report focused upon four points of agreement with Pres. Ratchford, namely:

a. A new schedule for the process which changes the date for submission of nomination to the Divisional Dean from Feb. 25 to March 8.

b. Graduate Deans will initiate a process through Department Charmen that will facilitate a feed back from the departments regarding the adequacy of Peer Group Criteria.

c. The President will clarify issues raised by the faculty via the Faculty Forum and the Faculty Council. This will be distributed publicly.

d. Resumes will be accepted in lieu of prescribed application forms, although the original forms remain the official method of making application.

Membership of a Fringe Benefits Ad Hoc Committee. Several names were suggested as likely persons to serve on this committee.

Academic Affairs Committee of Board of Curators — Resolution C. Hearing. Profs. Adair, Daniel and Nauert were appointed to meet with the Board Committee at 9:30 Thursday, Feb. 28, to support the action of the Faculty on Resolution C.

The faculty has approved the proposed revisions in the Faculty By-Laws by a vote of 548 to 43, according to Robert S. Daniel, chairman of the Faculty Council. Results of the mail-in balloting were certified by the Faculty Council at its meeting Feb. 28.

Graduate School and Research Notes

ETHNIC HERITAGE STUDIES — The U.S. Office of Education has announced that it will publish regulations on or about March 1 for the Ethnic Heritage Studies Program. The Fiscal Year 1974 appropriation of $2,375,000 for the program will be obligated for expenditures in 1975 FY beginning July 1. The program authorizes the U.S. Education Commissioner to make grants and contracts to assist in "planning, developing, establishing, and operating ethnic heritage studies programs." Each program assisted is to develop curriculum materials in elementary and secondary schools or institutions of higher education "relating to the history, geography, society, economy, literature, art, music, drama, language, and general culture of the group or groups with which the program is concerned, and the contributions of that ethnic group to the American heritage." The application deadline will probably be around April 15. Guidelines may be requested on or about March from: Ethnic Heritage Studies, (Attn: Information Officer), Division of International Education, Office of Education, Washington, D.C. 20202.

OFFICE OF COAL RESEARCH — A major reorganization of the Interior Department's Office of Coal Research calls for an increased staff headed by a director, an associate director, and eight assistant directors to supervise an accelerated program for converting coal into clean energy forms, the Secretary of the Interior has announced. The realignment of the Office will streamline the overall internal operations and provide the levels of responsibility necessary for launching a massive effort to move coal conversion technology from pilot plant to the demonstration plant stage. With a current appropriation of $123.4 million, up from $43.5 million in 1973, OCR is funding contracts to provide new capabilities in such areas as coal gasification and liquefaction, improved combustion systems, advanced power generation methods such as magnetohydrodynamics, and systems studies in mining oprations and land reclamation. The Office of Coal Research which recently moved from the main Interior Building, is now located at 21000 M Street, N.W., Washington, D.C. 20037.

NATO RESEARCH GRANTS PROGRAM — The purpose of the NATO Research Grants Program is to stimulate scientific research carried out in collaboration between scientists in the member countries of the Alliance and thus to contribute to the development of the fundamental sciences in the NATO countries. To this end, financial aid is given to research projects which are carried out as joint efforts between university laboratories or research institutes in different countries. All fields of science are eligible for support with emphasis on fundamental aspects rather than applications. Salaries are not normally covered by a NATO grant. In the event that specialized technical assistance is needed for a specific project, salaries of technicians may be covered. If the collaboration involves an exchange of investigators between the participating laboratories, travel and living expenses with this exchange may be requested. The cost of special components and expendable materials can be met by the grant. Applications should be submitted on standard forms available from the Scientific Affairs Division. Applications are considered by a small advisory panel of eminent scientists, nominated by the NATO Science Committee and meet three times a year. The next meeting is April 30.

NATO TRAVEL GRANTS — The National Science Foundation will award international travel grants to about 90 young U.S. scientists to attend 40 NATO Advanced Study Institutes. The Institutes provide highly advanced instruction on specific topics in the physical, life, and social sciences, and engineering and mathematics. The institutes normally last from two to three weeks. NSF travel grants are made only upon nominations by a NATO Institute Director, so interest in the grants should be expressed to the appropriate Director, not to NSF. A list of institutes for the summer of 1974 may be requested from: NATO Travel Grants, Fellowship and Traineeship Section, Division of Higher Education, NSF, Washington, D.C. 20550. Telephone: (202) 282-7595.

CONFERENCE ON LEISURE TIME ACTIVITY OF THE HANDICAPPED — The Office of Education is looking for organizations interested in conducting a conference on research needs related to the use of leisure time activities for handicapped persons. The aim of the conference is to examine the state of the art in the area of leisure time for the handicapped, and what has been accomplished to date in research and demonstrations to determine priorities for needed projects and activities. Interested organizations may receive copies of request for proposal 74-33 from the Department of Health, Education and Welfare, Office of Education, Contracts and Grants Division, School Systems Branch, Room 5914, Regional Office Building 3, 400 Maryland Avenue, S.W., Washington, D.C. 20202, Attention: Lloyd Falgoust.

(For further information on the above programs, call Mrs. Carol McQuary, 882-6311)

Faculty Footnotes

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

Robert Paterson, dean of the College of Administration and Public Affairs, was elected to the Commission on Education for the Business Profession at the annual convention in Denver, Colo.

COLLEGE OF AGRICULTURE

Elmer R. Kiehl, dean, was recently appointed chairman of the Council of Administrative Heads of Agriculture at the association's annual meeting in Denver.

John F. Lasley, professor of animal husbandry, was appointed to the Mattie Wattis Harris Chair of the 11th annual Stockmen's School, held Jan. 7-11 in San Antonio, Texas.

The Stockmen's School is conducted by the Agriservices Foundation and annually appoints distinguished professors to their staff from the U.S. and other nations. Lasley presented a series of lectures on genetics to students attending the 1974 school.

William H. Pfander, professor of animal husbandry, presented two papers, Magnesium and Grass Tetany and Non Protein Nitrogen Sources and Their Utilization, Jan. 14-16 at the Kansas Formula Feed Conference in Manhattan, Kan.

Pfander has also recently been working on a committee of the Council for Agricultural Science and Technology, formulating environmental impact statements for the Food and Drug Administration.

COLLEGE OF ARTS AND SCIENCE

David K. Davies, professor of geology, has accepted a $24,000 award from the National Geographical Institute of Guatemala to study the nature and effects of mudflows and floods in Guatemala.

Brian DeFacio, associate professor of physics, was a guest speaker of the Washington University Physics Department in St. Louis recently.

Donald K. Anderson, professor of English, has been elected regional representative to the MLA Delegate Assembly, 1974-1976.

Leon T. Dickinson, professor of English, has been appointed chairman of the 1974-75 Jay B. Hubbell Award Committee, a function of the American Literature section of the MLA.

Milton Gatch, professor of English, will serve a two-year term as a member-at-large of the MLA English I group. He also served as critic for three papers at an MLA seminar recently.

Gatch lectured on "The Liturgical Uses of the Anglo-Saxon Homilies" at the Center for Medieval Studies, University of Toronto, Feb. 8-9.

Four members of the English Department have received UMC Summer Research Grants for 1974. **Thomas Cooke**, associate professor, will study the comic spirit in Medieval English literature, with emphasis upon the "fabliaux." **Albert J. Devlin**, assistant professor, will examine Eudora Welty's historical method in selected tales, while **Donald Lance**, associate professor and chairman of linguistics, will conduct research on dialect boundaries in Missouri and surrounding states. **Timothy Materer**, associate professor, will concentrate upon the association of Wyndham Lewis with several Vorticist painters.

Mary Lago, lecturer in English, served as chairperson of a seminar on South Asian literature at recent meetings of the Modern Language Association in Chicago.

William Peden, professor of English, attended MLA meetings as a member of the Delegate Assembly and the executive board of Associated Writing Programs.

The Institute of French Studies of the University of Southwestern Louisiana will hold its third symposium of French-American studies during the week of March 4-8. The 1974 topic is "France and North America: Utopias and Utopians." **Richard Bienvenus**, UMC professor will speak on "Utopia?"

S. K. Katti, professor of statistics, presented a paper, "Method of Tested Priors" at the Biomedical Symposium at San Diego, Calif.

William Thompson, professor of statistics, presented a paper, "Reliability of Multiple Component Systems" at the 19th Conference on Design of Experiments in Army Research Development and Testing, Rock Island Arsenal.

Howard Mancing, assistant professor of Spanish, received a fellowship for post-doctoral study at the Southeastern Institute of Medieval and Renaissance Studies at Duke University and the University of North Carolina. Mancing will participate in a seminar directed by Dr. J.B. Avalle-Arce from July 15 to August 24.

James D. McQuigg and Wayne L. Decker, two members of the atmospheric sciences faculty, were invited to speak at the annual meeting of the American Association for the Advancement of Science at San Francisco, Calif., Feb. 24-March 1.

Lawrence Rugulo, chairman and assistant professor of the art department, has a screenprint included in a national competitive art exhibit, "1974: Images on Paper," sponsored by the Springfield (Ill.) Art Association. The exhibit opened on Feb. 9 and extends through March 10 at the Springfield Art Association Gallery.

COLLEGE OF EDUCATION

Peter Hasselriis, associate professor in curriculum and instruction, has been asked to speak at the annual convention of the Ohio Business Teachers Association in Akron. The topic of his speech, shceduled for April 20 will be "Improving Reading in Business Education."

Marilee Howell, assistant professor of physical education, participated in a demonstration workshop to train leaders for programs for individuals with handicaps. The workshop, a special project of the Division of Training Programs, Bureau of Education for the Handicapped of HEW, was recently held in Denver, Colo.

SCHOOL OF JOURNALISM

Five journalism professors will have roles in the Mass Communication seminar this month at the Universidad Iberoamericana in Mexico City. The seminar is sponsored by the International Communication Division of AEJ and the Department of Communication of U.I.A.

Program chairmen for the event are **John C. Merrill** and **Robert Irving**, UMC professors of journalism. **Robert Knight**, associate professor, will serve as a translator, and **Ralph Lowenstein**, professor, will participate in a panel program. **Dale Gaston**, assistant professor, will be group chairman for an advertising session and Irving will be a guide for a tour of the U.I.A. broadcast facilities, where he was formerly on the faculty.

SCHOOL OF MEDICINE

Alexander Kenny, professor biochemistry and investigator, Dalton Research Center, has been appointed to the Committee on Education and Professional Affairs of the American Society for Pharmacology and Experimental Therapeutics for a three-year term, which begins July 1.

Leonard R. Forte, assistant professor of pharmacology, received a faculty development award from the Pharmaceutical Manufacturers Association Foundation. The award provides salary and fringe benefit support for two years, beginning July 1.

Hugh E. Stephenson, Jr., professor of surgery, delivered the Edwin C. Ernst memorial lecture for the American Cancer Society Feb. 26 at the St. Louis Medical Society.

RESERVE OFFICERS' TRAINING CORPS

Two members of the Air Force ROTC cadre received medals in ceremonies at Crowder Hall Feb. 25. **Col. Robert Q. Williams**, professor of aerospace studies, received the Meritorious Service Medal for his performance of duties while assigned to Headquarters, Strategic Air Command, Omaha, Neb.

Also honored was **SSgt. Leonard Vasquez**, administrative noncommissioned officer of the UMC Air Force ROTC unit. Sgt. Vasquez was awarded the Joint Service Commendation Medal for his meritorious service while serving with the Fourth Allied Tactical Air Force, Ramstein Air Base, Germany.

The Published Faculty

COLLEGE OF AGRICULTURE

Melvin Blase and Elam Stauffer are joint authors of an article, "Institutional Disequilibria in the Development Process," which appeared in Vol. 22, No. 2 of the January "Economic Development and Cultural Change."

COLLEGE OF ARTS AND SCIENCES

Howard Fulweiler, professor of English, has contributed a chapter on "The Oxford Movement" to "Victorian Prose: A Guide To Research," edited by David De Laura. Fulweiler recently returned from sabbatical leave. During his sabbatical leave, he spent several weeks in England, researching at the British Museum and the Tennyson Research Center at Lincoln.

Michael Greene, assistant professor of English, recently published an essay on Rossetti, "The Severed Self: The Dramatic Impulse in "The House of Life." The essay, which appeared in the "Ball State University Forum," also appeared in the winter number of the "Georgia Review."

Mary Lago, lecturer in English, has published an essay in the January 1974 number of "Encounter," entitled "Restoring Rabindranath Tagore."

S. K. Katti, professor of statistics, has written "Exact Distribution of Chi-Square Test in One-Way Table," for the publication, "Communications in Statistics."

Richard Madsen, assistant professor of statistics, is the author of "Ergodic behavior of Nonnegative Kernels", an article which appeared in "Annals of Probability."

Vern G. Williamsen, associate professor of Spanish, is the author of a book, written entirely in Spanish, published in the series Estudios de Hispanofila by the Castalia publishing house of Madrid. It includes the play, "La casa del tahur" (The House of the Gambler), which appears for the first time in print.

Richard S. Kirkendall, former UMC history professor, has edited a book, "The Truman Period as a Research Field: A Reappraisal, 1972." The volume, published by the University of Missouri Press, includes current thinking and debate on issues such as the origin of the Cold War, Truman's handling of civil rights, and his Korean decision.

SCHOOL OF MEDICINE

Randall Wood, biochemist in the departments of medicine and biochemistry, is the editor of a book, "Tumor Lipids: Biochemistry and Metabolism." Also recently published was Wood's article, "Lipids of Cultured Hepatoma Cells: I. Effect of Serum Lipid Levels on Cell and Media Lipids." It appeared in "Lipids 8:690-701, 1973."

John Falch and Randall Wood jointly authored, "Lipids of Cultured Hepatoma Cells: II. Effect of Media Lipids on Cellular Phospholipids," which appeared in "Lipids 8:702-710, 1973."

UNIVERSITY PRESS

"Tickets for a Prayer Wheel" by Annie Dillard has been published by the University of Missouri Press. The book is the third of the 1973-74 issues of Breakthrough Books, designed by the Press to present new forms in poetry, short fiction, and drama.

The University of Missouri Press recently published "Labor's Search for Political Order: The Political Behavior of the Missouri Labor Movement, 1890-1940," by Gary Fink. Fink received his M.A. from the University of Missouri in 1964 and his Ph.D. here in 1968.

SCHOOL OF VETERINARY MEDICINE

George G. Doering and **Harlan Jensen**, associate professors of veterinary medicine and surgery, are co-authors of "Clinical Dermatology of Small Animals: A Stereoscopic Presentation." The book includes many treatment methods which Doering developed and stereo photography by Jensen.

Faculty BULLETIN

Vol. 9, No. 7 — March 6, 1974

This Issue

	Page
Faculty Council Minutes	6
Graduate School and Research Notes	7
Faculty Footnotes	7
Published Faculty	7
Calendar	Back Page

Calendar of Events

To March 30: Housing and Interior Design exhibit, works of alumni, 8 a.m. to 5 p.m. Monday through Friday in Stanley Hall Gallery.

March 4-8: Missouri State Highway Department Supervisory Management Seminar. Memorial Union.

March 6: Nutrition Emphasis Week: Dr. Charlotte Young, "The Unsolved Problems of the Obesities," 3:40 p.m. Medical Center Auditorium.

March 6: Lecture: Daniel Ellsberg, 8 p.m., Hearnes Auditorium, Free.

March 6: Symposium on The Chemical Bases of Behavior: Howard Berg, University of Colorado, "Chemotaxis in E. Coli," 3:40 p.m., Memorial Union Auditorium.

March 6: Seminar: Prof. Anton Novacky, Plant Pathology, "Prospectives of Electrophysiology in Plant Pathology," 4 p.m., 2-10 Agriculture.

March 6-7: Junior College Transition Conference. Hearnes.

March 6: Recital: Barbara Mishaly, piano, 8:15 p.m., Recital Hall.

March 7: Concert Band Concert, 8:15 p.m., Jesse Hall.

March 7: Recital: Voice Students of Robert Collett, 8:15 p.m., Recital Hall.

March 7: Anthony W. Norman, department of biochemistry, University of California at Riverside, will speak on "Hormonal Action of the Vitamin D Metabolite 1,25-Dihydroxycholecalciferol," 4 p.m. Dalton Research Center Room 133. Open to faculty, staff and students.

March 7: Lecture: Dr. Lester J. Reed, director of the Clayton Foundation Biochemical Institute and professor of chemistry, University of Texas-Austin, 12:40 p.m., 105 GCB, "The Multienzyme Pyruvate and x-Ketoglutarate Dehydrogenase Complexes: Structure, Function and Regulation."

March 7-8: Meier Ben Koil representative of the Institute for Scientific Information, "Uses of the Science Citation Index." 9:40 a.m., 2:40 p.m., March 7, 4G41 Ellis Library, 3:30 p.m., March 8, M253 Medical Sciences. Open to all students and faculty. In addition, he will speak to graduate students in Library Science at 9:40 and 11:40 a.m., March 8 in Stewart Hall.

March 7-8: Conference on "Collective Choice," joint economic and political science conference, sponsored by Graduate School. 10 a.m., Union S8, Gordon Tullock, professor of economics at Virginia Polytechnical, "Does Punishment Deter." 2 p.m., Union S8, William Rider, Wilson Professor of Political Science and department chairman, University of Rochester, "The Number of Parties."

March 9: Spring Recess begins, 12:30 p.m.

March 14: Lecture presented by the University Affiliated Facilities Program for the Developmentally Disabled: Dr. George M. Tarjan, director of UCLA's Neuropsychiatric Institute, "Mental Retardation—10 Years Hence," 12:30 n.m., Memorial Union auditorium.

March 14: 21st Annual Missouri Turkey Day. Ramada Inn.

March 14-16: American Association of Laboratory Animal Sciences Annual Meeting. Columbia Inn.

March 15-16: Track Meet: Second Annual National Junior College Track Meet, Hearnes fieldhouse. Free.

March 16: Lawrence Welk concert, 8 p.m. Hearnes. Tickets ($7, $6, $5, $4) at the Hearnes Box Office. Mail orders to Lawrence Welk Show, P.O. Box F, Columbia.

March 18: 19th Annual Egg Dav. Ramada Inn.

March 18-April 5: UMC Annual Faculty Exhibition. Fine Arts Gallery.

March 18: Spring Recess ends, 7:40 a.m.

March 18-19: Pre-retirement Planning Program for faculty, staff and spouses, 6 p.m., Memorial Union. Those eligible will be contacted by Personnel.

March 12-22: College of Administration and Public Affairs Week.

March 19: Faculty Recital: Dr. Edward R. Thaden, piano, 8:15 p.m., Recital Hall.

March 19: UMC Revival Series, "The Spider's Strategem," 7:30 p.m., Middlebush. Free.

March 20: Symposium on the Chemical Bases of Behavior: J. T. Bonner, Princeton University, "Chemical Signals in Development," 3:40 p.m., Memorial Union Auditorium.

March 23;23: UMC Film Series, "Such a Gorgeous Kid like Me," 7, 9 p.m., Middlebush, 75 cents.

March 22-23: Home Economics Alumni and Friends Day Weekend.

March 23: Friends of the University of Missouri library and the State Historical Society Day.

March 23: Seals and Croft Concert, 8 p.m., Hearnes Auditorium. Tickets, $5, $4, $3.

Blood Drive Set

A campus blood drive is being planned for March 20, according to Lewis Stoerker, associate professor of speech and dramatic art and chairman of the drive.

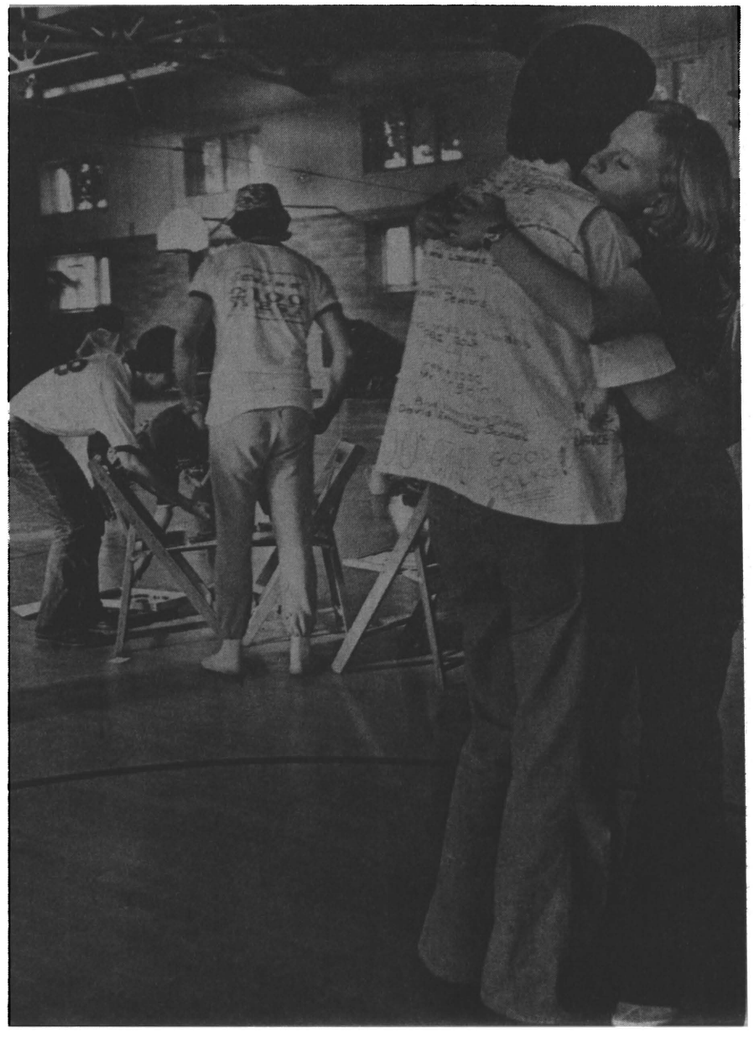
The drive, one of two to be held this year during the 25th anniversary of the Red Cross Blood Program, is scheduled for noon to 5:15 p.m. in the Trophy Room of Brewer Field House.

Aimed at faculty and staff, the drive is actually open to almost anyone interested in participating. Donors must be between 17 and 66 years old, weigh more than 110 and meet certain health standards.

Stoerker is interested in boosting the number of donors at UMC. He points out that approximately 8,000 faculty and staff members would be eligible to give blood, but a year ago only 223 pints were donated. Last November the total was even less — 100 pints.

In an attempt to stir interest in the blood drive, Stoerker is planning a campaign with letters and posters following the theme, "Everybody has one life. Keep it going. Be a blood donor."

In addition to personal satisfaction, Stoerker said there is another benefit of giving blood. Under the Red Cross Family Protection Plan, if a person donates a unit of blood, he is guaranteed all blood and blood products which he and his family may require for a year from the date of donation.



YOU GOTTA REALLY HANG ON AFTER 22 HOURS OF DANCING . . . 18-year-old Melvin Toellner of Bunceton and 19-year-old Karen Diekamp of St. Charles did just that and raised $1,010 for contribution to multiple sclerosis at a charity dance marathon sponsored by the UMC inter-fraternity and panhellenic councils at Rothwell Gymnasium.

Eighteen couples obtained sponsors to pay for each hour of dancing, but some spent the time playing Monopoly as those in the background here are doing.

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 8 April 3, 1974

Luverne Walton Wins Faculty Woman Award

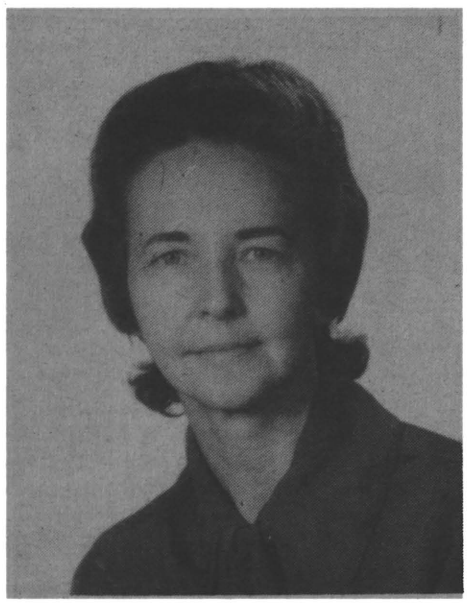
Luverne Walton, chairman of the Chancellor's Committee on the Status of Women, has been cited for her outstanding contribution to the education of women by the UMC Alumnae Anniversary Fund Committee. Dr. Walton is chairman of the department of Germanic and Slavic Languages and associate professor of German.

As recipient of the committee's Alumnae Anniversary Award, she will receive $500 and a citation at a reception on April 25. The reception will be held from 3:30 to 5 p.m. in the Alumni-Faculty Lounge of the Memorial Union.

Alumnae were invited to nominate any UMC faculty woman with the rank of professor, associate or assistant professor. A committee of senior women — two selected from each division by their deans — also made nominations to the Alumnae Anniversary Committee.

The Committee for Recognition of Faculty Women was set up in 1969 with the Development Fund to coincide with the 131st anniversary of the University's founding. Alumnae are asked each year to contribute to a permanent fund from which the annual award is made.

Prof. Walton is a native of Nash, Oklahoma. She received a bachelor of



LUVERNE WALTON

science in education in 1946 from the University of Oklahoma. In 1949 she received a master's degree in student personnel administration from Columbia University.

From 1952 to 1962 she was associate dean of students and assistant professor of education at Southwest Texas State College, San Marcos. In 1962 she moved to Indiana where she was a teaching assistant in German for two years and received a master's in German from Indiana University in 1964. She was an instructor in German at DePauw University from 1964-1965 and she obtained a Ph.D. in German from Indiana University in 1966.

Dr. Walton came to UMC in 1966 as an assistant professor of German. In 1968 she became an associate professor and department chairman, a position she held for a year. In 1972 she again became department chairman.

Her scholarly and professional associations include: Modern Language Association, American Association of Teachers of German, International Arthur Schnitzler Research Association, Delta Phi Alpha, Pi Lambda Theta and the American Association of University Women.

Tap Day Set

Members of four senior honor societies will be recognized at traditional tap day ceremonies at 9:25 a.m. April 17 at the Columns.

New members of Mortar Board, QEBH and Mystical Seven will be introduced, and members of LSV who have served anonymously and without fanfare for a year, will be revealed.

Chancellor Herbert W. Schooling will be the speaker and Dr. James Banning, dean of student affairs, will be master of ceremonies.

Dennis Viehland, president of the Missouri Students Association, will give the traditional two-minute speech of the student president.

Chancellor Schooling has announced that 8:40 classes will be dismissed at 9:15 and 9:40 classes will start at 9:55 to enable the students, faculty and others to attend the ceremonies.

Board of Curators' Highlights

MARCH 29, 1974

+ Approved preliminary plans for veterinary science building and a veterinary diagnostic laboratory on the Columbia campus, with actual construction depending on appropriation of $6 million in capital improvement funds for the project by the General Assembly.

+ Heard a report that the 1974 spring semester enrollment totals 45,517 for the four campuses, an increase of 1,049 students over the 44,468 enrolled for the 1973 spring semester.

+ Approved final remodeling plans for Fulton Hall on the Rolla campus and the old Chemistry-Biology Building on the Kansas City campus.

+ Tentatively approved two master of science degree programs — one in chemistry and the other in physics — for the St. Louis campus. The programs are subject to confirmation in the University Academic Plan, due to reach the Board in May.

+ Approved proposed academic calendars for the Columbia, Kansas City, Rolla and St. Louis campuses for the 1975-76 academic year.

+ Accepted a bid of $107,765 to expand the computer room at the Mathematical Sciences Center in Columbia as another step in centralizing the University's computer system.

+ Approved preliminary plans for a new General Services Building at the St. Louis campus. Actual construction depends on General Assembly appropriations of $2.2 million for the project.

+ Approved employing an architectural firm to design the proposed new administration building on the St. Louis campus, subject to a state appropriation of $2 million for the project.

+ Approved the appointment of Catherine L. Hunt as Board secretary, replacing Mary Robnett who is retiring.

Task Force Recommends 'Open University'

A University of Missouri task force, which studied the "open university" educational concept, has recommended in a preliminary report that an open learning program be established at some future time on the four campuses of the university.

Dr. William B. Bondeson of UMC, who headed the task force, emphasized the preliminary nature of the report, saying that before the university ever entered into such a program there would need to be much additional study and more data gathered.

The task force report was submitted to President Ratchford on Feb. 27, and on March 1 Bondeson gave an oral report on it to the Board of Curators. The report will be considered by President Ratchford and the board for later action.

The idea of the open university is emerging very rapidly all over the nation, Bondeson said. "Open learning is not a fad which will disappear rapidly with the passage of time. Open learning is a significant breakthrough in contemporary higher education theory and practice," he said.

One can conceptualize open learning as a non-traditional approach towards learning. In a preamble to the report the task force says:

"The idea and practice of completing one's education at age 22 and drawing on that intellectual capital for the next 50 years—all the time presuming to be highly educated—is a bankrupt notion. Many factors have combined to alter profoundly the life patterns of millions of Americans: a shorter and more flexible work week, changing work expectations with attending retraining demands, increased life expectancy, boredom, and early retirement are exemplary of the influences motivating many to continue their education. Clearly, universities are facing a new and exciting challenge—to provide non-traditional programs with high academic standards."

To put it more succinctly, an open university program offers standard undergraduate degrees in the most non-traditional way, according to the report. The program has no residency demands and little or no specific degree requirements. A student's degree program is built according to his own requirement. As such, each student's program turns out to be a unique one.

"In an open university the student's needs come first and the institution along with its administrative conveniences second," the report states.

Open learning, the report states, serves those students who are not able, for whatever reasons, to come to a traditional campus at a traditional time for their courses. The students, however, want the benefit of university experience. The open university program allows them to obtain college education in their own times and places, and at their own pace.

An open university does not replace traditional campus-oriented education, and does not in any way minimize the importance of such education, the report says. It only serves the unserved student. Surveys have shown that about two percent of population is likely to join open university programs, given the opportunity.

In short, an open university program aims at the mature and adult population, serves as an alternate to traditional curricula, is accessible to students at their own time and in their own place, and accelerates the learning the student has accrued through his life experience.

The University of Missouri open learning program would grant only undergraduate degrees, the task force's report suggests, and would utilize the traditional semester credit hour system. The program would make available any resources necessary for a student's education. It would use as its learning resources all facilities which exist in Missouri.

The program, it implemented, would contain some aspects of correspondence teaching, some aspects of extension education and some aspects of on-campus education. Tailored to the needs and demands of individual students, the open learning program would maintain rigorous academic standards under able faculty direction.

The report suggests that the open university should be staffed by a corps of regular faculty, and maintain a close affiliation with the research and academic core of the university proper.

Each campus should build its own open learning program and establish its own learning center physically independent of the campus, the report says. It should have usual secretarial support staff and should be able to use all the capabilities of the traditional campus. The basic unit of learning in a center would be a contract equivalent to a semester's full-time study on a regular campus. The contents of a contract can include regular campus-based courses, independent study, internships and special projects. Credit for learning through life experiences may also be allowed. The learning centers, operated by a director under the supervision of the chancellor of the campus, should be coordinated by a university-wide board of directors attached to the office of the vice president for academic affairs.

The open learning program should have a very simple admissions policy, the report says. Any student with a high school education or equivalent should be able to enroll.

As far as cost is concerned, the program at the open university will not be any cheaper than regular campus education, the task force points out, because the open learning program is different from continuing education in the sense that it offers degrees; it also is different from extension education where courses are of much shorter duration.

The task force says in its report that by establishing an open learning program the University can serve a new audience for whom the present campus-based programs are inaccessible. That means a large number of Missourians, the report explains, and as a land-grant institution the University of Missouri has an obligation to serve them.

Members of the task force were: J. Joseph Doerr, UMKC; Oscar R. Eggers, UMKC; Abraham Eisenstark, UMC; A. Glen Haddock, UMR; Lynn W. Martin, university-wide; Jim C. Pogue, UMR; John S. Rigden, UMSL; Huber M. Walsh, UMSL; and Bondeson.

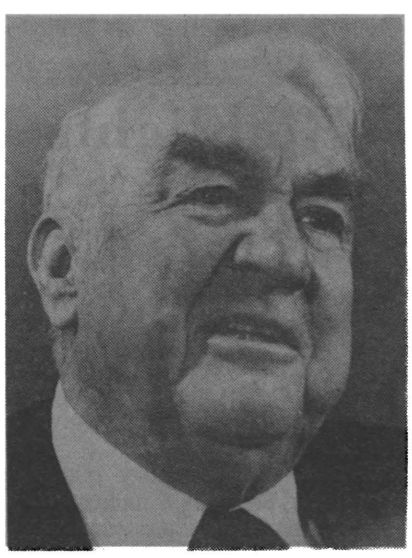
The report of the task force will be considered by the Academic Planning Council as it moves into the next stage of developing a University Academic Plan.

Journalism Week Features Ervin

Sen. Sam J. Ervin Jr., the bible-quoting chairman of the Select Committee on Presidential Campaign Acitvities, will participate in the 65th Annual Journalism Week of the School of Journalism this week.

The senator from North Carolina will address the tradition journalism week banquet on "The Rights and Responsibilities of the Press and the Broadcast Media" at 7:30 p.m., Friday (April 5) in Rothwell Gymnasium.

Ervin is one of seven recipients of Missouri Honor Awards for Distinguished Service in Journalism to be presented at the banquet. As the first non-journalist to receive the award, Ervin was cited for his contributions to the cause of press freedom.



SAM ERVIN

The Missouri Honor Award for Distinguished Service in Journalism will be made posthumously to Fred Freed, executive producer, NBC news documentaries.

John Chancellor, editor of the NBC Nightly News, will accept the award for Freed, who was a close friend and colleague. The 53-year-old Freed died Sunday, March 31. He was to receive the award for ". . the credit he (Freed) has brought to the craft of television news documentarian, as he has provided broadcast journalism with its highest level of accomplishment."

Freed's highly acclaimed documentary, "Pollution Is a Matter of Choice" will be presented at 2:40 p.m., Thursday, April 4, in Jesse Auditorium. Dan Garvey, associate professor of journalism, and Joe Derby, a UMC school of Journalism graduate now director of Information at NBC, will lead a discussion of the film immediately after the showing.

John Chancellor was awarded the Missouri Honor Award in 1972.

The other winners include professor Raymond B. Nixon, emeritus professor of journalism and international communication, University of Minnesota; Richard L. Strout, Washington Correspondent for the Christian Science Monitor; Robert L. Vickery, co-owner and co-publisher of the salem (Mo.) News; The National Observer, Henry Gemmill, editor, accepting and the Sunday Times of London, Henry Brandon, associate editor, accepting.

Tickets for the journalism week banquet, which are $7.50 per person are on sale at the Dean's Office, School of Journalism, 100 Neff Hall.

"The Press at Watergate" will be the topic of a panel discussion Friday afternoon. Members of the panel include: Henry Brandon, associate editor, Sunday Times of London; Henry Gemmill, editor, National Observer; Richard L. Strout, Washington correspondent, the Christian Science Monitor; and Ted Weegar, editor, Los Angeles Times.

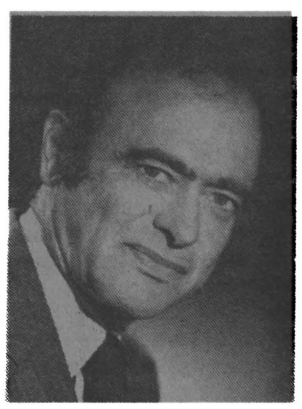
Journalism Week also features sessions each day emphasizing the various types of journalism. Print media, photojournalism, advertising and boradcasting.

Speakers for advertising sessions tomorrow (Thursday, April 4) include: Walter A. Armbruster, senior vice president of D'Arch-MacManus and Masius; Alfred Fleishman, senior partners, Fleishman-Hillard Inc.' public relations counselors, St. Louis; and Howard Bell, president and chief executive officer, American Advertising Federation.

On Friday (April 5), Henry Gemmill, editor of National Observer, will speak on "Reporting in an Alienated Society," and a panel will discuss "The Problems of Covering State Government."

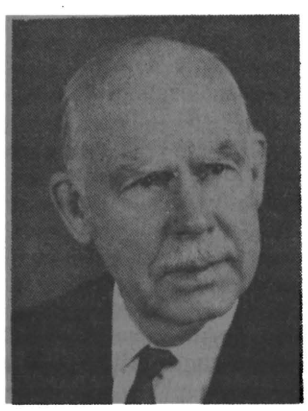
Speakers Tuesday included: Georgie Anne Geyer, Chicago Daily News foreign correspondent; Harvey C. Jacobs, editor, Indianapolis News; Thomas A. Engelhardt, St. Louis Post Dispatch editorial cartoonist; Gloria Emerson, free lance writer, formerly of the New York Times; and George Curry, St. Louis Post Dispatch investigative reporter.

Today's photojournalism sessions featured winners of the Pictures of the Year contest.



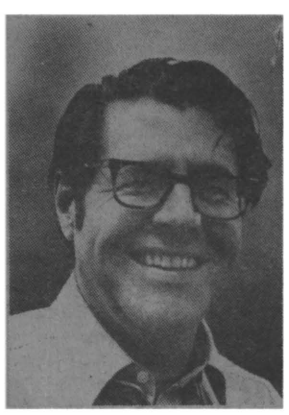
Fred Freed

Raymond Nixon

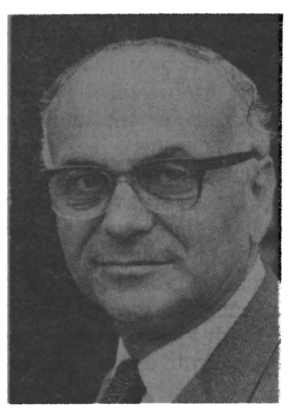


Richard Strout

Robert Vickery



Henry Gemmill



Henry Brandon

The Friends of the Library Day, originally scheduled for March 23, but postponed because of the snow storm, has been rescheduled for April 20 to coincide with the Book Fair. Humorist Bill Vaughan of the Kansas City Star will speak at the dinner at 6 p.m. in the Memorial Union as originally planned.

CAPA Honors Three Alumni

Three alumni of the College of Administration and Public Affairs were honored with citations of merit for professional achievement during CAPA Week, March 18-22. They are:

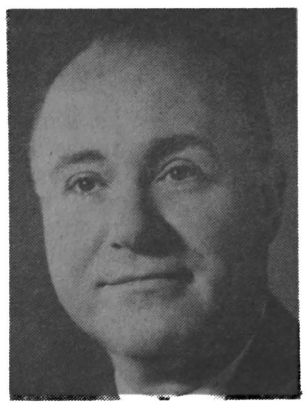
Dr. Karl Bopp, president of the Federal Bank of Philadelphia from 1958 to 1970. Bopp received his third degree from UMC in 1931, then was on the CAPA staff for 10 years. He joined the Federal Bank in 1941.

Darrel Eichhoff, executive vice president of Metropolitan Life Insurance Company since 1971. He joined the company in 1946 after his graduation from UMC. He is vice president of the Columbia College Board of Trustees.

Charles Price II, chairman or president of five Kansas City firms, including Price Candy Company, American Bancorporation, Linwood Securities Co. and the American Bank and Trust Company of Kansas City. He attended UMC from 1948 to 1953.

Charles Price

Karl Bopp



Darrell Eichhoff

Law Day Activities Scheduled April 27

Law day, which brings about one of the largest assemblages of the bench and bar in the state, will take place April 27 at UMC.

Two members of the profession, Judge James H. Meredith of the U. S. District Court of Eastern Missouri, and John Hall Dalton, Kennett attorney and member of the Board of Curators of the University of Missouri, will be among honorees. Judge Meredith will be the honorary initiate of the Order of the Coif, legal honor society, and Dalton will be the initiate of Phi Delta Phi legal fraternity.

A highlight of the affair will be a picnic luncheon on the lawn outside of Tate Hall to which 700 to 800 attorneys and their friends have been invited. The affair will be moved to Rothwell Gymnasium in case of inclement weather.

Activities open a night before, April 26, when the annual alumni dinner will be held at 6:30 p.m. at the City-County Building, formerly the Daniel Boone Hotel. The dinner prides itself on the fact that no one is permitted to give a speech.

Activities open early the next day with the Phi Alpha Delta breakfast for members, alumni, faculty and guests at Memorial Union. It will be followed by meetings of the Law Alumni Association at the Tate Hall Courtroom, the Law School Foundation trustees session in the conference room of Tate Hall, and the Order of the Coif initiation ceremonies in the courtroom. A dozen or so students, selected on the basis of their scholastic attainments, will be initiated along with Judge Meredith.

The picnic luncheon will be followed by the Junior Case Club finals that will be judged by Circuit Judge Flake McHaney, Ron Somerville of the Kansas City Court of Appeals, and Alden A. Stockard of the Missouri Supreme Court.

Phi Delta Phi's initiation of Dalton, to take place at the Tiger Hotel, is scheduled after moot court activities.

The annual Edna Nelson memorial dinner will be served at 6:30 p.m. that evening at Memorial Union, an affair to which trustees of the Foundation, first-year law students, and members of the Law Review will be special guests. The dinner is open to all faculty and students. Numerous awards won by students during the school year will be presented at the dinner, but no formal speech is scheduled.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 114 Jesse, or to the Office of Public information, 223 Jesse, 882-6211.

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Education Day Set; Selden to Speak

David Selden, president of the American Federation of Teachers, will speak during the College of Education's "Education Day" Monday, April 8.

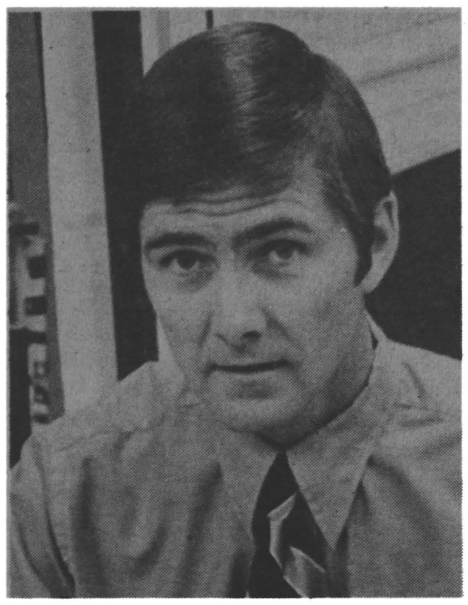
Seldon will discuss "The Teacher's Role in Decision Making" at 7 p.m. in the Memorial Union Auditorium. Theme of Education Day is "Education: Gateway to Opportunity."

Dr. Bob Randelman, University of Minnesota consultant for National Action Consultants, will speak on "Humanistic Education" at 7 p.m., Tuesday, April 9 in General Classroom Building room 210.

Both speeches are free and open to the public.

Winners of the "Most Influential Teacher" awards, academic excellence awards and outstanding service awards will be honored at the annual Education Day luncheon 12 noon, Tuesday, April 9 in the Memorial Union room N201-202. Tickets for the luncheon, which costs $3 per person, will be available at 102 Hill Hall.

Dr. Thomas Freeman, UMC professor of geology and Ms. Barbara Russek, French instructor, Tucson, Ariz., will receive citations for the "Most Influential Teacher" awards. Each year, the two graduating seniors with the highest academic averages select the teachers to be honored. Freeman was chosen by William Pierce of Richmond Heights and Ms. Russek was selected by Phyllis Bidnick of St. Louis.



THOMAS FREEMAN

Department and organizational exhibits featuring their activities will be displayed in the Laboratory School Gymnasium from 1-4 p.m., Monday, April 8.

'Buy-A-Professor' Auction Set for April 10

The sixth annual "Buy-A-Professor" auction will begin at 8 a.m., Wednesday, April 10 on the west lawn of the Elmer Ellis library.

The auction is sponsored by the national service fraternity, Alpha Phi Omega, to raise money for a student loan fund. Five students made use of the fund in the 1973-74 academic year.

The auction will feature the "sale" of 20 UMC faculty members and over 25 items donated by celebrities which include a pencil with Ann Landers' teethmarks and an autographed manuscript page from George Plimpton's latest book.

Sealed bids for the celebrity items, which will be displayed in the South wing of the Memorial Union, may be sent to Jerry Morbertern, 176A Baker Park Hall.

Faculty members who will be put on the "auction block" include football coach Al Onofrio, Capt. H. M. Lamb, professor of naval science and Dr. Fred McKinney, professor of psychology. Each "slave" will be required to give the "owners" two hours of his time to perform any task required.

Futurists Plan Seminar

The future holds a certain mystique for some people — others are trying to forecast the future because they believe that by doing so, man can control at least part of his destiny.

Particularly interested in the future and what it holds are certain members of the faculty and staff of the department of regional and community affairs and the extension division.

Several of them are members of the World Future Society. Along with others from colleges and universities in the mid-Missouri area, they are attempting to organize a local chapter which will be open to businessmen as well as those from the academic community.

As part of the effort, a seminar and speech are planned for April 11 in Columbia. Earl C. Joseph, staff scientist at Sperry Univac in St. Paul, Minn. and a visiting lecturer at the University of Minnesota and futurist-in-residence at the Minneapolis Museum, will be the main speaker. "Futurology" will be his topic.

The seminar, which is open to faculty, staff and students of seven institutions in the Mid-Missouri area, will be held from 10 a.m. to noon in S203 of the Memorial Union. It is sponsored by the department of regional and community affairs.

Joseph will speak again at 7:30 p.m. in Windsor Auditorium at Stephens College. Among the topics to be considered will be the methods of forecasting, what's coming up in the future, the implications of the future, the importance of doing research, and the development of more reliable methods of forecasting.

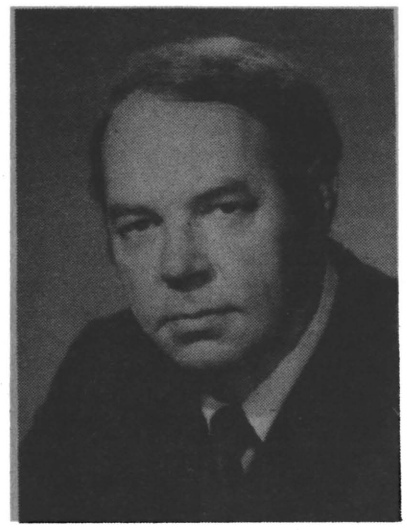
Paul Lutz, area community development specialist for the University of Missouri extension division, is temporary chairman of the local chapter of the World Future Society. Members of the faculty of the department of regional and community affairs who are actively involved are: Hugh Denney, W. E. Robertson, Jack Timmons, Harry Naylor and Boyd Faulkner. Others from the extension division who are promoting the organization are: John Sutherland, Tom Hill, Ralph Utermoehlen and Jim Drexler.

Johns Hopkins Vice President To Receive Medical Alum Award

Dr. Robert Morris Heyssel, executive vice president and director of The Johns Hopkins Hospital in Baltimore and president of Columbia (Md.) Hospital and Clinics Foundation, has been selected to receive the 18th annual Citation of Merit awarded to an outstanding alumnus of the UMC School of Medicine.

The award will be presented to him during the annual session of the Missouri State Medical Association in Kansas City April 5.

Dr. Heyssel received his B. S. in Medicine degree from UMC in 1951. After completing his basic medical science education at Missouri's two-year medical school, Dr. Heyssel completed his clinical training and received his M. D. degree from St. Louis University in 1953.



ROBERT HEYSSEL

UMC Institutes Four-Week Summer Sessions

Summer school will be different at UMC this year.

Take enrollment, for instance. Some students will report for registration and orientation on June 10 and remain for the eight-week session that ends Aug. 2. Others will report on the same day and register for a four-week session that ends July 5; still others won't report until July 8 for a four-week session that extends until Aug. 2.

In the meanwhile, traditional courses in all 15 divisions of UMC will be offered; innovative courses that probably will find their way into the regular curriculum will be introduced; even some experimental courses will be tried out.

In other words, a new concept in a summer program will be inaugurated. The national trend has been to package summer sessions in "modules" to allow various students to meet needs in the time they have available.

Dr. Larry D. Clark, year-round director of the UMC summer session, said that the three-part UMC program isn't as much a break from tradition as in some other schools. Indiana, for instance, has two summer sessions that have five options within the two sessions.

UMC, in addition, will have some modules offered through the University Extension Service, which it has conducted in the past.

The four-week sessions will mean two hour class meetings per day, some in continuous sessions and others requiring class attendance one hour in the morning and one hour in the afternoon.

Clark said that other schools with similar programs have experienced doubled enrollment. That is a factor in UMC's adopting the program to obtain greater use of facilities which have been taxed to capacity only about nine months of the year.

The year-round appointment Clark holds is in itself an innovation. He has been attending professional and academic sessions throughout the school year to gain ideas and programs for summer studies. The new summer calendar, however, isn't a surprise to faculty or students. It was recommended two years ago by the calendar committee to become effective this year.

"The 1974 summer session will consist of undergraduate and graduate studies," Clark said. "Approximately 800 courses are organized for credit and, in addition, there are many opportunities for research and individual study.

"In addition to regular courses leading to degrees, the Summer Session will include many special features which have been planned particularly for summer students."

He cited among innovative courses those in psychology's "Learning Theory: New Frontiers Beyond the Laboratory" which will have four distinguished psychologists sharing lectures for a week; genetics' "Basic Human Genetics" featuring a distinguished visiting lecturer each week; speech's "Interdisciplinary Services for the Developmentally Disabled" designed to maximize the potential of the developmentally disabled child or adult; special education's "Teaching the Exceptional Child in the Regular Classroom" which is designed to provide principles and practices for management of the special child in regular classrooms; special education's "Learning Disabilities," a new approach to provide a practical approach to children's learning problems; educational administration's "Topics in the Administration and Organization of Open Education," designed for those interested in implementing new open education programs. Other special offerings are geology's "Man and His Earth", intended for laymen or students interested in greater understanding of the earth and its problems; chemistry's "Introductory Chemistry," offered in an experimental format which emphasizes independent study and laboratory work; marketing's "Internship in State Attorney General's Consumer Protection Office," for a better understanding of state statutes; speech and dramatic art's "Nonverbal Communication," to acquaint students with a broad sample of the literature in nonverbal communication; fine art's "Distinguished Artists Program" which will bring four artists with national reputations to conduct classes for a week; and speech and dramatic art's "Summer Repertory Theatre" which will present its sixth annual student-professional theater company staging "Canterbury Tales," "An Italian Straw Hat" and "Slow Dance on the Killing Ground."

The distinguished artists on the art department program will include Frank Gallo, widely known for his cast epoxy figures, Phillip Pearlstein, New York painter, and Paul Rand, whose work in graphic design has won recognition the world over for 25 years. A fourth artist is yet to be selected.

Meanwhile, the College of Education will conduct several two- and three-week institutes and workshops; the College of Enginering will offer field training in environmental sanitation and three summer programs introducing high school students to engineering and computer programming; the English department will sponsor a two-week short course for secondary school teachers; the College of Home Economics will offer special courses in operations analysis in food systems, recent trends in textiles, and a seminar in housing and interior design; the School of Journalism will conduct two special workshops for Interscholastic Press Association and Scholastic Publications; and the department of regional and community affairs will offer a two-week workshop for professionals and its 10th annual international community development seminar.

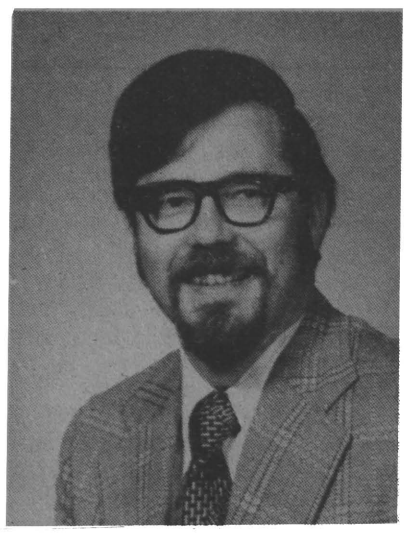
New Faculty Members Appointed

Two Iowa State University professors have been appointed to positions on the faculty of the UMC School of Veterinary Medicine. **Dr. Gary Van Gelder** has been named professor and chairman of the newly-formed department of veterinary anatomy-physiology at UMC and **Dr. Gary Osweiler** had been appointed associate professor in the same department.

Van Gelder assumed his new duties April 1; Osweiler's starting date is indefinite.

Dr. Van Gelder was professor of veterinary pathology in the departments of veterinary diagnostic laboratories and biomedical engineering at Iowa State University. He had been there since 1965 when he began as a research associate receiving his D.V.M. He also received an M.S. in 1967 with a major in physiology and a minor in biomedical engineering and a Ph.D. in 1969 with a major in physiology and minors in toxicology and biomedical engineering from Iowa State University.

He was the senior investigator in the Behavioral Toxicology Laboratory and had been involved primarily in teaching and research in the toxicology area. As



GARY VAN GELDER

an assistant professor he supervised behavioral toxicology experiments with sheep. He had also been involved in research on the biological effects of insecticides and the behavioral and neurological effects of lead.

Van Gelder's most recent research has been on the behavioral and neurophysiological effects of pesticides in sheep and monkeys. Because of his background in biomedical engineering, he has also worked on projects dealing with the use of computers in research. He was responsible for coordinating the research efforts in the behavioral, biomedical engineering and toxicology areas.

Dr. Osweiler is associate professor of veterinary pathology at Iowa State University. He received a D.V.M. in 1966, an M.S. in 1968, and a Ph.D. in 1973 from ISU. He joined the staff of the Iowa Veterinary Diagnostic Laboratory in 1966. In 1967 he joined the ISU Small Animal Clinic in the area of internal medicine and clinical toxicology and in 1968 he became a member of the ISU Field Services in large animal medicine and toxicology. He was named to his present position in 1969.

His responsibilities in Missouri will be primarily in toxicology. He will cross departmental lines to work with all the faculty on toxicologic problems and will assist veterinarians throughout the state through the Diagnostic Laboratory of the School of Veterinary Medicine.

Dr. Robert Corwin has been appointed as an associate professor of veterinary microbiology at UMC effective July 1. He is presently on the staff of the department of microbiology and public health at Michigan State University. He also taught at St. Ambrose College, Davenport, Iowa.

Dr. Corwin received a B.A. from St. Ambrose College, a M.S. and Ph.D. from the University of Georgia and a D.V.M. from Michigan State University.

★ ★ ★

Dr. Claude K. Leeper, a graduate of the University of Missouri's two-year medical school in 1944 and a former member of the faculty here, returned to UMC on March 1 as professor of pathology. He received his M.D. degree at Washington University of St. Louis.

Since leaving his teaching post in the School of Medicine in September 1958, Dr. Leeper has been with the Armed Forces Institute of Pathology in Washington, chief of laboratory services at the USAF Hospital in Wiesbaden, Germany, and most recently, vice commander of the USAF Medical Center at Lackland Air Force Base in San Antonio, Tex.

Left to right: Overack, Hart, Grebe, Rogers and Winnacker.

Medical Professors Win 'Golden Apples'

In recognition of excellence in teaching, four Medical Center professors and a member of the resident housestaff were honored Mar. 5 at the School of Medicine's spring honors convocation.

Golden Apple awards went to Dr. Daniel Overack in the department of anatomy, selected by the first-year students; Drs. Wallace Rogers and Michael Hart, pathologists, chosen by the second-year students; and Dr. John L. Winnacker, endocrinologist in the department of medicine, voted by third- and fourth-year students as the outstanding clinical teacher.

Dr. Terry Grebe, a first-year resident in the department of obstetrics and gynecology, was selected as the outstanding housestaff teacher.

Dr. Ford Keitzer, associate professor of surgery, was elected to AOA.

Speaker for the program, an event that honored Professor Emeritus M. D. Overholser, former chairman of the department of anatomy in the School of Medicine, was Dr. George Engle, professor of medicine and psychiatry at the University of Rochester, N. Y., who had been a visiting professor at the Medical Center during the week.

UMC Staffers Assist Mississippi College

Anyone who knows much about college football knows about Alcorn A & M. It's the school that plays Grambling every year, and the winner is usually declared the best black football team in the country.

But how many people can tell you where Alcorn is, what its students are like, and what the school is doing to educate them?

Four UMC staff members have learned much about the predominantly black land grant college because of a program of cooperation between the two schools in which a proposed educational FM radio station is the focal point.

Dr. Douglass Tate, director of faculty development for UMC, is the prime mover in his school's involvement. As a member of a "Cluster Group" assisting Alcorn A & M in many ways, Tate saw the opportunity to draw upon special abilities of UMC staff members.

Situated in the moss-draped forests of southwestern Mississippi, Alcorn A & M exists in a near vacuum so far as educational broadcasting is concerned. The nearest educational radio station is in New Orleans — nearly 150 miles away.

The need for educational radio programming exists, and Alcorn president Dr. Walter Washington feels that his staff has the knowledge and understanding of the region to do the job.

The problem is that no one on the administrative staff or the faculty at Alcorn has experience and technical knowledge in broadcasting. For that reason, Tate called upon Tom Gray, assistant business officer for UMC and KBIA chief engineer Roger Karwoski for advice. Both agreed to join the Cluster Group meeting at Alcorn in early March. They consulted with school officials about Federal Communications Commission (FCC) licensing procedures, HEW funding regulations, probable costs and technical problems. Also joining the UMC delegation was Al Anderson, assistant director of the Office of Public Information. His job was to consult with Alcorn's public information staff.

Before the UMC quartet left Alcorn, some "ballpark" cost estimates had been drawn, transmitter sites recommended, and the groundwork for an FCC application had been laid.

The first big task facing Alcorn president Washington, however, is to convince the Mississippi Board of Trustees of the merits of an Alcorn FM station. The board, incidentally, sets policy for all of Mississippi's four-year state supported colleges and universities.

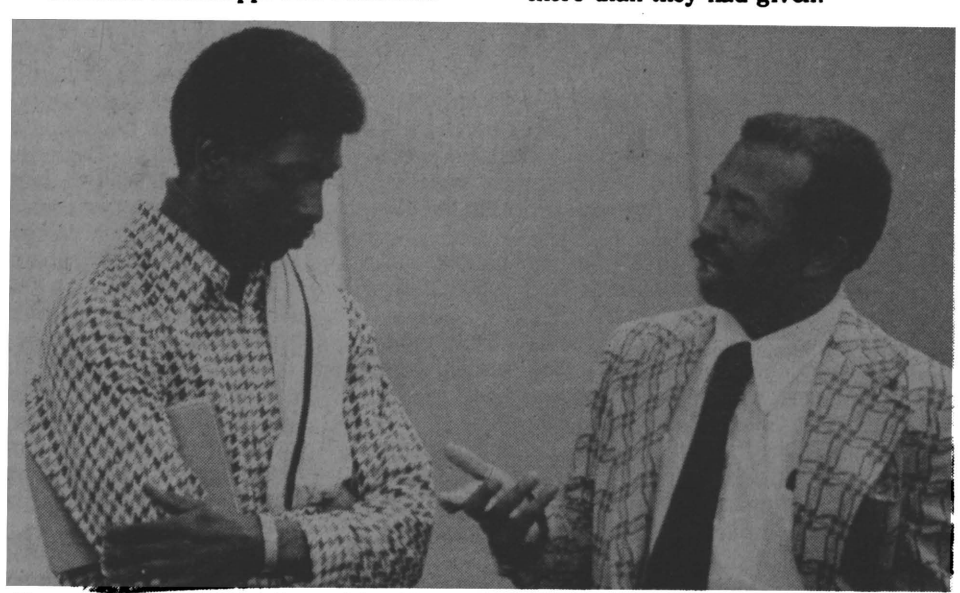
If you are still wondering where Alcorn is — it's just a few miles from Lorman (pop. —less than 50). The nearest city is Natchez — 30 miles distant.

Established in 1830 as a private college, Alcorn assumed its present name in 1871. In 1878, the Mississippi legislature, under the Morrill Land Grant Act, declared Alcorn "an agricultural college for the education of the Negro youth of the state."

Its remote location was dictated by the segregation of the times; the school had to be far from white population centers.

Now enrolling 2,500 students, Alcorn offers coursework ranging from fine arts to animal science. The faculty is mostly black. The student body is drawn mainly from low income black families residing in the cotton and peanut country of southern Mississippi and Louisiana — most of whom could be reached by the proposed maximum power FM station.

Much more could be said about the college and the visit by the Missourians who marvelled at the beauty of the flowering hilly land along the Mississippi River, the stateliness of the plantation mansions, and the polite friendliness of the students at Alcorn. The dedication of Alcorn faculty and staff members — many of whom live in mobile homes on the campus — impressed the visitors, too. They left with a feeling that they had received more than they had given.



Douglass Tate consults with Alcorn student interested in attending UMC graduate school.

Students Participate In Affirmative Action

Approximately 800-1,000 minority students from Kansas City and St. Louis high schools are attending one-day sessions of the Student Affirmative Action Program at UMC through April 30.

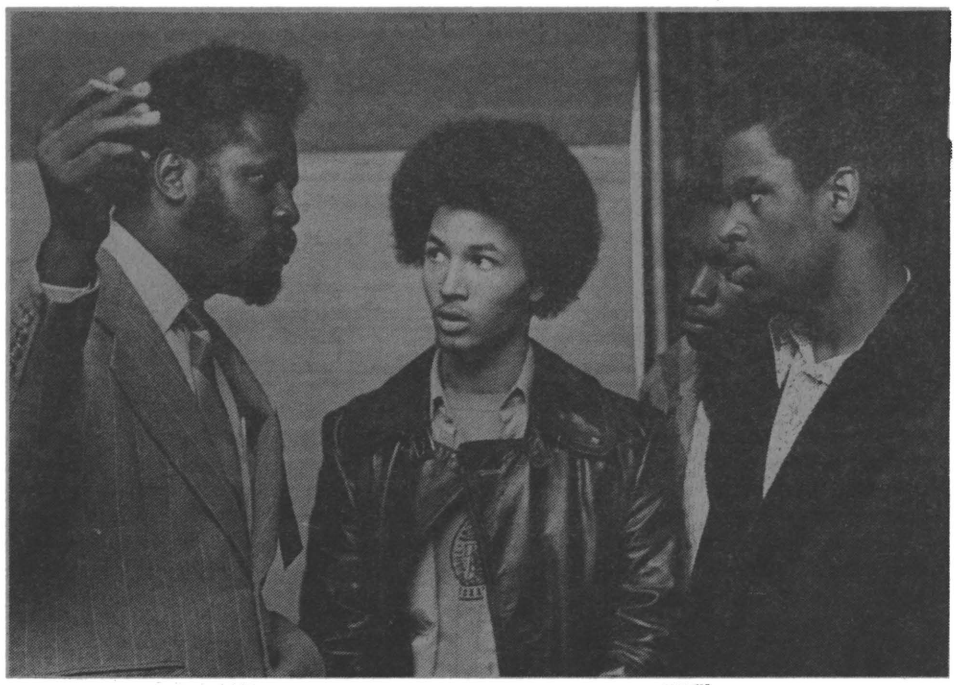
Students participating in the program, which is sponsored by the UMC Office of Minority Students, will have the opportunity to meet informally with faculty and administrators and members of the executive board of the Legion of Black Collegians, as well as receive academic information on various schools and colleges.

Clarence B. Wine, coordinator, Office of Minority Students, said the program was initiated because of ". . . a basic concern about the lack of minority students here on campus.

"The program is designed to make an assertive effort to acquaint high school counselors, students and their parents with opportunities available here at UMC," Wine said. "Because of past history there still is some apprehension on the part of many minority students."

Wine said that the main objective of the program is to serve as a motivational factor in interesting minority students in higher education.

Participating high schools include Sumner, Beaumont, Central and Northwest in St. Louis and West, Lillis, Central, Southeast and Manual in Kansas City.



Clarence B. Wine (left), coordinator, Office of Minority Students, talks about educational opportunities with George Hedgeman, Cary Flenoy, and Michael A. Bell of St. Louis.

Law Graduate Hopes to Promote Justice

Not many college graduates turn down dollars and cents jobs, but Ollie Robert Mack Jr., did. The jobs that he was offered were "not self-fulfilling, not what I was after," he explained. His main goal is to promote justice.

The recent UMC law school graduate is awaiting results of the bar examinations he completed last month. He is working as a clerk with the law firm of Granville Collins and Anne Fleming, who have offices in Columbia and Fulton. He plans to become a partner in the firm after he receives the results of the bar tests.

To the best of his knowledge he will be the only black attorney in the general practice of law in Missouri outside the metropolitan areas.

Mack finds it hard to pinpoint when he made the decision to become a lawyer. It hadn't entered his mind when he was graduated from Ritenour High School in Overland, Mo., and accepted an athletic scholarship to Millikin University at Decatur, Ill.

He competed in football, basketball and track at Millikin. He was conference 440-yard dash champion for two years; won the most valuable team award in all four years he competed in sprints and jumps as a track man; was athlete of the year in 1971. His athletic activities diminished at UMC. But he plays in the city basketball league and tries to stay in shape.

While he was an undergraduate he worked as a member of the Decatur Chamber of Commerce and as a part-time and full-time employe of the Decatur park and recreation department and the Decatur housing authority. During that period he said he saw a need for black lawyers. He decided that was what he wanted to do with his life. He initially planned to return to Decatur to establish his practice.

"I had to undergo a big adjustment during my first year of law school at UMC," he said. "I had to quit thinking like an undergraduate and start thinking like a lawyer. I also had to adjust some preconceived ideas about the adversary legal system."

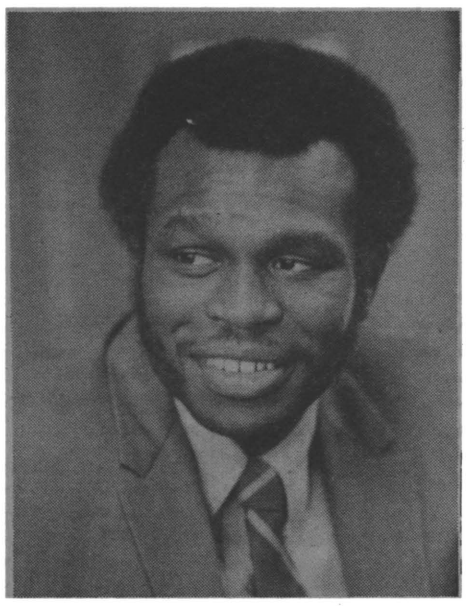
But adjust he did. He pleasurably surprised himself with the quality of grades he earned during his law school career. It was while serving with a student legal aid group that he began to realize that he was not interested in getting out of school just to make money.

He met his prospective law partners while they worked as legal opponents on a case. He had occasion to talk with them about the law and about life in general and found their philosophies of the legal system were much the same as his.

"I was extremely pleased to be asked to join them," he said.

Being a lawyer and being black, Mack was quite sought after by employers. He had offers from other lawyers, corporations, universities and government agencies.

"Basically I am defense oriented and justice oriented, as are Granville and Anne," he continued. "I think society is well protected by the legal machinery it has set up. Prosecutors and police know the law. But the man on the street doesn't know the law and needs assistance."



OLLIE MACK

Mack said he didn't particularly want to practice in a big city. He liked the size of Columbia. He liked the people and town in general. That helped him to make the decision not to return to Decatur.

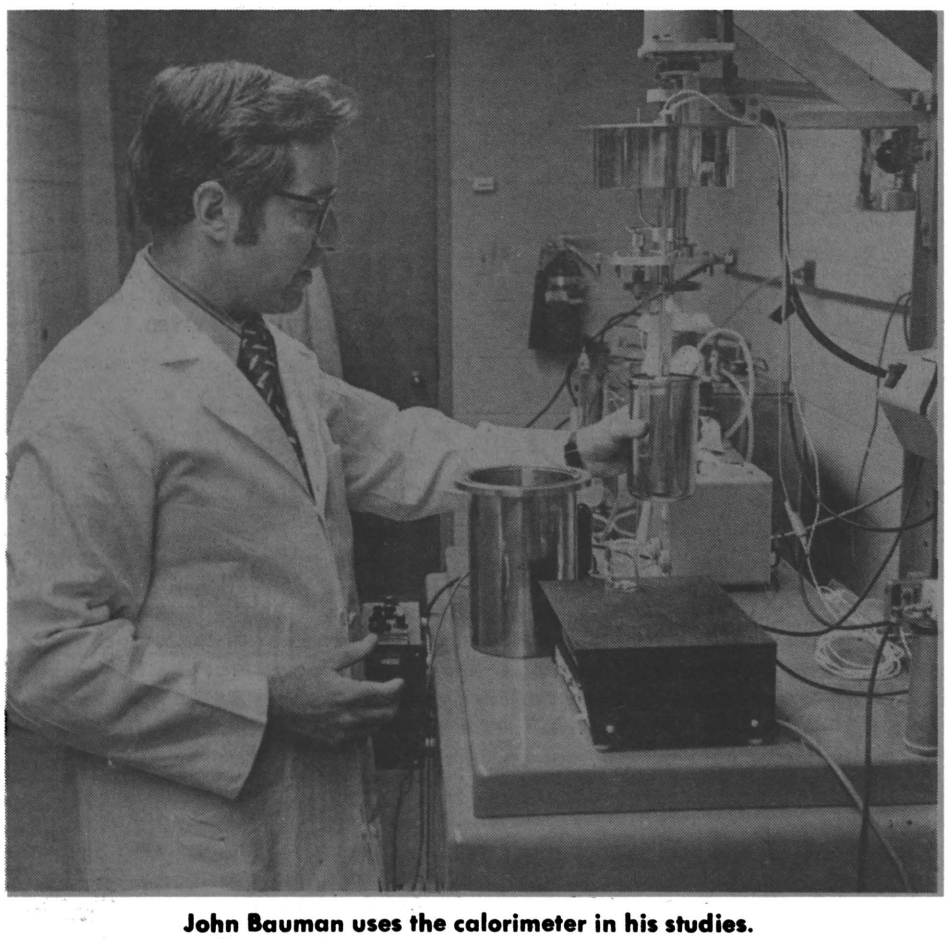
"But I will keep my goal — greater achievement of justice — not only in Columbia but throughout the state."

Denying he is strictly an idealist, he said he regards himself as a really practical man.

"I have ideals but seek practical applications of my ideals," he said. "I want to show people how to change the system by working from within, through the practical application of beliefs. I hope I can show the legally uneducated how to stay within the system, use it for their benefit and change it, thereby eliminating the desire to riot, to rob, or to destroy. That's what law is all about."

While an UMC law student, Mack worked with the minority recruitment committee of the Student Bar Association, with the UMC ethnic minority committee and with the affirmative action program. He was organizer and president for two years of the Black American Law Students Association chapter at UMC. He also assisted in recruiting minority students and women who desired to become lawyers. He visited several campuses in this capacity and participated in a law school recruitment conference.

As a fledgling attorney he is confident he will retain his beliefs — in justice, in law, in himself.



John Bauman uses the calorimeter in his studies.

Scientists Conduct Studies Which May Aid Oil Industry

Scientists at UMC utilizing a precision instrument developed on campus, are taking steps that may aid energy problems of the future.

The project is directed by John E. Bauman Jr., professor of chemistry, who works with chemists and geologists in a study titled "The Thermodynamics of Ionic Interactions." The National Science Foundation has granted $68,500 for the study, which will extend through two years and increases to $132,500 the federal funds that have been allocated for the project.

The study involves laboratory measurement of chemical reactions between minerals and aqueous solutions. The aim is to provide fundamental data about natural chemical reactions which occur during the weathering of rocks, the alteration of buried marine sediments, and the formation of ore deposits.

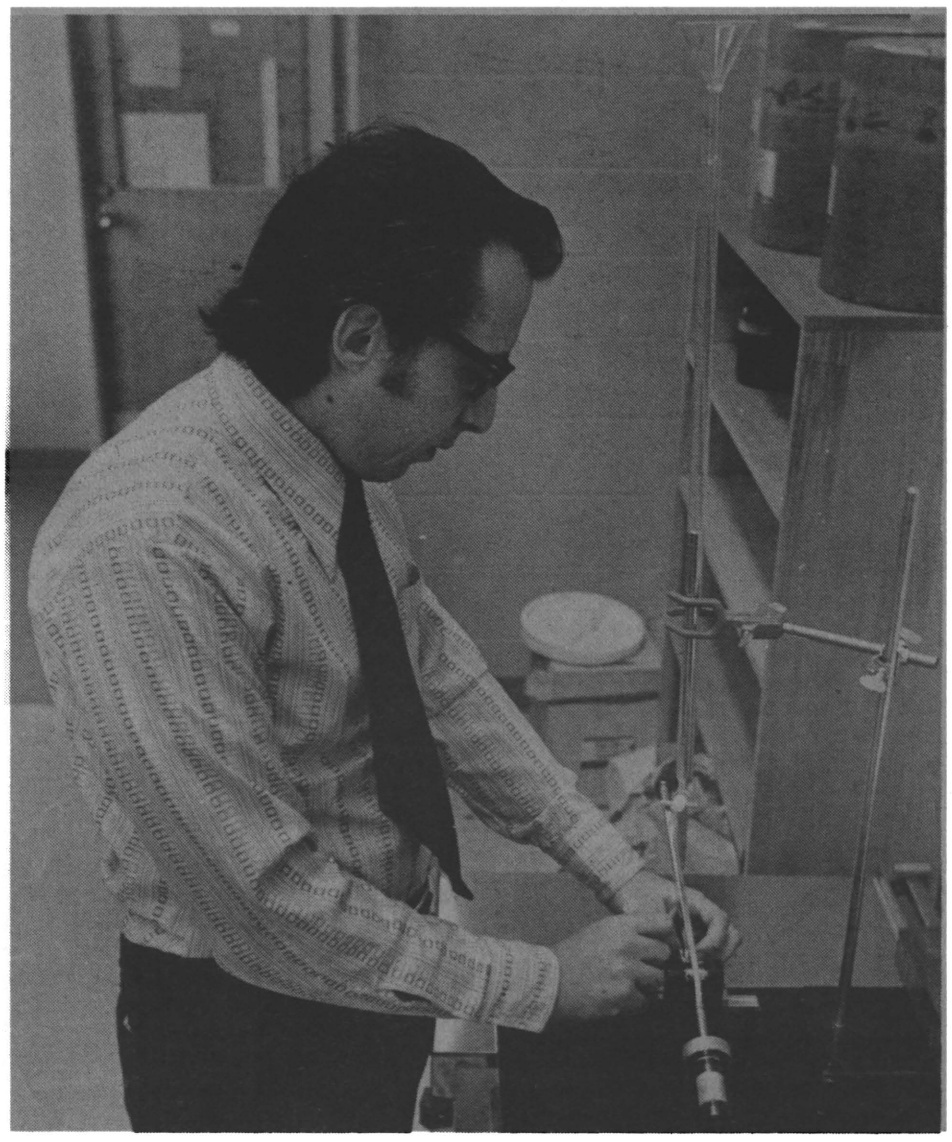
Problems encountered by the oil industry are a part of the study. Oil is found at low depth and under high pressure, often mixed with salts left over from trapped ocean waters. The salts clog pipes when oil is pumped. The research team is conducting studies in heat, pressure, cooling and flushing directed toward aiding the separation of the two elements.

In his studies, Bauman uses a precision calorimeter capable of measuring temperature changes as small as ten millionths of a degree.

The calorimeter was developed at the UMC science instrument shop under a previous grant from the National Schience Foundation. It expanded collection of data that previously had been limited to temperatures of 25 degree centigrade.

"Geologists and others in the oil industry are extremely interested in our results so they can determine what sorts of species are down there with the oil and how we can get the oil out more efficiently," Bauman said. "The project is a good example of what can be done with inderdisciplinary proposals, too. Geologists need chemists, and chemists need geologists. In this project we help each other."

Scientist Studies Old Age Effects



Ira Wolinsky, visiting scientist from Israel, is studying osteoporosis, a condition found in the aged.

Humans may lose height in old age; their bones break easily, sometimes spontaneously for no obvious reason; disuse can bring on calcium loss from bone when they are bedfast or even when their limbs are in casts.

This condition, named osteoporosis, affects millions of adults all over the world. Can it be eliminated or controlled by nutritrional or chemical means?

Biochemists and nutritionists are seeking the answer through their experiments.

Among them is Dr. Ira Wolinsky, visiting scientist at the Dalton Research Center since January. The native New Yorker who received his graduate training at the University of Kansas is a lecturer at the Hebrew University in Israel. There he is on the faculty of the School of Nutritional Sciences, on the faculty of agriculture in Rehovot, Israel, and in the department of nutrition, of the Hadassah Medical School in Jerusalem.

Since his student days, Dr. Wolinsky has been interested in nutrition as it relates to bone and calcium metabolism. Currently he is experimenting with fluoride, better known as a tooth cavity preventor, to determine to what extent it may be useful in the control of osteoporosis, or bone loss. He also is probing the effect of different levels of dietary calcium on bone; use of drugs, or chemical agents in controlling the disease or adaptation to it.

One of his new approaches at UMC is using hibernating animals. Animals in hibernation are essentially immobile and might show the same "disuse" effects on bone as seen in humans. Dr Wolinsky is curious if hibernating animals develop osteoporosis during their long hibernation or if they have some built-in mechanism that prevents them from developing osteoporosis or which promotes recovery when they end hibernation. Lessons learned from these experiments may one day be useful in understanding bone disorders in man.

In this study, Wolinsky is collaborating with X. J. Musacchia, professor of physiology and interim director of the UMC Dalton Research Center, and George Tempel of the Research Center staff.

He is also working with Alexander D. Kenny, professor of biochemistry and a Dalton Research Center investigator, on chemicals that may have potential in contributing to or reducing effects of osteoporosis.

Wolinsky's arrival in Columbia was delayed a month because he was called up in the military reserves in Israel in October because of the sudden outbreak of war there. Long-term residents as well as citizens are subject to callup during emergencies in Israel.

He went to Israel to take up his post at the Hebrew University shortly after he received his doctorate in biochemistry in 1968 at the University of Kansas. He also took a master's degree at K. U. in 1965 after receiving a bachelor's degree in chemistry at City College of New York.

A lecturer at Hebrew University has no American counterpart, he explained. It is somewhere between an assistant and an associate professor in American academic circles. It does enable him to continue research activities. His credits include some 17 research publicatons in American and international scientific journals.

Walter Williams Hall Renovation Begins

Renovation of the south wing of Journalism School's Walter Williams Hall began April 1.

Central air-conditioning and new lighting will be installed in the Frank Lee Martin Library, two classrooms and the Freedom of Information Center. Both the library and the FoI center will also be carpeted.

A circular stairway will be installed in the library to connect the top and lower floors. The library will be reorganized to contain only newspapers, reserve and reference books, a reading area, office and a small lounge area on the top floor. The rearrangement will increase the reading area by 25 seats.

The majority of the library's 17,000 volumes, microfilm and microfiche will be housed in stacks on the lower level. The reorganization will increase the library's total floor space about 50 percent. The library was built when the School of Journalism's enrollment was approximately 300. The school now has 1100 students.

Kemp Lecture Set; Tufts Prof to Speak

Peter Arnott, professor of classics and drama at Tufts University, will give the annual William E. Kemp Lecture at UMC at 8 p.m., April 18, in Memorial Union auditorium. He will speak on "Greek Tragedy in Performance."

British trained (at Oxford University and the University of Wales), Prof. Arnott is nationally known as a translator of Classical Greek and Roman tragedies and comedies, as play director and creator of the Marionette Theatre of Peter Arnott.

Arnott had directed plays of Aristophanes, Euripides, Plautus, Congreve, Dryden, Racine, Goldoni and Ionesco. Among his books are "The Ancient Greek and Roman Theatre," "Greek Scenic Conventions," "The Theatres of Japan," "Plays without People: Puppetry and Serious Drama," "An Introduction to the Greek World," "An Introduction to the Roman World," and "The Byzantines and Their World."

The Kemp lectures, to foster teaching and study of literature at UMC, were established by the will of an alumnus, the late Judge William E. Kemp of Kansas City. Kemp was a former mayor and member of the Kansas City Court of Appeals.

The lecture is open to the public at no charge and will be followed by a reception.

Congressmen Give Papers

Dr. Richard S. Brownlee, director, has announced the acquisition for microfilming of the private and official papers of two former Missouri congressmen by the Western Manuscripts Collection at UMC.

They are the papers of William R. Hull Jr., of Weston, who served in Congress from western Missouri's Sixth District from 1954 to 1972, and Dr. Durward G. Hall of Springfield, representative from the Seventh District in southwest Missouri from 1960 to 1972.

Brownlee said that Hull's papers included 2,160 folders and 15 volumes which have been microfilmed, while microfilming is continuing of the 6,238 folders of Dr. Hall. Of special interest to researchers could be Hull's papers concerning flood control. Interest in Dr. Hall could be directed toward his military and medical careers as well as his service on the House armed services committee and his stand against Communism.

The Manuscript Collection, Dr. Brownlee, said, attempts to secure papers of Missouri congressmen, as well as governors and others, when they leave office and catalogs them for research purposes. The collection now includes papers of 18 former governors, including all who served between Gov. Guy Park and Gov. Warren E. Hearnes; nine senators, 18 congressmen, five agricultural leaders, and 18 other individuals and organizations who have had an impact on Missouri history.

MORE THAN 50 UMC faculty members and graduate students were invited March 5 to the dedication of the Theodore W. Bretz memorial conference room in the department of plant pathology, Waters Hall. Bretz was the first chairman of the department of plant pathology, organized in 1967. From left are Herbert S. Goldberg, associate dean of the School of Medicine; Clifton Cornwell, professor of speech and formerly provost of academic affairs, who was instrumental in the development of the electron microscope facility for the department of plant pathology and College of Agriculture; and Robert N. Goodman, professor and chairman of plant pathology. Among other invited guests were Edmund A. Ford, assistant provost for administration and director of international studies, and Homer C. Folks, associate dean of the College of Agriculture. A portrait of Bretz hangs above the fireplace.

Frank Dolci, student from Independence, plays the Serpent, an obsolete bass wind instrument.

Musical Group Plays Historic Instruments

Resurrecting antique music requires a delicate combination of skill and scholarship. The UMC Collegium Musicum brings to life again, in such fashion, authentic scores of medieval, Renaissance and baroque works.

The Collegium, an ensemble composed of a chamber orchestra, chorus, and historic instruments group, is under the direction of Dr. Andrew Minor, associate dean of the Graduate School. Minor, also a professor of music history and theory, seeks out old manuscripts in authentic, scholarly editions.

A certain amount of arranging is necessary, says Minor, because the old scores rarely specify the instruments to be used. Ensembles of the times employed whatever instruments were available substituting a recorder, for example, for a missing string instrument.

"One of the interesting things to do," says Minor, "is to decide who plays what. We could do the same piece many ways."

To capture the pure, transparent quality of older periods, the Collegium has acquired through various grants over 30 authentically reproduced instruments. The ensemble's harpsichord was made in Bamberg, West Germany by the famous, contemporary harpsichord maker, Neupert.

A standard keyboard instrument of the 16th and 18th centuries, the harpsichord produces a clearer sound by virtue of its plucked strings than does its 20th century counterpart, the piano. The Bamburg instrument allowed the Collegium to expand its Renaissance repertory and more faithfully execute the works of such composers as Bach and Scarlatti, who wrote specifically for harpsichord.

Several of the ensemble's other instruments come from the mountains of North Carolina where an expatriate German craftsman directs a workshop of woodworkers.

Among these instruments used by the Collegium, the lute, which was introduced into Europe by the Arabs, was quite popular during the Renaissance. The shawm, a double-reed precursor of the oboe with a tone more pentrating than its descendant, along with the sackbut — an early trombone — and the bagpipe formed what Minor calls the medieval "dance combo."

The sound of these instruments, says Minor, is "cleaner" than contemporary variants. They are more suited to the polyphonic music of the Middle Ages and Renaissance where each voice is treated like a melody.

While modern trombones, for example, blend with one another making it difficult to isolate individual melodic lines, the sackbut with its softer sound stands out distinctly.

Lacking the elaborate key mechanisms of modern instruments, performers must change pitch with wind pressure. This difficulty is actually a boon, says Minor, since it forces the musician to listen closely for proper intonation.

Old instruments are also advantageous in that the musicians do not have to work so hard for proper balance. "The music," says Minor, was written with them in mind."

UMC Student Invents Space-Saving Desk

(Editor's Note: The following story was written by Gwen Thee of Brussels, Belgium. Miss Thee, a junior in the School of Journalism, wrote the story as a class project in cooperation with the Office of Public Information.)

Not enough desks in a classroom? No problem, bring your own!

With the portable desk, designed and made by Roger Fritz, this may become feasible. "I could visualize something that you can carry your books in, sit down, open it up, and just pull four legs down."

Fritz, 21, of Monett is a senior in art. He made the desk as a project for an advanced course in spatial design. The assignment was to "build something unique, that's unique in the way it's assembled, or maybe versatile," Fritz says.

The desk is regulation size, of wood, and has a typewriter stand, a small drawer, a built-in lamp and a chair. All this folds easily down into a box, about the size of a large suitcase. It weighs 35 pounds.

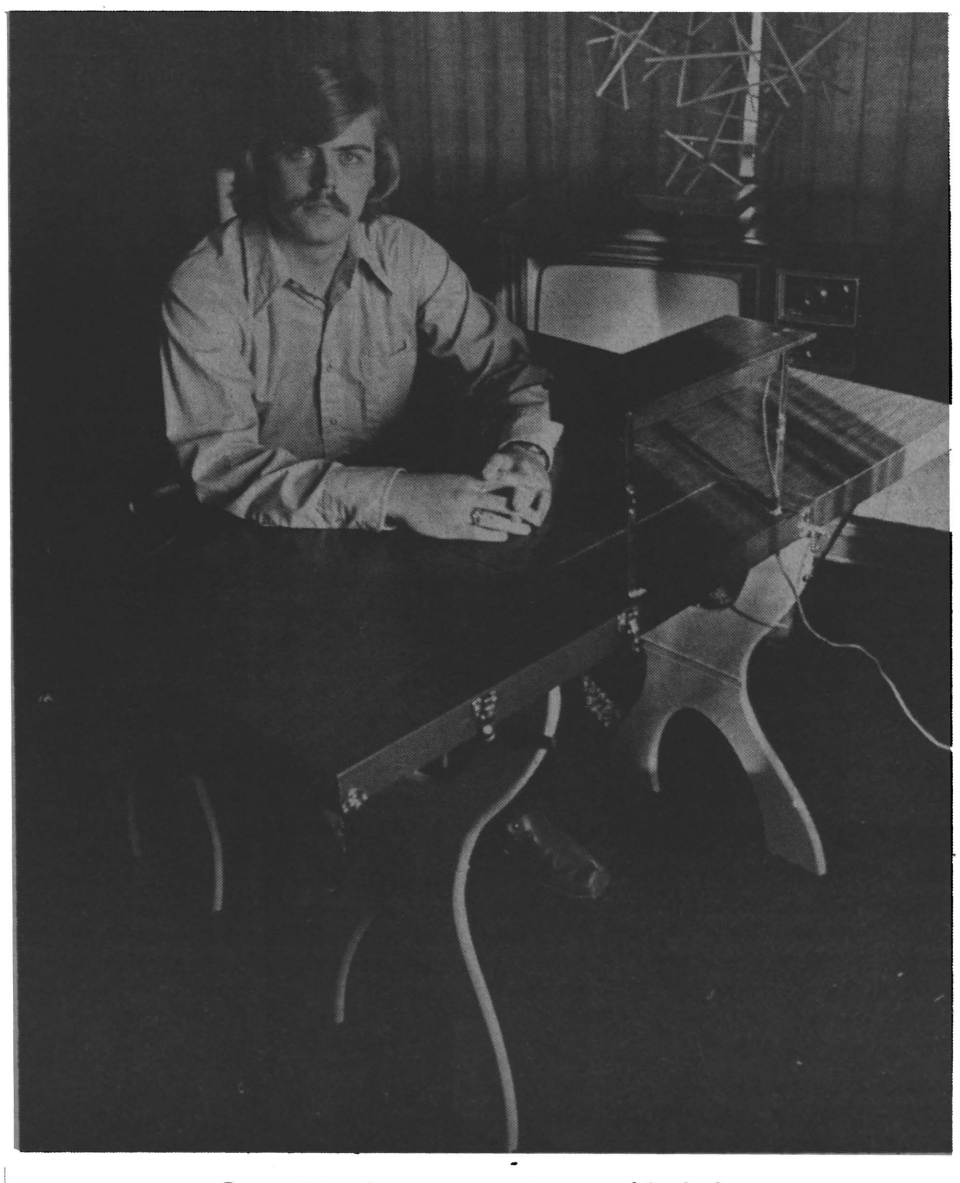
Fritz said he designed the desk with future space shortages in mind. "This was planned for a complete system. It's not the sort of thing that's really made as portable as it is compact."

When asked about manufacture of the desk, Fritz said, "It doesn't really matter. I'm really impressed with the final product. It's enough for me right now just to see that it's built."

Fritz, whose mobile home shows his talent in design in its simple elegance, started out his college career in chemistry, but switched to art. "Any creativity that you could express in chemistry is so far removed from yourself . . . it just wasn't quite it," he says.

But Fritz is happy with his chemistry background: "I wouldn't trade off my chemistry, physics and math background for anything. It's helped mainly in my approach to things. Something like this has to be approached very logically."

Fritz wants to go into industrial design upon graduation. He is presently doing graphic designs for the publications of the University Radiation Safety Office. "The thing I always wanted to be is an inventor. I think industrial design work is about as close to that as you can get."



Roger Fritz demonstrates his portable desk.

Novelist Terms Writing 'Very Risky' Profession

(Editor's Note: The following article is reprinted from the January 1974 issue of American College Public Relations Association News.)

"The writing profession is very risky. It is involved in what is becoming more and more a very marginal activity in American society," said prize-winning novelist Jerzy Kosinski in a recent talk at Wells College.

Speaking before an audience of students and faculty members at the liberal arts college for women in Aurora, New York, he described the world of fiction as "a disappearing way of being, indeed a disappearing way of perceiving."

He cited some statistics to illustrate his point. A recent Gallup poll revealed that 59 percent of the American people have never read a book; a Wall Street Leisure Profile showed that Americans spend an average of 1200 hours per year watching television — and five hours a year reading books.

"In a nation of 203 million people," he said, "a skillful first novel is considered a success if it sells 3000-5000 copies. If it weren't for the paperback houses, writing fiction would entirely disappear in this society."

According to the Polish-born author of **Painted Bird** and **Steps**, the future is even bleaker for writers. "In terms of my future as a novelist and the future of the whole profession, a generation is growing up almost entirely at the mercy of visual media."

News-In-Sound

For a brief nightly run-down of cultural events, entertainment features and campus news, **News In Sound, 882-7869,** produced by the Office of Public Information for the University of Missouri-Columbia.

General Faculty Meeting Minutes

March 20

The University Faculty met at 3:40 p.m., March 20, in Jesse Auditorium with Chancellor Schooling presiding and an estimated attendance of 75.

Prof. Lambert, on behalf of the Committee on Honorary Degrees, made known the names of the proposed June recipients. It was moved and seconded that the voting rules be suspended and that the faculty proceed with the balloting. The motion carried. By secret ballot three nominees were accepted and recommended to the Board of Curators.

Prof. Spiegel, on behalf of the Calendar Committee, moved that the proposed academic calendar for 1975-76 be approved provided, however, that if the Summer Session Advisory Committee, chaired by Dr. Larry Clark, determines that our experience with the two four-week summer sessions during the summers of 1974 and 1975 prove unsuccessful, the four-week sessions be deleted from this calendar. The motion was properly seconded.

UNIVERSITY OF MISSOURI-COLUMBIA
PROPOSED CALENDAR FOR 1975-76

Fall Semester 1975		
Registration and New Student Orientation	Thurs.	Aug. 21
Registration	Fri.	Aug. 22
Classwork begins 7:40 a.m.	Mon.	Aug. 25
Labor Day Recess	Mon.	Sept. 1
Thanksgiving Recess begins, 12:30 p.m.	Wed.	Nov. 26
Classwork resumes, 7:40 a.m.	Mon.	Dec. 1
Classwork First Semester ends, 5:30 p.m.	Tues.	Dec. 9
Stop Day	Wed.	Dec. 10
Final Examinations begin	Thurs.	Dec. 11
First Semester closes, 5:00 p.m.	Thurs.	Dec. 18
Winter Semester 1976		
New Student Orientation	Thurs.	Jan. 8
Registration	Fri.	Jan. 9
Classwork begins, 7:40 a.m.	Mon.	Jan. 12
Spring Recess begins, 12:30 p.m.	Sat.	Mar. 6
Classwork resumes, 7:40 a.m.	Mon.	Nar. 15
Good Friday Recess	Fri.	April 16
Classwork Second Semester ends, 5:30 p.m.	Thurs.	April 29
Stop Day	Fri.	April 30
Final Examinations begin	Sat.	May 1
Second Semester closes, 5:00 p.m.	Sat.	May 8
Annual Commencement	Sat.	May 8
Summer Week Session		
Eight Week Session		
Registration and Orientation	Mon.	June 7
Classwork begins, 7:30 a.m.	Tues.	June 8
Independence Day Recess	Mon.	July 5
Summer Session closes, 5:00 p.m.	Fri.	July 30
Summer Commencement Evening	Fri.	July 30
First Four-Week Session		
Registration and Orientation	Mon.	June 7
Classwork begins, 7:30 a.m.	Tues.	June 8
Session closes, 5:30 p.m.	Fri.	July 2
Second Four-Week Session		
Registration	Tues.	July 6
Classwork begins 7:30 a.m.	Tues.	July 6
Session closes, 5:00 p.m.	Fri.	July 30
Summer Commencement Evening	Fri.	July 30

Number of Class Sections

(excluding examinations, registration and holidays)

		M	T	W	Th	F	S
FALL	a.m.	15	16	15	14	14	14
	p.m.	15	16	14	14	14	—
WINTER	a.m.	15	15	15	15	13	14
	p.m.	15	15	15	15	13	—
SUMMER							
Eight Week	a.m	6	8	8	8	8	7
Session	p.m.	6	8	8	8	8	—
First Four	a.m.	3	4	4	4	4	4
Week Session	p.m.	3	4	4	4	4	—
Second Four	a.m.	3	4	4	4	4	3
Week Session	p.m.	3	4	4	4	4	—

The proposed calendar was approved.

Chancellor Schooling reported that comments, observations and recommendations regarding the tentative Academic Plan have been forwarded to the University-Wide Administration.

Chancellor Schooling commented informally on the following items: the 1974-75 budget, future efforts and evaluation of the administration and administrators and a future task-force to participate in the Missouri Bi-Centennial Observance. He also reported that the revised faculty by-laws had been forwarded to the President to be referred to the Board of Curators.

Published Faculty

COLLEGE OF ARTS AND SCIENCES

The Macmillan Company of India Ltd. has just published a new edition of the Rabindranath Tagore novella, **The Broken Nest (Nashtanir),** translated from Bengali by **Mary M. Lago,** lecturer in English and Supriya Sen Bari. Their translation, the first English translation of this work, was published in 1971 by the University Press. Both editions have an introductory essay by Lago. The Macmillan edition is the first in a new paperback series of Tagore's translated works.

John Gieniec, visiting assistant professor of physics, has published an article "Electrospray Mass Spectroscopy", in **Advances in Chemistry Series 125,** "Polymer Molecular Weight Methods" (1973) which has recently appeared. Gieniec had two co-authors, Dr. M. Dole of the Baylor University Chemistry Department and Dr. H. L. Cot Jr. of the Baylor University Medical College.

SCHOOL OF MEDICINE

Randall Wood, biochemist, is editor of a book entitled, "Tumor Lipids: Biochemistry and Metabolism" just released by the American Oil Chemists' Society Press.

Revel R. Hook, Jr. professor of microbiology, is author of an article, "Humoral Immune Response of the Adult Chinchilla," which appeared in "Laboratory Animal Science," Dec. 1973. Another article by Hook, "Influence of Protein-Calorie Malnutrition in Vivo Phagocytosis by Peritoneal Macrophages of C57BL-6J Mice," appears in the March 1974 issue of "Nutrition Reports International."

The second edition of "Textbook of Immunology" by **James T. Barrett,** professor of microbiology, has recently been published by C. V. Mosby Co., St. Louis.

Robert Cozad, chief of audiology at Medical Center, has edited a recently published book, "The Speech Clinician and the Hearing Impaired Child." Among the contributors in addition to Cozad are **Donald J. Joseph,** chief of the section; **Jane B. Seaton** and **Lester E. Wolcott,** former faculty members at UMC.

Leaves and Sabbaticals

Leo A. Duclos, associate professor of agronomy, will be on leave through Feb. 26. He will serve as an advisor to the corn breeder of the National Corn and Sorghum Project, Ministry of Agriculture, Brazil. His leave began March 1.

Milton Gatch, chairman of the department of English, will be on leave from September until August, 1975. He plans to do research at Cambridge University in England for his project, "The Liturgy and Old English Literature."

Thomas D. Cooke, associate professor of English, will be on sabbatical from Sept. 1 until Aug. 31, 1975. Cooke will be researching materials in London for his book on medieval English comedy.

Gordon E. Bivens, professor of family economics, will be on sabbatical for a year, beginning August 21. He will be conducting research on the role of the family in the grants economy.

Bernard M. Lazerwitz, professor of sociology, will be on sabbatical from Sept. 1 until May 31, 1975. He plans to spend the period in Israel studying data about U. S. Jewish migrants to Israel.

H. Donald Naumann, professor of food science and nutrition, will be on sabbatical beginning Aug. 1 and ending July 31, 1975. He will serve as Senior Fulbright-Hays Scholar at the University of Ege, Ismir, Turkey, where he will lecture in food technology.

H. C. Kazanas, professor of practical arts and vocational-technical education, has been granted a Fulbright-Hays Senior Lectureship with the National Technical and Vocational Teacher Education Institute in Athens, Greece. He will be on sabbatical for a year, beginning in August.

Donald K. Anderson Jr., professor of English and associate dean of the Graduate School, will be on sabbatical from Aug. 26 to Dec. 31. He will do research at the Folger Shakespeare Library in Washington D.C., leading to a monograph on the dance in Tudor and Stuart drama.

Melvin George Appointed Nebraska Provost

Dr. Melvin George, former member of the UMC faculty, has been appointed provost of the State University of Nebraska (SUN) to expand an educational television network which offers college courses for credit.

Dr. George was professor of mathematics at UMC from 1960 to 1970 and served two years as associate dean of the Gradate School. He left UMC to become dean of Arts and Science at Nebraska, a position from which he was granted a leave of absence until Dec. 31 to accept his new responsibilities.

Nebraska has received a grant exceeding $900,000 from the Department of Health, Education and Welfare to expand its nine-transmitter network to include college courses for credit. It is in the process of preparing visual material using professional talent, extensive graphic materials, and syllabi to go with tapes which will be purchased by students. Plan call for offering the college courses in state surrounding Nebraska.

The educational television building is located off campus and is a university-wide operation. Provost George will report directly to the president.

Grants and Gifts

COLLEGE OF ARTS AND SCIENCE

Anthropology—A $61,800 grant from the National Science Foundation will be used to fund a research project on the island of Guam by Don R. Vesper, assistant professor in the linguistics area of the anthropology department.

Biological Sciences—A two-year grant of $58,788 has been awarded to the division of biological sciences by the Public Health service. Abraham Eisenstark, division director, is director of the project entitled "Cell Damage by Blacklight and Tryptophan Photoproduct." The research is in collaboration with that of John McCormick, of Chemistry.

Chemistry—UMC faculty members studying reactions of oxygen atoms with simple molecules at high temperatures have received a $4,330 grant from Research Corporation under the foundation's Cottrell Research Grants Program. Chemistry professor Anthony M. Dean is principal investigator in the research.

Psychology—A three-year $145,000 research grant has been awarded to psychology professor Melvin H. Marx by the Army Research Institute to study "Efficiency of Observational Learning."

SCHOOL OF VETERINARY MEDICINE

A $600 donation from the Southeast Missouri Kennel Club of Cape Girardeau has been used to purchase a whirlpool for use in the small animal clinic. The Kennel Club has made annual donations since 1966, totaling almost $3,500, from the proceeds of the club's annual dog shows and in recognition of the veterinarians in the area who serve at the shows without charge.

A new radiograph machine has been given to the School of Veterinary Medicine on a consignment basis by the H. G. Fischer Co. The machine will provide a second unit for diagnostic radiography in the Small Animal Clinic. Neal Johnston of Johnston's Inc., a distributor for H. G. Fischer, installed the unit which is valued at about $9,000.00.

Physics Faculty Names Kolopus Prize Winner

The first annual James L. Kolopus Prize for outstanding graduate physics research has been awarded to Dr. Larry Halliburton.

The Kolopus Prize was initiated by scientists at the Oak Ridge National Laboratory after Dr. Kolopus died of cancer at the age of 33. Dr. Kolopus earned his Ph.D. from UMC in 1965. After a two year postdoctoral appointment at Argonne National Laboratory, he joined the permanent scientific staff at the Oak Ridge National Laboratories where he was co-investigator of the moon rocks brought back from the Apollo missions. He won international recognition for his research into intrinsic defects and impurities of halide and oxygen crystals.

It is especially fitting that the UMC physics faculty chose Dr. Halliburton for the first Kolopus prize since the two men were friends. Dr. Halliburton was starting his graduate career as Dr. Kolopus was completing his, in Professor Louis V. Holroyd's Electron Spin Resonance Laboratory at UMC.

Dr. Halliburton earned his Ph.D. in Physics in 1971 for experimental studies of color centers and went on to Oklahoma State University as an Assistant Professor of Physics. He has been awarded research grant from the National Science Foundation and the Research Corporation and has published significant articles in solid state physics. In Fall 1973, Dr. Halliburton organized and presided over the Midwest Solid State Physics Conference at Oklahoma State University.

New Genetics Course Planned for Summer

A course in basic human genetics aimed at students interested in diagnosis, treatment, possible cure or maintenance of people suffering from genetic disease will be introduced at the UMC four-week summer session.

The child health, biological sciences and physical medicine and rehabilitation departments of UMC, assisted with a grant of $2,358 from the March of Dimes, will combine to offer the course.

Enrollment will be limited to 30 students selected from outstanding undergraduates at UMC, advanced students at 35 other Missouri colleges and universities, and graduate students in biological sciences, biology-related departments and some premedical and medical students.

Allan B. Burdick, chairman of the genetics and cytology department and coordinator of the course, said that applications for enrollment will be accepted until April 5. The course will be offered daily between June 11 and July 5, with two lectures each morning and two hours of clinic, laboratory or multimedia instruction each afternoon.

Visiting lecturers will include Alexander G. Bearn of the Cornell Medical group, recent past president of the American Society of Human Genetics; James German of the New York Blood Center, author of "Human Chromosomes Today;" Joseph Christian of the Indiana Medical School; and Arno G. Motulsky of the University of Washington Medical School, editor of the American Journal of Human Genetics.

Burdick said that 15 of every 100 new newborn infants have a genetic disorder and that 40 percent of hospitalized non-trauma child cases have been attributed to diseases that are partially or wholly genetic in nature.

Faculty Footnotes

COLLEGE OF ARTS AND SCIENCE

Eric Rutherford, associate professor of art will give a show of silk-screen prints of landscapes and figures this month at the Ashgate Galler in Farnham, a suburb of London.

Luverne Walton, Chairman of the Department of Germanic and Slavic Languages, and head of the ad hoc committee appointed by Chancellor Schooling to study the status of women on the campus, gave the main address at the special Awards Banquet of the Jefferson City Chapter of the American Association of University Women held in Jefferson City on March 21.

Brian DeFacio, associate professor of physics, gave the Department Colloquium at the University of Missouri-Kansas City on March 20. His talk was entitled "Atomic Structure Effects in Nuclear Reactions."

DALTON RESEARCH CENTER

Donald A. Headley, Animal Technician II in the Dalton Research Center, presented a session on "Care and Handling of Yellow-Bellied Marmots" at the Ninth Annual Quad-Branch Meeting of the American Association for Laboratory Animal Science, March 16. Headley is presently Secretary-Treasurer of the Mid-Mo Branch of the American Association for Laboratory Animal Science.

COLLEGE OF EDUCATION

Neil C. Aslin, chairman of the department of educational administration, gave the Emil L. Larson Memorial Lecture at the University of Arizona in Tucson. Aslin spoke on "Humanism and Accountability: Are We Witnessing Institutional Schizophrenia? or The Phenomenon of Unanticipated Consequences." He was the speaker for the combined Phi Delta Kappa—Pi Lambda Theta groups March 7.

Aslin was also on the Arizona campus to serve as Chairman for the evaluation of the North Central Association State Committee.

Robert E. Reys, professor of mathematics education has been appointed to a three-year term as General Editor of National Council of Teachers of Mathematics Yearbooks. The General Editor chairs the committee that develops the yearbooks. The 38th Yearbook will focus on the topic of measurement and is scheduled for publication in 1976.

Charles O. Snethen, director of the Laboratory School, has been elected recording secretary in the National Association of Laboratory Schools.

Reuben Altman, assistant professor of special education, presented a paper entitled, "Design Features of a Competency-Based Training Program in Module Format" at the Annual Conference of the Association for Supervision and Curriculum Development in Anaheim, Calif. in March.

Douglas A. Grouws, assistant professor of education, gave two invited addresses at the Third Annual Mathematics Olympiad held at Northwest Missouri State University on March 19. One speech was for area mathematics teachers and dealt with new techniques in the teaching of algebra and the other speech on figures of constant breadth was open to both faculty and students.

COLLEGE OF ENGINEERING

Kenneth P. Buchert, professor of civil engineering, has been elected chairman of the National ASCE (American Society of Civil Engineers) Committee on Engineering Management.

George W. Preckshot, professor and chairman of chemical engineering attended a National Science Foundation meeting in Houston, Tex., March 6-8. He served on an NSF review panel for instructional equipment.

COLLEGE OF HOME ECONOMICS

Edward J. Metzen, chairman of family economics and management, was in Washington, D.C. Feb. 19-22 for a "Dialogue With Washington at Work" in the field of families and consumers.

SCHOOL OF JOURNALISM

Thomas H. Bell, instructor, was awarded the 1974 Special Award at the fifth annual Missouri Interscholastic Press Association-MissouriJournalism Educators Association awards competiton. He was recognized for his "contributions to scholastic and collegiate journalism in Missouri."

William H. Taft, professor of journalism, has been named to the three-man editorial board of a new quarterly, "Journalism History," which will appear this spring. The journal will be published by the California State University.

SCHOOL OF SOCIAL AND COMMUNITY SERVICES

Five community development faculty and field staff conducted a two-day symposium March 4 and 5 for the University of Georgia Institute of Community and Area Development. Participating were: **Hugh Denney, Bryan Phifer, John Croll** and **Tom Nicastro** from the department of regional and community affairs, and **Don Boesch,** cummunity development specialist in Southeast Missouri.

Arlin Epperson, director of recreation extension, was selected to participate in a national invitational "Super-Seminar" March 12-14 in Flint, Mich., sponsored by the National Center for Community Education, the National Recreation and Parks Association, the National Community Education Association and the American Association for Health, Physical Education and Recreation.

SCHOOL OF MEDICINE

Leonard Brubaker presented "A New Approach to Diagnosis of Pathophysiology of Neutropenia" at the annual regional meeting of the American College of Physicians and the Missouri Society of Internal Medicine at Kansas City, Mo. March 1. Brubaker, Patrick H. Henry and Robert L. Carolla presented the workshop on hematology—Anemias at the conference.

Graduate School and Research Notes

SUBMISSION OF GRANT APPLICATIONS

Once again it has become necessary to remind faculty members who are submitting applications for grant funds that these applications should be submitted approximately 10 days before the application deadline set by the funding agency. This time is necessary in order for the application to be endorsed by those university officers responsible for this function and to allow time to clear up any questions which may arise regarding the proposal. Applications reaching the Office of Research near the deadline established by the funding agency may possibly arrive at the agency after the established deadline and not be accepted for funding. The Office of Research can no longer process proposals on a walk-through basis.

This office realizes that there are occasionally very legitimate reasons why proposals are submitted late — for example, in response to an RFP, and in those instances where funding agencies establish a deadline within a very short time from the date of program announcements. In these instances, the Office of Research will do everything possible to assure that the application arrives on time. However, most grant applications are submitted in response to established programs, and we believe these can be submitted at an earlier date than has become the rule.

The Office of Reasearch wants to cooperate with and help faculty members who are submitting grant applications. It is realized that much time and effort go into preparation of proposals, but also, it must be recognized that staff members in the Office of Research, as well as the fiscal office, have many other duties in addition to processing grant proposals. At times the officials who must approve grant applications are out of town involved in other duties, so time should be allowed for these contingencies.

X. J. Musacchia

NIE FUNDING ACTIVITIES FOR 1974—Funds will be awarded in fiscal 1974 by the National Institute of Education for the support of studies which synthesize and interpret existing research and development work on significant educational topics and problem areas. Proposals will be solicited for studies on topics perceived by the educational community as pertinent to its problems and current interests. Proposers must show evidence of an existing body of research and related information on the topic they chose to study, and it must demonstrate existence of the capability and resources to interpret this information in a scientifically respectable manner. Priority will be given to proposals which fall under one or more of the following headings: testing, measurement and evaluation; early childhood education; school finance; individualized instruction; career development; teacher eduation; student learning; adult and continuing education programs; equal educational opportunities; and new approaches to eduation. Proposals must be submitted by **April 23.** More detailed information appeared in the Federal Register of Thursday, March 21, or you may contact Mildred J. Thorne, Office of Dissemination and Resources, National Institute of Education, Washington, D. C. 20208. Mrs. McQuary has copies of the Federal Register.

The NIE has also proposed funding activities for studies on the potential of various organizational arrangements for helping urban school systems sustain a process of continuing improvement. This program would initially provide grants to support the further development or extension of urban school improvement programs and under a separate competition in fiscal 1975, award grants for documentation and analysis of the local problem-solving activities. These proposals must be submitted by **April 22.** Further information is available from Ms. Judith Cheerington, Priority on Local Problem-Solving, Room 628, National Institute of Education, Washington, D. C. 20208.

HUD DOCTORAL DISSERTATION RESEARCH GRANTS—The Department of Housing and Urban Development will provide grants for doctoral dissertation research in selected housing and urban studies. Guidelines for submitting proposals will shortly be sent to all members of the Council of Graduate Schools. The maximum grant will be $10,000 for one year. As soon as guidelines are received, announcement will be put in the **Faculty Bulletin.**

COLLEGE TECHNICIAN EDUCATION PROGRAMS—A science education program to help provide trained technical personnel for research and technology has been announced by the National Science Foundation. Under the program, NSF will support the development, testing, and trial implementation of technician education programs at collegiate-level institutions. The first awards will be made in June, 1974. Proposals will be considered from institutions that offer 2 or 4-year college education for technical support personnel. Priority will be given to projects concerned with manpower needs to help solve contemporary national problems in all fields of science and engineering. Proposals may be submitted at any time, as there are no fixed deadlines, but approximately 4 months are required to consider a proposal. For further information write for E-78-18 or call Mrs. McQuary.

PROGRAM ON ENVIRONMENTAL EFFECTS OF ENERGY—The National Science Foundation has established a separate program on the Environmental Effects of Energy, in RANN's Division of Environmental Systems and Resources, to determine the effects of energy resource extraction, conversion, and use on the natural environment. Robert Rabin has been appointed Deputy Division Director for theis program. For further information, telephone 632-5888.

DECISION-RELATED RESEARCH ON TECHNOLOGY UTILIZED BY LOCAL GOVERNMENT—Up to $2 million will be provided the National Science Foundation in support of research aimed at helping local governments in choosing from among alternative types of hardware and from among alternative computer programs for record keeping and management. Equipment categories that will have priority are those for refuse collection, street cleaning, fire fighting, rescue operations, and snow removal. Computer program areas given priority include automated real estate assessment, court scheduling, personnel management, payroll operations, and tracking of offenders as to their location and status. Deadline for receipt of proposals is **April 8.** Request program soliciations NSF 74-4 (632-4128).

(For further information on the above programs, call Ms. Carol McQuary, 882-6311)

Faculty Council Minutes

Feb. 28

Board Academic Affairs Committee. Discussion was held concerning the open hearing of the Board of Curators Academic Affairs Committee on Resolution C. It was agreed that an exchange of views had taken place.

Doctoral Faculty. Prof. Daniel reported on the events leading up to the publication of the Faculty Bulletin in Brief concerning the Doctoral Faculty application forms. Discussion then centered on the Doctoral Faculty situation, the Campus Academic Plan and Peer Group Evaluation. Prof. Daniel will write a letter to the chairmen of the Divisional Policy Committees concerning these matters.

Any other business. Several other matters were discussed including the Academic Regulations, Grievance Procedures and the Inter-Campus Faculty Council review of the University Wide Administration.

The result of the ballot on the Faculty By-Laws was announced. The new By-Laws were approved by a vote of 548 to 43.

Prof. Miller reminded members that the manual "Policy on University-Sponsored Educational Materials (including copyright)" was being revised and input is needed from the Faculty who are requested to communicate with Prof. Lysen. Copies of the present handbook of these regulations may be obtained from Paul Keenan in Clark Hall.

Prof. Miller reported actions concerning the Hearnes Multipurpose Policy Committee. Prof. Spencer moved, Prof. Utz seconded, that the letter to and the reply from the committee be included with these minutes. Passed by voice vote without dissent. (See page 11.)

March 7

Visit of Lee Belcher. Lee Belcher, Assistant to the President for Employee Relations, described the many and detailed aspects of Faculty Grievance and Appeals Procedures. He, and the Council, discussed the principles, concepts, existing procedures and anticipated developments. It is understood that the Inter-Campus Faculty Council is to produce a statement which will be distributed to the various campus faculty representative goups.

Academic Plan. Prof. Daniel informed the Council that the draft version of the University Academic Plan will be mailed to the faculty tomorrow. In anticipation of faculty response it was decided that the council would hold a special meeting on March 11 at 3:40.

Reports and announcements. Prof. Daniel reported on the status of the Catastrophic Insurance Coverage Program.

Prof. Daniel pointed out that the Academic Affairs Committee of the Board of Curators requested that the faculty make written statements to them concerning resolution C. All faculty are urged to take advantage of this opportunity of communication with the Board.

Prof. Utz moved, Prof. Mauksh seconded, that the chairman of the council or the executive committee produce a slate of candidates as alternative representatives to Inter-Campus Faculty Council. The motion passed by voice vote without dissent.

Prof. Utz reported on developments on the Computerized Admissions, Registration and Academic Record System.

March 11

Academic Plan. Following much discussion and a report from the members of the Inter-campus Faculty Council the Executive Committee was intstructed to prepare a statement reflecting the views of the Council and to transmit it to the Chancellor. A copy is attached to these minutes.

March 13, 1974

TO Chancellor Schooling
FROM: UMC Faculty Council

We have examined the Tentative Version of the University Academic Plan contained in the President's Bulletin of March 7, 1974, and are deeply concerned over some of the implications of the document. Because of the short time period for response, we have not considered all the implications, nor have we received comments from all the divisions or departments on campus. We understand that some deans and department chairmen will be contacting you directly with their concerns.

I. Our major concern is the considerable disparity between the Tentative Version of the University Academic Plan and the Campus Academic Plan prepared by this campus. The Campus Academic Plan emphasized the interdependent relationships of the academic programs on this campus and the strength and the vitality resulting from these relationships. The Tentative Version indicates a reduction of emphasis and support for certain programs or parts of programs. If, for example, engineering, chemistry, physics, mathematics and statistics, are weakened, this will not only harm those programs but have a deleterious effect on the other academic programs here and in turn impair the educational effectiveness of the University.

The placing of any academic program in Part Three even tentatively, is itself demoralizing and professionally harmful, and this is particularly so when such programs were not placed in that category in the Campus Academic Plan. The uncertainty created by placing a program in Part Three is enhanced when it is not clear what the possible effect would be if the Tentative Version becomes the final version. Footnotes in the Tentative Version indicate that being in Part Three-A may mean different things. Further, the Tentative Version does not indicate the reasoning behind a change in categorization and this makes it impossible to know whether the decision was based on academic or other factors.

We therefore urge that the proposed change adopted by the Inter-Campus Faculty Council be followed. That proposal recommended the restructuring of categories as follows:

1. The statement of "Part Three" (on p. 6) be revised to conform to its original wording:

Category A. Degree programs, or portions thereof, which shall be reduced in scope.

2. The statement of "Part Two" (on p. 6) be revised by deleting the second sentence and adding:

Category A. Degree programs or portions thereof, which are immediately eligible for added funding to meet inflationary costs, salary and wage increases, and enrollment demands.

Category B. Degree programs or portions thereof, which are eligible for added funding (as above) but which will be reviewed annually for continuation in this category. Each program placed in this category will carry a notation clarifying the reason for the annual review.

We also urge that the Campus Planning Council on each campus be allowed to recommend which of their programs now in Part Three-A should remain there or be reclassified.

II. The Tentative Version also raises questions of a more fundamental nature. Despite its title, it does not appear to really be an "academic plan." For example, it is difficult to believe that any modern University would adopt an "academic plan" that indicates the possible reduction in scope of all PhD programs in chemistry and all existing PhD programs in mathematics. While this aspect of the Tentative Version may be improved by the redefinition of categories suggested above, it is indicative of a plan based upon primarily non-academic considerations. While page 2 of the Tentative Version does point out that "In the public sector of Missouri higher education, the University is the only institution providing doctoral programs . . . " "assumption" No. 6 on page 5 indicates a reduction of the commitment to doctoral education. The distribution of programs into the various categories and among the various campuses seems to ignore the recent evaluations of those programs and cooperative efforts in some disciplines on the four campuses.

The Tentative Version of the University Academic Plan still bears the marks of a program committed to building new programs only at the expense of destroying sound existing programs. The cannibalisation of sound programs as a means of building new programs is shortsighted, expensive, and academically disastrous.

We realize that financial considerations must play a large part in any plan. However, we have never been informed of the cost figures that provide the basis for even this Tentative Version. We are not sure what other considerations have gone into the decisions. Unless we know the true bases for the plan, it is difficult for the faculty to participate in any meaningful sense in the preparation of the final plan. If it is to be an "academic plan", then meaningful faculty participation is essential. We fear that professional and academic decisions will or have been made on the basis of non-professional and non-academic factors and without adequate consideration of the academic consequences of those decisions. Unnecessarily harmful decisions will be made if the financial and other considerations are given such emphasis that the academic consequences are overlooked.

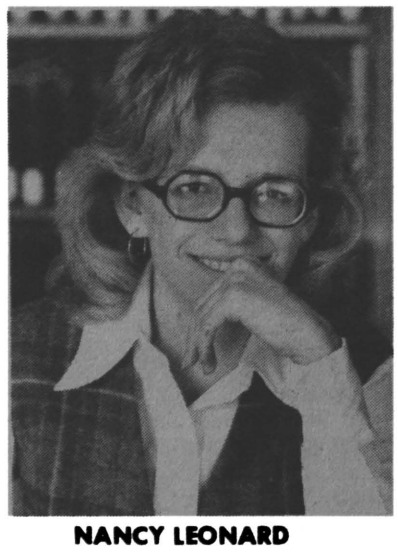
(Continued on Page 12)

Student Visits Norway to Study Election

(Editor's Note: The following story was written by UMC journalism student Melissa Hocker of Salem, Mo. as a class project in cooperation with the Office of Public Information.)

Did you ever wonder if those beautiful Danes were really natural blonds or if Norway is filled with Vikings and reindeer? Nancy Leonard, of Lee's Summit, Mo., did, and she decided to find out.

Miss Leonard, a master's degree candidate in political science at the University of Missouri-Columbia, spent 11 weeks in Norway last summer investigating the voting patterns in the Norwegian Common Market election. She not only learned about the political system and the people of Norway, but also traveled to Czechoslovakia, Denmark and other areas of Europe.



NANCY LEONARD

Miss Leonard became interested in Norway, whose population is less than that of Missouri, during a comparative democracy seminar, wrote to the embassy there to get information and planned a trip. She arrived three and a half weeks before their elections to study what, "to them, was a very emotional issue": the decision not to join the Common Market.

She found the Norwegians to be a proud, nationalistic people, "very rural-minded and nature oriented," whose goal is to keep their country prosperous and independent, while preserving their pleasant lifestyle and beautiful environment. For these reasons, Norway entered a trade agreement with the Common Market, which would not bind Norway should the Common Market expand or change.

From her apartment at the University of Oslo, in Norway's capital and largest city, Miss Leonard experienced the refreshing Norwegian lifestyle, which includes plenty of walking: "They call it 'orienteering' — it's a national pastime."

With winter snows, the people take to skiing, out the windows! "The snow gets so deep that people ski right out of the second story of their houses," said Miss Leonard. Young children are included: "If they can walk, they can ski."

"A rich country with few people; it's a totally different situation," blonde, 23-year-old Miss Leonard said. "They have many options we don't have." Norway's emergence as a welfare state with a 20 percent sales tax on everything (including food), indicates a less materialistic attitude. "I met very few people who would give up their time in the country to make more money," Miss Leonard said.

Norway is "a militantly socialist country," Miss Leonard said Norwegians "guard their freedom much more zealously than we do," because they have not always had it. Occupied during World War II, "there was hardly any country that suffered more than Norway did," Miss Leonard said. "For every German killed in Norway there were four Norwegians killed."

Miss Leonard does not think Norway will move toward Communism but neither will it adopt capitalism.

"They know what they want and they will use controlled technology to get there." Always present is a deep respect for community, and pride in their nation, she said. In a land where many people live on their own islands and some parts of the country stay frozen 85 percent of the year, generation after generation of Norwegians live, because "they love it."

In the future, Miss Leonard plans to work for the United States government, and possibly pursue a Ph.D. in political science. The lasting benefit of her trip, she said, was that "it opened my eyes. I didn't come back with socialist programs I want to implement. There are always ways of improving a country, and my experience made me desire something better for this country."

Correspondence on Use of Hearnes Building

TO: Dr. Neil C. Aslin, Chairman, Hearnes Multipurpose Building Committee

FROM: W. R. Miller, Chairman, Faculty Council Sub-Committee on Faculty Athletic/Recreational Opportunities

SUBJECT: Request for Reconsideration of Policies Related to the Use of the Hearnes Building for Student, Faculty and Staff Recreation and the Implementation of Those Policies

This memorandum is presented to you as a request of the Faculty Council to take a further look at the policies related to use of the Hearnes Building for student, faculty and staff recreation.

As spokesman of the Faculty Council Sub-Committee, I wish to express appreciation for the action which the Hearnes Multipurpose Building Committee took to open up areas of the fieldhouse for recreational use by members of the University community. I believe that most of us who are acquainted with the limitations imposed by the structure itself, as well as the policies that have been in existence over the past several years, do appreciate the step forward that the committee has made to realize the stated purpose of the Hearnes Building as specified in the **Internal Guidelines for the Operation of the Multipurpose Building.**

1. **Purpose:** The building has been designed and will be utilized for a wide variety of purposes. These purposes include educational, entertainment and **recreation activities** offered for the benefit of the students, faculty and staff of the University; scheduled activities and programs of the Department of Conferences and Short Courses; scheduled activities and events of the Department of Intercollegiate Activities and such other purposes as may be authorized which conform to the applicable rules and regulations of the University. The **optimum use of the building for the above purposes** shall be encouraged at all times.

Further, it was no doubt apparent to all of us, who were in any way involved in the requested change in policy, that this change would not solve all of the recreational needs of the University community, or that the policies would be adequate in all instances, or that the policies would be implemented to everyone's satisfaction.

Therefore, it seems most appropriate that we assess the situation as it now exists and consider policy modifications which will maximize the recreational benefits of the Hearnes Building for the University community (students, faculty and staff).

As a result of the support and endorsement by the Faculty Council, the needs for reconsideration of policies relating to the recreational use of the Hearnes Building were discussed with Chancellor Schooling and Provost McGowan. It is at their request that the following suggestions are offered for the consideration the the Hearnes Multipurpose Building Committee:

1. That the hours available for recreation in the fieldhouse area of the Hearnes Building by members of the University community be expanded to include the following time periods:

(a) 7-12 noon on Saturdays,
(b) 8-12 noon on Sundays,
(c) 5-11 p.m. on Sundays, and
(d) that the closing hour be extended from 10 p.m. until 11 p.m. Monday through Friday.

The Faculty Council is cognizant of the fact that additional funds would be required to provide supervision for these additional time periods and the Council is prepared to make recommendations to the administration regarding support for additional costs if the committee can agree to expand the recreational time periods available to the students, faculty and staff.

2. That the weight training area be opened for recreational use. The Hearnes committee's concern regarding the safety of students, faculty and staff who might use this facility is appreciated; however, it is noted that the weight training area in the basement of Rothwell Gymnasium has been used for a number of years without supervision and under much less favorable conditions than those that exist in the weight training area within the fieldhouse.

3. That the pre-empting of free play and recreational hours by the practice and competition needs of the Department of Intercollegiate Athletics be posted at the fieldhouse entrance as well as through other campus media at least one week in advance.

It is recognized that the practice and competition needs of the Department of Intercollegiate Athletics will continue to receive the highest priority in the fieldhouse area of the Hearnes Building. However, in all fairness to the total University community, it is requested that "short notice" pre-empting be eliminated and that the plan to utilize the fieldhouse areas for competition and practice by the Department of Intercollegiate Athletics be scheduled and posted so that students, faculty and staff will not be inconvenienced by coming to the Hearnes facility to learn that they have been pre-empted with little or no advance notice.

4. That additional lockers be made available for daily use. The arrangement whereby individuals supply their own locks and remove them after daily use is working out well, although the twenty-five lockers presently available is inadequate.

5. That Item III A-3 of the Policy Proposal dated Dec. 20, 1973, be clarified. The report makes reference to "limited tennis on weekends (artificial turf will be down during the week; tennis team practices some weekends)."

Clarification of the intent of this policy needs to be made to provide for better understanding by all members of the University community. It is suggested that specific times when the courts are to become available for recreational use is essential. We believe that it is in the interest of all concerned that specified times for the varsity tennis team practice should be scheduled in accord with regulations of the Big 8 Conference as would be required for other intercollegiate attletic teams. It is recognized that although the conference regulation specifies a limit of two hours of organized practice daily that more than two hours of reserved time would be required to accommodate reasonable starting and ending activities; however, it would seem that a four and five hour time reservation for varsity practice would be out of line with requirements.

Perhaps the expanding of the weekend hours would provide some relief for the recreational need of the infield area for tennis.

In addition to these requests for policy changes, the Faculty Council would like to request consideration from those members of the committee who have responsibility for the administration of the Hearnes facility.

1. It is requested that the activities associated with placing and removing of the artificial turf be scheduled so that it does not make the track area of the fieldhouse unavailable for recreational use during peak periods (for example, it would seem inappropriate to have this process of rolling or unrolling the artificial turf during the period 11 a.m. through 1:30 p.m. which is a peak use time of the track area by faculty, staff and student joggers).

2. That a cost analysis be made of the procss of rolling and unrolling the artificial turf with consideration being given to the possibility of daily storage of the turf on the drum which could be left on the inside lanes of the track rather than rolled to the fieldhouse wall as is the present practice for weekend storage. The Faculty Council would welcome the opportunity to concern itself with the location of adequate resources that migh be required to avoid the disruption of all recreational use of the infield area Monday through Friday as a result of twelve hours of baseball practice on the artificial turf (6-9 Monday through Thursday).

3. That consideration be given to a positive attempt to change the attitudes of service personnel from "hostility" and an apparent regard of students, faculty and staff as "intruders" to one of helpfulness and support of the recreational needs of the University community.

These suggestions are offered constructively in an attempt to maximize the opportunities made available for recreation and free play in the Hearnes Building.

It is anticipated that the faculty members on the Hearnes Committee who have acquainted themselves with the recreational needs of the University community can provide additional insight into the needs which underlie these requested policy and administrative changes.

cc: Chancellor Schooling
Provost McGowan
Faculty Council
Sub-Committee on Attletic-Recreational Opportunities

February 21, 1974

TO: Professor W. R. Miller, Chairman, Faculty Council Sub-Committee on Faculty Athletic-Recreational Opportunities
SUBJECT: Consideration of your sub-Committee recent memorandum.

At its meeting at 1:30 p.m., Feb. 18, the Hearnes Committee considered your memorandum item by item. Your expression of appreciation for the recent policy changes designed to open areas of ths Building for recreational use was appreciated. It continues to be the policy of our Committee to obtain maximum usage of the Building for approved purposes.

Item 1

It was suggested that Mr. Stotler, Mr. Klinkerman, and Mr. Jenkins research the costs and other problems of opening the Building from

8-12 noon on Saturdays
8-12 noon on Sundays
5 p.m.-10 p.m. on Sundays

and that the results be transmitted to Provost McGowan and Chancellor Schooling. Inasmuch as the Building has not been greatly used in early morning and late evening, the opening of the Building before 8 a.m. and after 10 p.m. was not considered advisable.

Item 2

It was the opinion of the Committee that the weight training area should not be opened. This was the stated opinion of student, faculty, and administrator members of the Committee.

Item 3

Although the pre-emption of Hearnes facilities for Intercollegiate Athletics will probably continue as emergencies arise (rain, etc.), every attempt will be made to keep this at a minimum and that highly visible signs, notices, etc. will be used to avoid as much conflict as possible. Communication will be a problem.

Item 4

The number of lockers has been increased from 25 to 38. If information is developed that this number is still inadequate, efforts will be made by Mr. Stotler and Dr. Sheehan to "scrounge" a few more.

Item 5

The availability of tennis courts is under study. It has been proposed that the tennis courts be available for recreational use at $10 per hour. We will continue to study this problem. Dr. Frank Mitchell is particularly interested in solving this problem.

Dr. Sheehan has been asked to clarify Big 8 practice policies. There is some confusion in the statement at the bottom of page 2.

Additional items

Statements 1 and 2 are administrative in nature and are properly noted.

Statement 3 elicited some negative rebuttals from Committee members because we had several reports of "hostile" attitudes on the part of faculty members using the Building.

Finally, we are still attempting to stimulate maximum use of this facility and to resolve the sticky administrative problems inherent in many tenants — The attached study of usage may be useful, if not encouraging.

NEIL C. ASLIN
Chairman

cc: Members of the Hearnes Multipurpose Building Committee
O.P.I.

Medical Center Gets Air Conditioning

The hospital at the UMC Medical Center is nearing full air-conditioning.

Bids were asked March 20 on completely air conditioning the patient section of the hospital. The General Assembly allocated $1.5 million in capital improvement funds for the project.

About one-third of the building — work areas, the intensive care, recovery and new infant sections — already are air conditioned, but none of the patient rooms.

Raymond Halbert, director of the University physical plant, estimated that the complete air conditioning will require about a year's time. The work will be done by areas, however, and some patient rooms could be air conditioned by late summer. The installation will cause some inconvenience to patients and staff as work is concentrated in the various areas, he added.

Bids for the installation will be opened at 11:05 a.m. April 17 at Clark Hall at UMC.

Halbert said that architects estimate that the installation can be completed within funds available, but alternates aree available. The biggest worry, he added, is increasing delays in delivery of materials.

When the project is completed, rooms will have individual controls for heating and cooling, an improvement over the present heating system which is controlled on a zone basis.

The bids do not include air conditioning in the Medical Science building, the classroom section of the Medical Center.

Calendar of Events

ACADEMIC SCHEDULE

April 8-11: Advanced Fall '74 Registration.
April 12: Good Friday recess.
April 15: Advanced Fall '74 Registration.

ATHLETIC EVENTS

April 9: Baseball: UMC vs Central Missouri, 1:30 p.m.
April 12: Baseball: UMC vs Oklahoma, 1:30 p.m.
April 13: Baseball: UMC vs. Oklahoma, 1 p.m.
April 16: Baseball: UMC vs. St. Louis U., 1:30 p.m.

CONCERTS, PLAYS

April 3-5: University Opera Production, "Cosi Fan Tutte"—Hall Theatre—7:30 p.m.
April 4: UMC Dancers in Concert, 8:15 p.m., Jesse Auditorium, Admission—$1.
April 9: Midwest Woodwind Trio Concert—Richard Hills, Barbara Wood, Steve Geibel—Recital Hall—8:15 p.m.
April 10: Faculty Recital — Carleton Spotts, cello and Richard Morris, piano—Recital Hall—8:15 p.m.
April 14: Student Recital — Janice Boggs, soprano Recital Hall—8:15 p.m.
April 15: Student Recital—Ted Piechocinski, saxophone—Recital Hall—8:15 p.m.
April 16: Choral Organizations Concert — Recital Hall—8:15 p.m.
April 17: Faculty Recital—Robert Collett, tenor Recital Hall—8:15 p.m.

DEADLINES, OTHER EVENTS

April 3: International Coffee Hour: "Sexual Relations in Different Cultures," 3:30 p.m., Union N222.
April 6: Mo. Council for Teachers of Mathematics. Memorial Union.
April 6: 18th Annual Missouri Drill Meet; Hearnes Multipurpose Building. Sponsored by the Department of Military Science featuring 30 high school and college drill teams.
April 9: Aero Tigers Meeting: 7:30 p.m., Memorial Union. All faculty, staff, students, alumni and their immediate families interested in flying or learning to fly are invited.
April 11-April 14: Sho-Me: 3 day sightseeing trip to Chicago.
April 13: All-State Youth Horsemanship Clinic, UMC Livestock Center. Admission, $1.50.
April 16-20 Carousel Nite Club, Memorial Union Large Ballroom.
April 17-21: Ice Capades at Hearnes. 8 p.m., April 17-20; matinees at 2 p.m., April 20, 21. $5, $4, $3. Mail orders, Ice Capades, Box F, Columbia.

FILMS, EXHIBITS

April 2-30: The department of housing and interior design's annual spring student show will be held in Stanley Hall Gallery. Stanley Hall Gallery is open from 8 a.m. to 5 p.m. Monday through Friday.
April 5: Marx Brothers Animal Crackers—7, 9, & 11 p.m.—Middlebush Aditorium.
April 6: Cabaret—8 p.m.—Jesse Auditorium.
April 7: Early Spring by Yasujiro Ozu—8 p.m.—Middlebush Auditorium.
April 7-30: Art department's annual student show—Fine Arts Gallery—9 a.m. to 3 p.m., Monday-Friday; 2 p.m. to 4 p.m., Sunday. Free.
April 9: Gods and the Dead by Guy Guerra—7:30 p.m.—Middlebush Auditorium.
April 16: Riot in Cell Block 11 by Don Siege.

LECTURERS, SPEAKERS

April 3: Lecture: "Chemical Communication in Mammals—the State of the Art," by Dr. D. Muller-Schwarze, department of forest zoology at State University of New York, Syracuse, 3:40 p.m.
April 4: Angela Davis, 8 p.m.—Hearnes Aud.
April 5: Journalism banquet—Speaker—Senator Sam Ervin—Rothwell Gymnasium—Tickets $7.50 per person, on sale in Room 205 Neff Hall.
April 10: Lecture: "Hormonal Control of Insect Behavior," by Dr. J. W. Truman, department of zoology at University of Washington. 3:40 p.m., Memorial Union Auditorium. Free.
April 10: Archaeological Lecture: Professor Hector Williams, University of British Columbia, Vancouver, will speak on "Recent Excavations at Roman Anemurium (Turkey), 8 p.m., Room 120 Physics.
April 15: University Assembly Lecture—"Biological Rhythms of Birds," Room 2-6 Agriculture Building, 2:40, 3:30 p.m., Dr. Wilbor W. Wilson, Department of Avian Science, University of California, Davis.

Faculty Council Minutes

(Continued from Page 10)

There are a number of other questions that can be raised:

Whether the cost-benefit indices used in deciding on the initiation of new programs included the necessary capital improvements and other expenditures needed to inaugurate a sound academic program.

Whether "assumption" No. 2 on page 5 dealing with funding of Part One programs means that existing programs will receive their normal funding before funds are allocated to the expansion or initiation of Part One programs.

Whether the "assumption" No. 6 on page 5 is consistent with the understanding regarding the role of the University-wide doctoral faculty previously announced.

Whether the emphasis on the use of "technological assistance" in education is based upon sound academic considerations or upon the superficial attractiveness of expensive communications systems.

Whether the four campuses are following the same procedure for an academic plan. If they are not, the final product may not be a sound plan.

There are also any number of specific complaints about specific programs that could be raised. We expect that many of these will be raised by communications from individual divisions and departments. We merely wish to emphasize that the Tentative Version of the University Academic Plan ignores the interdependence and interrelations of existing academic programs and indicates a weakening of the academic program to achieve unexplained purposes.

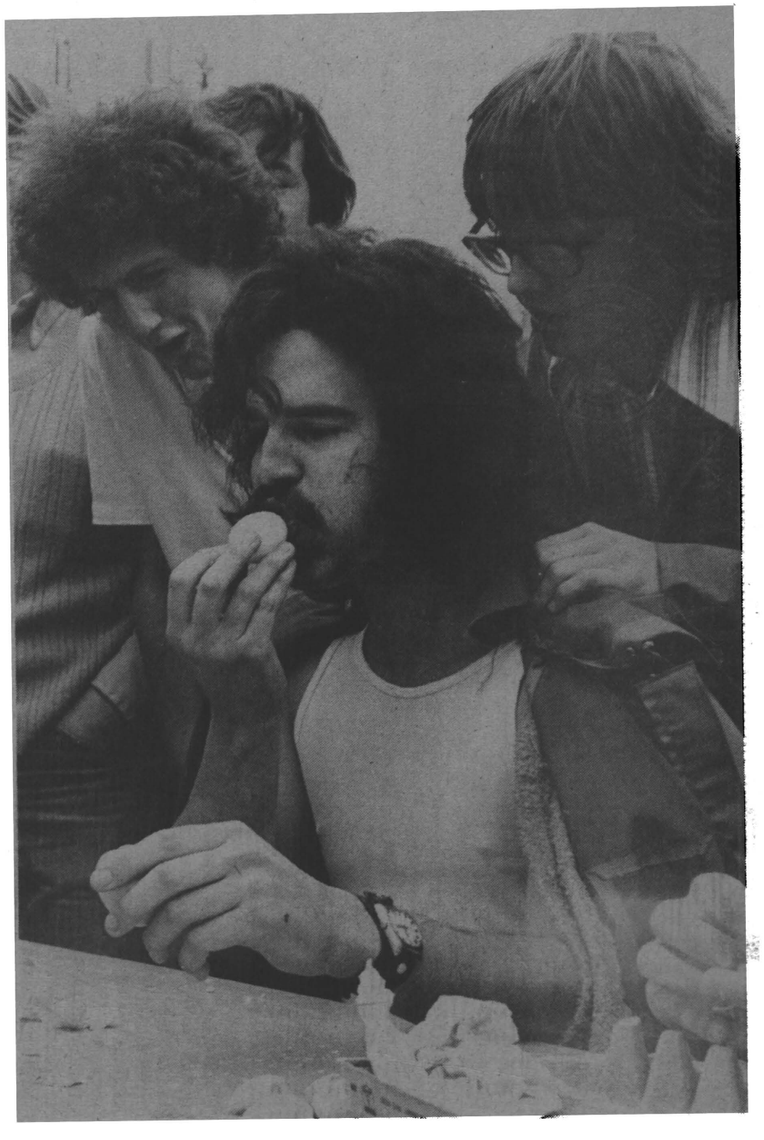
We hope our fears are unjustified, and we wish you continued success in your efforts to arrive at a sound University Academic Plan.

This Issue

	Page
Faculty Council Minutes	10
General Faculty Minutes	8
Graduate School and Research Notes	9
Faculty Footnotes	9
Calendar	Back Page

faculty BULLETIN

Vol. 9, No. 8 April 3, 1974



Is this any better than swallowing goldfish? George Jost, a junior biology major, put down 21 eggs in 10 minutes during the Maneater's eggs-citing contest Friday. But that wasn't good enough as he lost in a four-egg runoff to Hugh Stone, a journalism major.

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 9 May 1, 1974

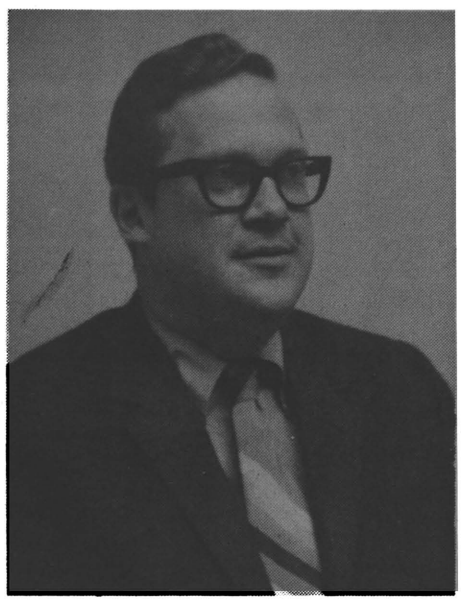
Wallace Appointed To Grad School Post

Richard L. Wallace, associate professor of economics and community health and medical practice at UMC, will become associate dean for administration, social sciences and fellowships of the UMC Graduate School effective Sept. 1, Chancellor Herbert W. Schooling announced today.

Wallace, currently an assistant dean for research in the College of Administration and Public Affairs, will succeed Associate Dean Donald K. Anderson who had requested a return to teaching and research as professor of English.

Graduate Dean Lloyd E. Berry said that Wallace will assist Associate Dean X. J. Musacchia with social science research programs in addition to working with fellowships and general administration.

Berry said that Wallace, as other associate deans, will be an administrator on a 75-25 basis, devoting at least one-fourth time to teaching and research.



RICHARD L. WALLACE

Wallace, graduate of Northwestern and Vanderbilt universities, came to UMC in 1966 after teaching for five years at Florida State University. His initial title was assistant professor of community health and medical practice and economics. He moved into administrative channels as chairman of the economics department in 1967.

His research and publications have been in the fields of economics and public health, including hospital costs, effects of medicare on patterns of hospital use, and optimal nursing assignments. He is a member of the Governor's Advisory Council for Comprehensive Health Planning.

Artist Benton To Speak Here

Artist Thomas Hart Benton has been named the first distinguished Thomas Jefferson Visiting Professor to the University of Missouri and will speak at the third annual Jefferson Club dinner here May 17.

The visiting professorship was established in 1973 whith a sum of $50,000 from unrestricted gifts through the Development Fund. The club is composed of some 110 individuals who have contributed more than $3 million to the institution.

Benton, 85, is still active in his field. He created the murals for the State Capitol in Jefferson City and the Harry S Truman library at Independence. He recently completed a mural, "Joplin at the Turn of the Century, 1896-1906," and is at work on an historical mural relating to country music that will hang at Nashville, Tenn.

The artist was given an honorary degree of Doctor of Fine Arts by the University in 1949.

The dinner, to be served at the Ramada Inn, will be for members of the Jefferson Club and three groups concerned with gift-giving to the University. Directors of the Development Fund, Jefferson Club trustees, and members of the Annual Giving Committee, Deferred Gift Committee and various campaign committees will be holding their spring meeting May 17-18.

Curators Schedule Hearings On Tentative Academic Plan

Faculty and student representatives on each of the four University of Missouri campuses will have an opportunity to comment on the tentative academic plan during open hearings scheduled by a Board of Curators committee.

The hearing at UMC will be held at 1:30 p.m. May 9 in the small ballroom of the Memorial Union.

The University academic plan, now in its second tentative version, will guide the University for the next decade. Development of the academic plan is part of a total reappraisal of the University now under way.

The Academic Affairs Committee of the Board of Curators will also hold hearings at the University of Missouri-Kansas City May 7 and at the University of Missouri-St. Louis and the University of Missouri-Rolla May 8.

Faculty and student representatives will make presentations, followed by comment and discussion from the audience.

The committee is inviting faculty and students who want to file written statements to do so at the time of the hearing.

The results of the hearings will be available through the committee both to the Board of Curators and to UM President C. Brice Ratchford. After the hearings, President Ratchford will prepare his recommendations to the Curators on the academic plan. He is expected to do so in mid-May.

Copies of the first and second tentative academic plans have been sent to each member of the University faculty. Each version has been reviewed by faculty and administrative groups on the four campuses, with suggestions forwarded to the University Academic Planning Council. The council is composed of the four chancellors and the four University vice presidents concerned with academic matters.

The hearings are another means for providing input on development of the final academic plan, along with recommendations by the Academic Planning Council.

The chairman of the Academic Affairs Committee is William C. Myers Jr., Webb City attorney. Other committee members are Mrs. William C. Tucker, Warrensburg publisher, and Howard B. Woods, St. Louis publisher. Others on the nine-member board may participate in some of the hearings.

Plans Announced for May 11 Commencement

William Wallace Scott, graduate of the University of Missouri who has been urologist in charge at Johns Hopkins Hospital since 1946, will receive an honorary degree of doctor of science at the 132nd annual commencement of UMC at 3 p.m. May 11 at the Hearnes Multipurpose Building.

Scott, native of Kansas City, was graduated with a bachelor of arts degree at UMC in 1934 and took his Ph.D. and M.D. degrees at the University of Chicago. He taught at Chicago from 1943 until he joined the Johns Hopkins faculty.

President C. Brice Ratchford will confer degrees upon some 4,200 members of the graduating class as they are recommended to him by Chancellor Herbert W. Schooling. Ratchford and Schooling will present brief remarks.

In addition to the exercises at which degrees will be conferred, a number of pre-commencement programs are planned by the various divisions, many of them with speakers.

The Graduate School will present State Senator Larry Marshall as speaker at a program at 12:30 p.m. May 11 at the Livestock Pavilion at which Ph.D.s will be hooded and individual recognition given to each master's candidate. The 16 students selected for Gregory and Graduate School $1,000 fellowships will be recognized. Greetings will be extended by Marc de Chazal, president of the Graduate Faculty Senate, and Jacky Pace, president of the Graduate Students' Association. Dean Lloyd E. Berry will preside, and will be assisted in the hooding ceremony by the three associate graduate deans, Donald K. Anderson, X. J. Musacchia, and Andrew C. Minor.

The College of Administration and Public Affairs will have an outdoor pre-commencement at 10 a.m. on Francis Quadrangle, followed by a reception at 208-209 Brady Commons. A speaker is to be announced. In case of rain, the program will move to Middlebush Auditorium.

Congressman Jerry Litton will be the speaker at the College of Agriculture convocation at 9:30 a.m. May 11 at the Livestock Center. Litton is a graduate of UMC and was an extensive livestock farmer in north Missouri.

The College of Education will honor its undergraduate and graduate class members with a reception from 10-11:30 May 11 at the large ballroom at Memorial Union.

Engineering students, who administer the pre-commencement program of that division, will offer Lester C. Webb of Black & Veatch Consulting Engineers in Kansas City, as speaker in ceremonies at 7 p.m. May 10 in Jesse Auditorium. A reception for students, faculty, graduating seniors, relatives and guests will follow at Memorial Union rooms 201-202.

The School of Forestry, Fisheries and Wildlife will hold a spring ceremony at 7:30 p.m. May 4 at Memorial Union auditorium. Osal B. Capps, Missouri state forester, will be the speaker. A reception in the Alumni Lounge will follow, with faculty wives serving coffee and lunch.

Dean Margaret Mangel will give the talk at the first pre-commencement of the College of Home Economics since it attained college status. The ceremony is at 9:30 p.m., May 11 at Memorial Union auditorium. Graduating seniors, home economics graduate students, their parents and friends are invited. An informal reception in Gwynn Hall lounge will follow.

The School of Journalism plans a program at 11 a.m. May 11 on the campus in front of its building, but the speaker has not been announced. A picnic will follow the program.

The School of Law will hold its convocation ceremony at 12:45 p.m. May 11 in Jesse Auditorium, with John Hall Dalton, Kennett attorney and a member of the Board of Curators, as speaker. After the hooding ceremony, refreshments will be served on the Law School lawn.

D. Dax Taylor, a graduate and former faculty member of UMC who now is associate dean of medicine at Southern Illinois University, will be the speaker for the School of Medicine program at 10:30 a.m. May 11 in Jesse Auditorium. As an added event, the Senior Banquet for seniors, their families, and the faculty will take place May 10 at Ramada Inn.

The combined military departments will hold commissioning ceremonies at 1 p.m. May 11 in Rooms 201-202 Memorial Union at which Walter C. Daniel, UMC vice chancellor, will be the speaker. Students taking commissions in the Army, Navy, Air Force and Marines will be formally commissioned at the convocation.

The School of Nursing will have a pinning ceremony at 2 p.m. May 5 in Jesse Hall with William Bondeson, UMC director of general studies and professor of philosophy, the speaker. A reception at the small ballroom at Memorial Union will follow.

A pre-commencement program and reception will honor students graduating in the School of Social and Community Services at 10 a.m. May 11 in the Clark Hall Lounge. Graduates in Recreation and Park Administration, Regional and Community Affairs, and tte School of Social Work will be honored jointly.

The School of Veterinary Medicine will hold its 25th graduation ceremonies at 9:30 a.m. May 11 at the Hearnes Auditorium with Dr. John F. Quinn, president of the American Veterinary Medical Association, as the speaker. Since the graduation exercises are combined with the 25th anniversary celebration, the School is planning other events. A buffet dinner get-together for alumni, veterinarians and friends will take place May 10, while the first graduating class, that of 1950, will be especially recognized at the pre-commencement program, along with the 25th class, former deans and directors, and professors emeriti.

Five State Educators Honored

Five Missouri educators were honored at the College of Education Alumni Association Awards Banquet April 27.

Those receiving Citations of Merit for Distinguished Service to Education include B. W. Sheperd, superintendent, state schools for retarded children and extended employment sheltered workshops; Frank Heagerty, UMC professor of education; Ralph K. Watkins, UMC professor emeritus of education; Hoyt H. London, UMC professor emeritus of industrial education and Grace Gardner, professor of education and supervisor of social sciences, Southwest Missouri State University.

Sheperd was cited as a "pioneer in education for the severely mentally retarded." He was the first director of the state board of education's program to establish schools for the trainable mentally retarded.

Heagerty, who joined the UMC faculty in 1958, has served as a classroom teacher, principal, superintendent of schools as well as UMC professor of education. He was recognized as ". . . a loyal and devoted worker for high quality public schools."

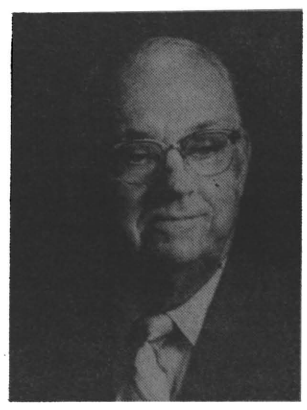
Watkins, who has been a UMC professor for 48 years, was cited for his ". . . contributions to the profession on local, state and national levels." He is the author of four science textbooks.

London was recognized as an "extraordinary leader in industrial and vocational education." He joined the UMC faculty in 1938 and has published approximately 50 works including a textbook in the area of vocational guidance.

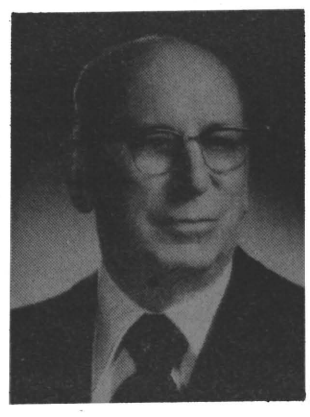
Ms. Gardner, who received both an M.A. and doctorate of education at UMC, was recognized as ". . . an enthusiastic and dedicated supervisor." She has received many honors including the Missouri State Delta Kappa Gamma Scholarship.

The educators were selected by a nine-member committee appointed by the president of the education alumni association which has more than 2,000 active members. The committee included five education alumni and four faculty members.

Heagerty addressed the banquet on "We Live in a Reasonable, Logical and Predicable World." Awards were presented by Bob G. Woods, dean of the UMC College of Education.

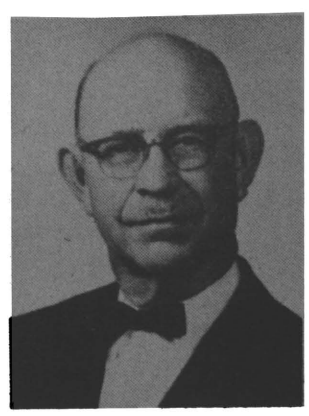


B. W. Sheperd



Frank Heagerty

Ralph K. Watkins



Hoyt H. London

Grace Gardner

Conference Scheduled On Trace Substances

How are zinc and copper in milk associated with deaths due to coronary heart disease?

Does hard water really help protect against heart disease?

Why should milk, in addition to air and water, be monitored regularly for pollution detection?

These topics — and numerous others of potentially vital interest to both lay persons and the scientific community — will be discussed during the Eighth Annual Conference on Trace Substances in Environmental Health.

Scheduled for June 11-13 in the Memorial Union, the conference is an international pioneer within its field. It is supported by the RANN program of the National Science Foundation.

Minute amounts — traces — of certain elements are necessary to normal plant and animal life processes. Above or below certain levels, however, these trace substances can cause problems for the environment and for the health of plant and animal life.

At the conference, papers dealing with epidemiology, environmental geochemistry and health, environmental pollution, health effects of trace substances and analytical methodology will be presented by scientists representing 15 states. Researchers from England, Canada, New Zealand, Japan and the U.S.S.R. will also participate.

Delbert Hemphill, program director of the Environmental Trace Substances Center, is in charge of the conference.

Green Appointed To Vet School Faculty

Robert A. Green has been appointed associate professor of veterinary pathology, School of Veterinary Medicine, beginning May 15.

Green is presently an assistant professor of pathology at Oklahoma State University. He was previously at the University of California — Davis as a post doctoral fellow in clinical pathology and a special fellow in hematology.

He received a DVM from Colorado State University and a Ph.D. from the University of California — Davis.

Readers Digest Features Museum of Art, Archaeology

The Museum of Art and Archaeology received feature coverage in a full page, including five color photos of objects in its collections, in the new Redears Digest book, "Treasures of America and Where to Find Them."

Among more than 1,700 entries in the volume, the Museum is the only university museum so featured.

The descriptive material states: "Like hundreds of university museums across the country, the Museum of Art and Archaeology has grown rapidly in size and importance as Americans have become increasingly more interested in art. What began as a small campus-study collection in 1957 became a bona fide museum collection in 1961. . . In a relatively short time the museum has become a valuable research institution and an enriching cultural asset."

Illustrated are such varied objects as a Mayan terracotta figurine of about 800 A. D., a Hellenistic bronze lion, a Roman green-glazed head vase of a young girl, the painting River Scene with Castle by Jan van Goyen, dated 1637, and an 18th century wood polychrome statue of St. Constantine from Bohemia.

The Art Gallery of the State Historical Society of Missouri is the other Columbia museum mentioned in the guide.

The Museum of Art and Archaeology, located on the fourth floor of the Ellis Library, is open seven days a week from 2-5 p.m., except on those holidays when the library is closed. Guided tours at these and other hours may be arranged in advance.

Prof Wins Award

The 1974 Thomas Jefferson award of the University of Missouri was presented to Norman N. Royall Jr., a mathematics professor at the Kansas City campus, April 23.

The award includes a citation and interest accrued from a $10,000 gift of the Robert Earll McConnell Foundation.

Prof Studies Pollution Control Cost

How top corporations handle social costs and benefits of pollution control is the subject of a recent survey by George W. Trivoli, associate professor of finance at UMC.

Trivoli queried the 250 firms at the top of the Fortune magazine list of large corporations.

He presented the results of the study, funded by a grant from the University of Missouri Research Council, at the April Midwest Finance Association meeting in Chicago.

Of the 85 companies responding to Trivoli's questionnaire, nearly half indicated a desire for a quantitative approach to estimating social costs and benefits of capital investments in pollution control. The majority of firms have integrated this decision-making process into their normal capital budgeting procedures.

Conclusions in the study are drawn from responses of 53 corporations in eight industry groups most directly affected by anti-pollution regulations: chemicals, primary metals, petroleum and coal, pulp and paper, rubber, tobacco, machinery and electrical machinery.

These industry groups account for more than half of the three-fold increase in pollution control expenditures between 1967 and 1972. Investments by metals and petroleum companies quintupled during the five year period, while paper manufacturers increased investment by eight times from 1971 to 1973.

Only 40 percent of the firms in these highly impacted industries, however, indicated attempts to make estimates of the social costs and benefits of anti-pollution investments. Most financial officers say they use an "intuitive" approach to the decision.

The study indicates firms tend to use profit-oriented techniques in evaluating pollution control investments. Trivoli believes an inherent difficulty exists in the use of these techniques to treat losing or social benefit investments.

Firms making anti-pollution investment decisions only if justifiable on a profitability basis slightly outnumbered those firms which made the investments despite negative return if the expenditure is required to meet a state or federal statute.

Trivoli found that as pollution control expenditures rise as a percentage of total capital outlay, especially beyond the 20 percent level, firms tend to use more sophisticated evaluation techniques to make investment decisions. Still, only a minority of sampled firms use tools such as net present value or internal rate of return to evaluate anti-pollution investments.

The U. S. Department of Commerce has expressed interest in the research. As a sequel to the study, Trivoli is developing a computer-based approach to evaluate social benefits of pollution control investments.

Trivoli, who advocates analysis of social return in the business environment, came to CAPA this year from the University of Akron, Ohio.

Author of a casebook, "Business Issues and the Environment," Trivoli is a consultant with General Motors and a contributor to the Harvard case series, recently completing a study of non-profit organizations. He has been invited to set up an executive development program in finance for the state of Missouri.

Trivoli has an advanced degree from Duquesne University and a doctorate in economics from the University of Virginia.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 114 Jesse, or to the Office of Public Information, 223 Jesse, 882-6211.

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Kellogg Funds Nontraditional Ag Program

A five-year grant totaling $150,852 to develop a nontraditional study program in agriculture has been awarded to UMC by the W. K. Kellogg Foundation, Battle Creek, Mich.

The College of Agriculture, in cooperation with the Extension Division, is administering the program, which is the first of its kind in agriculture in the nation, according to John C. Snider, program director.

"The nontraditional study program is being planned for those who have special needs in agriculture and higher education," Snider said.

"Mature, self-directed persons needing nontraditional options for study toward a bachelor's degree in agriculture are the prime candidates for the program."

The College of Agriculture began implementing the program on a pilot basis in a 13-county area of northwest Missouri. Initial planning for the program began in 1972, and first applications were distributed in March, 1974.

Snider said he anticipates first enrollments by June, 1974, with the help of the Kellogg grant.

"The program is mainly for those who have major farm, business, or family concerns which would make it difficult for them to move to the Columbia campus for two or three years to complete a degree in agriculture," he said.

Candidates for admission to he new program are expected to have completed at least 30 semester hours in higher education, but, according to Snider, "certain relevant life experiences may be equivalent to formal study and will be considered."

Credit may also be earned by examination or through CLEP (College Level Examination Program).

"Fees for the nontraditional program students will be comparable to those paid by traditional program students," Snider said. "In association with the University, the Kellogg Foundation is providing additonal funds to assist in initiating this 'first' in agriculture.

"Their assistance will allow for innovation in areas where fixed or traditional budgets currently lack flexibility," he said.

The W. K. Kellogg Foundation, among the 10 largest philanthropical organizations in the United States, supports educational programs in the fields of agriculture, education, and health.

The Foundation is currently supporting a number of pilot programs in the area of nontraditional educational opportunities. However, this is the first in the field of agriculture.

Dugan Appointed Broadcast Chairman

W. David Dugan Jr. has been appointed chairman of the journalism-broadcasting department in the School of Journalism and W. Theodore Eldredge has been appointed as Dugan's successor as general manager of FM radio station KBIA.

The changes, effective May 13, were announced by UMC Chancellor Herbert W. Schooling.

Dugan will succeed Edward C. Lambert who will return to full-time teaching and will work with strengthening graduate programs and research in broadcasting, according to Journalism School Dean Roy Fisher.

Eldredge's duties as program manager at KBIA will be assumed by expanding duties of other members of the station's staff.

Dugan joined the UMC staff in January, 1972, to supervise final operational planning of the FM broadcast operations. He previously had spent 20 years in the broadcasting field, as salesman and broadcaster at WESB at Bradford, Pa., and sportscaster and television director at WICU-TV at Erie, Pa., and from 1957 as a member of the Columbia Broadcasting System staff where he was a news correspondent, on-camera reporter and anchorman.

He was co-anchorman and reporter for "This is New York," a show which won a Peabody Award. Dugan later was executive producer for the Public Broadcast Laboratory of National Education Television in New York and was a senior faculty member in the summer broadcast journalism program for minority students at Columbia University. His degrees are from Dartmouth College and St. Bonaventure University.

Eldredge's appointment was recommended to Chancellor Schooling by the Broadcast Media Board as promotion from his present duties. He joined the UMC staff in 1971 as a graduate teaching assistant in speech and dramatic arts, was appointed program coordinator of KBIA in 1972, and promoted a year later to program manager.

He previously was staff announcer and program director of KWOS in Jefferson City and from 1954 to 1965 worked at various radio stations in the eastern United States in programming, promotion, announcing, news and public affairs and sales. He was graduated cum laude in education at Lincoln University and took a master's in speech at UMC in 1972.

Carolla Receives Fellowship From American Cancer Society

Robert L. Carolla, assistant professor of internal medicine at UMC, has been awarded a Junior Faculty Clinical Fellowship by the American Cancer Society.

His work will deal with granulocyte collection — the "harvesting" of white blood cells — for transfusion into patients with leukemia. Patients with this usually fatal disease of the bone marrow are often affected by low white cell counts, increased by extensive chemotherapy treatments.

White blood cells can be obtained from normal blood donors and separated from the plasma for infusion to the leukemia patient. (The red blood cells are returned to the donor, whose body readily manufactures more white cells.) White cells help fight off infections, a great danger to patients with low resistance, Carolla explains.

In evaluating young candidates for the fellowships, the Cancer Society places emphasis not only on the qualifications of individuals but also on the ability of their institutions to provide training, according to Sidney L. Arje, vice president of the Society for Professional Education.

The UMC Medical Center was deemed to have an outstanding training program in cancer plus exceptional facilities and personnel, Arje said.

Carolla will receive salary support from the fellowship grant for a one-year period beginning July 1 and may apply for continuation of the fellowship for two additional years.

A graduate of Ohio State University, Carolla, 31, completed an internship at Duke University and his first year of residency training at the UMC Medical Center. He spent the next two years at the National Cancer Institute in Bethesda, Md., then returned to Missouri to be chief resident in internal medicine last year.

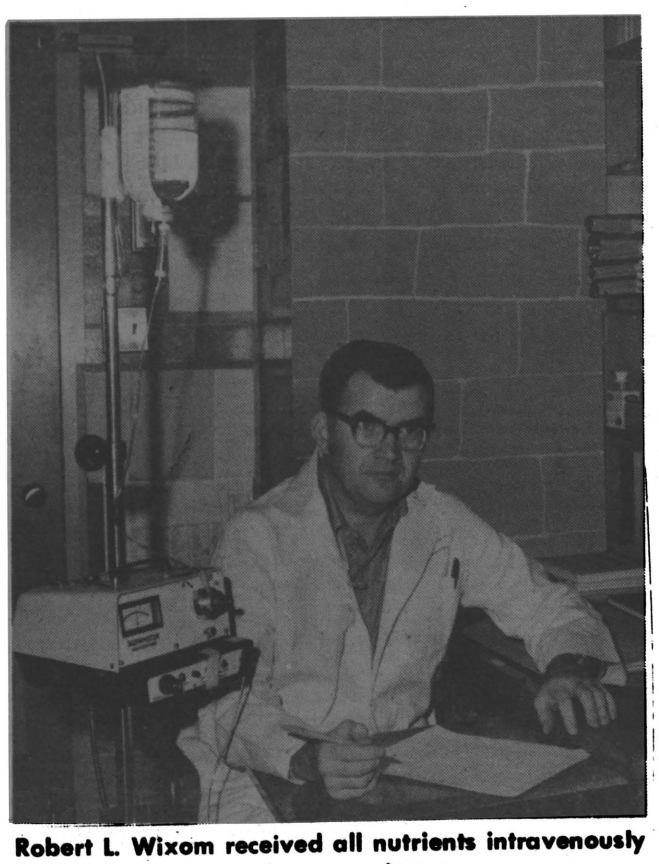
He has been conducting cancer research under an institutional grant from the American Cancer Society and another grant from the Southern Medical Association.

Deputy Auditor Named

A former assistant professor at UMC has been appointed deputy auditor for the State of Missouri. James F. Antonio was named to the post by State Auditor John D. Ashcroft.

Antonio was an assistant professor at UMC from 1966 to 1970, after receiving his doctorate in accounting from the University of Illinois. He was one of 12 faculty recipients of the Faculty-Alumni Award for Outstanding Contribution to the University of Missouri in 1970.

Wixom Was 'Guinea Pig' in Nutrition Study



Robert L. Wixom received all nutrients intravenously for 48 days as part of an experiment.

Robert L. Wixom, professor of biochemistry at the UMC Medical Center, was his own "guinea pig" in an experiment which provided all his nutrients by intravenous (IV) feedings for 48 days.

The study has provided basic information on the components needed for long-term IV feedings, as well as a new delivery method for them. The intravenous means of feeding through a vein is used when feeding by mouth is difficult — for example, patients with severe burns, intestinal diseases, cancer or kidney disease.

To test metabolic responses to intravenous, histidine-free intake and to learn whether histidine is essential to the human body, Wixom was on a constant oral diet for two weeks then changed to a continuous liquid diet delivered via a vein under his collarbone for 48 days.

A sterile plastic tube carried the eighth essential amino acids and other nutrients through the blood vessels directly to a large vein near the heart. Amino acids serve as "building blocks" for the proteins in all tissues of the body.

Wixom remained mobile by having a bottle of IV fluid attached to a portable stand with a battery-operated pump which could be moved with him. Thus he was able to maintain his regular activities at the Medical Center — teaching students, conducting research and his other usual functions as a faculty member.

During the day he was in his office or laboratory, but in the evening he returned to the Clinical Research Center — his home base for the 72-day experiment.

Biochemical measurements indicated essentially normal function of the liver, kidney, pancreas, bone marrow and the adrenal cortex during the control period and a 27-day histidine-deficient period.

On a few occasions the physician watching over Wixom's care allowed him to carry his intravenous hook-up to his home for a few hours. However, he had to have nearly constant checks by the nursing staff and two new bottles of IV fluids per day.

His Thanksgiving, Christmas and New Year's dinner were the same "menu" as the other 45 days of experiment — 14 amino acids, 10 grams of nitrogen and 2600 calories, plus vitamins, electrolytes and trace elements. Even so, his body weight remained constant.

The investigators concluded that man can exist for long periods with intravenous alimentation without the interactions of the gastro-intestinal tract on food taken by mouth.

The experiment findings contributed to three interdisciplinary research papers on the role of two amino acids — histidine and arginine — which were presented at the annual meeting of the Federation of American Society for Experimental Biology in Atlantic City by Wixom and faculty members, Helen L. Anderson, associate professor of human nutrition; Boyd E. Terry, associate professor of surgery; and David Y. B. Sheng, biochemistry research assistant.

UMC Art Professor Once Produced Movie

Eric Rutherford is known locally as an artist. Few perhaps know that the associate professor of art was once a movie producer.

In the 1940s, Hollywood's gangster fare was the only movie entertainment available to blacks, who had migrated from the hinterlands to South African cities.

At that time, a British actor, Eric Rutherford, made the first African musical film using black actors and aimed at a black audience. That film, "Jim Comes to Joh'burg," has recently been added to the Film Library at UMC.

At age 16, the Scot-born Rutherford trained briefly for the Royal Navy before joining Britain's prestigious Royal Academy of Dramatic Art. Shortly thereafter, he found a job acting and launched a theater and film career which took him to Continental Europe and Africa.

In 1948 while playing a lead in a J. Arthur Rank production in South Africa, Rutherford conceived of the all-African film and interested other members of the cast in the unprecedented project. The partners were aware of the "shocking" conditions under which the blacks were working and the unhealthy atmosphere created by films of violence to which they were constantly exposed.

Rutherford and friends scraped together $12,000 — about one-tenth the cost of a feature-length film, but the partnership was short on managerial experience and found itself the target of sharpsters interested in cashing in on the movie's novel prospects.

"I hadn't envisioned myself an executive producer," says Rutherford, "but it was a brutal, ruthless world. I soon realized my family interests were going to be seized unless I assumed firmer control."

Differences of opinion with the group itself hampered the production. The director favored casting Africans with more "European" features; Rutherford, on the other hand, insisted the principles should be characteristically African in features and dress.

A shy Bantu girl named Dolly Rathebe, who had been hovering in the background during casting, "lit up" before the camera, says Rutherford, and became leading lady to Jim, played by African schoolmaster Daniel Adnewmah.

"Jim" is the story of a young Swaziland native who comes to Johannesburg to make his fortune. He is robbed by three scoundrels and subsequently befriended by a nightwatchman, who finds him a job as a garden boy. Failing at this, Jim meets Judy (Dolly) and they embark upon careers as entertainers.

The film's musical life centers about a nightclub where African performers sing, dance and perform comic routines.

"African talent," says Rutherford, "had not been developed at that time. There was no dramatic tradition upon which to draw. The music they played was an imitative rehashing of jazz."

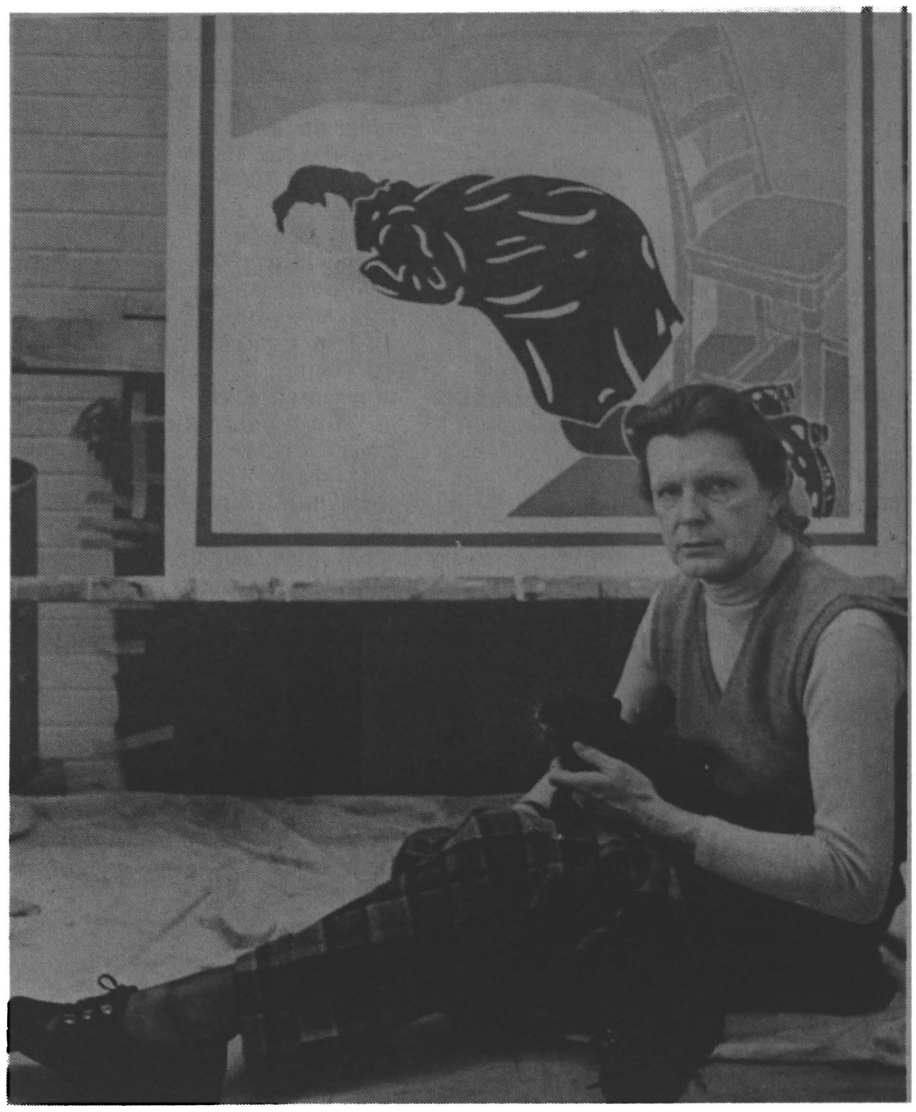
The producer also became worried because his performers appeared to have no idea of copyright and were liable to improvise tunes, which were legally off-limits. Rutherford called in a music expert to advise.

In spite of the inherent handicaps of such an undertaking, the film was shot in four weeks.

"Jim" had its first showing in Pretoria where it packed the Empire Theatre with a non-European audience. A newspaper account of the premiere described he native audience as particularly delighted by the film's Keystone Cops sequence where Jim helps apprehend the crooks who first robbed him.

The filmmakers donated the first night's proceeds to the Society for Non-Europeans.

Although the film was a popular success,it experienced distribution problems. Rutherford, having kept the 16 mm rights, took it "on the road" in mobile vans showing it in town halls throughout South Africa. The film lost money eventually and, in an effort to recoup losses, Rutherford took it to England under the title of "African Jim." It was not well-received.



Eric Rutherford in his art studio

Although the film did not succeed in establishing an on-going African film industry, it changed, in Rutherford's words, "the whole history of the black African entertainer." Dolly Rathebe became a well-known recording star and, for the first time, black musicians began playing in white nightclubs. The movie maker's insistance upon African dress lent dignity in South Africa to the contemporary "Afro" look. Rutherford also claims that "Jim" gave impetus to the film version of Alan Paton's "Cry, The Beloved Country."

"Jim," which is in England's National Archives and the New York Museum of Modern Art, was entered in the University's Film Library along with a short poetic documentary by Rutherford called "The Lake."

Rutherford recently received a research grant to make another experimental film using dancers to study the relationship of color and movement.

Prof Writes Law Volume

William F. Fratcher, R. B. Price Distinguished Professor of Law at UMC, is the author of a pioneering work on the comparative law of trust, published at Tuebingen, The Hague and Paris. Research for this study was conducted in the Bodleian Law Library at Oxford University in England.

Published initially as a separate volume, the work will form part of the International Encylcopedia of Comparative Law, which is being published under the auspices of the International Association of Legal Science, a UNESCO organization. The volume has been sponsored financially by the Alfried Krupp von Bohlen und Halbach Stiftung of Essen, Germany.

Prof. Fratcher's work traces the development of the trust device in mediaeval England and describes its current operation in England, Canada, Australia, the United States and other countries which have received English law. It explains the peculiar status of the trust in those countries which have accepted it without receiving other parts of English law, including Scotland, South Africa, Rhodesia, Sri Lanka (Ceylon), Quebec and some Latin-American countries.

The volume treats in detail the devices used to perform the functions of the trust in countries where it is not recognized, including the WAKF of Islamic law.

News & Notes

To recognize the many contributions of the veterinary medical profession to the well-being of the residents of Missouri and their livestock and pets, May 6-11 has been designated as "Veterinary Medicine Week in Missouri" by Governor "Kit" Bond.

During this week, UMC will celebrate the graduation of the 25th class of veterinarians from the School of Veterinary Medicine. With the 59 students to graduate May 11, the number of veterinarians trained at the University will be 866.

Because of the expanding role veterinarians are playing in animal and human health, the demand is always greater than the supply of veterinarians. Close to 1,400 graduates will join the professional ranks this spring, graduating from 18 schools and colleges in the U. S. Plans for four new veterinary medical schools are underway now, but even with the increased numbers from those schools, a shortage of over 5,000 veterinarians is expected by 1980.

More than half of the some 28,000 veterinarians are in private practice treating livestock and pets. The number of small animal practitioners has exploded in the past decade indicating that veterinary medicine is important in the urban areas as well as the rural areas of the country. Specialized practices are also increasing in number.

Veterinarians also work in Federal, State and local governments inspecting food, enforcing health regulations and controlling and preventing diseases.

Another group of veterinarians are employed by industry. Drug and pharmaceutical companies, livestock and pet food companies, commercial feedlots and the horse racing industry find a special need for the knowledge and training of veterinarians.

Universities employ a number of veterinarians as teachers of future veterinarians and as research scientists.

★ ★ ★

A former UMC faculty member has been awarded the annual N. T. Veatch Award for Distinguished Research and Creative Activity at UMKC. The winner is Robin Humphrey, who taught on the UMC campus from 1956 to 1966.

Miss Humphrey is associate professor of theatre and artist-in-residence at UMKC, where she has worked since 1966. In announcing the award, UMKC officials said she is "known both for her teaching expertise and her performing skills." She has appeared in such Broadway productions as Pygmalion, Playboy of the Western World and Eastward in Eden.

The award is named for N. T. Veatch, managing partner of the engineering firm of Black & Veatch, whose endowment fund to UMKC provides for the $1,000 annual award.

★ ★ ★

An effort is being made to provide an exchange of ideas and staff between the UMC department of atmospheric science and the meteorology group at St. Louis University.

The initial step was made recently when the director of the program at St. Louis University, Donald Martin, visited UMC. While on campus, Martin gave a series of lectures to students and staff on the scientific basis of weather forecasting.

"We anticipate that there'll be an opportunity for our staff to interact in the same manner on their campus," Wayne L. Decker, professor and chairman of atmospheric science at UMC, said.

According to Decker, St. Louis University was chosen for the exchange program because it is the only other institution in the state with a complete meteorology program.

★ ★ ★

Two rapid reading short courses will be offered by UMC as evening classes meeting weekly for eight weeks beginning in June.

One section will meet at 7 p.m. June 11 and the other at the same hour June 12, both in Room 2-7 Agriculture, to begin the 1½ hour sessions to be conducted weekly. Preregistration will take place May 6 at the sundry counter at Memorial Union, and registration may be finalized at 6 p.m. June 11 or 12 at the Agriculture Building. A fee of $30 will be charged, and a textbook will be required.

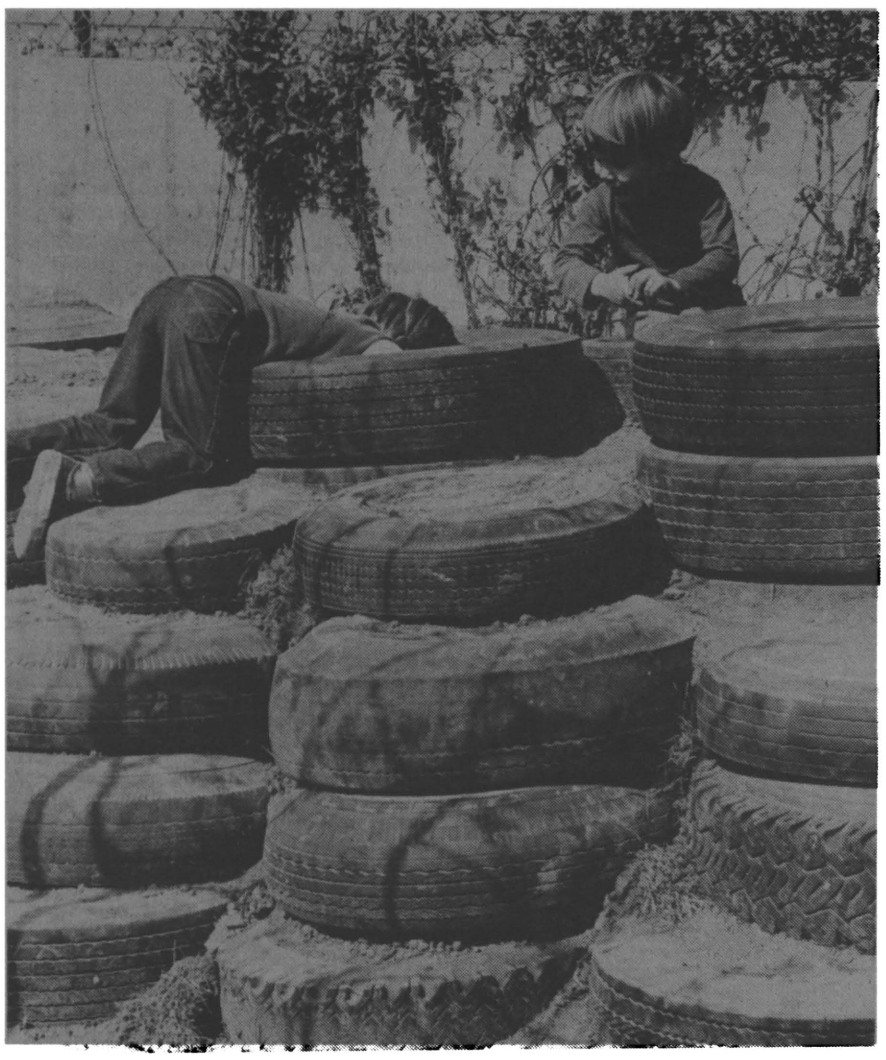
Information about the summer courses may be obtained from the counseling services at Parker Hall, 882-6601, or through Conferences and Short Courses, 349 Hearnes Building, 882-2720.

★ ★ ★

To increase public awareness of the risks and benefits of both conventional and nuclear power electric generation, a summer workshop will be held June 9-14 at UMC. Title of the workshop is "Electric Power Generation; Risks and Benefits.

Its objective is to provide junior high, senior high, and junior college teachers in Missouri and surrounding states with information that will enable them to present to their students a balanced overview of electric power generation.

The workshop is sponsored by the Division of Biomedical and Environmental Research, U. S. Atomic Energy Commission; and the College of Engineering. Walter Meyer is workshop director.



300 Tires Transform Children's Play Area

Two UMC students thought of a way to change work into child's play. Kathy Rubin and Roger Singleton have given the UMC Child Development Center play area an entire face-lifting as a "special problem" project in landscape design this semester.

With the encouragement and advice of Virginia Fisher, chairman of child and family development and Leon Snyder, associate professor of horticulture, the student pair completed the core construction of the play area last week for a total of six hours of classroom credit.

The Child Development Center, located at Stanley Hall, has an enrollment of 60 children, ranging from ages 2½ to 5. Its original play area, designed six years ago, came "before ideas had matured in terms of thinking of children's play space," Snyder explains.

"Children weren't learning the landscape from it," says Kathy.

In a "site analysis" of the area, the two students pointed out that a large amount of wasted area resulted in "dead-end space" within the playground.

The new play area is an improvement, Kathy points out, because the children will be "using the whole yard." Since Mrs. Fisher expects an additional 15 children to enroll next year, the increased play space will enable the Child Development Center to accommodate the extra load.

What distinguishes this playground from the typical children's play area is its innovative equipment. It's entirely equipped with low-cost supplies and donated materials. "It's the first time we know of that anyone has tried this," Kathy states.

At first glance a casual passerby might have mistaken the playground for a "junkyard" during the first few days of construction. The entire area was strewn with an odd assortment of cast-off materials. But, upon closer inspection, the observer could notice that the heap of junk acquired a little more form each day.

Three hundred old tires, donated by a local company, were transformed into a "tire-terrace" where the children can climb "ledges," crawl through "tunnels" and hide inside "foxholes."

The construction of the terrace began with the arrival of two dumptrucksful of tires, loaded and unloaded by students and volunteers. The tires were then drilled, bolted together and earth was rammed beneath and between them. Roger explains that "rammed earth," packed with rods and tampers, "is stronger than concrete and lasts longer."

Seven tons of rock were brought in from a local quarry. Plastic milk dispenser cases, destined to become giant building blocks, were promptly requisitioned as child-size containers in which the children could transport the rocks into the yard.

Although it wasn't immediately obvious how such articles as old airplane engine padding, chunks of firewood and old railroad ties could become part of a children's play area, Mrs. Fisher says that the use of these items was largely determined by the children themselves.

"Sometimes we just got things that looked interesting and the children found uses for them," she comments. Mrs. Fisher points out that "the various surfaces and materials give children experience with textural and sensory learning." In addition to this advantage, Snyder says "the children will develop motor skills from natural forms rather than man-made objects, such as swings and slides."

The completed landscape design of the play area includes natural vegetation transplanted from the surrounding community. For many children who have never seen a gooseberry or elderberry bush, the inclusion of such plants will add another dimension to the "naturalistic feeling" of the playground, Mrs. Fisher explains.

"We like to have less of a barrier between outdoor and indoor learning," she says. This philosophy was illustrated two weeks ago when the children planted beans, peas and corn outdoors in egg cartons. Later, the growing plants will be transplanted to a garden site within the play area. The Child Development Center will also have a crop of potatoes and onions this fall.

Two cellar-type mounds, supported by culvert structures, add to the natural terrain. Mini waterfalls and streams simulate the natural landscape, while a bright red hand pump, installed by Mrs. Fisher's husband, exposes the children to a "slow water flow" source.

But, Kathy and Roger are not finished yet. With their surplus of ideas and energy, the two plan to continue this project through next semester. If they can "sell" their campaign, the Child Development play area will be extended to the greenhouse behind it, and the greenhouse will become a discovery center.

"Our only limit is our imagination," Kathy says.

Faculty Council Minutes

March 28

Visit of Professor Bondeson and Mr. Snyder. Prof. Bondeson led a discussion concerning the Universities interest in the open university concept. Mr. Snyder described the College of Agriculture Nontraditional Study Program.

April 4

Curators meeting. Prof. Hunvald's report was distributed to the membership.

Inter-Campus Faculty Council. Professors Utz, Spencer and Daniel reported on the ICFC meeting.

Legislative authority. After discussion it was agreed that the Executive Committee will move towards the distribution of a mail ballot to determine the faculty's wishes in transfering some legislative authority to the Council as was provided for in the By-Laws recently accepted by the faculty.

Fringe Benefits. The Council has appointed a task force to make an in-depth study of faculty benefits and to develop a report for the Council which will include recommendations for improvements. The committee is specifically charged with examining the retirement plan, insurance programs and the tax shelter anuity plan but may broaden its interests to other fringe benefits at its own discretion. We request that a report be made during the 1974-75 Academic Year.

Prof. Ray Schroeder will chair the committee.

Computorization of Student Records, Prof. Utz reported on the progress made in this area. Considerable concern was expressed about this matter.

Academic Plan. The Council spent some time discussing the Tentative Version II of the Academic Plan. Prof. Miller moved, Prof. Bivens seconded, that a special committee be established to make a report to the Council concerning the Academic Plan, and that a Faculty Forum be called so that the committee can listen to faculty concerns. The motion passed by voice vote without dissent.

April 11

Academic Plan. Prof. Daniel announced that it was not possible to organize a special committee agreed upon at the April 4 meeting. Following considerable discussion a tentative draft of a reply was circulated to members. Prof. Wiecek moved, Prof. Utz seconded, that a perfected version of the reply be adopted by the Council. Motion passed by voice vote without dissent.

Inter-Campus Faculty Council Prof. Spencer reported on the activities of the Inter-Campus Faculty Council.

Student Computerized Data Bank. Considerable discussion took place concerning J. L. Saupe's letter replying to enquiries about the student data bank.

Committee Appointments. The Council approved appointments of faculty members to the Bicentennial Committee, Campus Administration Evaluation Committee, Faculty Athletic Committee and a Long Range Faculty-Student Committee on Athletic-Recreational Facilities.

Published Faculty

E. B. Hensley and **K. Y. Tsou** have published an article, "Electron Affinities of the Alkaline Earth Chaleogenides," which recently appeared in Volume 45 of the "Journal of Applied Physics." The work was done in the physics department as part of Tsou's Ph.D. dissertation.

N. G. Barrier, associate professor of history, has published two articles during the last six months: "The Congress and Nationalism in Punjab," fall issue of the "Journal of Indian History"; and "Problems of Bibliographic Control and Historiography in Indian Studies," fall issue of "The Indian Archives." While studying in London and in the Library of Congress from June through August under the auspices of an American Council of Learned Societies grant, he collected data on a forthcoming volume relating to socio-political change among Punjab Sikhs in the 19th Century.

An essay, "The Jeffersonian Republican Party," by **Noble E. Cunningham Jr.,** professor of history, has been published in the "History of U. S. Political Parties," edited by Arthur M. Schlesinger, Jr. (New York: Chelsea House — R. R. Bowker, 1973).

Konrad H. Jarausch, associate professor of history, published several articles and contributed to a special issue of the Laurentian University Review on Imperial Germany.

Charles Timberlake, associate professor of history, is the author of an article, "American 'Pilgrims' in the Soviet Union; The Karelian Fishing Cooperative of 1922-23," which appeared in Finnish translation in the December issue, 1973, of "The Finnish Historical Review" (Helsinki).

Franklyn K. Prochaska came to UMC as a visiting assistant professor of history this year. A graduate of Northwestern University, his teaching interests are in Modern English history. One article, "Thomas Paine's 'The Age of Reason' Revisited," was published last winter by the "Journal of the History of Ideas." Another article, "English State Trials in the 1970's: A Case Study," was published in November, 1973 by the "Journal of British Studies." He is currently working on a study of nineteenth-century philanthropy.

Russell Zguta, assistant professor of history, published an article entitled "Peter I's 'Most Drunken Synod of Fools and Jesters' " last spring in the "Jahrbucher Fur Geschichte Osteuropas." In November he presented a paper entitled "The Pagan Priests of Early Russia: Some New Insights" to the Central Slavic Conference in Stillwater, Okla. The paper will be published in the June, 1974 issue of the "Slavic Review." Zguta also has been awarded a grant by the National Endowment for the Humanities for tte academic year 1974-75 to begin research on a comprehensive history of Russian witchcraft to 1917.

Charles F. Mullett, professor emeritus of history, has published "Community and Communication," in "City and Society in the 18th Century." (Toronto, 1973)

Werner Deich, assistant professor of history, has published a book, "Das Goslarer Reichsvogteigeld, Staufische Burgenpolitik in Niedersachsen und auf dem Eichsfeld." (Historische Studien, H. 425) Lubeck, 1974.

Robert J. Rowland Jr., associate professor of history, has recently published "Cicero and the Greek World," in "Transactions and Proceedings of the American Philological Association," Vol. 103; "Onomastic Remarks on Roman Sardinia," in Names," Vol. 21; and "Onomasticon Sardorum Romanorum," in "Beitraege zue Namenforschung," Neue Folge, Vol. 8.

Michael Greene, assistant professor of English, has recently published a review-essay on Rossetti in the winter number of the "Georgia Review."

Douglas A. Grouws, assistant professor of mathematics education, is the author of an article entitled, "Solution Methods Used in Solving Open Sentences," which was published in the "Using Research in Teaching" section of the March issue of the "Arithmetic Teacher."

W. D. Keller, professor emeritus of geology, coauthored with W. H. Huang an article, "New Stability Diagrams of Some Phyllosilicates in the SiO2-Al2O3-K2O-H2O System," which was published in "Clays and Clay Minerals," Vol. 21, 331-336, (1973).

James M. A. Weiss, professor and chairman of the department of psychiatry, and **David Davis,** professor of psychiatry and associate chairman, are authors of two chapters in the new six-volume edition of the "American Handbook of Psychiatry" to be released this month. Weiss is the author of a chapter on suicides and collaborated with Davis in writing a section entitled "Malingering and Associated Syndromes."

UNIVERSITY PRESS

"Donoso Cortes: Utopian Romanticist and Political Realist," a biography of a nineteenth-century Spanish intellectual and political activist, by John T. Graham, department of history, UMKC, was published in April by the University of Missouri Press. The book earned the 1972-1973 University of Missouri Curators' Publications Award.

"Ideology and Economics: U. S. Relations with the Soviet Union, 1918-1933" was formally published in April by the University of Missouri Press. Its author is Joan Hoff Wilson, professor of history at California State University, Sacramento.

Faculty Footnotes

COLLEGE OF AGRICULTURE

Charles Gehrke, professor of agricultural chemistry, recently participated in a United Nations working conference of world scientists this week at Obregon, Mexico. The scientists considered the problem of chemical methodology of amino acids in proteins in plant breeding experiments.

COLLEGE OF ARTS AND SCIENCE

Brian DeFacio, associate professor of physics, was chairman and organizer of the Midwestern Americas State Universities Association, Theoretical Physics Symposium. This year's conference was held April 13 at UMC.

DeFacio also gave the department colloquim entitled "The Klauder Phenomenon" at Southern Illinois University-Edwardsville on April 1.

Abraham Eisenstark, director of the division of biological sciences, spoke at a symposium on the prospects of biomedical intervention in the course of human evolution April 6 at Wichita State University, Kansas.

Mahlon Fairchild, chairman of the department of entomology, became the new president of the North Central Branch of the Entomological Society of America this month at the group's annual meeting in Des Moines. Fairchild also chaired a soil insect symposium at the meeting.

David L. Cowan, Eugene B. Hensley, Keum H. Lee, of physics, and Ph.D. candidate **J. D. Foster** attended the annual March meeting of the American Physical Society in Philadelphia. Papers presented by the UMC group included: "Magnetization and Crystal Field Gradients," C. L. Cha and D. L. Cowan; "Mass Action Law for Additive Coloration of BaO," J. D. Foster and E. B. Hensley; "Boundary Effect for Magnon Frequency of Heisenberg Chains," K. H. Lee, Y. Y. Wang and H. W. White; "Boundary Effect for Lattice Thermal Conductivity of Linear Chain," K. H. Lee and H. W. White.

The abstracts to the papers were published in the latest issue of Bulletin of the American Physical Society Series II, Volume 19, issue number 3.

Larry Kantner and **Marilyn Zurmuehlen** of the art faculty, presented a slide-tape program, "A Journey of Clay and Some People," April 11 at the National Art Education Association Conference in Chicago. The presentation featured the work of University students and of sixth graders from Two Mile Prairie School in Columbia. The children dug clay at a local brick yard pit and made pots which they decorated by stamping, burnishing and painting with pigments.

Meyer Reinhold, professor of classical studies, gave a University Lecture at Cornell University April 1 entitled "Classical Influences on Eighteenth Century American Political Thought."

Reinhold also addressed the annual convention of the Classical Association of the Midwest and South in New Orleans April 13 on the subject "The Influence of Plutarch on Eighteenth-Century Americans."

Konrad H. Jarausch, associate professor of history, chaired an international and interdisciplinary conference on quantification in German studies at the University of Maryland and received a grant from the American Philosophical Society ($1,000.00).

Robert M. Bender, associate professor of English, addressed the Central Renaissance Conference on "William Shakespeare, Physician to the King's Men."

John Cheetham, assistant professor of music, has completed the second of two works commissioned during the current academic year. "Amalgam" was premiered in February, and the second work, "Eliptum," premiered at Dallas last week.

Thomas Cooke, associate professor of English, lectured on "Structure and Theme in 'Sir Gawain and the Green Knight' " at the Michigan Academy, East Lansing, in March.

Norma Fish, assistant professor of English, moderated a panel discussion on Non-Shakespearean English Drama at the Central Renaissance Conference here in March.

Douglas A. Grouws, assistant professor of mathematics education, conducted a workshop for senior high school teachers on the teaching of algebra at the annual meeting of the Missouri Council of Teachers of Mathematics. He also was the Missouri delegate to the National Council of Teachers of Mathematics meeting in Atlantic City in April.

Donald M. Lance, associate professor of English, served as moderator of Panel 39: "Can We Get Rid of Dialectal Discrimination in Admission Tests?" at the Conference on College Composition and Communication, Anaheim, California, in April. Lance also lectured on "Missouri Dialect Divisions" at the Missouri Academy of Science, Northwest Missouri State University, Maryville, in April.

R. L. Ethington, professor of geology, and **R. E. Peck,** professor emeritus of geology, were honored in a special ceremony as part of the annual meeting of the Society of Economic Paleontologists and Mineralogists in San Anton on April 3. Ethington and Peck have concluded a five-year term as co-editors of the Journal of Paleontology which is published by SEPM and is the leading paleontological journal in the world. They also haveserved on the governing board of the society in addition to editing its journal. While in San Antonio, Ethington represented SEPM at a joint editorial board meeting with representative of the Paleontological Society. He has been appointed to a three-year term on the publications committee of SEPM by the president of the society.

N. G. Barrier, associate professor of history, has been elected chairman of the Committee on South Asia Library Developemnt (a sub-committee of the Associaton of Asian Studies), member of the Watamull Prize Committee (American Historical Association subcommittee), and head of the Nominations Committee, American Institute of Indian Studies. During the April 1973 AAS Conference, Barrier chaired a panel and presented a paper on problems of bibliographic control in Indian studies. In 1973-74, Barrier will continue to be head of the South Asia Center at UMC.

Werner Deich, assistant professor of history, has been appointed chairman of UMC's subcommittee on European studies, which will be primarily concerned with the faculty exchange and joint studies program between UMC and the University of the Saarland, Saarbrucken, West Germany.

Charles Timberlake, associate professor of history, presented a paper at the Central States Slavic Conference in Oklahoma, "Summitry as a Form of Diplomacy in American-Soviet Relations in the 1970's."

Charles F. Mullett, professor emeritus of history, commented on papers at the American Historical Association meeting in San Francisco, Dec. 20, and participated in a panel on medical history at the Missouri Valley Historical Conference, Omaha, March 9. He delivered the luncheon address at the Missouri History Conference, Warrensburg, April 6, and addressed the students of Southwest Baptist College, April 16.

Robert J. Rowland Jr., associate professor of history, read a paper at the annual meeting of the Archaelogical Institute of America held in St. Louis in December of 1973.

COLLEGE OF EDUCATION

John L. Ferguson, chairman of the department of counseling and personnel services, served as a clinic leader during the 34th Annual National School Boards Association Convention in Houston, Texas April 6-9. He served as a reactor for a discussion on "What's the Score on Testing?"

Leon Johnson, specialist in adapted physical education, has been appointed to state and national committees on employment of the handicapped. The associate professor of health and physical education was appointed by Gov. Christopher S. Bond to the executive committee of the Governor's Committee on Employment of the Handicapped. He was also appointed to the President's Committee on Employment of the Handicapped and invited to a conference May 2-3 in Washington.

James Karnes, professor of industrial education, discussed "Reconciling Emerging Vocational Programs and Manpower Needs" at the spring meeting of the Northeast Missouri Teachers Association, Kirksville.

Irene Fitzgerald, associate professor of education, spoke at the Departmental Meeting of Reading Teachers of the Northeast Missouri Teachers Association at Kirksville in March. Her subject was "Counteracting the Message of the Sex Stereotypes: Recent Trends Portraying the Feminine Image in Literature for Children and Youth."

Ms. Fitzgerald represented UMC as Corporate Delegate to the American Association of University Women Regional Conference in Kansas City March 29-30.

Frank Heagerty, professor of education, spoke at the spring meeting of the Northeast Missouri Teachers Association at Northeast Missouri State University, Kirksville in March.

SCHOOL OF LAW

Joan Krauskopf, professor of law, discussed "Equal Rights for Home Economists and Homemakers" at the spring meeting of the Northeast Missouri Teachers Association at Northeast Missouri State University at Kirksville.

SCHOOL OF MEDICINE

Richard H. Martin attended the St. Francis Hospital Coronary Care course for Physicians as guest lecturer in Afton, Oklahoma March 29-30.

Brent Parker presented a paper, "Pulmonary Venous Reactivity and Vasoactive Agents" at the March meeting of the Missouri Regional group of American College of Physicians. The paper will be discussed in a forthcoming issue of "Internal Medicine News."

Karl Nolph, associate professor of medicine, presented two papers at ASAIO, in Chicago April 3-5. His topics were "Non-Reversible Detrimental Changes in Hollow Fiber Kidneys After a Single Dialysis" and "Acute Effects of Hemodialysis on Removal of Intracellular Solutes."

Daniel Winship, professor of medicine, was visiting professor at the Kansas University Medical Center in March.

Six physicians on the faculty at UMC were on the program of the 116th annual meeting of the Missouri State Medical Association in Kansas City this month. **Philip C. Anderson,** dermatologist and allergist, spoke on "Electron Microscopy of Aphthous Stomatitis"; **Giulio Barbero,** chairman of pediatrics, discussed "Common Pediatric Gastrointestinal Problems"; **Marshall T. Metgar,** anesthesiologist, served as moderator; **Frank Mitchell** surgeon, discussed "What Rural Missouri is Doing"; **Charles Peterson,** chairman of physical medicine and rehabilitation, spoke on "The Multidisciplinary Approach to the treatment of Arthritis"; and **Donald J. Joseph,** chief of otolaryngology, discussed "Middle Ear Disease."

Ingeborg G. Mauksch, associate professor and family nurse-practitioner, spoke on the topic of "Contemporary Nursing Issues" at the District Nurses' Association meeting in Kirksville April 11.

Dr. Mauksch also delivered the annual Ullman Lecture at the Children's Hospital of Dallas in Dallas April 18. Her topic was "Newer Roles in Relation to Tomorrow's Society."

James L. Chapel, professor of psychiatry, was invited to serve as consultant to the Gunderson Clinic and La Crosse Lutheran Hospital, La Crosse, Wis., on April 24.

Research papers prepared by **Ira Wolinsky** were presented March 28 at the International Workshop on Calcified Tissues at Gesher Haziy, Israel. Wolinsky is research associate in biochemistry and visiting scientist at the Dalton Research Center. His papers were on "Differential Adaptation of Rats and Mice to a Low Calcium Diet, Metabolic and Histological Aspects."

News-In-Sound

For a brief nightly run-down of cultural events, entertainment features and campus news, News In Sound, 882-7869, produced by the Office of Public Information for the University of Missouri-Columbia.

Memorial Established To Honor Elsa Nagel

The establishment of a memorial fund in honor of the late Prof. Elsa Nagel has been announced by Luverne Walton, chairman of the department of Germanic and Slavic languages at UMC where Prof. Nagel taught from 1926-1966. She died last September.

The Elsa Nagel Memorial Fund will be used for scholarships and awards to students in recognition of outstanding achievement in German study and for the purchase of German learning materials for student and faculty use in the department. It will be administered by a departmental committee named by the chairman.

Contributions should be sent to the University Development Fund. Further information may be obtained from Dr. Walton.

"In recognition of 40 years of dedicated teaching in the department the German faculty at UMC, along with her family, has taken the initiative in establishing a visible and lasting tribute to her memory," Dr. Walton said. "We know of no better way to honor her than through a fund, bearing her name, which could be used in ways which we believe she would like."

Miss Nagel was graduated from the State Teachers College in Kirksville and received her M. A. from the University of Missouri. She was very active in her work with students, particularly International students. After her retirement, she translated the works on Missouri of Gottfried Duden, Friedrich Munch, and Gert Goebel for the State Historical Society of Missouri.

KBIA Receives Merit Award For Public Service Program

The Armstrong Foundation has announced that UMC radio station KBIA is among the winners in the tenth annual Armstrong Awards for excellence and originality in FM broadcasting.

KBIA was awarded a Merit Certificate for being runner-up in the community service category with the program, "The Meat Squeeze," an investigative report which revealed that several markets in Columbia were selling hamburger with a fat content above the federal limits.

The Armstrong judges called the program "a splendid public service," for it was instrumental in the passage of a city ordinance and caused one store to buy a fat-testing machine so it could meet federal standards. Jack O. Hubbard was executive producer of the program, with Marty Chitwood, producer (and reporter), along with reporters Bill Weaver, Osler McCarthy, and Cathy Chiles.

Named after the late Edwin H. Armstrong, who invented FM broadcasting, the annual awards program is sponsored by the Armstrong Memorial Research Foundation, and administered by the Columbia University Engineering School, where he was a professor and researcher.

UM Committee Developing Guidelines for Optometry School

A six-member University of Missouri committee is making a preliminary study on establishing a school of optometry.

The committee, headed by Everett Walters, dean of faculties at the St. Louis campus, was appointed earlier this month by University President C. Brice Ratchford. Indications are that the University will receive $50,000 in state appropriations for the 1974-75 fiscal year to plan a school of optometry. The legislation specifies that the school be located in St. Louis.

Other members of the committee are Lawrence D. Friedman, chairman of the department of biology, and Frederick C. Brechler, assistant dean of the College of Arts and Sciences for extension, both of the St. Louis campus; Jack M. Colwill, associate dean, School of Medicine, Columbia campus; and Lynn W. Martin, director of intercampus instruction, and Jack Lister, assistant vice president for business management, both University-wide.

The committee, according to Ratchford, is to develop broad guidelines regarding curriculum, faculty, facilities, equipment and finances necessary to establish a school of optometry. The group held its first preliminary discussion on April 19 in Columbia.

Leaves and Sabbaticals

Norman Barrier, associate professor of history, will be on sabbatical from Jan. 1, 1975 until Aug. 31, 1975. Barrier will do research in preparation for a book on the emergence of recent Sikh religious institutions. He plans to study in India and in England.

Harold Breimyer, professor of agricultural economics and extension economist, will be on sabbatical from April through August. He will participate in a cultural exchange of scientific personnel in agricultural marketing between the U. S. and Spain. Breimyer will spend most of his sabbatical in Madrid and Zaragoza, but he will make side trips to universities at Gottingen, Stuttgart-Hohenheim, and Paris.

Charles Timberlake, associate professor of history, will be on sabbatical from September through December to write a monograph on Russian liberalism.

James C. Stallman, associate professor of accountancy, will be on sabbatical from Sept. 1 until June 1, 1975. Stallman will assume a visiting appointment at the University of Michigan.

Russell Zguta, assistant professor of history, will be on sabbatical for a year, beginning Sept. 1. Zguta has been awarded a National Endowment for the Humanities grant to work on a monograph, "Russian Witchcraft to 1917." Part of the research will be conducted in the United States and part in Helsinki, Finland.

Kenneth C. Chandler, assistant professor of philosophy, will be on leave from September until next August to work on research and writing.

W. Brian DeFacio, associate professor of physics, will be on sabbatical for a year, beginning in August. He will spend a portion of the time studying at Iowa State University.

Earl J. Moore, associate professor of counseling and personnel services, will be on sabbatical from September until August to research and develop materials related to the "life career development" concept.

Edward A. Purcell, Jr., associate professor of history, will be on leave from September until August, 1975 to teach and help develop the American Studies curriculum at Wellesley College.

Vern G. Williamsen, associate professor of Spanish, will be on sabbatical from September until August, 1975 to complete the research for his book on seventeenth century Spanish dramatists. Much of Williamsen's work will be completed in Spain.

Gifts & Grants

COLLEGE OF ARTS AND SCIENCES

A grant of $61,800 from the National Science Foundation will be used to fund a research project on the island of Guam by Don R. Vesper, assistant professor in the linguistics area. Vesper will spend the first of two years on the project in Guam studying the social context of language choice in a multilingual community, beginning in late August.

COLLEGE OF ENGINEERING

A National Science Foundation grant of $9,640 will allow 15 top Missouri high school juniors to participate in engineering research and study at the UMC College of Engineering June 10-August 2. Richard M. Angus, associate professor of chemical engineering, will administer the grant.

Graduate School and Research Notes

NSF ENERGY RESEARCH — The National Science Foundation has announced two new program solicitations dealing with energy research. Program Solicitation 74-9, "Ocean Thermal Energy Conversion Program", seeks to stimulate research on the technology and associated research problems related to the potential of extracting substantial quantities of thermal energy from the oceans through the use of large floating ocean thermal conversion power plants. Program Solicitation 74-11, "Research on Wind Energy Conversion Systems", seeks to stimulate research on the definition of requirements and further development of the technologies of wind energy conversion systems. Each of these programs seeks proposals in several categories of research and multiple awards will be made. For further information and copy of program solicitations, contact: Distribution Section, Administrative Services Office, National Science Foundation, 1800 G Street, N. W., Washington, D.C. 20550. Telephone: 202 632-4128.

RESEARCH & DEVELOPMENT ON AGING — The Administration on Aging has announced that grants will be awarded for projects authorized under the Older Americans Act concerning model projects for older persons. The AoA has prepared for distribution on a limited basis a Research and Development Strategy for Fiscal Year 1974. This document provides substantive directions for the development of research proposals responsive to current priorities set by AoA. Copies of proposal guidelines and information may be obtained from the HEW Regional Program Director on Aging, or from the Division of Research Applications and Demonstrations, 3160 Donohoe Bldg., 400 Sixth Street, S.W., Washington, D.C. 20201. Proposals received prior to April 26 will be reviewed in May, and those received prior to May 16 will be reviewed in June.

HUD GUIDELINES FOR UNSOLICITED PROPOSALS — The U. S. Department of Housing and Urban Development has issued new guidelines for submitting unsolicited proposals. The Office of the Assistant Secretary for Policy Development and Research was established in 1973. It brings together for the first time within HUD the functions of research, policy development, program analysis and evaluation, and economic affairs. Within the context of its major goals, and the increased emphasis on State and local responsibilities under the New Federalism, the Office of Policy Development and Research has a multifaceted responsibility for initiation, coordination, and evaluation of policies and related research designed to clarify the appropriate roles of Federal, State and local government in housing and urban development, and to improve their execution of those roles. For a list of priorities for 1974-75 and guidelines for applications, call Mrs. McQuary, 2-6311.

SUMMER SEMINARS FOR COLLEGE TEACHERS — The purpose of the Summer Seminars for College Teachers is to provide teachers at smaller private and state colleges and junior and community colleges with opportunities to work in their areas of interest with distinguished scholars at institutions where they will have libraries suitable for mature study. The National Endowment for the Humanities plans to offer 60 seminars in as many disciplines as possible during the summer of 1975. The individual seminar director will have wide latitude to design his seminar in his own field of interest. The NEH asks that the topic be broad enough to accommodate a broad range of interest and that the seminar give integral attention to the challenge of transmitting humanistic understandings to the college student. Proposals to conduct seminars are encouraged from professors who are not only recognized scholars in their fields but who also are well qualified by virtue of their interest and ability in undergraduate teaching. The focus of the seminars should be primarily substantive and the purpose of the seminars should not be construed as curriculum planning or pedagogical training. The objectives of these seminars can be most readily accomplished at institutions where the library collections are suitable for mature study. Anyone wishing guidelines for this program may call Mrs. McQuary, 2-6311 or write: Division of Fellowships, National Endowment for the Humanities, 806 15th Street, N.W., Washington, D.C. 20506. The deadline for receipt of proposals is **July 1, 1974.**

PUBLIC MEDIA PROGRAMS — The National Endowment for the Arts has published guidelines for grant applications under its fiscal 1975 public media program. The guidelines are substantially the same as last year, except that media studies will be for $10,000 instead of $25,000. Applications must be submitted by June 3, 1974. The guidelines appear in the **Federal Register** of April 16, 1974 at 13725.

NIH RESEARCH CAREER DEVELOPMENT PROGRAM — The National Institutes of Health is currently accepting applications in the Research Career Development Program. Awards in this program are made to foster the development of promising young scientists with outstanding research potential for careers of independent research in the sciences related to health. Institutions may apply for awards on behalf of individuals who have had three or more years of relevant postdoctoral experience. Candidates must be less than 40 years old on the day the application is received by NIH. Applications must be received at NIH no later than **June 1, 1974** for the current competition. Awards will be announced by January, 1975. Additional information and application material may be obtained by writing to: Office of Research Manpower, Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014.

BIOMED ADVANCED TRAINING IN SHORTAGE AREAS — The NIH and the Alcohol, Drug Abuse, and Mental Health Administration have set a receipt deadline of **May 1, 1974** for the next round of applications in the Advanced Training in Shortage Areas in the Biomedical and Health Related Sciences Program. Applicants must hold the M.D.-Ph.D. or equivalent degree at the time of application. A basic stipend of $10,000 per year is provided, and the institution at which each fellow trains receives an annual stipend of up to $3,000 to help offset training and research costs. Awards will be announced by November 1, 1974. For more information and application forms, contact: Office of Research Manpower, Division of Research Grants, National Institutes of Health, 9000 Rockville Pike, Bethesda, Md. 20014. (301) 496-7221.

1974 LAW ENFORCEMENT RESEARCH PROGRAM PLANS — Research program plans for 1974 concerning law enforcement have been released by the Law Enforcement Assistance Administration's National In-

(Continued on back page)

Calendar of Events

ACADEMIC SCHEDULE

May 2: Classwork Second Semester ends, 5:30 p.m.
May 3: Stop Day.
May 4: Final Examinations begin.
May 11: Second Semester closes, 5:30 p.m.
May 11: Annual Commencement, 3:00 p.m. — Hearnes Aud.

ATHLETIC EVENTS

May 3: Tennis: Principia at Columbia, 3:30 p.m.
May 3-4: Golf: Varsity-Alumni — Here.
May 4: Missouri Intercollegiate Track Meet, 1:30 p.m.
May 4: Baseball: Missouri vs. Colorado — 1:00 p.m.
May 11: Track Meet — Nebraska vs. Missouri, 1:30 p.m.
May 11: Baseball: Missouri vs. Kansas State, 1:30 p.m.
May 11: Tennis: Iowa State at Columbia, 1:30 p.m.
May 12: Baseball: Missouri vs. Kansas State, 1 p.m.

CONCERTS, PLAYS

May 1: Donald Pyle, instructor of vocal music at UMC, will give a recital at 8:15 p.m. in the Fine Arts Recital Hall — Free.
May 2: Latin American Recital — Students of Kenneth Smith — Recital Hall — 2:40 p.m.
May 2: Junior Recital — Elizabeth Lively, piano Recital Hall — 8:15 p.m.
May 3: Student Recital — Nader Mortezapour, string bass — Recital Hall — 8:15 p.m.
May 3: Elementary String Festival — Recital Hall 12 noon.
May 3: Recital — Susan Bell, bassomist — Recital Hall — 6:30 p.m.
May 5: The St. Louis Institute of Music String Chamber Orchestra will present a concert at 8:15 p.m. in the Fine Arts Recital Hall — Free.

CONFERENCES, SHORT COURSES

May 2-3: School Psychology Simulator Conference Ramada Inn.
May 3-4: Mo. Council of Family Relations Conference Hearnes Multipurpose Building.
May 3-4: 15th Annual Credit Union Management Conference — Memorial Union.
May 3-4: 1974 Mo. Land Title School — Memorial Union.
May 2-3: School Psychology Simulator Conference Ramada Inn.
May 3-8: Pan American Health Organization Conference — Hearnes Auditorium.
May 6-10: Computer Relaying Power Systems — Electrical Engineering.
May 10: Pre-Commencement Veterinary Workshop — Vet Clinic.

DEADLINES, OTHER EVENTS

May 1-3: Blood Drive, 11:30 a.m. to 4:15 p.m., 208 Brady Commons.
May 3: Kentucky Derby Trip — one night lodging and a ticket to the Derby.
May 10: Sigma Xi Annual Initiation Meeting — 11 a.m. Room N214 of the Memorial Union. The initiation ceremony will be followed by the annual Sigma Xi Luncheon at noon in the small ballroom of the Memorial Union. Tickets ($4) may be obtained from A. G. Matches, Agronomy Department, 208 Waters Hall.

FILMS, EXHIBITS

May 5: TOKYO STORY — 8 p.m. — Middlebush Auditorium.
May 5-10: Graduate Show, Fine Arts Gallery.

LECTURERS, SPEAKERS

May 1: International Coffeehour: "Cooperation and Interdependence in the Third World," 3:30 p.m., N222 Memorial Union.

Graduate School and Research Notes

(Continued from page 7)

stitute of Law Enforcement and Criminal Justice. The Institute is interested in research work done in community crime prevention, juvenile delinquency, police procedures, court procedures, and institutional corrections. For more information, write: Assistant Director, Office of Research Programs, National Institute of Law Enforcement and Criminal Justice, Law Enforcement Assistance Administration, Washington, D.C. 20530.

FULBRIGHT-HAYS ADVANCED RESEARCH AND UNIVERSITY LECTURING FOR 1975-76 — This office has now received the program announcement and list of openings for the Mutual Educational Exchange Program of University Lecturing and Advanced Research for 1975-76. This program is designed for senior scholars. The deadline for receipt of applications is **July 1, 1974.** Anyone wishing a copy of the announcement may write: Council for International Exchange of Scholars (formerly Committee on International Exchange of Persons), 2101 Constitution Avenue, Washington, D.C. 20418.

DEVELOPMENT AND UTILIZATION OF METRIC EDUCATION INSTRUCTIONAL MATERIALS — Understanding metric measurement and being able to make application of the concepts and skills involved in metric conversion from the customary system of measurement have important implications for vocational, technical and basic adult education. The U. S. Office of Education requests proposals from qualified contractors to prepare curriculum materials needed to introduce and develop competencies in metric measurement in career education; to conduct in-service training utilizing these materials; and to develop occupationally-related mathematics units in metric measurement for under-educated adults. The project is to be completed 36 months from the date of award. RFP 74-64 was issued on April 23. RFP due date is May 22, 1974. All requests for application forms should be in writing. U. S. Office of Education Grant & Procurement Management Division (74064), John H. Detreu, Room 1068, FOB 6, 400 Maryland Avenue, S.W., Washington, D.C. 20202.

(For more information on the above programs, call Ms. Carol McQuary, 2-6311)

Faculty BULLETIN

Vol. 9, No. 9 — May 1, 1974

This Issue

	Page
Faculty Council Minutes	6
Graduate School and Research Notes	7
Faculty Footnotes	6
Calendar	Back Page

Gleefully, this child demonstrates the use of some new playground "equipment" at the UMC Child Development Center. Two landscape design students gave the play area a face-lifting as part of a class project. For the story and more pictures, see page five.

UNIVERSITY OF MISSOURI-COLUMBIA

Faculty BULLETIN

Vol. 9, No. 10 June 5, 1974

508 Members Named To Doctoral Faculty

Appointment to the University Doctoral Faculty has been assured 508 members of the UMC faculty. Announcement of the notification of Doctoral Faculty candidates was made by Graduate School Dean Lloyd Berry who also reported that 21 appeals have been made by persons whose applications were denied at some point in the selection process.

Denials of another 42 applications of UMC faculty members by the Ad Hoc Doctoral Council have not been appealed, Berry said.

Applications from the UMC faculty totalled 615. Some applications were withdrawn during the assessment process.

Figures for the other campuses of the University are as follows: UMKC — 103 confirmations and 11 denials; UMSL — 123 confirmations and five denials; UMR — 119 confirmations and 18 denials. Appeals are also pending from the other campuses.

The 508 persons earning Doctoral Faculty status compare to the present 599 faculty members who are designated doctoral dissertation supervisors. Composition of the dissertation supervisor group will change as some faculty members now included will leave and others not now authorized to direct dissertations will move to the Doctoral Faculty.

Non-appointment to the Doctoral Faculty has no effect upon the status of persons who are members of the campus graduate faculty or are designated dissertation co-directors. The co-director category has been retained.

Appeals are to be decided by the Ad Hoc Doctoral Council by June 6. At a later date names of the Doctoral Council members will be revealed, Berry said.

UMC Doctoral Faculty members will meet in the fall to elect those persons who will hold five-, six-, and seven-year terms and to elect the two campus representatives to the Doctoral Council. Ultimately, all terms will be five years in length, Berry said.

Applications for the Doctoral Faculty will again be received next year and on an annual basis thereafter. In urging reapplication by those persons with publications or other recognition pending, Berry said that several candidates had "just missed" so far as their qualifications were concerned.

In commenting on the selection process, Berry said that "heavy emphasis was placed on productivity over the past five years." Berry stated regret that "some faculty members who have not been active recently in publishing were denied appointment."

Stressing that direction of doctoral work was only one aspect of the role of faculty, Berry related that many gifted teachers chose not to apply for membership on the Doctoral Faculty.

"The rewards of membership in the academic community are many," Berry said. "This is just one."

Schooling Names Committee To Evaluate Administration

Chancellor Herbert W. Schooling, following suggestions of the Faculty Council, has appointed a five-member committee to evaluate UMC administration.

Members include Neil C. Aslin, professor of education administration; Jay Goldman, professor and chairman of industrial education; Daryl Hobbs, professor of sociology-rural sociology; Hans Mauksch, professor of sociology; and Robert Penfield, associate professor of management.

"As I perceive the charge of the committee it would be to assist in devising an instrument that can be used in evaluating the administration of the Columbia campus which would include both divisional and campus-wide levels, and to confer the procedures that should be followed in carrying out the evaluation," Chancellor Schooling said.

"I have felt that there are two basic tasks: (1) agreeing on the job assignment for a specific ad-administrative office and (2) determining how well the incumbent is handling the agreed upon responsibilities."

The chancellor said he hoped the committee could begin some planning during the summer with expectations that the evaluation can get under way early next fall.

Board of Curators' Highlights

The Board of Curators at their June 1 meeting in Columbia approved increases in incidental fees and tuition effective at the beginning of the 1974-75 academic year to offset the lack of necessary state funding.

By motion of Board chairman Irvin Fane, the board approved $20 per semester increases in the incidental fee and $40 per semester raises in the tuition paid by out-of-state students. The Board specified, however, that the increases would be lowered to $10 for the incidental fee and $20 for tuition if the legislature restores funds vetoed by the governor. The general assembly will meet for its "veto session" in September.

The tuition and fee increases are expected to generate an additional $2 million in revenue.

In another move to increase income, the Board approved rate changes at the UMC Medical Center hospital. The new rate schedule, effective June 8, is expected to increase hospital revenue by about $1 million. Daily service charges will be increased from $49 to $60 for hospitalization in a ward, from $52 to $65 in a semi-private room and from $55 to $70 in a private room.

A general operating budget of $171.7 million — $10.2 million larger than the current fiscal year budget — was approved. The six percent increase in salary monies voted earlier was retained.

Other Board actions:

- Robert H. McFarland, graduate dean on the Rolla campus since February, was named acting vice president for academic affairs replacing Paul Nagel who is returning to teaching at UMC.
- Plans for remodelling the old chemistry building on Francis Quadrangle to house the history and art and archaeology departments were approved.
- A swine research center, consisting of six metal buildings, was authorized for the University's South Farm near Columbia.
- Nepotisim rules at the University were altered to allow relatives by blood or marriage to work as full-time employes within the same department. One relative may not have powers of salary, staff benefits or vacation determination over the other, however.
- Sick leave for maternity purposes was approved for all female employes of the University. The new policy is effective immediately and puts the University in compliance with federal directives.

Bicentennial Committee Formed

Edmund Ford, assistant provost for administration, has been named chairman of a seven-member bicentennial committee appointed by Chancellor Herbert W. Schooling.

Others on the committee include Gregory Casey, assistant professor of political science; Nobel E. Cunningham Jr., professor and chairman of history; Charles B. Dew, professor of English; William Francis English, professor of history; Helen K. Harrison, assistant professor of music; Lloyd P. Jorgenson, professor of education; and Osmund R. Overby, associate professor of art history.

Chancellor Schooling said that the committee will be asked to consider special programs and activities the campus might undertake in commemoration of the founding of the United States.

"We will want to collaborate with a committee established by the city and with other groups who have a common purpose," he said.

University Proposes to Upgrade Libraries

A proposal to upgrade the library system of the University's four campuses has been presented to the Board of Curators. The proposal includes greater use of modern computer and communication techniques and the construction of a central lending library.

Ardath H. Emmons, University vice-president for research, said the three-part proposal will enable the University to make more efficient use of its limited funds and space, eliminate unnecessary and costly duplication and offset spiraling prices.

The four directors of libraries — Dwight Tuckwood, Columbia; Mark Gormley, St. Louis; Ken LaBudde, Kansas City; and Earl Randolph, Rolla — worked with Emmons in the development of the proposal. The three phases include:

- installation of a standard computerized system for acquisitions, catalog and circulation control;
- construction of a central lending library where little-used materials could be inexpensively stored but readily accessible; and
- development of a long-range plan to provide library resources and services to the University for the years 1980-2000. This plan is to include specific applications and costs for computer and communications technology.

He said the four libraries directors will recommend by Sept. 1 which of the currently available computerized acquisitions-catalog-circulation control systems should be purchased and installed at the University. Such a system would permit "greater control of continually growing library costs through more efficient acquisitions, cataloging and preparations procedures" and, he added, could also help coordinate the growth and use of individual collections.

A central lending library, the vice president said, is dictated by the high purchase cost of little-used books and periodicals, the need to avoid duplicating purchases and the mounting pressure for shelf space, particularly at Columbia's Ellis Library. Libraries on the Kansas City and St. Louis campuses are barely adequate for their present student base, he pointed out.

A central lending library would house a million seldom-used books and journals and lend them on demand to the campus libraries. The central facility should provide within 24 hours the requested materials from any campus, be at least semi-automated to reduce labor costs and house microform production capabilities, according to the proposal.

"The University of Missouri should take steps to reach and maintain leadership in library development in the state's higher education environment," Emmons said. The University library system is already linked with the state library system through Interlibrary Loan.

To make efficient use of every tax dollar spent to support University libraries, upgrading of library operations is essential, he said. He also noted that long-range planning (phase three) will prepare the University to take advantage of new technology in information-processing.

"By the end of the century new and economical data storage and retrieval techniques will permit links with national and international reference centers," Emmons said. "A well-planned effort can place the University of Missouri in a position of leadership in providing information resources," he concluded.

Dwight Tuckwood, director of libraries at UMC, feels the proposal to upgrade the library system outlines important, necessary steps for the University to make.

"Consortia are being formed all over the country," Tuckwood said, explaining that rising book costs are forcing universities in that direction. "With the price of materials, we have to look for ways of making better use of resources."

A central lending library would be one way of doing just that.

But, Tuckwood says, the idea of sharing materials between the four campuses isn't a new one. "There's already a fair amount of book traffic between campuses," he said. At present any faculty member or student can borrow materials from any of the other libraries simply by notifying the library on his campus.

New Faculty Members Appointed

Thomas Wolfram, presently director of physics and chemistry at the Rockwell International Science Center, has accepted the position of chairman of the department of physics at UMC effective August, 1974.

Wolfram earned his Ph. D. degree from the University of California at Riverside in 1962 in solid state theory. He joined the staff of the Science Center at North American Aviation, now Rockwell International, in 1960. He was made group leader of theoretical physics in 1967, group leader of solid state physics in 1970 and director of physics and chemistry in 1972.

During two leaves of absence, he has served as an associate professor of physics at California State University at Northridge (1964-65) and at the University of California at Riverside (1967-68).

Wolfram is a Fellow of the American Physical Society and has published 60 papers. He is best known for his definitive work on surface spin waves and the Tomasch effect and he recently invented a new approach to catalysis.

In addition, Wolfram has made significant contributions to a variety of problems in solid state physics, including magnetism, lattice dynamics, superconductivity, electronic and optical properties of solids, semi-conductors and liquid crystals.

★★★★★

Murray Heimberg, professor of pharmacology at Vanderbilt University, Nashville, will become chairman of the department of pharmacology at the UMC School of Medicine, on July 1.

Heimberg, 49, holds both Ph.D. and M.D. degrees and will also have an appointment in the department of medicine. His specialties are in endocrine and metabolic pharmacology and cardiovascular pharmacology.

He has done extensive research with the metabolism of triglycerides and with hepatic lipid metabolism in experimental diabetes. He has been lecturer at numerous scientific meetings in the United States and abroad.

A native of Brooklyn, Heimberg received a bachelor's degree in bacteriology and a master's in nutrition science from Cornell University, Ithaca, N. Y. He completed a Ph.D. in biochemistry at Duke University in 1952 and was a post-doctoral fellow of NIH in biological chemistry at Washington University, St. Louis, from 1952-54.

He was awarded the M.D. degree from Vanderbilt in 1959; at the same time he was a research associate in the department of physiology. He was appointed to the faculty of the pharmacology department after his graduation and became full professor in 1967.

From 1962-67 Heimberg was an established investigator for the American Heart Association and is now a fellow of the Council on Arteriosclerosis, AHA.

Robert L. Russell has been acting chairman of the department of pharmacology since Leslie Eisenbrandt's retirement.

★★★★★

Asit P. Basu, associate professor at the University of Pittsburgh, will join the department of statistics in August as professor of statistics.

He received his doctoral degree in statistics from the University of Minnesota under Prof. Milton Sobel. Basu is working on problems of life-testing and reliability analysis and on rank tests with applications.

★★★★★

Steve Gourley, postdoctoral fellow in the biology department of Amherst College in Massachusetts, will join the UMC faculty this month as assistant professor in the division of biological sciences.

Gourley received his degree in ecology from Cornell University. His interests are in population dynamics of various animal species and in developing theoretical models of life history strategies. Specific projects include the study of isozyme variations in mouse populations, and in the testing of Fisher's concept of reproductive value in aphids.

★★★★★

James H. Wyche, postdoctoral fellow with Gordon Sato in the department of biology at the University of California-San Diego, has accepted a position as assistant professor in the division of biological sciences and the department of biochemistry.

Wyche received his Ph.D. from the Johns Hopkins University in 1972. Before joining Sato's research group, Wyche was supported by the Jan Coffin Childs Postdoctoral Fellowship doing research in Bruce Ames' laboratory in the department of biochemistry at the University of California-Berkeley. His research interest is in the area of regulation in Salmonella Typhimurium.

Wyche is expected to arrive in Columbia in August.

Distinguished Artists To Conduct Sessions

Four artists of national and international reputation will be on the UMC campus from June 17-21, to conduct classes and participate in a public discussion as part of the Summer Session Distinguished Artist Program.

This special course, designed by the UMC art department and funded by the University, will feature: Frank Gallo, sculptor; Philip Pearlstein, painter; Rudy Pozzatti, printmaker; and Rudolph de Harak, graphic designer.

Gallo, internationally known for his cast epoxy figures, will teach the sculpture class. Gallo has been featured in important national exhibitions such as the Whitney Annual. A special showing of his work was part of the 1968 Venice Bienalle. The sculptor, who studied at the Toledo Museum School of Art, the Granbrook Academy of Art and the University of Iowa, is currently professor of sculpture at the University of Illinois where he has taught since 1960.

Pearlstein, a New York painter recently featured in Newsweek's special issue on the arts, has been nationally prominent for more than a decade. His awards include a Fulbright Fellowship to Italy in 1969, a National Endowment for the Arts Grant in 1969 and Guggenheim Fellowships in 1971 and 1972.

Among public collections containing his work are the Museam of Modern Art, Vassar College and the Hirshhorn Collection. A touring exhibition of his work was organized by the Georgia Museum of Art in 1970 and 1971.

Pozatti, recognized both as artist and educator, studied at the University of Colorado later working with Max Beckmann and Ben Shahn. Among exhibitions to his credit are "young Americans, 1961" at the Whitney Museum of American Art and a one-man show of his graphic work at the Cleveland Museum of Art in 1955.

He has executed commissioned editions for several publishers of original prints including Roten Galleries of Baltimore, Cleveland Print Club and the International Graphic Arts Society of New York.

Pozatti has taught printmaking at the University of Nebraska and Indiana University where he is now professor of fine arts.

De Harak, who has headed his own design office in New York City for 20 years, has created corporate identity programs, posters, brochures, covers and magazines. His three dimensional work has included environmental graphics, signage, murals and products. De Harak's projects include the design for the U. S. Pavilion at the Japan World Exposition at Osaka in 1970 and the theme pavilion "Man, His Planet and Space," at Expo '67 in Montreal.

Classes taught by these men will be open only to students duly enrolled in Summer Session and have been scheduled to allow a student to enroll in three of the four lectures. A panel discussion on June 21 will be open to the public. Time and place of this general session will be announced later.

For information regarding classes and prerequisites for enrollment, prospective students may contact the department of art, A-126 Fine Arts Center. Final registration is June 10. Admission to the Summer Session is arranged through Director of Admissions, 130 Jesse Hall.

CAPA, J-School Cooperate On Public Affairs Program

A cooperative public affairs program in political science, economics and journalism will be offered this fall at UMC.

The program will lead to a bachelor of science degree in public administration, and is one of six options leading to that degree. All options call for intensive study in economics and political science.

The College of Administration and Public Affairs offers the program in cooperation with the School of Journalism.

Students who complete the public affairs program with a bachelor's degree in public administration will be able, if they meet standard requirements, to enter the graduate program of the School of Journalism without taking additional basic courses in journalism.

The school's established Public Affairs Graduate Reporting Program offers graduate students opportunities to report urban and governmental affairs locally and in such off-campus sites as London, Washington, St. Louis and Jefferson City.

The public affairs program is one of three options with political emphasis; the others focus on practical politics and public service, the latter requiring completion of five basic courses in journalism.

Three other options, with emphasis on economics, include economic administration, planning and economic measurement of the public sector.

Undergraduate and graduate students in the School of Journalism who are interested in public affairs reporting will be encouraged to enroll in courses in political science and economics. Graduate students with a bachelor's degree in journalism will be encouraged to undertake graduate work in the College of Administration and Public Affairs, if they meet standard requirements.

The new program allows students to study public affairs from both journalistic and administrative viewpoints or combine the alternatives in coordinated graduate and undergraduate programs.

Coordinators of the public affairs option program are Richard Watson, chairman of the CAPA political science department; and Ernest Morgan, chairman of the editorial department in the School of Journalism.

Fulbright-Hays Grant to Pauw

The Board of Foreign Scholarships and the Netherlands Ministry of Education have selected Adrian Pauw, UMC professor of civil engineering, for a Fulbright-Hays Grant. He will use it to conduct research on industrialized concrete construction for one year, beginning September 1, at the Stevin Delft Engineering Laboratory, Delft Technological University, The Netherlands.

Pauw will work closely with Ir. A.S.G. Bruggeling, professor of concrete construction. Their collaborative effort will involve the development, analysis, and testing of joints and connection details for precast concrete construction.

Structures of precast concrete are more vulnerable to unpredictable loads caused by explosions, impact, fire, etc., than are structures built of cast-in-place concrete. To eliminate this disadvantage, Pauw has developed anchorage and reinforcing-bar splicing systems employing explosive metalworking techniques to tie the precast concrete elements together. He plans to evaluate and analyze these new developments at the Delft Technological University, using both full-scale specimens and reduced-scale models.

Corley Named Associate Dean

E. Allen Corley has been named associate dean for academic affairs of the College of Veterinary Medicine by Chancellor Herbert W. Schooling. He will serve half-time in this capacity and will continue to devote half-time to duties in the department of veterinary medicine and surgery.

Corley replaces George C. Shelton who accepted a position as dean of the College of Veterinary Medicine at Texas A&M last fall.

Corley presently is professor and chairman of the department of medicine and surgery, a position he has held since September 1972.

Prof Wins Award

Elwood L. Thomas, member of the UMC law faculty since 1965, has received an award for excellence in classroom teaching.

The award was voted to him by members of the third-year law class. It includes an honorarium established by the law school class of 1959 to commemorate its 15th anniversary.

Thomas teaches evidence, trial practice and individual and corporate taxation.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 114 Jesse, or to the Office of Public Information, 223 Jesse, 882-6211.

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The University of Missouri
An Equal Opportunity Institution

Project START Planned

A total of 100 Missouri high school graduates will participate in Project START (Success Through Advanced Residence Training) June 10-Aug. 3 at UMC.

Purpose of the program is ". . . create an opportunity under the most advantageous conditions for young people to start an education," according to Douglass T. Tate, director, faculty development projects. "They are brought into a summer program with special help in the areas of study skills and socialization through counseling," Tate said.

The program, which is in its third year, was developed and funded by the UMC Office of the Provost for Academic Affairs. START costs approximately $100,000 a year with $35,000 going to support the summer portion of the program.

Keener A. Tippin, director of Project START, said the students will take six hours of credit in summer school "to get a feel for the academic situation" before the Fall semester. All students must take three credits of English; however the remaining three credits may be fulfilled by mathematics, biology or speech.

Classes are supplemented by tutorial sessions for which the students are separated into groups of 12-17. One fulltime counselor and four or five student counselors will be available to assess the students' educational and vocational goals, study habits and ability to deal with the UMC environment.

Tippin said that although "the main thrust of the program is towards minority students" the project is open to any student who has the ability to do college level work but needs help in adjusting to a higher education setting. He adds that without this special assistance many of these students would become "academic casualties."

Project START has maintained a strong "track record" in its three-year history as evidenced by the fact that 79 per cent of the 47 students enrolled in the summer 1973 program have remained in good academic standing.

Tippin said that he visits Missouri high schools each Fall and starts corresponding with students interested in the program. Through individual interviews, he attempts to ascertain the student's attitude toward college and life. He also tries to determine how realistic the student is about his aims.

"If I meet a student who's really sharp, I'll put an asterisk next to his name and talk with his counselors," Tippin explains. "The more I know about a student the better I can present the student to the Project START selection committee as a total person."

Missouri Courthouse Program Wins Award

Extension programs IN Missouri courthouses are traditional, but now an extension program ABOUT Missouri courthouses is getting statewide acclaim and national recognition.

Already enjoyed by thousands of Missourians — many of whom never before reached by University of Missouri Extension — "Show-Me Courthouses and City Squares" has added a new twist to traditional extension programming.

"We wanted to appeal to established extension participants as well as encourage new audience potential," Marian M. Ohman, program coordinator for the humanities in the UMC Extension Division, said.

Since 1972 Dr. Ohman has taken her two-hour, two-part slide and lecture program into some 35 Missouri communities, hoping to expand her audiences' awareness of the humanities by focusing on locally familiar landmarks.

She always uses slides of the local courthouse and other local architecture when presenting a program in a given community. She relates historical, cultural and economic aspects of local architecture first to that of nearby counties and then to that of more distant Missouri counties.

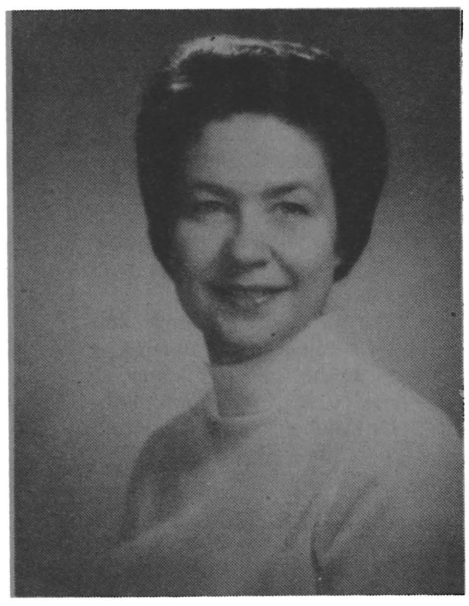
Dr. Ohman's background — a B.A. in sociology, M.A. in art history and Ph.D. in art history with a minor in American history — has qualified her to talk to Missouri audiences about American art and architecture and how they relate to their immediate environment.

Her efforts have been rewarded — not only by positive audience response — but most recently with an award for innovation in continuing education from the American College Testing Program and the National University Extension Association.

At the 1974 NUEA national meeting in Denver, Dr. Ohman received a plaque and $250 cash award for her "Show-Me Courthouses and City Squares" program.

The judges rated her entry the winner in a category recognizing "recently established programs, credit or non-credit, in adult and continuing education which have demonstrated their workability and a timely, relevant and different approach to problems or issues."

The cash was donated to the Missouri extension loan and fellowship fund, and the plaque was presented to Don Fancher, assistant dean of the UMC Extension Division, for display.



MARIAN OHMAN

The objective of the program, Dr. Ohman said, is to provide an introduction in the humanities to an adult, out-of-school audience throughout the state of Missouri, primarily in towns of 15,000 or fewer persons.

"We hope to encourage Missouri citizens to consider the broad aspects of their cultural heritage and create an awareness of, and sensitivity to, the cultural and historical environment of their community. We hope to encourage preservation of buildings and traditions worthy of recognition and to instill a sense of pride in their heritage."

Funding for the program comes primarily from the UMC Extension Division. A grant from the National Endowment for the Humanities, funded through the Missouri State Committee for the Humanities, helped inaugurate the program.

Meeting facilities have been provided by local sponsoring organizations — such as art councils, civic clubs, historical societies, professional organizations, libraries, commemorative celebration committees, and small independent schools and junior colleges — in cooperation with area directors and area continuing education programmers in University of Missouri Extension centers.

"Extension centers, churches, libraries, schools, bank courtesy rooms and museums have all provided meeting rooms," Dr. Ohman said.

The traditional extension audience has not until now been exposed to subjects in the humanities. One audience member in north Missouri noted, "I have already raised my children, decorated my home, canned and caned chairs. Now I am ready for something new and different."

And that's just what Marian Ohman has been offering Missouri citizens — a new way of appreciating familiar surroundings while gaining some insight into a nontraditional extension thrust — the humanities.

Agriculture Society Honors Nine Persons

Four UMC faculty members and five Missourians were honored at the annual spring awards banquet of Gamma Sigma Delta, the College of Agriculture faculty's honor society.

Winners of superior teaching awards were **Michael J. Scanlon**, assistant professor of accountancy, and **Andrew J. Nash**, professor of forestry.

Two faculty awards were given for outstanding service to agriculture. **Charles O. Knowles**, associate professor of entomology, received the junior faculty award and **Herbert F. Lionberger**, professor of rural sociology, received the senior faculty award.

Awards for distinguished service to agriculture went to five Missourians: Charles A. Becker, St. Louis; David E. Bryant, Columbia; H. Frank Hoffman, Trenton; John A. Howell, Malden; and Harold Hurd, Knob Noster.

Becker is director of marketing for the food products department of Mallinckrodt Chemical Works in St. Louis. Bryant is editor of Today's Farmer, official publication of the Missouri Farmers Association. Hoffman is an agribusinessman. Howell is manager and part owner of the Stokes Brothers Gin Co., cotton producers. Hurd was executive vice president of the Missouri Pork Producers Assn. from 1969 to 1974.

Gamma Sigma Delta officers for 1974-75 were also named at the banquet. They are: Charline Lindsay, professor of extension education, president; Bonnard L. Moseley, associate professor of veterinary pathology, vice president; A. J. Nash, professor of forestry, secretary; James Frisby, associate professor of agricultural engineering, treasurer; and Robert S. Clough, professor emeritus, historian.

CAPA Team to Conduct Overseas Marketing Study

Overseas marketing research for Missouri products and student exchange programs on foreign business opportunities are goals of a six-week summer visit to Britain by a UMC faculty member and three students.

Dean Robert Paterson of the College of Administration and Public Affairs says the project has "great future promise, and the results of the summer pilot program will be the basis for evaluating the role the college will have in international business education in the future."

Robert Schooler, CAPA professor of marketing, is initiating the program to provide detailed market research for Missouri firms which sell products abroad. Deficiency of in-depth information about foreign markets, he says, prompted the project.

Schooler will visit seven British universities and Wilton Park, a government "think tank" near London, to explore the possibilities of establishing faculty and student exchange programs with CAPA for research in export expansion. He also will contact British firms to initiate student internships.

At the outset, American students will engage in market research activities for specific U. S. products to be sold in Britain, while British students in business administration will research the U. S. market for national products. Schooler envisions students of each country ultimately researching their own markets.

Former Soils Chairman Dies

William A. Albrecht, 85, chairman of the UMC soils department from 1938 to 1959, died May 19 in the UMC Medical Center.

Considered the foremost authority on the relation of soil fertility to human health, Albrecht initiated studies on the effect of trace elements in health and provided the soil sample from which the antibiotic Aureomycin was isolated.

His special field was soil microbiology, which led to the study of legumes in agriculture and particularly to their nutrition. Much of the abundance of food production, in Missouri and other states, can be attributed to Albrecht's research and reachings.

"Dr. Albrecht's studies in soils dealt with the functional viewpoint or the soil's service in nourishing microbes, plants, animals and all life," said George E. Smith, who succeeded Albrecht as chairman of soils when he retired in 1959 after 43 years of service to UMC. Smith is now director of water resources research.

Albrecht was president of the Soil Science Society of America in 1939 and was a fellow of the American Society of Agronomy.

He was a widely known writer and speaker on soil fertility and plant nutrition and author of many scientific and popular articles on soils and soil fertility.

UMC Faculty Members Win Honors, Awards

Saul S. Weinberg, professor of art history and director of the Museum of Art and Archaeology at UMC, has received the $1,000 Byler award for 1974.

The award — presented annually since 1971 — is given to a UMC faculty member who exhibits outstanding character and ability in his particular field. A faculty committee recommends the recipient to the chancellor.

Weinberg has indicated that he would use the gift in connection with the museum.

The award was established with a gift from William H. Byler, UMC alumnus and retired senior vice president of the U. S. Radium Corporation.

Weinberg has been on the UMC faculty since 1948 and has directed many important excavations in Greece, Cyprus and the Middle East. He currently is enroute to Jerusalem where he will spend the summer cataloging artifacts obtained during excavations last year.

★★★★★

David Davis, professor and associate chairman of psychiatry at UMC, has been awarded an M.D. degree by the University of Glasgow in recognition of his research in alcoholism and other outstanding professional accomplishments.

Dean William D. Mayer of the School of Medicine said that the Scottish medical doctorate is the highest academic honor conferred by medical schools in the United Kingdom. Davis was graduated from the Glasgow school in 1949.

Davis, member of the UMC faculty since 1960, is a fellow of the American College of Psychiatrists, the Royal Society of Health of England and the College of Psychiatrists of England. He will become president in May of the Central Missouri Psychiatric Association. He is past president of the Missouri Academy of Psychiatry and served as a visiting scientist at the National Institute of Mental Health at Bethesda, Md.

★★★★★

Robert R. Paddleford was chosen to receive the Distinguished Teacher Award of the School of Veterinary Medicine for 1974. The award is sponsored by the Norden Laboratories and is given to a teacher who is voted the most outstanding by students.

Paddleford received his D.V.M. from UMC in 1970 and was an intern at the University of California-Davis for a year. In 1971 he returned to UMC as a resident in anesthesiology. In 1973 he completed the residency and was appointed assistant professor of veterinary medicine and surgery. In that position he teaches in the anesthesiology unit of the segmented curriculum, is advisor to the resident in anesthesiology and is director of the intensive care unit of the Veterinary Medical Hospital-Clinic.

★★★★★

Robert M. Eastman, professor of industrial engineering, was awarded the Best Teacher Certificate by the 161 members of the May graduating class of the College of Engineering.

He was cited for "his expert knowledge of the subject he teaches, his genuine interest in his students, his ability to communicate with them, and his unselfish giving of both his time and his experience."

A faculty member at UMC since 1955, Eastman earned his A.B. in accounting at Antioch College (1940), his M.S. in industrial engineering at Ohio State University (1948) and his Ph.D. at Pennsylvania State University (1955). His fields of specialization are operations research, engineering economics and operations analysis.

★★★★★

Hans O. Mauksch has been presented a plaque as an award for his article "Patient Care as a Perspective for Hospital Organization Research" published in Organization Research on Health Institutions. He is professor of sociology and chief of the section of behavioral science at UMC.

The book includes contributions of researchers and scholars who examined the state of organizational research in the hospital field. The papers were presented in 1970 at a symposium, and later some revisions were made in light of interactions at the meeting. Publisher is the Institute for Social Research at the University of Michigan.

Mauksch's award was presented by the American College of Hospital Administrators. His article deals with the various "worlds" that make up a hospital, i.e. the world of medicine, the worlds of nursing, administration, maintenance, social work, and the interactions or differentiation of those involved in operating a hospital.

He suggests that reorganization of hospital processes might lead to better patient care and that unity of communications and the development of social identity may be beneficial.

★★★★★

Fifteen UMC faculty members have been named "outstanding educators of America" because of their professional and civic achievements. They will be featured in the 1974-75 book.

Educators selected from the Columbia campus included Chancellor Herbert W. Schooling; J. Wendell McKinsey, assistant dean of agriculture; Harold F. Breimyer, professor of agricultural economics; Douglas Grouws, assistant professor of mathematics education; John K. Beem, associate professor of mathematics; David J. Rodabaugh, associate professor of mathematics; Keith W. Schrader, associate professor of mathematics; William M. Jones, professor of English; John R. Roberts, professor of English and director of English graduate students; James O. Davis, professor of physiology; John M. Kuhlman, professor of economics; Jay B. McGarraugh, associate professor of civil engineering; Meyer Reinhold, professor of classical studies; Cecil V. Roderick, professor of agricultural education; and Edwin M. Kaiser, associate professor of chemistry.

Transfer Students Successful

Studies at all four campuses of the University of Missouri show that, on the average, junior and community college students who transfer to the University are generally academically successful.

A. G. Unklesbay, the University's vice president for administration, said studies at the Columbia, Kansas City, Rolla and St. Louis campuses reveal that the junior college transfers generally undergo "transfer shock" the first semester at the University.

"During that first semester, transfer students usually experience drops in grade point average (GPA) compared to that gained at the junior college," Unklesbay said the studies indicate. "However, after that first semester, the transfer students normally recover and develop their grade points back to the level achieved in their junior colleges."

The studies, made by admissions staff members on each University campus, covered four regular semesters — the fall and winter terms of 1971-72 and 1972-73.

"Some people have had the idea that junior college transfers do not do well academically at the University," Unklesbay said. "The results of these studies tend to refute that theory. The 'transfer shock' that the students suffer their first semester is not surprising and to me seems a normal happening. The fact that they recover from it shows that capable students who work hard can perform well at the University."

The University of Missouri and the junior colleges have worked together for the last ten years to ease academic transfer problems, Unklesbay added. Each year the University sponsors a "transition" conference at which representatives of the University's four campuses and the state's junior colleges discuss matters affecting the institutions.

The 1974 conference, held in Columbia in March, covered such topics as articulation agreements, institutional cooperation and credit transfer. Other topics in the past have included financial aid for junior college transfer students, the associate of arts degree and campus environment.

Unklesbay heads the University's representatives on the University-Junior College Committee, established in the mid-1960s. The committee meets periodically and includes representatives from junior and community colleges in Missouri and representatives from the registrar and admissions offices and faculty of the University.

Graduate School and Research Notes

ENERGY RESEARCH AND DEVELOPMENT CONFERENCE — A conference on energy research and development and management briefing devoted to Project Independence, the program to make the U. S. self-sufficient in energy, will be held on June 20-21, 1974, in Washington, D. C. Presentations will be made by scientific officials from the Federal Energy Office, Atomic Energy Commission, Office of Coal Research, Bureau of Mines, National Science Foundation, and the Environmental Protection Agency detailing what the federal government and key industries will be doing for the program. The conference will be devoted exclusively to a comprehensive coverage of energy research and development programs and it will document the positive action that is being taken to solve energy problems. It will also give information on present and future plans to spend a minimum of $11 billion over the next five years on energy, research and development. Details on the complete program and registration information are available from the Government Institutes, Suite 303, 4733 Bethesda Avenue, N. W. Washington, D. C. 20014.

INSERVICE TEACHER CORPS GRANTS — Joint applications from institutions of higher education and local educational agencies for continuing the second year of inservice Teacher Corps project grants must be received by June 14, 1974, the Office of Education announced.

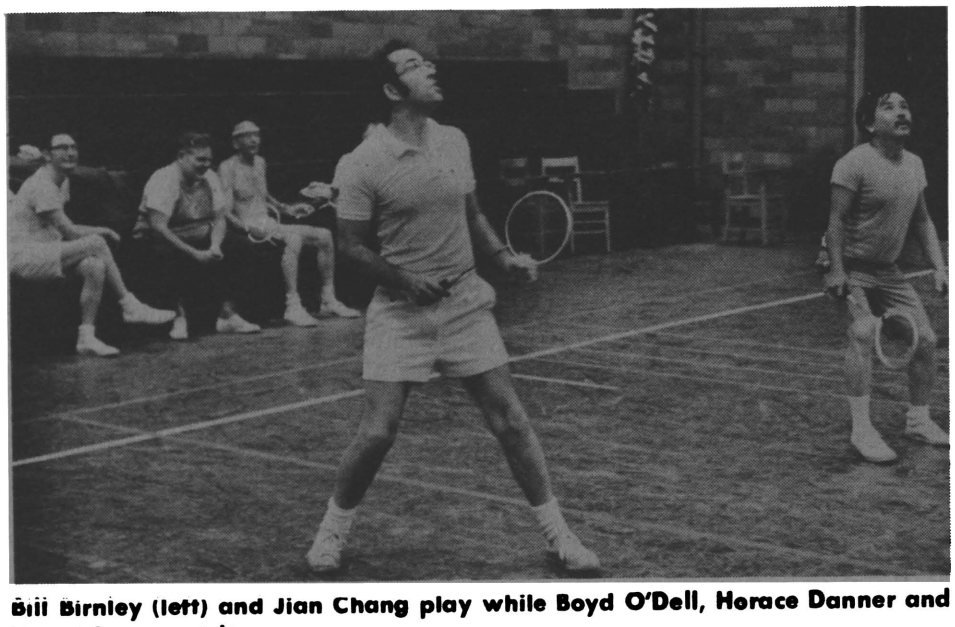
AEROSPACE FELLOWSHIP PROGRAM — A National Aerospace Fellowship Program to encourage women and members of minority groups to seek careers in engineering and certain scientific fields has been launched by the National Aeronautics and Space Administration. NASA has already reached agreement with seven universities to offer 20 fellowships to junior and senior students who are in the top third of their class and who have shown a potential for space-related science and engineering careers. Students who achieve outstanding records in this program and who have an interest in aerospace technology fields will be offered positions with NASA at the time of their graduation if appropriate job vacancies exist. NASA intends to expand the program during the next academic year.

MATERIALS AND INSTRUCTION DEVELOPMENT — The Materials and Instruction Development Section in the Division of Pre-College Education in Science, National Science Foundation, encourages scientists and science educators to carry out projects for the improvement of pre-college education in mathematics, the sciences, and social sciences. Of special interest are: 1) Projects that are designed for a broad ability range of students; 2) Projects that are interdisciplinary in nature, particularly those that involve the social sciences; 3) Projects that relate science and technology to environmental and societal problems; 4) Projects that involve application of innovative educational technologies; and 5) Projects that involve experimentation with new structures and procedures in science education. High priority will be given to consideration of proposals for development of materials that relate science and technology to environmental and societal problems. Prospective applicants normally find it desirable to submit a proposal in preliminary form as a basis for discussion before a formal request is prepared. This is usually in the form of a letter of a few pages that describes what the prospective applicant proposes to do, the rationale behind the proposed project, the personnel who would be involved, the expected outcome, and the nature and amount of support needed from NSF. For further information request NSF brochure E-75-3.

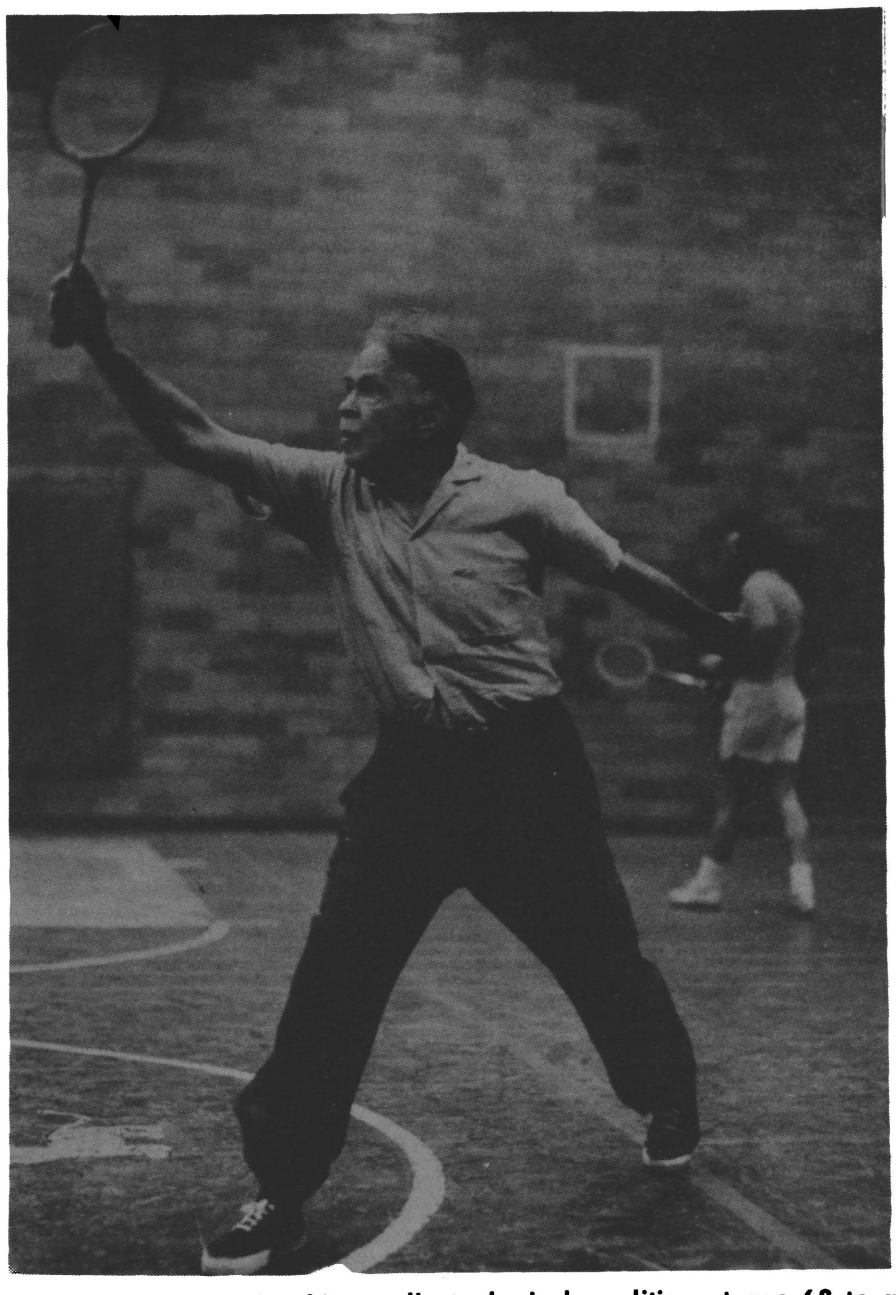
NEA PUBLIC MEDIA PROGRAMS FOR FY 1975 — The National Endowment for the Arts has issued guidelines and deadlines for its FY 1975 Public Media Program. Two separate program components have been developed:

(Continued on back page)

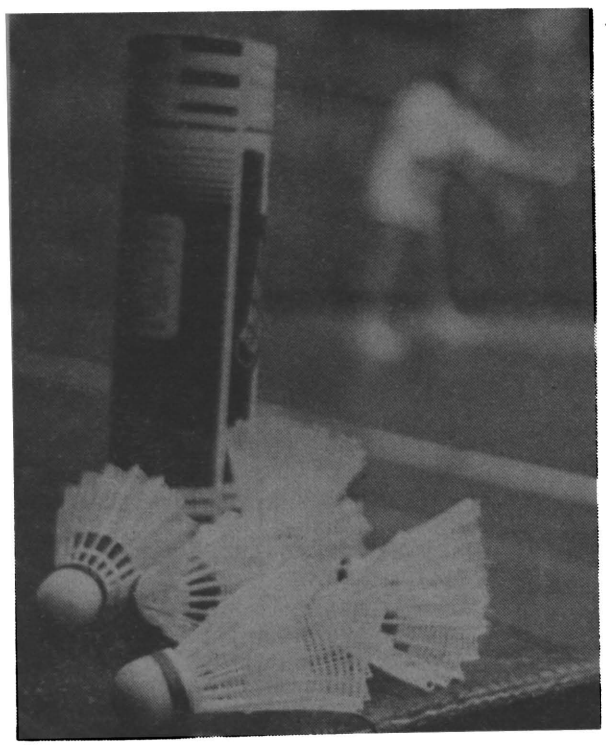
Badminton Keeps Faculty In Shape

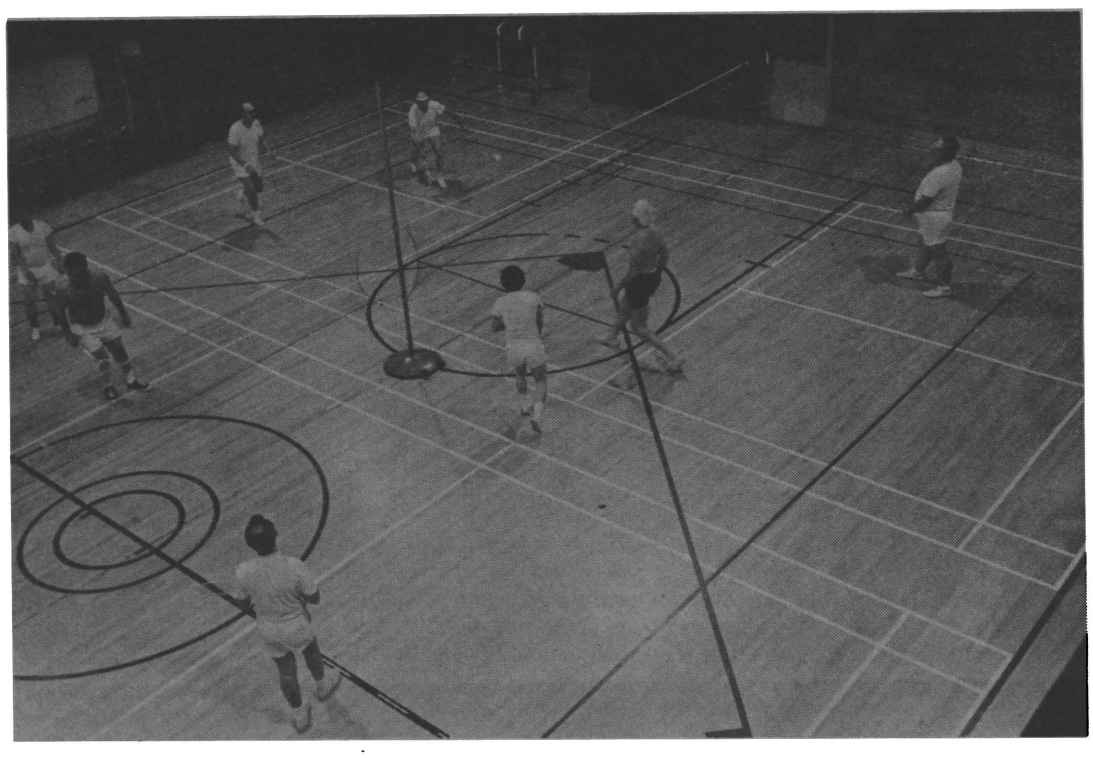


Bill Birnley (left) and Jian Chang play while Boyd O'Dell, Horace Danner and Ernest Sears watch.



Newell Gingrich credits his excellent physical condition at age 68 to a weekly badminton game.





Newell S. Gingrich, professor emeritus of physics, is a spry 68-year-old who credits his excellent physical condition to regular exercise.

Not one to spend all his time with books, Gingrich has been playing badminton nearly every Monday night since he came to UMC in 1936 — 38 years ago. Rare is the event which prevents him from his exercise routine.

"A sissy game" was the way Gingrich had badminton pegged before he tried it in Canada nearly a half century ago. He was teaching at Mt. Allison University in Sackville, New Brunswick, and "there wasn't much to do in that small town" so someone introduced him to the game of badminton.

"I found I got a kick out of it," Gingrich says now. "It could be a wonderful game."

When he came to UMC in 1936, it was the first time he had taught at a state school and he soon found that "in this democratic world of state schools the faculty don't get the special privileges they get at a private school."

He was disappointed to find no faculty clubhouse and for awhile thought it would mean the end of his recreational activities.

But shortly afterward, he was "pleasantly surprised" when he received a letter from Mary R. McKee who was in the process of organizing faculty sports.

Gingrich calls the former chairman of women's physical education the "bright and shining light" who made faculty recreation a reality and a success.

Badminton was on Miss McKee's list, but Gingrich says "there weren't many people around here who had ever played it." Interest in the sport grew until they had three courts going "and people sitting and waiting to play."

They managed to keep the badminton games going "even during the war" and the sport has retained its popularity among the faculty.

Badminton can benefit a person physically and mentally, Gingrich says. "It's exercise with fun . . . it's excitement, trying to compete with others . . .you learn to have coordination that is quick . . . it gets your emotions working."

Gingrich says it's important to set an "arbitrary rule — to make a commitment to regular exercise with fun. Life is so busy that you have to set a time."

He gets emotional satisfaction from the game as well: "It makes me chuckle to trim some of the younger fellows 15 love — but of course I can only do that so long."

Faculty Council Minutes

April 25

Campus Police. A reply to the Council's inquiry concerning the Campus Police was received from Chancellor Schooling and it was distributed to Council members. Following Chief Mason's invitation, a sub-committee of the Executive Committee examined the Campus Police filing system and this committee reported to the Council. A draft of a reply to Chancellor Schooling was presented to the Council and following some modification, Prof. Holroyd proposed, Prof. Whitworth seconded, that the letter be transmitted to the Chancellor. Motion passed by voice vote. (A copy of the letter appeared in the May 3 Bulletin in Brief.)

Election of a new member to the Resource Management Council. Following the termination of Prof. Utz's term on the Resource Management Council a replacement is required. Prof. Mauksch proposed, Prof. Stoeckle seconded, that Prof. Hunvald be elected. Motion passed by voice vote without dissent.

Faculty Vote. Prof. Bivens reported that the ballots requesting the Faculty's vote on the transfer of some legislative authority to the Faculty Council, as provided for in the new By-laws, were being distributed to the Faculty.

Reports. a) Profs. Utz and Spencer reported on the meeting of the Inter-Campus Faculty Council. b) Prof. Hunvald reported that he would attend the special meeting of the Board of Curators on April 26.

May 9

Report on Police Department Problems. The Council discussed questions which had been raised regarding the operation of the campus police department, including criticisms of the Council, and in particular letters received from Professors Wiecek, Cunningham and Maddux. (These letters are attached to these minutes.)

Prof. Hunvald proposed, Prof. Mauksch seconded, the motion that the following statement be adopted.

"We adhere to the statements in our letter of April 29, 1974, to Chancellor Schooling and wish to point out again that the examination of the files of the campus police department does not indicate improper surveillance activities nor collection of 'dossiers' on faculty members.

We wish to emphasize that the Faculty Council agrees with Professor Wiecek and the statement of the History Department in condemning improper surveillance and "the gathering of political intelligence on faculty." Such practices are particularly deplorable if done by an educational institution.

We ask that a committee to supervise the disposition of the 'miscellaneous materials' gathered since 1969 by the Investigative Unit of the campus police department be appointed as soon as possible, and that the disposition of these 'files' be accomplished by September 1, 1974. If there is material in these 'files' relating to any faculty member, that faculty member should be informed of this and given the opportunity to examine the material.

Prompt action with such disposition will help alleviate concern over alleged past practices and reinforce the principle that improper police activities and collection of material have no place on a university campus."

Motion passed by voice vote without dissent.

Resignation of Prof. Wiecek. It was moved by Prof. Headley, and seconded by Prof. Naumann, that the Council accept Prof. Wiecek's resignation with regret. Motion passed by voice vote without dissent.

Report of the Nominating Committee. The committee (Professors Bivens, Holroyd and Evans) appointed to make nominations for the positions of Chairman and Vice-chairman of the Council for the 1974-75 Academic Year reported to the Council. Prof. Daniel was re-elected as chairman and Edward Hunvald was re-elected as Vice-chairman.

Reports and Announcements.

a. Prof. Daniel reported on the faculty ballot changing By-laws and assigning legislative authority to the Faculty Council. Both items were approved by the faculty. The Council wishes to thank the committee (Divisional Policy Committee Chairpersons) who counted ballots and reported the results. This report is attached to the minutes.

b. Prof. Adair reported on discussions with minority students.

c. Prof. Murdock suggested the establishment of an agenda committee for the Council so that the Council could, each year, select areas in which it would like to devote time for their consideration. The proposal will be discussed at a future meeting of the Council.

May 1, 1974

Professor Robert Daniel
Chairman Faculty Council

Dear Professor Daniel:

You may recall that I was to submit my resignation from the Faculty Council at the end of the present semester because I will be going on leave. I would like to anticipate myself by a few days and submit my resignation now, effective immediately. Since only a few days are involved, this amounts to only a symbolic gesture, but it is a gesture that I feel at least one person must make.

I resign in protest against the letter approved by the council that went to Chancellor Schooling over your signature concerning police spying on faculty. The least that the faculty could have expected from us was a loud and firm protest against this abominable practice; instead, they got not even a whimper. The only thing condemned in the letter was the investigative reporting that brought police spying to light. This is an exact reversal of our moral obligation; in the formula of the Anglican Confession, we have done what we ought not to have done and failed to do what we ought to have. We condemned the people who revealed the wrongdoing, and did not condemn those who perpetrated, authorized, connived at, or hid it. This brings shame on the Faculty Council and the faculty we represent. I wish to disassociate myself from this dishonorable act.

I realize this is irregular, but if possible, I would like this letter entered on the minutes of the meeting where my resignation is accepted. If that is not possible, I would the minutes to carry this entry:

Professor Wiecek disavows the action of the Faculty Council in its response to the Chancellor on the matter of police spying, and states that he would have voted against sending the letter had he been able to be present at the vote.

Yours Truly,
William M. Wiecek
Associate Professor

May 3, 1974

TO: Professor Robert S. Daniel
Chairman, Faculty Council

Dear Professor Daniel:

The Department has asked me in transmitting a copy of the accompanying letter to you as chairman of the faculty council to indicate that "the Department of History feels that the Faculty Council has cravenly acquiesced in the unacceptable proposition that the collection of political intelligence has any place in the life of a university."

The Department also expressed its confidence in Professor William Wiecek and went on record in support of his stand in regard to this matter.

Cordially,
Noble E. Cunningham, Jr.
Chairman

NEC-dcm

May 3, 1974

Chancellor Herbert W. Schooling
105 Jesse Hall

Dear Chancellor Schooling:

The Department of History unanimously adopted the following resolutions at a regular meeting of the department on May 3, 1974:

The History Department of University of Missouri-Columbia condemns the gathering of political intelligence on faculty and other members of the UMC community by university police. We urge the UMC administration to take the following measures:

1. State publicly that such practices are improper and should never happen again.
2. Publish a written reprimand to all persons presently employed by UMC who were responsible in any way for collecting this intelligence or authorizing its collection, or who failed to stop its collection.
3. Destroy the files and note cards after giving each person in them an opportunity to collect them if they want to.

Cordially,
Noble E. Cunningham, Jr.
Chairman

NEC: dcm
cc: Dean Armon F. Yanders
Professor Robert Daniel

May 7, 1974

TO: Hugh Denney, Divisional Faculty Council Representative-Incumbent
FROM: Marilyn Maddux, Divisional Faculty Representative-Elect

As I discussed with you today, I have been directed by the faculty of the School of Social Work to see that our considerable concern regarding the Faculty Council's handling of the campus police issue is expressed to that body. Since you will be representing the Division at the Faculty Council meeting on Thursday, May 8 when the issue is again a part of the agenda, we want you to convey to the Council that the faculty of the School of Social Work, in a meeting on Friday, May 3, unanimously voted "to support Dr. Wiecek in his protest regarding the smoothing over by the Faculty Council of the faculty dossier issue."

We, as a faculty, will appreciate a report back from you regarding the subsequent action of the Faculty Council.

May 9, 1974

Professor Robert Daniel
218 McAlester

Dear Professor Daniel:

The committee of Educational Policy Chairmen verified and counted the ballots from the recent election.

One-half of the committee verified ballots and removed the outer envelopes from 9 to 11 a.m. Tuesday, May 7. Ballots from Professor Emeritus's, retired faculty and ballots without a faculty name were discarded. Also one ballot from a faculty member paid by the St. Louis Campus was discarded. Most of the ballots were verified with the faculty directory and supplement enclosed. Those not found in the directory were verified through Owen Koeppe's office, the Records office, the Personnel office or the Payroll office.

The members of the committee verifying ballots included: Pat Hilderbrand; Kenneth Schneeburger; Coy McNabb; Roger Harting; Donald Shawver.

The other half of the committee counted ballots at 3:00 p.m. the same day. They were: James Westbrook; William Lichte; Byron Sherman; John Murdock; Kenneth Niemeyer.

You should receive a letter from James Westbrook with the results of the election.

Sincerely,
Pat Hilderbrand
Assistant Professor
Housing & Interior Design

PH:hp

May 8, 1974

Prof. Robert S. Daniel
Chairman, Faculty Council
218 McAlester

Dear Professor Daniel:

Please accept this as the report of the Committee which counted the ballots in the faculty election.

on issue Number One:

Approved 547

Do not approve 66

on issue Number Two:

Approve (either "approve" or "approve only if outcome of vote on No. 1 is positive) 545

Do Not Approve (either "Approve only if outcome of vote on No. 1 is negative" or "Do not approve") 68

Sincerely,
James E. Westbrook
Professor of Law

JEW-bsw

Published Faculty

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

Earl F. Lundgren, chairman of the department of management, has had two books published recently. "Organizational Management: Systems and Process," was published by Canfield Press, San Francisco, and "Encyclopaedic Dictionary of Management and Manufacturing Terms," second edition, was published by Kendall Hunt Publishing Co., Dubuque, Iowa. The latter was coauthored with A. J. Lindemann and H. K. von Kaas.

COLLEGE OF ARTS AND SCIENCE

Robert W. Habenstein, professor of sociology, and Stuart Queen have had their book, "The Family in Various Cultures," printed in a fourth revised and expanded edition by J. B. Lippincott.

"Decisions to Relocate the Residence of Aged Persons," a final report to the Institute of Mental Health, has been submitted by **Habenstein** and **Ellen Biddle,** center for Research in Social Behavior. The research on which the report is based was the pilot portion of a three-year study of the residential pathways and quality of life of the aged in central Missouri. **Charles Mindel,** assistant professor of sociology, has joined the project and will study the life of the elderly living with relatives.

Donald H. Kausler, professor of psychology, is author of a textbook for advanced undergraduate and graduate level courses in human learning and memory. The book is titled "Psychology of Verbal Learning and Memory" and was published by Academic Press of New York and London.

COLLEGE OF EDUCATION

A textbook titled "Evaluation: A Practical Guide for Teachers" written by **Terry D. TenBrink,** associate professor of education, has just been published by McGraw-Hill.

The 512-page book deals with how to collect, interpret and use data in decision making. The text describes how the classroom teacher can plan and implement the various evaluation techniques.

SCHOOL OF MEDICINE

Alan Oestreich, pediatric radiologist and assistant professor of radiology and child health, has published an article "Air-Fluid Level Detection in Neonatal Lung Cyst Identification" in the journal, "Pediatric Radiology."

Thomas W. Burns, chief of the division of endocrinology in the department of medicine, is a contributor to the fifth edition of the 1,000-age "Pathologic Physiology: Mechanisms of Disease," published recently by W. B. Saunders Company. His chapter is devoted to the endocrine system, which is composed of glands which secret one or more hormones directly into the bloodstream.

"Immediate Care of the Acutely Ill and Injured," edited by **Hugh E. Stephenson Jr.,** professor of surgery, has been published by the C. V. Mosby Company of St. Louis. The text will be used to help train the increasing number of health professionals needed to provide prompt, effective emergency treatment.

The selection of two UMC professors from the same department to positions in the same national organization is most unusual — but the similarities don't stop there. These two have the same last name as well.

W. R. Miller, professor of industrial education, was named vice president of the American Industrial Arts Association (AIAA) and F. M. Miller, assistant professor of industrial education, was selected treasurer of the organization's council on elementary school industrial arts at the recent AIAA international meeting in Seattle.

Gifts and Grants

COLLEGE OF AGRICULTURE

A $25,000 grant to support pioneer work in the tube feeding of sheep and swine has been awarded by the National Institute of Health (NIH).

J. Malcolm Asplund, UMC animal husbandry researcher, guides the "infusion feeding" project. It's the same technique used to keep humans alive when they can't digest food normally.

COLLEGE OF ARTS AND SCIENCE

Clifford W. Thompson, professor of physics, has been awarded a National Science Foundation grant for $4,900. The project is entitled, "Elastic and Inelastic Neutron Diffraction Studies", and the research will be conducted at the Missouri University Research Reactor as part of the UMC graduate program.

Timothy J. Materer, assistant professor of English, has received a $2,000 stipend from the National Endowment for the Humanities for summer studies at Cambridge, England.

Materer will spend June and July at the Modern Art Museum known at Cambridge as Kettle's Yard. He applied for a summer grant outside his English specialty and was awarded one in art, which will enable him to study the influence poet Ezra Pound and sculptor Henri Gaudier had on each other.

Three UMC physicists have received summer fellowships for their research.

Brian DeFacio, associate professor of physics, has been named a visiting staff member for the summer at the Los Alamos Scientific Laboratory in New Mexico where he will be a member of the theoretical physics group. The Los Alamos Laboratory is an Atomic Energy Commission Laboratory operated by the University of California.

Justin C. Huang, associate professor of physics, has received a National Science Foundation grant to attend the Aspen Center for Physics in Aspen, Colorado. The Aspen Center is an international group of theoretical physicists and astrophysics.

Henry W. White, assistant professor of physics, has received a summer position at the Ames Laboratory US AEC and Department of Physics, Iowa State University. Dr. White has also been named an Associate Staff Member of the Ames Laboratory Staff, which means he will be consulting there in the future; and that he has access to a large amount of expensive research equipment.

Peter M. Gardner, associate professor of anthropology, has been granted $90,400 by the National Science Foundation to undertake a 16-month anthropological linguistic study among Indians of the Slavey tribe in the Canadian Arctic. The research is also supported by a $6,500 contract with the National Museums of Canada.

He has applied for a leave of absence to direct the study, which is concerned with the extent to which people share concepts and the causes of such sharing. The project follows up on an earlier 19-month study in southern India and a preparatory study in the Arctic last summer funded by the UMC Research Council.

Gardner will be accompanied by another researcher and a consultant, and next year will be joined by a student.

COLLEGE OF EDUCATION

Hercules C. Kazanas, professor of industrial education, has been awarded a Fulbright-Hayes Senior Lecturer's Grant to Athens, Greece. Kazannas will combine a sabbatical with the one-year grant which will begin in August. He will be affiliated with the National Institute for Vocational and Technical Teacher Preparation in both an advisory and lecturer's capacity.

SCHOOL OF MEDICINE

Twenty faculty members have been named to initiate or continue research studies in the School of Medicine through grants from governmental agencies and industries.

The Public Health Service gave 17 grants. The recipients are: **Jack M. Colwill**, professor of internal medicine, $64,098 for a health professions special project grant program; **Herbert S. Goldberg,** associate dean of medicine, $164,303 and $145,091 for general research support; **A. Sherwood Baker,** chairman of community health and medical practice, $18,219 for a preceptorship training project: **Charles E. Mengel,** chairman of internal medicine, $21,031 for study of tryptophane hematologic and neoplastic disease, and $24,348 for study of the effect of hyperoxia on normal and neoplastic cells; **William S. Irvin,** associate professor of internal medicine, $24,699 for research of the virus alterations of the immune response; **Patrick D. Harris,** associate professor of physiology, $22,300 for study of the microvascular mechanisms in hyper- and hypotension. **Constantine S. Anast,** professor of pediatrics, $38,869 for research of calcitonin and parathyroid hormone in children; **Richard E. Doyle,** assistant professor of veterinary physiology and pharmacology in charge of animal laboratory medicine, $24,543 for research, animal facility and program improvement; **Helen E. Klein,** assistant professor of psychiatry, $86,606 for a transcultural study in discharge of schizophrenics; **Benedict J. Campbell,** chairman of biochemistry, $6,640 for a study of metal mediation of pituitary hormonal regulation; **Randall Wood,** associate professor of internal medicine, $36,023 for research of tumor lipids, metabolism and structure: **James O. Davis,** chairman of physiology, $11,169 for study of the humoral factors in heart failure and hypertension; **Beryl J. Ortwerth,** associate professor of ophthalmology and biochemistry, $18,610 for study of the role of transfer RNA in the control of cell division.

Grants also were awarded to **Kaye Kilburn,** professor of internal medicine, $36,000 from Cotton Incorporated, Raleigh, N. C., for research into the identification and evaluation of biologically active cotton dust; **Leonard H. Brubaker**, associate professor of internal medicine, $2,000 from the Upjohn Company for research with solumedrol; **Warren Thompson,** associate professor of psychiatry, $579,244 from the Missouri Division of Mental Health for study of computer applications in clinical psychiatry; **Robert L. Wixon,** professor of biochemistry, $21,275 from the National Institute of Arthritis, Metabolism and Digestive Disease, for study of histidine biosynthesis in animal development; **Gwilym Lodwick,** chairman of the radiology department, $5,000 from the Eastman Kodak Company for study of radiographic image analysis and $10,771 from the Institute of General Medical Science for continued radiologic studies; **Calvin Woodruff,** professor of pediatrics, $600 from the National Cystic Fibrosis Research Foundation for a clinical center for cystic fibrosis; **Charles E. Mengel,** $18,000 from the Office of Naval Research for study of in vivo effects of oxygen and varying gas mixtures at hypo, iso, and hyperbaric pressures on erythrocytes and brain; and **Aimee N. Moore,** director of the nutrition and dietetics department, $5,265 for a clinical instructor workshop.

Daniel Hurst, assistant professor of medicine, has been awarded a Young Investigator Pulmonary Research Grant by the division of lung diseases of the National Heart and Lung Institute. The two-year $30,000 award is based on national competition and is designed to foster the pulmonary research interests of young scientists and physicians by providing them with independent support for a project of their own design. Hurst's project is "Collagen Chemistry in Pulmonary Fibrosis" and concerns, at a molecular level, the biochemistry involved in chronic fibrosing pulmonary disease.

The School of Medicine has received research grants totaling more than $480,000 for nine members of its faculty.

The largest grant was awarded by the Public Health Service to **A. Sherwood Baker,** professor and chairman of the department of community health and medical practice. He received $129,927 for a teaching program for medical students in community health.

Gwilym S. Lodwick, professor and chairman of the department of radiology, was granted $100,407 by the Public Health Service for study of computer analysis of tumor roentgenograms.

Other grants to **Beryl J. Ortwerth,** associate professor of ophthalmology and biochemistry, $22,955 from the PHS for research into the role of transfer RNA in the control of protein systhesis in the lens; **Kaye H. Kilburn,** director of the division of pulmonary medicine, $54,539 from the PHS for study of the prevalence, pathogenesis and control of byssinosis (a disease caused by the inhalation of cotton dust in factories); **Richard H. Martin,** director of the division of cardiology, $87,588 from the PHS for research into medical cardiology; **Patrick Harris,** associate professor of physiology, $31,528 from the PHS for research into the role of transfer RNA in the control of protein systhesis in the lens; **Kaye H. Kilburn,** director of the division of pulmonary medicine, $54,539 from the PHS for study of the prevalence, pathogenesis and control of byssinosis (a disease caused by the inhalation of cotton dust in factories); **Richard H. Martin,** director of the division of cardiology, $87,588 from the PHS for research into medical cardiology; **Patrick Harris,** associate professor of physiology, $31,528 from the PHS for research into microcirculatory control mechanisms and hypertension; **Patrick Henry,** director of the division of hematology-oncology, $46,600 from the PHS for medical and pediatric oncology-hematology studies; **John C. Schuder,** professor of surgery, $21,301 from the PHS for study of minimally-invasive stimulation with implanted diodes; and **Ali Keskiner,** professor of psychiatry at the Missouri Institute of Psychiatry in St. Louis, $5,000 from the Stuart Four Square Foundation of St. Louis for study of restructured community placement.

Faculty Footnotes

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

Earl Cecil, assistant professor of management, and **Earl F. Lundgren,** chairman of the department of management, delivered a research paper titled "Laboratory experiments in patterns of individual decision making," at the annual meeting of the American Institute of Decision Sciences, Midwest Division, in Minneapolis, Minn., May 9-10.

COLLEGE OF AGRICULTURE

William H. Kearby, associate professor of entomology and forest entomologist, has been elected president of the Central States Entomological Society.

COLLEGE OF ARTS AND SCIENCE

Roland A. Hultsch and **Guy Schupp,** both associate professors of physics, presented papers at the joint meeting of the Missouri Section, American Association of Physics Teachers and the Missouri Academy of Science. Hultsch's paper was entitled, "A Missouri Student Science Training Program", and Schupp's paper, coauthored with Robert R. Hurst of UMC and H. J. Nagy of Washburn University in Topeka, Kansas, was entitled, "Double K-Shell Ionization in the Decay of 109 CD."

Schupp was also elected President of the Missouri Section of the American Association of Physics Teachers.

Carla Waal Marston, professor of speech and dramatic art, delivered a paper on rhetoric in the historical plays of Henrik Ibsen at the annual meeting of the Society for the Advancement of Scandinavian Study in Washington D.C.

Brooke B. Cameron, assistant professor of art, won the $200 best graphic media prize given by the Crown Center in Kansas City.

James M. Burk, associate professor of music, gave a presentation of slides from his iconography of the American composer Charles Edward Ives at the University of Minnesota, Minneapolis, during the Minnesota Ives Centennial Festival.

Williams D. Johns, professor of geology, has been appointed to the board of associate editors of the journal "The American Mineralogist," one of the leading journals of mineralogy in the world.

Five members of the art faculty have had works accepted this spring for inclusion in various exhibitions around the nation.

Lawrence Rugolo, associate professor of art and department chairman, won a purchase award for his screenprint "Potted Flower," which was exhibited at the annual "Potsdam Prints '74," a national print exhibition held at the State University College at Potsdam, New York.

Prof. **Lawrence McKinin,** and Asst. Prof. **Jerry Berneche** each have a painting hanging in the "Watercolor U.S.A." annual competitive exhibition at the Springfield Art Museum. Berneche's "Landscape with Figure" and McKinin's "April Snow" will be on exhibit through June 9.

Assoc. Prof. **Donald Bartlett's** small bronze, "Landscape with Figure," was accepted in the Twentieth Annual Drawing and Small Sculpture Show at Ball State University in Muncie, Ind. Bartlett also received honorable mention for his bronze "Lucy" at the Laguna Gloria Art Museum's "Third Dimension" exhibition held in Austin, Texas from April 4-28.

Another of Bartlett's bronzes, "Uncertain Group," was on display in the Spiva Art Center's 24th Annual Competition in Joplin.

Asst. Prof. **Brooke Cameron** is one of 300 midwestern artists whose work was hung by juried acceptance in Kansas City's Crown Center. Cameron's intaglio prints, watercolors and drawings were done over a period of 10 years.

Prof. Cameron's print "Winter" from a set entitled "The 4 Seasons" was also accepted in the 7th Annual Prints, Drawing and Crafts Exhibition at the Arkansas Arts Center, Little Rock, Arkansas.

COLLEGE OF EDUCATION

Reuben Altman, assistant professor and coordinator of programs in mental retardation, presented two papers at the Annual International Convention of the Council for Exceptional Children. The first paper was an invited address titled, "Designing and Developing Training Materials: Content, Format, and Media Variables." The second paper was titled, "A Dissemination Model for a Competency Based Training Program in Special Education."

F. M. Miller, Gene M. Love, Betty Martin, Franklin King and **W. R. Miller** attended a U.S. Office of Education sponsored regional workshop for vocational teacher educators in Lincoln, Neb., where F. M. Miller made a major presentation in the area of "Competency Based Vocational Teacher Education" and W. R. Miller served as chairman for one of the sessions and a member of the workshop planning committee for the four state region.

John Elias, coordinator of distributive teacher education, was a featured speaker at a regional conference sponsored by the Iowa Department of Public Instruction which focused on the topic "Alternatives for High School Dropouts."

Elias also spoke at a conference dealing with professional personnel development in vocational-technical education, sponsored by the Texas Education Agency during the week of May 15. He reported the results of a three-year curriculum development project in the area of professional development for coordinators of cooperative occupational education.

COLLEGE OF HOME ECONOMICS

Anna Cathryn Yost, associate professor, has been invited to be a member of the Board of Governors of the Eye Research Foundation of Missouri Inc.

Joseph Falsetti, professor of housing and interior design, was elected president of the Environmental Art National Conference.

Doris Saxon, professor of clothing and textiles, will serve as president of the Mortar Board alumnae chapter next year.

SCHOOL OF MEDICINE

Hugh E. Stephenson Jr., professor of surgery, was a speaker and member of the faculty at the first International Symposium on Spontaneous Regression of Cancer, held May 9-10 at Johns Hopkins Medical Institutions in Baltimore. The meeting was sponsored by the American Cancer Society.

Merlyn Herrick, director of the Educational Resources Group, is serving as a chairman of a "task force" to implement a procedure for the exchange of learning and evaluation materials among Midwest medical schools.

At a meeting in Minneapolis on May 3, the committee presented its recommendations, including a proposal that the materials be catalogued and that a regional center be located in Columbia on the UMC campus.

Thomas W. Burns, chief of the division of endocrinology in the department of medicine, has been elected governor-elect of the Missouri division of the American College of Physicians. He is the first out-state physician chosen to succeed to the governorship.

Leaves and Sabbaticals

Robert Boice, professor of psychology, will be on sabbatical from Jan. 1 to June 1, 1975 to compile a research monograph and collaborate on research.

C. Arthur Berndtson, professor of philosophy, will be on sabbatical from Aug. 22 to Dec. 19 to write several chapters of a scholarly book in metaphysics, entitled "Power, Form and Mind."

Gerald H. Clarfield, associate professor of history, will be on sabbatical from December 1974 to June 1975 to finish writing his current book, "Timothy Pickering, a Biography."

Stanley Gabis, professor of political science, will be on leave Sept. 1, to Dec. 31 to conduct research on the theory and problems of political and administrative reform.

Robert E. Harris, associate professor of chemistry, will be on sabbatical for a year, starting Sept. 1 to do reading, writing and research at the University of California at Los Angeles. He hopes to collaborate with Prof. R. L. Scott of the UCLA chemistry department who is an expert in the field of solution thermodynamics.

William H. Kearby, associate professor of entomology and forestry, will be on leave from June 3 to July 12 to participate in the Forest Service Faculty Program at Coeur D'alene, Idaho.

Hyunyong Kim, associate professor of chemistry, will be on leave for a year, starting Sept. 1, to teach and conduct research at the Korean Advanced Institute of Science in Seoul.

John H. Mueller Jr., associate professor of psychology, will be on sabbatical from Jan. 1 to June 1, 1975 to complete research programs on the effects of anxiety in memory encoding and the role of encoding in reducing negative transfer.

William H. Peden, professor of English, will be on sabbatical for the fall 1974 semester to prepare for publication a book-length manuscript on the life and writings of Hubert Montague Crackanthorpe.

Michael C. Robbins, associate professor of anthropology, will be on sabbatical during the fall 1974 semester to complete monographs on the modernization of the Baganda of Uganda and to initiate field work among Baganda migrants in Kenya.

James H. Stitt, associate professor of geology, will be on sabbatical from Aug. 26 to Dec. 19. During September he will travel to England to attend the Ordovician System Symposium and the pre-meeting field trip to the type areas of the Ordovician.

Arthur E. Rikli will spend four months of his sabbatical leave as a visiting professor at the Nippon Medical School, Tokyo, Japan, conducting cooperative research with Eiichi Kimura, chairman of the department of internal medicine. The invitation was extended by the Japanese Society for Promotion of Science (JSPS). While in Japan, Rikli plans to study how health services are provided to people geographically remote from quality medical care, with particular emphasis on the cardiovascular patient.

He will travel to Tokyo via Europe and return via the South Pacific studying the health care systems of these countries in preparatin for teaching a course in Comparative Health Systems. Riki is coordinator of the Missuri Regional Medical Program, and professor of community health and medical practice. His sabbatical extends from July 1, 1974 to June 1, 1975.

Helen Anderson, associate professor of nutrition and acting co-chairperson of human nutrition, foods and food systems management, will be on leave from Nov. 3, 1974 to Jan. 13, 1975 to write manuscripts for publication.

Thomas Edward Carroll, associate professor of sociology, will be on sabbatical from January to June 1975 to do a research study on patterns of criminal homicide. He plans to gather data from the records of the Police Department of Kansas City and from the prosecuting attorney of Jackson County.

Ned Allen Ford Jr., associate professor of accountancy, will be on leave for a year, starting in July, to serve as a visiting professor at the University of Texas-Austin. While there he will be obtaining exposure to the tax program offered at the school. The University of Texas is one of the few schools to offer a concentration in the area of taxes.

John Franklin Galliher, associate professor of sociology, will be on sabbatical from September to January to write a book on crime and criminal law.

James A. Gavan, professor of anthropology, will be on sabbatical from January to June 1975 to analyze research data already collected and lay groundwork for future research and bring his course outlines up to date.

William F. Glueck, professor of management, will be on sabbatical from Aug. 26 to Jan. 13 to conduct research. He plans to consult with experts at Harvard Business School, Northwestern University, Purdue University, Vanderbilt University and McGill University.

David E. Robertson, associate professor of management, will be on leave for a year, starting Sept. 1. He will be a visiting associate professor of management at Colorado State University.

Margaret P. Sommers, assistant professor of romance languages, will be on sabbatical from August to January to complete research for a book-length study of French satiric dialogues of the 16th and 17th centuries. She plans to travel to Paris to work at the Bibliotheque Nationale.

Byedine Tuthill, professor and assistant director of nutrition and dietetics, will be on leave from August to February to study newer techniques in the behavioral aspects of management with special emphasis on management by objectives and team management at the University of Washington, Seattle. She will also be a visiting lecturer at Hacettepe University in Ankara, Turkey.

Calendar of Events

ACADEMIC SCHEDULE

June 10: Summer School Registration and Orientation.
June 11: Classwork begins, 7:30 a.m.
July 4: Independence Day Recess.
July 5: First Four-Week Session closes, 5:00 p.m.
July 8: Registration —Second Four-Week Session.

CONFERENCES, SHORT COURSES

June 2-6: Supermarket Operator's Management Program Memorial Union.
June 3-5: 7th Annual Arson Investigator's Seminar Ramada Inn.
June 4-7: State 4-H Week — Campus-wide.
June 9-14: 1974 Scholastic Publications Workshop Campus-wide.
June 9-14: Summer Workshop in Electrical Power Generation — Arts & Sciences Building.
June 10-11: Mo. Assoc. of School Administrators Annual Summer Conference — Ramada Inn.
June 11-13: 8th Annual Conference on Trace Substances in Environmental Health — Memorial Union.
June 11-12: Public Affairs Round Table — Union.
June 11-12: Rapid Reading Short Course Section I & II — Agriculture Bldg.
June 11: Campus Computing Center Seminar: "Instructor's Orientation," 3:40-4:30 p.m. — 106 Lefevre Hall.
June 12: Campus Computing Center Seminar: "Mathematical-Statistical Software," 3:40-4:30 p.m. — 106 Lefevre Hall.
June 16-22: University Music Camp — Campus-wide.
June 16-28: Engineering and Computer Programming — UMC.
June 17-18: Production Credit Management Conference — Ramada Inn.
July 7-19: Engineering and Computer Programming — UMC.
July 8-26: Minority Broadcasting Workshop — Union.
July 8-26: Urban Journalism Workshop — Union.
July 10-12: Mo. Extension Homemakers Conference Memorial Union.
July 10: SAS and SPSS Workshops, 3-5 p.m. — 106 Lefevre.
July 11-13: 3rd Advertising Management Seminar for Smaller Agencies — Ramada Inn.
July 14-26: 3rd Annual Graduate Institute of Cooperative Leadership — Stephens College.
July 17: SAS and SPSS Workshops, 3-5 p.m. — 106 Lefevre.

DEADLINES, OTHER EVENTS

June 16-July 17: Summer Welcome — a two-day orientation session for prospective students and their parents. The session will cost $10 per person and include one night's stay in a residence hall and four meals.

Graduate School and Research Notes

(Continued from page four)

1) Regional Development. Postmark application deadline — Aug. 15, 1974. Matching grants of up to $25,000 to regional film centers.

2) Programming in the Arts. Postmark applications deadline — Oct. 1, 1974.
Matching grants of up to $50,000 for production, research and development designed to improve the quality of arts programming on film, television, and radio. Grants for radio projects will rarely exceed $10,000, and grants to individuals of exceptional talent will occasionally be made on a non-matching basis up to $10,000.

For further information and application forms contact: Chloe Aaron, Director, Public Media Program, National Endowment for the Arts, Washington, D. C. 20506 (202) 382-6178.

NSF's US-JAPAN COOP SCIENCE PROGRAM — Two of the three program areas in the National Science Foundation's United States-Japan Cooperative Science Program have upcoming receipt deadlines.

1; July 1 for proposals for visiting scientists whose visit will start after July 1, 1975.

2) August 31 for scientific seminars to be held between April 1 and September 30, 1975.

3) Proposals for the third element in the program, cooperative research between American and Japanese scientists, may be submitted at any time; however, approximately six months are needed to consider a proposal. For further information contact:
United States-Japan Cooperative Science Program, Office of International Programs, National Science Foundation, Washington D. C. 20550. (202) 632-5806.

JOHN AND MARY R. MARKLE FOUNDATION — The Markle Foundation devotes its resources to projects designed to improve the educational uses of the mass media and communications technology. Although the Foundation was involved in medical education and research, its program was changed in 1969 to its current thrust. The Foundation is concerned with all forms of mass communications including print, television, radio and film. In addition to these fields, the Markle Foundation has exhibited interest in efforts aimed at developing a sound public policy in the communications field, as well as support of programs to improve the quality of American journalism. Requests for information and proposals should be sent to: The John and Mary R. Markle Foundation, 50 Rockefeller Plaza, New York, N. Y. 10020, (212) 265-2795.

The deadline for submission of Senior Fulbright-Hays research and lecturing grant applications is July 1, 1974.

The deadline for National Endowment for the Humanities Fellowships is June 17, 1974. There is another deadline in November, 1974.

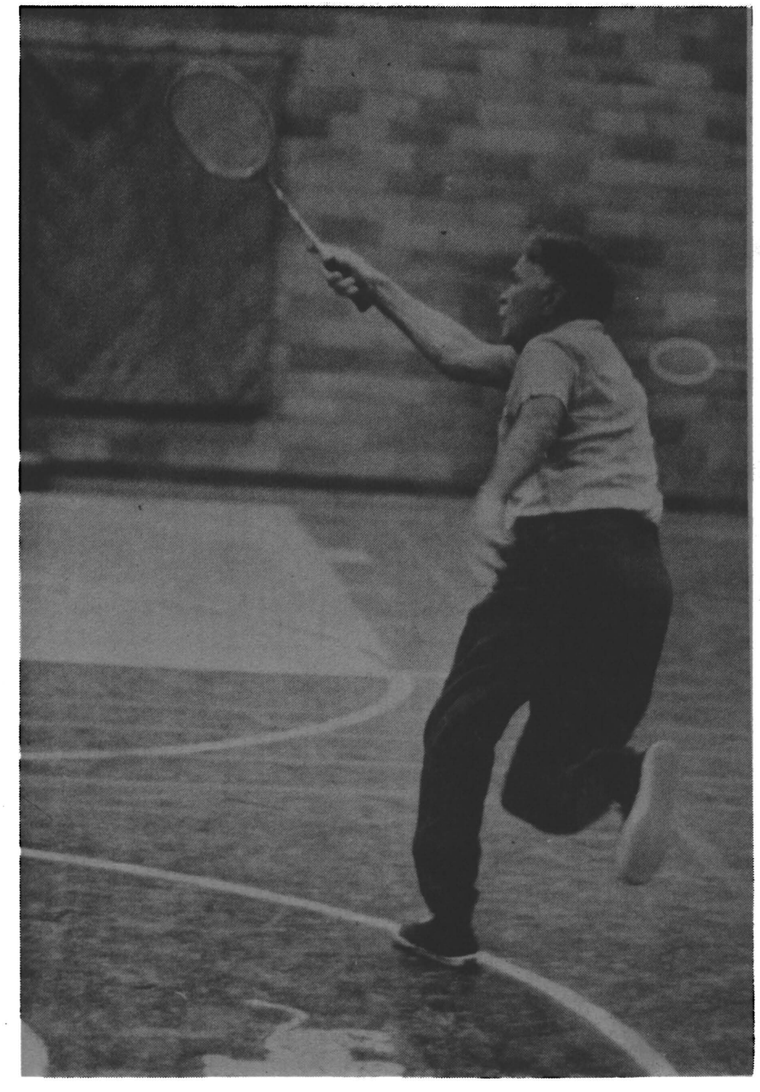
(For further information on above programs, call Ms. Carol McQuary, 882-6311).

This Issue

	Page
Faculty Council Minutes	6
Graduate School and Research Notes	4
Faculty Footnotes	7
Calendar	Back Page

Faculty BULLETIN

Vol. 9, No. 10 June 5, 1974



Newell Gingrich, 68-year-old professor emeritus of physics, plays a good game of badminton. And he's had lots of practice—he's played nearly every Monday night since he came to UMC in 1936. For the story and more pictures, see page five.

UNIVERSITY OF MISSOURI-COLUMBIA

faculty BULLETIN

Vol. 9, No. 11 July 17, 1974

University Enrollment Projected to Increase

University of Missouri officials anticipate that student enrollment will have increased by about 20 percent between 1972 and 1979.

The University director of institutional research, Joe L. Saupe, and his associates calculate a head count increase of 22 percent and a full-time equivalent increase of 19.8 percent.

The enrollment projections are part of a cost analysis for the University Academic Plan, which is designed to guide the University for the coming decade. The degree program recommendations of the plan are expected to be approved by the UM Board of Curators at the Aug. 2 meeting.

The cost analysis report by Saupe and his associates assumes that instructional costs and funding will increase approximately in proportion to enrollment increases, from $53.3 million to $64.5 million. The increase is $11.2 million, or 21 percent, between 1972-73 and 1979-80.

Essentially, according to UM President C. Brice Ratchford, the academic plan "determines the basis on which new resources are requested and assigned, and internal changes undertaken to release existing funds for reallocation."

Saupe emphasizes that "there is no guarantee that all aspects of the plan, new programs in particular, will be in place by 1979-80 or even 1984-85."

The plan is to be reviewed periodically, probably annually, Ratchford has said.

New programs authorized by the plan will be introduced when there are detailed cost projections and assurances of funds, according to Saupe.

In recent years, UM has submitted new programs to the Missouri Commission on Higher Education for approval. As a result of state government reorganization, a Coordinating Board for Higher Education, recently appointed, will receive proposed new programs.

The cost report, provided for Board of Curator study in connection with the proposed University Academic Plan, projects enrollment to 1979 in 22 different degree programs or academic disciplines, plus "undeclared non-degree students." Then costs are calculated for the expected enrollment in each program, campus by campus.

Enrollment projections could change as a result of population shifts, student interests, employment prospects, perceived national needs and support, according to Saupe.

Saupe and his associates say "a reasonable rule of thumb might be that each figure is subject to a margin of error of 10 percent."

Enrollment projections for the four UM campuses are:

	Head Count 1972	1979	% Inc.
UMC	21,801	24,518	12.5
UMKC	9,673	12,587	30.1
UMR	4,337	5,140	18.5
UMSL	10,955	14,830	35.4
TOTAL	**46,766**	**57,075**	**22.0**

	Full-time Equivalent 1972	1979	% Inc.
UMC	20,761	23,410	12.8
UMKC	7,572	9,914	30.9
UMR	4,376	4,896	11.9
UMSL	8,469	11,113	31.2
TOTAL	41,178	49,333	19.8

UMC Grade Point Averages Shown Climbing Steadily

Grade point averages of UMC students are climbing steadily, but it is hard to pinpoint the reason.

Studies by Gary R. Freie, associate registrar, report the UMC 1973-74 GPA (grade point average) climbed to 2.7033. The figure is obtained by averaging grades on a system in which 4.0 is perfect and 0.0 represents failure.

Moreover, the average has been climbing steadily for five years. It rose from 2.5840 in 1969-70 to 2.6060 in 70-71; 2.6617 in 71-72; and 2.6972 in 72-73.

The higher GPA represents all classes. Freshmen, for instance, climbed during the five-year period from 2.4559 to 2.5180; sophomores from 2.5341 to 2.6243; juniors from 2.6064 to 2.7433; and seniors from 2.6387 to 2.7633.

The averages by divisions ranged from 2.4838 in agriculture to 2.9622 in nursing. Other divisions included arts and science 2.7615; administration and public affairs 2.5839; education 2.8047; engineering 2.6366; journalism 2.7422; forestry 2.5615; home economics 2.6270; and social and community services 2.6233.

Freie said that higher averages are following a national trend. Reasons offered by educators range from a higher calibre of students in college, greater competition for high grades, an easier grading approach of faculty members, and self-elimination of students who find out quickly that they can't compete and transfer to other schools or to other fields.

Thomas B. Harris, associate dean of the College of Arts and Science, said undoubtedly the campus is benefiting from obtaining better students from good suburban schools because of economic factors. At the same time he counters by pointing to the high percentage of Phi Beta Kappas who come from Missouri rural rather than metropolitan areas in the last study made three years ago.

A possible factor is less reliance of faculty members on the grading "curve." Under that system the average of all students would be 2.0, with the A and B grades evenly balancing the D and F grades to provide an over-all C average.

Banquet to Honor Parker

A banquet honoring Ralph Parker, retiring Dean of the School of Library and Informational Science, will be held July 27 at 6 p.m. in M 214-215 Memorial Student Union. Guest speaker will be Jesse H. Shera, dean emeritus of the School of Library Science at Case Western Reserve University in Cleveland, Ohio.

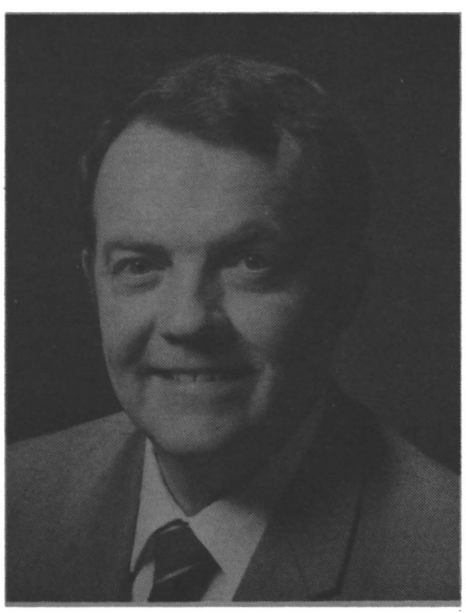
Reservations for the $4.75 dinner and program should be sent to Carol Vaughan before July 22 at either of the following locations: 92 Mobil Village, Route 7 or 113 Ellis Library.

Mayer Resigns; New Medical Dean Sought

A 12-member search committee has been named to recommend candidates for the deanship of the School of Medicine, replacing William D. Mayer who resigned last week after seven years in that position.

The committee, headed by James M. A. Weiss, chairman of psychiatry, was appointed by Joseph M. White, provost for health affairs. Recommentations will be made to Chancellor Herbert W. Schooling.

Committee members include: Benedict J. Campbell, chairman of biochemistry; Thomas S. Culley, assistant dean of medicine and chief of staff at the V.A. Hospital; Walter C. Daniel, vice chancellor; Joe S. Greathouse Jr., director of the University Hospital; William T. Griffin, associate professor of obstetrics and gynecology; Murray Heimberg, chairman of pharmacology; Elizabeth J. James, assistant professor of pediatrics; William R. Kimel, dean of the College of Engineering; Donald A. Senhauser, professor of pathology; Hugh E. Stephenson Jr., professor of surgery; and Daniel H. Winship, professor of medicine.



WILLIAM D. MAYER

A representative of the student body of the medical school will be named to the committee later.

Mayer announced his resignation July 11 at a medical faculty meeting. He plans to return to teaching in the pathology department when the resignation takes effect Sept. 1. Provost White will serve as interim dean until a new dean is appointed.

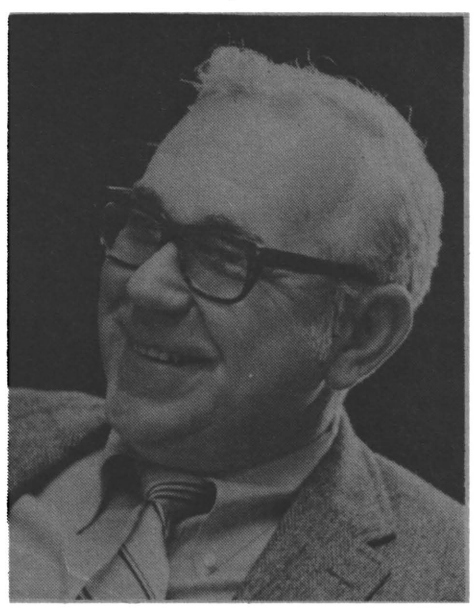
In announcing his resignation, Mayer referred to the position as medical dean as a "grinding process," but he said, "I have not begrudged this grinding process for it is indeed an expected part of the job, but there is inevitably a cumulative effect of these pressures which eventually take their toll."

He added, "In brief, I simply feel that time has come to bring in someone with the kind of youthful vigor I possessed seven years ago on July 1 of 1967 when I entered into the role."

Commenting on Mayer's resignation, Provost White said, "His strong and aggressive guidance has been a major force in the continuing progress of the school, and it will be difficult to find an individual to replace him who will bring to that position the incisiveness and vigor which has characterized his leadership for the past seven years."

White said the committee "should address itself to the search for candidates who have broad and appropriate administrative experience, demonstrated leadership qualities, vigor and stamina, and a sensitivity to student and faculty needs."

Chancellor Schooling noted the progress made at the School of Medicine while Mayer was dean. Included has been the construction and opening of the Veterans Administration Hospital as an integral part of the academic, research and service programs of the Center; and the addition and renovation of McHaney Hall to become the Howard A. Rusk Rehabilitation Center.



JOSEPH M. WHITE

During Mayer's tenure, the Arthritis Center was established as a regional resource. Other accomplishments were the opening of the Clinical Research Center; the establishment of the renal dialysis and renal transplantation programs; the development of the Family Medicine and Primary Care Program; the initiation of the Cardiac Intensive Care Unit; and the development of the Emergency Medical Services program which has since trained well over 1,000 individuals throughout the State.

Under Dean Mayer's leadership the annual operating funds for research and training coming from sources outside the University have more than doubled going from $2.8 million in 1967 to more than $6 million in the 1973-74 academic year.

Mayer received his A.B. from Colgate University in 1951 and his Doctor of Medicine with Honors from the University of Rochester in 1957. Following a residency program in pathology, he came to UMC in 1961 as assistant dean and assistant professor of pathology. He was promoted to associate dean and associate professor in 1964. Following a 16-month leave of absence in Washington, D. C. in 1966-67 as the associate director of the Division of Regional Medical Programs of the National Institutes of Health he returned as dean of the School of Medicine and director of the Medical Center in July 1967.

New Faculty Members Appointed

Robert Kabak will become professor of housing and interior design on August 15.

Kabak, who has been associate professor of art at Northern Illinois University, DeKalb, earned his master of fine arts degree in painting at Yale University in 1954. He received his bachelor of arts degree cum laude at Brooklyn College, City University of New York, in his native New York City in 1952.

He was an assistant professor of design at the University of California, Berkeley, 1962-67, and has been artist-in-residence at Wisconsin State University; visiting artist-lecturer at Bard College, N. Y. and has painted under numerous fellowships or grants, at MacDowell Colony, Huntington Hartford Foundation, Yaddo and others. He is painting this summer at the Helene Wurlitzer Foundation of New Mexico, Taos. Kabak has shown in major invitational exhibitions including the Whitney Museum of American Art, Carnegie Museum of Art and Museum of Modern Art, where he has work in the permanent collection. His work is in many private collections across the country.

His major teaching area will be principles of environmental design, a course open to students in any UMC division.

★★★★★

Steven Andrachek became associate professor of housing and interior design on July 1.

Former assistant professor of housing at the University of Nebraska, Lincoln, Andrachek is completing his doctoral dissertation with Cornell University, dealing with the history of mobile homes.

He earned his master of science degree, majoring in urban sociology, at the University of Kentucky in 1968, where he received a National Teaching Fellowship. His bachelor of science degree in education is from Slippery Rock (Pa.) State College. Previous positions have included that of social worker for the Pennsylvania Department of Welfare, Pittsburgh; instructor in Kentucky State College; administrative assistant to the director of the Kentucky Conference on the Aged; and heading a vocational opportunity project for the Kentucky Division of Public Assistance.

★★★★★

Judith Wilkinson will become assistant professor of marketing on August 15.

Dr. Wilkinson has been a lecturer at the University of California, Los Angeles, for the past year. She received her doctoral degree in 1972 from the University of Alabama, where she held a fellowship for two years. Her doctoral major is in marketing theory, policies and research, with minors in economics and statistics.

Her master of business administration (1966) and bachelor of science (1965) degrees are from Louisiana Polytechnic Institute.

She was assistant professor of the University of Montevallo, Ala., in 1971-72. Her teaching interests are marketing principles, management and research, consumer behavior, social issues and forecasting.

★★★★★

John C. Van Stone joined the department of medicine as an assistant professor on June 15. He was formerly chief of nephrology at William Beaumont Army Medical Center in Texas.

A native of Illinois, Van Stone received his B.S. degree from University of Illinois in 1963, and his M.D. from Northwestern University Medical School in Chicago in 1966.

From 1970-71, Van Stone held a fellowship at Northwestern University Medical Center. He later became an Army officer and was a fellow at Walter Reed Army Hospital. He was awarded the Norris L. Brookens Memorial Award for Outstanding Medical Resident in the State of Illinois, and has co-authored several journal publications. In 1973, Van Stone presented an abstract on studies of serum calcium in chronic renal failure to the 2nd US Army Annual Nephrology Seminar.

★★★★★

Michael S. Cooperstock, formerly with the University of Michigan Medical Center, Ann Arbor, joined the department of child health as an assistant professor on July 1.

Cooperstock's primary area of research has been with endotoxemia in infants and children. He received his B.A. degree in psychology from Yale University in 1964. He earned his M.D. degree at the University of Michigan Medical School and also holds a Master's Degree in Public Health from the University of Michigan School of Public Health.

★★★★★

David L. Smith, Jr., joined the department of medicine on July 1 as an assistant professor. Formerly at the University of Mississippi, Smith will be working in the area of pulmonary disease.

Smith received his M.D. from Duke University Medical Center in 1966, and also did further study at Duke in internal medicine and infectious diseases. In 1972, he was a member of the staff of University of North Carolina School of Public Health, division of epidemiology.

★★★★★

Masood Ahmad, presently at the University of Texas Southwestern Medical School, Dallas, will join the department of medicine as an assistant professor on August 1. In addition, he will serve as Chief of the VA Hospital Cardiology Unit.

Ahmad is a graduate of Kashmir University Medical School. After an internship at Euclid General Hospital in Cleveland and a residency at Long Island Jewish Medical Center, he had a clinical cardiology fellowship at Southwestern Medical School from 1971-73. During the last year, he was a research fellow in cardiology at the same hospital. Ahmad's chief area of research has been in ECG abnormalities and is currently working on a project utilizing ECG and isometric exercises for evaluation of left ventricular function.

★★★★★

Norman E. Land Jr. will join the department of art history and archaeology as assistant professor in August.

Land received his master of arts in art history from the University of Virginia in 1971 and earned his Ph.D. degree there in June. His dissertation was a monograph on the works of the early fifteenth century Venetian artist, Michele Giambono.

Land's previous experience includes a year and a half as acting circulation librarian at Virginia Commonwealth University. The recipient of several fellowships, including the Samuel H. Kress Fellowship for two years, Land's major field is renaissance art.

★★★★★

Loretta J. Williams will become assistant professor of sociology in August. Her major areas of interest are racial and ethnic relations, social change and development, and social movements.

Ms. Williams received her undergraduate degree in sociology from the State University of New York at Buffalo in 1970 and earned her master's there in 1972. She is presently working on her dissertation which concerns secret societies as a form of minority group adjustment.

Her research experience includes a position as assistant to the director of the Buffalo Health Needs Study which probed the health practices and needs of core area residents.

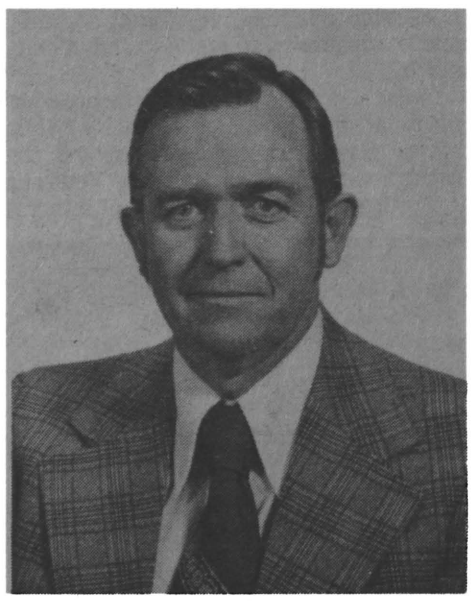
Assistant Dean Named For Veterinary Med

Leonard W. Dewhirst has been appointed assistant dean for student affairs in the College of Veterinary Medicine.

Dewhirst is professor of veterinary science at the University of Arizona. He will succeed Dr. Esther M. Brown who has been acting director of student affairs since the resignation last year of Dr. George Shelton. She will return to full-time teaching duties, and Dr. Dewhirst will spend half time in teaching.

Dewhirst is a native of Kansas and received a B.S., M.S. and Ph.D. from Kansas State University. He was an instructor in zoology at Kansas State University from 1952-57 until his appointment as assistant professor of animal pathology and assistant animal pathologist in the Arizona Agricultural Experiment Station at the University of Arizona. In 1960, he was named associate professor and associate animal pathologist and in 1963 professor of animal pathology and animal pathologist. In 1972, he was named professor of veterinary science and animal pathologist.

He is a member of the American Society of Parasitology, American Microscopical Society, American Association for the Advancement of Science and



LEONARD W. DEWHIRST

Arizona Veterinary Medical Association.

He is a member of the World Health Organization expert committee on cysticercosis, the animal science action committee sponsored by the Commission on Undergraduate Education in Agricultural and Natural Resources, and has received a University of Arizona Achievement Award.

Music Festival Here July 27

The Festival of Music, with Brenda Lee as special guest star, will return to the Hearnes Multipurpose Building at 8 p.m. July 27.

The Festival also will feature saxophonist Boots Randolph, pianist Floyd Cramer, and Charlie McCoy, harmonica performer.

Randolph will double as master of ceremonies for the 2½ hour show featuring the Nashville-based entertainers.

Brenda Lee, selected three times as the world's top female singer, has been a professional musician since the age of 15. She has been featured in such million-selling singles as "I'm Sorry," "Sweet Nothin's," "Rockin' Around the Christmas Tree," and "All Alone Am I."

Tickets may be ordered by mail (price $3, $4 and $5) through the Festival of Music, Hearnes Multipurpose Building.

Eight Write for Britannica

Writers from UMC are among contributors to the 15th edition of Encyclopaedia Britannica which introduced a new three-part structure this year. Few institutions had so many faculty members represented.

Among the UMC contributors:

William F. Fratcher, R. B. Price distinguished professor of law, who wrote the article on law of mortgages.

Hellmut E. Lehmann-Haupt, professor of bibliography and rare book consultant, who wrote the article on Johannes Gutenberg.

Thomas D. Luckey, professor of biochemistry, who wrote the article on germfree life.

Ralph Halstead Parker, dean of the School of Library and Informational Science, who wrote the article on library science.

David P. Thelen, associate professor of history, who wrote the article on Robert M. La Follette.

Walter Scoles, professor of history, who wrote the article on Benita Flores, former president of Mexico.

Elmer Ellis, president emeritus, who revised his short biography of Finley Peter Dunne, creator of "Mr. Dooley."

The late Dean Frank Luther Mott, former dean of journalism, who is listed among those who wrote or submitted material for Micropaedia.

In addition, E. J. Westerman of UMKC, George B. Clark, UMR, and J. R. Munson, UMSL, are listed as contributors.

The publication listed 4,277 contributors from 131 countries who were selected for their recognized authority or knowledge of a particular subject.

The new edition, the first complete restructuring since the original edition was introduced 206 years ago, is published in 30 volumes: a one-volume Propaedia, an outline of knowledge and a guide; the 10-volume Micropaedia as a ready reference and index; and the 19-volume main text or Macropaedia, subtitled knowledge in depth. In all, some 58,000 entries range from 50 to 750 words in length. Nearly half of the contributors are from the United States.

FACULTY BULLETIN

Faculty Bulletin is a publication of the Office of the Provost for Academic Affairs issued monthly for the information of University of Missouri-Columbia faculty. Contributions and information for this paper should be sent to the Office of the Provost for Academic Affairs, 114 Jesse, or to the Office of Public Information, 223 Jesse, 882-6211.

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Nuclear Society Gives Award to Prof. Meyer

Walter Meyer, UMC professor of nuclear engineering, has been named winner of the Special Award for 1974 presented by the American Nuclear Society at the Society's 20th Annual Meeting in Philadelphia on June 25.

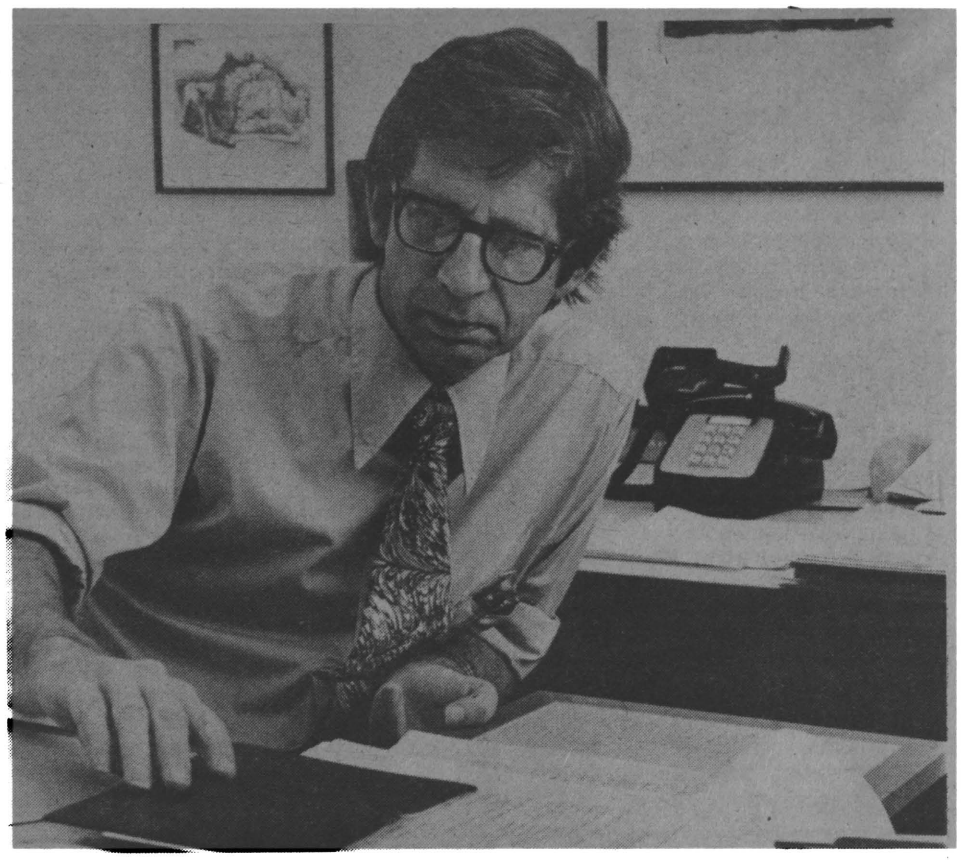
The award for Public Understanding of Nuclear Energy was presented to Meyer "for his active role in fostering a broader public understanding of nuclear power through his unselfish devotion of time and energy to this subject, and for his ability to translate highly technical knowledge into understandable terms for the public at large."

Meyer, who received his Ph.D. from Oregon State University in 1964, is chairman of the department of nuclear engineering at UMC. He has a long history of providing public information on the crucial role nuclear power will assume in the coming decades. He has directed five major institutes and workshops for high school and junior college science teachers on the question of energy resources.

He was a member of the Kansas Governors Nuclear Energy Council from 1970 to 1972 when the federal government was attempting to establish a high level waste depository in Kansas. He has made presentations to legislative groups in New York and Iowa and has prepared materials for use by the Missouri Legislature.

He is a member of the Atomic Industrial Forum team making presentations to the media, and has provided journalism students at the University of Missouri with a basic knowledge of nuclear issues. Meyer has also appeared on radio and on television including participation in a recent "Advocates" program.

Meyer is a member of the American Institute of Chemical Engineers, the American Chemical Society, Tau Beta Pi, Sigma Xi, and the American Society of Engineering Education.



Walter Meyer received a special award from the American Nuclear Society for his role in broadening public understanding of nuclear power.

Agris Studies Leukemia Problem

A UMC professor is trying to discover what goes wrong within a human cell to cause the rapid growth which is peculiar to leukemia and other forms of cancer.

Paul F. Agris, UMC assistant professor of biological science, explains that one of the major differences between a normal cell and a cancerous cell is increased protein production which promotes rapid cell growth. One problem is to find out why the production of protein increases.

As principal investigator of the three-year $131,693 grant from the National Institute of Health, Agris plans to investigate the thesis that the overproduction of protein may be caused by a change in one or more components of the cell's protein-production machinery — tRNA (transfer ribonucleic acid) molecules.

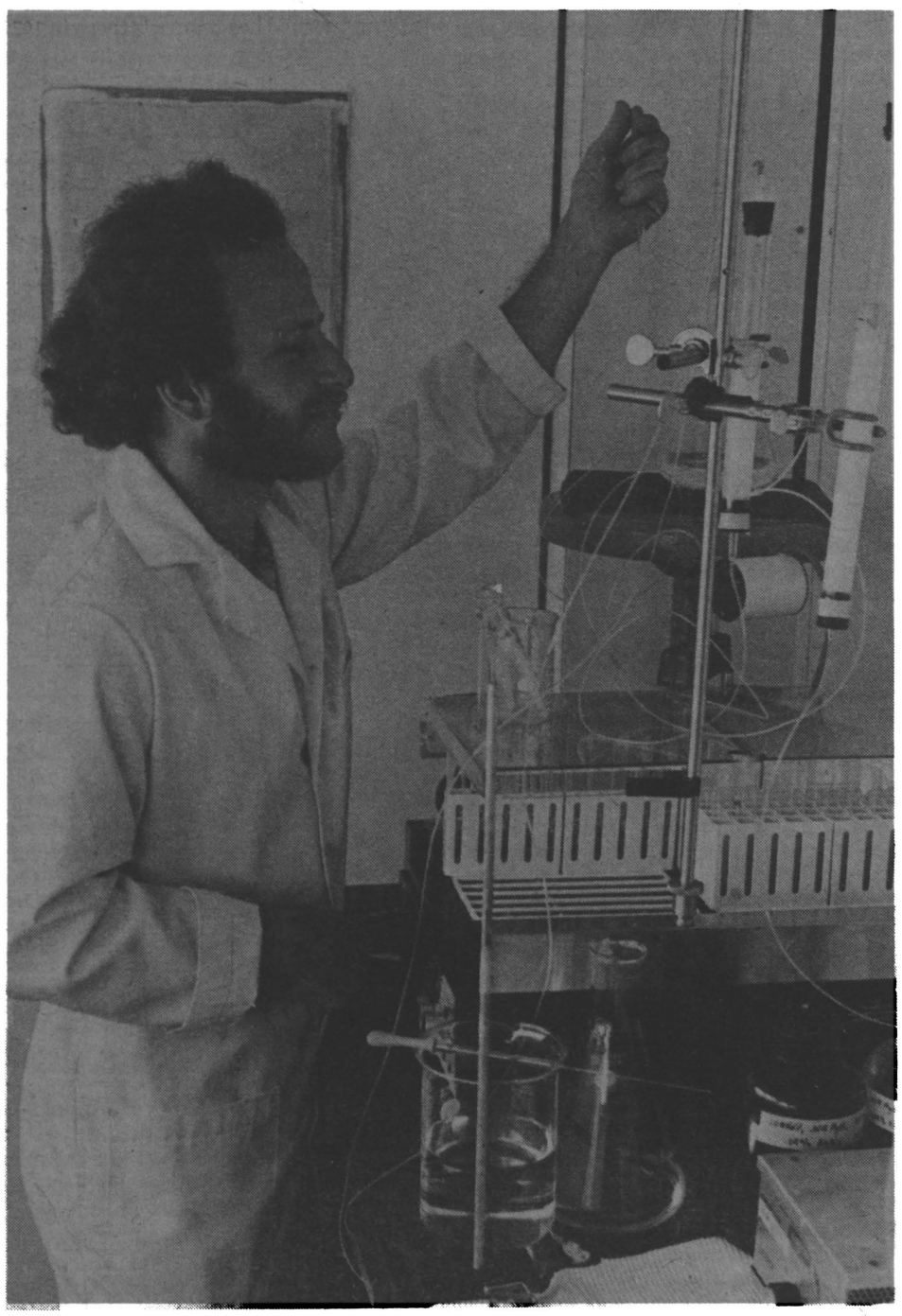
"We are first trying to determine what goes wrong within normal cells to produce cancerous growth," Agris said. "The problem of how to fix what goes wrong will come later."

Agris said that the abnormal protein production in cancerous cells may be the result of three different possibilities — a change in the functioning of one or more of the tRNA molecules, the production of modified or completely new tRNA molecules or a relative increase in the production of a particular tRNA molecule.

"Transfer ribonucleic acid is composed of approximately 100 different molecules," Agris said. "The trick is to identify and characterize the biochemical and genetic differences in these molecules in both normal human cells and cancerous human cells."

Agris has developed several methods which will make research on human cells easier. He will present these methods in a paper in a September American Chemical Society meeting in Atlantic City, N. J.

"This is an immediate kind of research in the sense that it eliminates the usual first step of conducting the research on animals first and then trying to relate that information to humans," Agris said.



Paul F. Agris is the principal investigator of a three-year grant from the National Institute of Health. He is studying problems of leukemia.

Prof Named As Consultant

Donald O. Cowgill, professor of sociology, has been selected by the Gerontological Society in Washington, D. C. as one of 10 gerontologists in the country to serve as consultants to state offices of aging during the summer.

Cowgill will be working with the Missouri Office of Aging of which Jacques Lebel is the director.

The program is an experimental one funded by the Administration on Aging of the Department of Health, Education and Welfare with the hope that the consultants will infuse new ideas and perspectives into state projects. Another goal is to give the academic gerontologists a closer look at what is happening in local communities.

Cowgill has been active in both theoretical and applied gerontology for many years. He was a delegate to the National Conference on Aging called by President Harry S Truman in 1950 and to each of the White House Conferences on Aging held since then.

He is the author of many articles and several books on aging, the most recent being "Aging and Modernization," published in 1972 by Appleton-Century-Crofts.

Equal Opportunity Center Gets Educational Grant

A one-year cost reimbursement contract of more than half a million dollars to continue the Midwest Center for Equal Educational Opportunity (MCEEO) has been awarded to the University of Missouri by the U.S. Office of Education.

The $545,308 Title IV money provided by the Civil Rights Act of 1964 will enable MCEEO to more than double the number of school districts served during the first year of operation.

Purpose of MCEEO, one of 27 nationwide, is to assist public school districts with specific educational problems related to desegregation.

A three-campus University of Missouri project, MCEEO was established in August 1973 with a $349,745 grant from the U.S. Office of Education to serve 31 school districts in four states — Iowa, Kansas, Missouri and Nebraska — which enroll 90 percent of the minority students in those states. The UM grant proposal was accepted over several others from the four-state region.

Director of MCEEO is Charles I. Rankin, former director of Kansas State University's preparation retraining institute for developing educators. His office is on the Columbia campus.

MCEEO staff consists of Rankin and four coordinators: Ronald S. Wilson, curriculum and instruction, UMC; Connie A. Earhart, communications-community relations, UMC; Alvy L. King, ethnic awareness, UMSL; and John Rodriguez, community relations, UMKC. King and Rodriguez man MCEEO satellite offices on the St. Louis and Kansas City campuses.

"The Midwest Center is the second largest in the nation operation-wise," says Rankin. "Most of the others serve only a one or two-state area; we serve four."

Although originally established to serve 31 client districts, MCEEO has requests from more than 75 school districts for help during fiscal 1975.

"The 56 percent increase in the level of funding will go to provide services for the additional districts," says Rankin.

MCEEO services include individual consultations, seminars, workshops and institutes designed to help administrators and teachers cope with educational problems caused by desegregation or resegregation.

Professor Says Gifted Children Need Opportunity To Do More

It's possible that the child who doodles in calculus and draws scenes similar to Picasso's on the kitchen walls may not be working up to his capacity.

"Gifted children sometimes function below what they could function at simply because they don't have the opportunity to do more," explains Reuben Altman, UMC assistant professor of education.

Altman, who teaches a two-credit course titled "Introduction to the Gifted," said the term "gifted" is generally defined as a child with an I.Q. of more than 135 or special abilities in the arts, athletics or any other field of value to society. Because these children are generally well-behaved and usually have no trouble with school work, it is often assumed that they have no problems.

"However, the child himself is being cheated of being able to develop at his own level," Altman maintains. "It is a loss to himself and society. We need more and more people who are capable of operating on a highly abstract level and we won't have them unless we nuture them."

Altman said that the education of the gifted has suffered in many cases because of basic indecision as to which type of education would be best: segregated, accelerated or enriched.

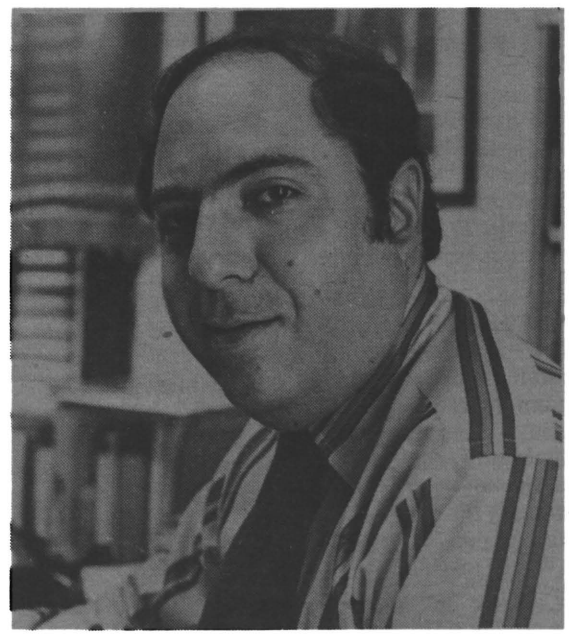
"We're still way behind on programs for the gifted," Altman said. "I think that any program would be better than nothing. Sometimes special facilities are not feasible in the rural areas but they are in the urban areas."

Altman notes that the area of the gifted is "one of the last frontiers" in special education. There is a certain "emotional appeal" in other areas such as the mentally retarded and emotionally disturbed, according to Altman, but the gifted generally provoke a certain amount of "anti-intellectualism."

"We almost have to be prodded into recognizing the gifted," Altman said, adding that the greatest impetus for such programs was in 1958 when the Soviets shot off the Sputnik. However, since then the accelerated programs have "leveled off again."

Altman said that some teachers feel threatened by gifted children. He adds that teachers of gifted children must be taught how to help provide gifted children with the sources and help they need.

Altman said that generally programs for the gifted are "reactive" instead of an active approach. However, he adds that there seems to be "a slight reawakening of providing for the gifted."

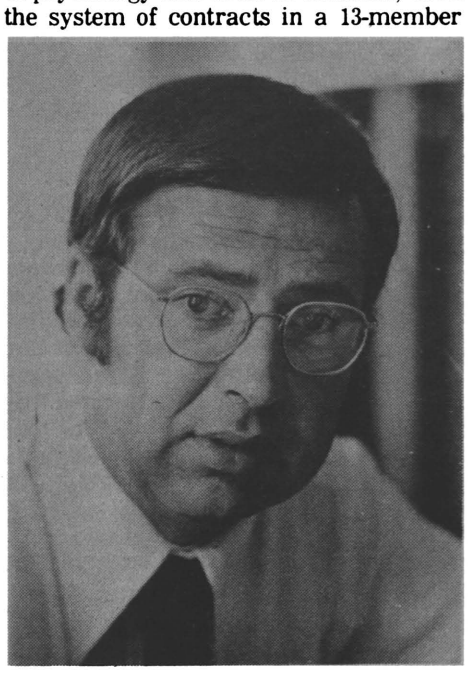


REUBEN ALTMAN

Students Contract for Grades

A UMC psychology professor maintains that "negotiating" contracts for grades with students seems to result in more responsibility and creativity on the part of the students.

James H. Banning, associate professor of psychology and dean of students, used the system of contracts in a 13-member class titled "Campus-Community Psychology."



JAMES H. BANNING

Twelve students contracted for an "A" in the course, according to Banning. One student negotiated for a "B" because she had a heavy schedule and the course was an elective.

Banning said most of the "A" contracts included promises to complete at least 80 per cent of all assigned class projects; an oral lecture or written research project and either a written or oral final examination. He stressed however that students were still required to produce quality work for an "A."

Each contract was different, according to Banning, to allow for individual learning preferences. Not all the students met the requirements of their contracts and therefore did not receive an "A".

"The whole thrust for accountability in higher education is helping to recognize that all students don't learn the same way," Banning explains. "The contract system seems to eliminate a lot of unnecessary anxiety and competitiveness associated with grades."

"Students seem to develop a lot more creativity under the contract system," Banning said. "Partly because they can take the course material and develop projects which are interesting to them."

Banning cites the example of one student who decided to find out what it was like to be a handicapped student on campus by spending several days in a wheelchair noting people's reactions.

Other student projects include an analysis of the community aspects of dormitory living; a look at the effects of sorority and fraternity living styles on the growth and development of students and the role of the campus media in invoking changes in the institution.

Banning said the real challenge to the contract system of grading will be to attempt to apply it to a class of 50 or more students.

University Press Wins Awards

Two books published by the University of Missouri Press in 1973 are among the 26 selected by the Association of American University Presses as outstanding in design and manufacture, it was announced at the Association's meeting in Spring Lake, N. J.

The winners, both designed and supervised in manufacture by Edward King, associate director of the Press, were "The Old-Time Fiddler's Repertory," and "Captains and Cabinets."

White Elected To Med Council

Joseph M. White, provost for health affairs, was elected to a second five-year term on the Council of Medical Education of the American Medical Association. White currently is vice chairman of the 10-member council which is chosen by the House of Delegates of the AMA.

The Council is the AMA's principal channel into medical education activities. Through its representation AMA is able to participate in accredation programs of schools of medicine offering M.D. degrees, all graduate medical education, allied health programs and programs of continuing medical education. Twenty-four residency review committees report to the council.

White serves as chairman of the Liaison Committee on Medical Education which is the active accrediting body of all medical schools in the United States and Canada. The liaison committee is composed of representatives of the AMA and the Association of American Medical Colleges.

Vernon E. Wilson, UMC professor of community health and medical practice, is also a member of the Council of Medical Education. He was re-elected to his second 5-year term in 1972.

Process of Teaching Covered in New Book

Two authors bridged 10,000 miles, differences in mailing systems of two countries and the variances in Australian and American English to compile a book, "The Study of Teaching," the first such text written on that subject.

The authors are Bruce J. Biddle, professor of psychology and sociology and director of the Center for Research in Social Behavior at UMC, and Michael J. Dunkin of Macquarie University in Sydney, Australia. The book was published by Holt, Rinehart and Winston, Inc.

"Until quite recently little evidence was available concerning the process of teaching," the authors explained. "Small wonder that teacher-educators have built their texts upon irrelevant information, examples and exhortation.

"But evidence is now beginning to accumulate concerning the effectiveness of different teaching strategies. For the first time we are able to consult studies that have examined such matters as classroom democracy, use of reinforcement, or teacher manipulation of classroom logic to see how these affect pupil behavior and learning. It is now possible to construct a text on teaching that is based on research evidence pertaining to classroom behavior."

The writers said that their dream is of an educational system in which procedures are governed by research and by theories that are empirically based. Their belief is that the study of teaching is the heartland of the research effort that should govern education, and their presumption is that sufficient research has been completed to justify a text on that topic.

The co-authorship dates to 1965 when both writers were at the University of Queensland. They began in 1970 what they thought would be a six-month search for literature. They were surprised to find several times more studies than they had expected.

"As a result, what we hoped to accomplish in six months was merely well started in 1971," they explained.

Their book is directed to senior undergraduate students, graduate students and serious researchers in education. Its subject matter is the classroom behavior of teachers, the response of pupils, and the determinants and effects of these events.

The book is organized in three parts, the first an introduction to substantive material in six chapters of the second part in which concepts are advanced, studies reviewed and findings presented. The last part is a summary of concepts, findings and conclusions based on evidence that was developed.

The authors suggested that much of today's innovations in education are not based on research but rather on ideological commitments to specific programs for the improvement of teaching.

"Before we become advocates of a given commitment," the authors continued, "we want evidence that a given teaching practice is presently occurring in a typical classroom, evidence that an alternative teaching practice can be encouraged by changes in teacher-education programs; and evidence that the alternative teaching practice produces more desirable classroom processes, or, preferably, produces better pupil growth than the present practices.

"Some investigators have commitments that color not only research they design but also the claims they make for results. Others have a financial interest in a test, curriculum, text or training program that may achieve greater sales if claims are made for its salubrious effect on teaching. Others appear to make unreasonable claims out of ignorance or misplaced enthusiasm.

"Many proposals for new curricula, new educational media, new school buildings, new goals for education, are put into practice often with the barest imaginable evidence. Equipment for language laboratories, educational television, new curricula for science education, buildings wherein open classroom education is to be practiced — all have been adopted with little information concerning their impact on teaching and its effects.

"Some of these innovations are now considered to have failed; others may be retained and become standard features of schools. But all have involved the expenditure of untold millions of dollars that were invested on the basis only of faith, ideology and enthusiasm."

The authors contend that the greatest problem facing research on teaching is lack of support dollars.

"Research consumes 10 to 25 percent of available funds in automotive and drug industries; billions of federal dollars are available for research on arms development, space exploration or cancer research," they reported.

"Yet less than one-tenth of one percent of the dollars annually spend on education in the United States is spent for research purposes; nor is the amount appreciably greater in other western countries."

Young Geneticist Joins UMC Faculty

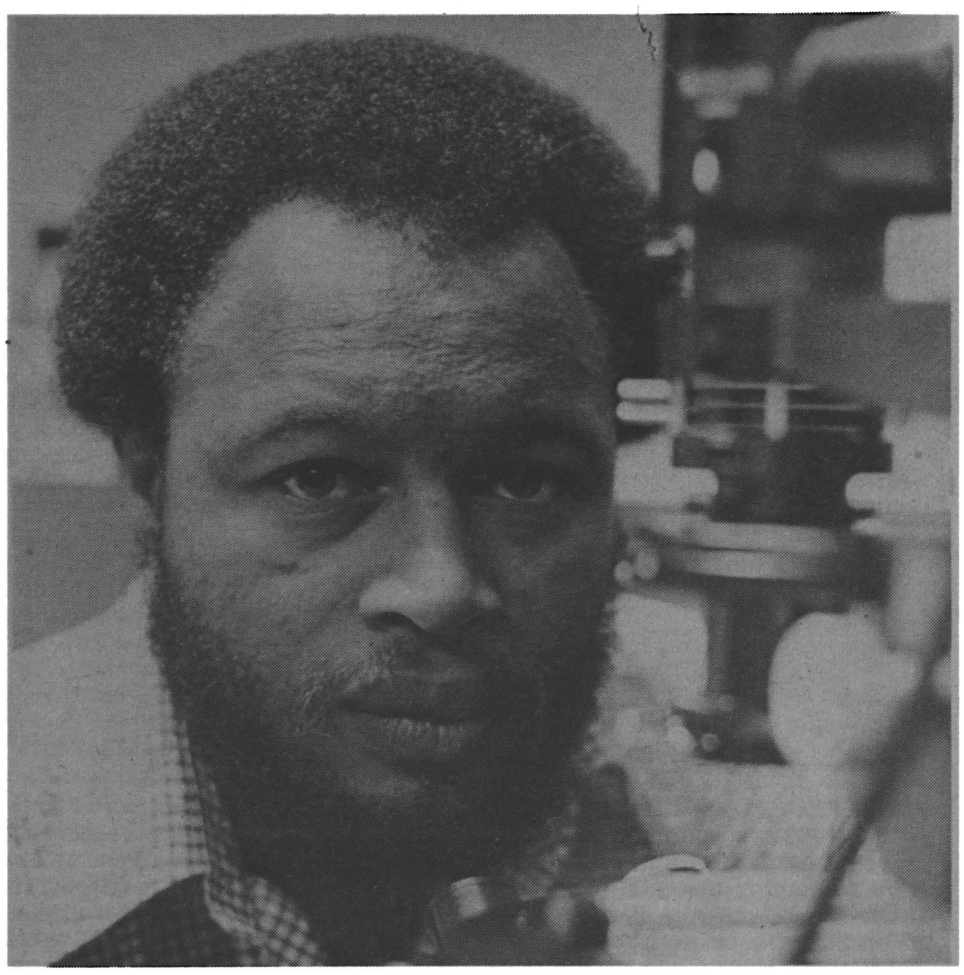
A young geneticist whose research interest is becoming more and more medically oriented has joined the UMC faculty as an assistant professor in the division of biological sciences and the chemistry department.

James H. Wyche (pronounced Wych, long Y) liked what he saw on the UMC campus and quickly accepted a chance to join a developing section of cell biology which he believed would enable him to make faster progress in his field. He had been a laboratory associate in 1965 of Abraham Eisenstark, director of biological sciences, and consequently was aware of the goals and future prospects on the campus.

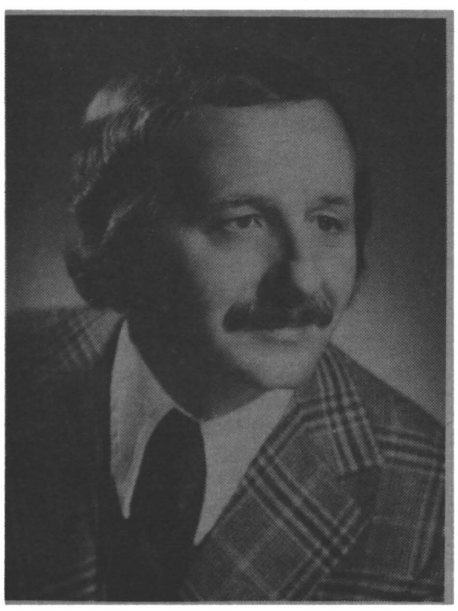
Wyche arrived in Columbia by an indirect route. A native of Long Island, N. Y., he was based in Ithaca, N. Y., Baltimore, Md., Berkeley and San Diego, Calif., before his appointment to UMC. He arrived here early so he could participate in the summer START program of aiding disadvantaged high school graduates in adapting to the campus.

Wyche did his undergraduate work at Cornell University where he participated in baseball, basketball and soccer. He received his doctorate at Johns Hopkins University. While he admittedly drifted into genetics, he knew that was his field after he worked for a time at Brookhaven National Laboratory before continuing graduate studies. After receiving his doctorate he became a doctoral fellow at the University of California at Berkeley and then shifted to the University of California at San Diego where he held Jane Coffin Childs and American Cancer Society postdoctoral grants.

He hopes to continue his research specialties at UMC. His specialties are bacteria genetics and ovarian rat cancer. His original research interest was concerned with the genetics of histidine biosynthesis in Salmanella (a small bacteria that generates what it needs to grow). Now, he is working toward a better understanding of the relationship between the pitutiary and the ovary in vivo (in the intact organ), which helps to explain his drift toward medicine.



James H. Wyche has joined the faculty as an assistant professor in the division of biological sciences and the chemistry department.



JOHN R. ROBERTS

Roberts Named English Head

John R. Roberts, UMC professor of English, will assume the chairmanship of the English department for a three-year appointment starting this fall.

Roberts replaces Milton McC. Gatch, department chairman since 1971. Gatch will be on sabbatical leave during the next year, conducting research at Cambridge University in England through a senior fellowship from the National Endowment for the Humanities.

Since 1970 Roberts has served as associate chairman of the department and director of graduate studies. He came to UMC in 1968 as an associate professor and was promoted to the rank of full professor in 1972.

Prior to coming to UMC, Roberts had served as an assistant professor at the University of Wisconsin and as an associate professor at the University of Detroit. He received his Ph.D. at the University of Illinois in 1962.

Roberts' primary scholarly interest is in the nondramatic literature of the seventeenth century, particularly the metaphysical poets. He is the author of "John Donne: An Annotated Bibliography of Modern Criticism," published in 1973 by the University of Missouri Press.

Luncheon Planned To Honor Retiree

A retirement luncheon for Dorothy Roe Lewis, assistant professor of journalism, is planned for noon on July 26. Reservations should be made through Rosemary Ward in the Journalism Dean's Office by July 22.

Five Cambodians Study at UMC

Five Cambodian government officials from the Ministries of Banking, Planning and Finance began a 2½-year training program at UMC on July 8.

The French speaking officials will spend six months in intensive English language training, then enroll at the master's level in the Graduate School in January to complete the administrative program of their choice.

While in Columbia the students will be housed at the Mark Twain residence hall and will make numerous field trips to St. Louis to study the Federal Reserve Banking system; to Jefferson City to observe and study Missouri state government; and other trips related to their fields of study.

The Cambodian men, all graduates in economics and law of the University of Phnom Penh, are Huo Yanat Chhith, Chhuh Thy Lim, Bun Eng Lao, Pheng Kol and Sauth Meak.

The curriculum was developed for them by the UMC officials and presented to The Asia Foundation, which is financing the program.

UMC was the first choice of The Foundation, after screening of more than a dozen universities which were potential candidates for the program.

UMC was selected, according to officials of The Foundation, for the unique combination of academic and administrative advantages it could offer. Clare E. Humphrey of The Foundation, country director for Khmer Republic, informed Edmund Ford, assistant provost for administration at UMC, that "your institution appears to offer the best combination of sound academic and professional programs, coupled with something which we feel is most important if the fellowship program is to be a success — an obvious desire of UMC for the program and a willingness to be reasonably flexible in tailoring the program to the particular needs of the candidates in their country."

Tentative plans call for five additional government officials to arrive here in January, 1976, to participate in a similar program.

The program is being directed by Ford and Melvin Blase, associate director of the Center for International Programs. Final arrangements for the instructional program were completed recently by Blase when he met in California with officials of The Foundation.

Mrs. Mary F. Kenney will be coordinator of the program, while English instruction will be directed by Don Lance, associate professor of English, with Rachel Moag and Donna Hamilton as full-time English instructors.

Mullen Writes Spanish Text

A UMC professor is the author of a recently published intermediate Spanish textbook which features a collection of 24 essays on current social problems.

"Encuentro: Ensayos de la Actualidad," which was written by Edward J. Mullen Jr., associate professor of Spanish, is a textbook which may be used in either an intermediate Spanish readings or composition-conversation course.

The book, which was published by Holt, Rinehart and Winston Inc., includes essays on topics such as the Chicano movement, black power, women's liberation, ecology and the "underdeveloped" Latin American countries.

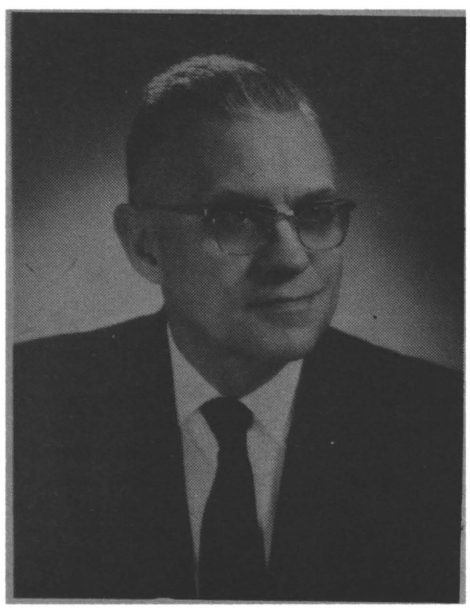
Purpose of using the essay approach to the textbook was to "provide students with relevant nonfiction reading on issues of importance in the U.S. and abroad."

Mullen, who has been on the UMC faculty since 1971, has a Ph.D. in Spanish from Northwestern University. He was a recipient of a Woodrow Wilson Fellowship.

International Conference To Be Held on Campus

An international conference, "Nuclear Methods in Environmental Research," will be held July 29-31 at UMC. It will focus on the use of activation analysis, tracer methodology, fission track analysis, etc., in the solution of environmental, biological, and environmental problems.

Invited papers will be presented by experts from England, Belgium, Germany, Hungary, Puerto Rico, Egypt, Canada, Sweden, India, Finland, and the United States.



RANDALL B. CUTLIP

Conference banquet speaker is J. M. A. Lenihan of the Western Regional Hospital Board, Glasgow, Scotland. His topic: "Pride and Prejudice — The Hazards of Environmental Research." Papers to be presented cover such areas as nuclear methodology, water research, bioenvironmental research, environmental monitoring, atmospheric research, and tracer studies in environmental research.

Conference general chairman is James R. Vogt, associate director, Environmental Trace Substances Research Center.

Conference sponsors are the U. S. Atomic Energy Commission, American Nuclear Society, and UMC (Environmental Trace Substances Research Center, College of Engineering, Extension Division, and the Nuclear Engineering Program).

Cutlip to Speak

Randall B. Cutlip, president of William Woods College at Fulton, will give the address at summer commencement exercises at 3 p.m. Aug. 2 at UMC.

Some 1,200 students are expected to qualify to receive degrees at the exercises, which will be held in the Hearnes Multipurpose Building.

Cutlip has been president of William Woods College since 1960.

Graduate School and Research Notes

NEW RANN GUIDELINES — The National Science Foundation has issued new general guidelines for preparing unsolicited proposals under its Research Applied to National Needs program. They are intended to apply to proposals for new awards and to give information needed for evaluation and writing procedures. The guidelines are designed for major RANN proposals for exploratory research, assessment, conferences, planning, program definition, and small research projects. Copies of the guidelines, entitled GUIDELINES FOR PREPARING UNSOLICITED PROPOSALS TO RESEARCH APPLIED TO NATIONAL NEEDS. NSF 73-37, May, 1974, may be obtained from the National Science Foundation, Washington, D.C. 20550 or by calling Ms. Carol McQuary, 882-6311.

GUIDELINES FOR HUD RESEARCH AND DISSERTATION PROGRAMS — The Department of Housing and Urban Development has announced guidelines for submitting applications for two programs, unsolicited research proposals and doctoral dissertation research grants. The guidelines for the research program include a list of areas to be supported during fiscal 1975. The doctoral dissertation grant program is new. A university may receive up to $10,000 per candidate for support of doctoral dissertation research in specialized housing and urban problems. Funds are to be used for tuition, research costs, and stipends and dependency allowances. Cost sharing is required. Two closing dates have been set, November 1, 1974, and March 1, 1975. Call Ms. Carol McQuary for guidelines.

UNIVERSITY RESEARCH FOR SOLUTION OF TRANSPORTATION PROBLEMS — The Department of Transportation has recently published a solicitation notice for the FY 75 DOT Program of University Research. No other solicitation is planned for FY75. The primary purpose of this program is to insure that the resources of the higher education community are brought to bear effectively on national, state, and local transportation problems. The program consists of four elements. Element I is major research programs. Element II is project research. Element III is research by individual faculty members, and Element IV is university-based seminars. The research may be multimodal, intermodal and interdisciplinary and may span the various fields of transportation including but not limited to behavioral, ecological, engineering, mathematical, medical, earth, natural, physical, political, and social sciences, economics, law, management, policy and planning. Proposal submission instructions and general areas of transportation research of interest to the Department will be mailed to interested faculty members on request. Write to: Office of University Research (TST-60), Office of the Secretary, U.S. Department of Transportation, Washington, D.C. 20590.

(For more information on any of the above programs, call Ms. Carol McQuary, 882-6311)

NIH SPECIAL RESEARCH CAREER PROGRAMS — Applications in the programs specified below will be accepted by the National Institutes of Health from citizen or non-citizen nationals of the United States, or those who have been lawfully admitted to the United States for permanent residence. Candidates must be nominated for the proposed program by an appropriate nonfederal public or private nonprofit institution located in the United States, its possessions or territories, and must have demonstrated considerable potential for developing the qualifications necessary to pursue careers in research and academic medicine. Awards will be made to the sponsoring institution on behalf of the candidate in one of the health professional areas listed by the following NIH awarding units. More detailed information and applications may be obtained by contacting the appropriate participating institute. Deadline for receipt of applications will be October 1. Notification of final action will occur in March, 1974.

NATIONAL HEART AND LUNG INSTITUTE — The Division of Lung Diseases of the National Heart and Lung Institute invites national competition for **Pulmonary Academic Awards** which will have the dual purpose of improving the quality of pulmonary curricula and of fostering research and academic careers in the respiratory fields. Awards will be limited to one for each eligible school of medicine or osteopathy, for a project period of up to five years, with the possibility of renewal for an additional three years.

The Institute hopes through this program to provide an impetus for schools that do not have an identifiable pulmonary curriculum to develop one; for schools that have a pulmonary curriculum that needs strengthening to improve it; and for schools that need someone to devote a major effort to the pulmonary curriculum, either to support a member of the staff or to recruit someone for the purpose.

Contact: Jay Moskowitz, Ph.D. (301) 496-7208, Acting Chief, Special Programs and Resources Branch, Division of Lung Diseases, National Heart and Lung Institute, Bethesda, Mayland 20014

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES — The **Allergic Diseases Academic Award** is intended to provide well trained young medical scientists of demonstrated superior potential with an opportunity to develop the necessary qualifications for established academic positions in allergic diseases; at the same time it would provide an institution with a demonstrated need the academic leadership required to initiate or augment essential investigations relating to allergic diseases. Candidates should be under 40 years of age and should hold a health professional degree in the clinical sciences (M.D., D.O., D.M.D., D.V.M., or equivalent); they should have 5 to 10 years of post-doctoral experience in areas relevant to allergic diseases, with broad training and demonstrated competence in research, teaching and clinical care in order to satisfy the program requirements. The award will provide support for a period of five years.

Contact: Dr. Luz A. Froehlich (301) 496-7131 Assistant for Clinical Programs — Extramural Programs National Institute of Allergy and Infectious Diseases Bethesda, Maryland 20014

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM AND DIGESTIVE DISEASES — The National Institute of Arthritis, Metabolism and Digestive Diseases will accept applications for the **Clinical Investigator Award** in areas as follows: Digestive Diseases, Nutrition, Diabetes

These awards are designed to foster independent research capability in young medical scientists — mainly those with between 3 and 7 years of postdoctoral experience — who have demonstrated considerable promise as investigators during this period. They are avilable only to those holding health professional degrees (M.D., D.O., D.M.D., D.V.M., or equivalent). The award provides support for three years.

Contact: Dr. William Batchelor (301) 496-7348 Clinical Investigator Awards-Extramural Programs, National Institute of Arthritis, Metabolism and Digestive Diseases, Bethesda, Maryland 20014

NATIONAL INSTITUTE OF NEUROLOGICAL DISEASES AND STROKE — The National Institute of Neurological Diseases and Stroke announces the continuation of its program of **Teacher-Investigator Awards** in the neurological and communicative disorders area, e.g., neurology, neurosurgery, cerebrovascular disease, neuromuscular disease, neuropathology, otopathology, otolaryngology, audiology, and speech pathology. Awards are made for a five-year period and provide support to candidates pursuing a research and teaching program which has been planned with the candidate's sponsor. Up to ten new awards will be made annually.

Contact: Dr. Ray Summers (301) 496-7725, Acting Chief, Special Programs Branch, Extramural Programs, National Institute of Neurological Diseases and Stroke, Bethesda, Maryland 20014.

Members
UMC Faculty Council
1974 - 1975

College of Administration and Public Affairs
- John Murdock
- Robert Schooler

College of Agriculture
- Rex Campbell
- Laurence Hedlund
- Clarence V. Ross
- Harold Walton

College of Arts & Science
- Paul Blackwell
- Alden Carpenter
- Robert S. Daniel
- Jack Kultgen
- Hans Mauksch
- William Peden
- Roy Utz

College of Education
- Wilbur Miller
- Frank Wellman

College of Engineering
- Paul Braisted
- Truman Storvick

Extension Service
- William McCulloch

School of Forestry, Fisheries & Wildlife
- Kent Adair

College of Home Economics
- William Yamanaka

School of Journalism
- Dale Spencer

School of Law
- Edward Hunvald

School of Library and Informational Science
- Roy Evans

School of Medicine
- Thomas Burns
- Benedict Campbell
- Frank Engley
- Harry Stoeckle

School of Nursing
- Frances C. Wurtz

School of Social and Community Services
- Marilyn Maddux

School of Veterinary Medicine
- Esther Brown

News-In-Sound

For a brief nightly run-down of cultural events, entertainment features and campus news, **News In Sound, 882-7869,** produced by the Office of Public Information for the University of Missouri-Columbia.

Schedule of NSF Programs for Education in the Sciences—Fiscal Year 1975

This consolidated table presents important time-schedule information concerning NSF programs for education in the sciences. It is intended as a convenient reference for: (1) individuals applying for fellowships and (2) institutions submitting proposals for the conduct of all other listed programs and projects. Although application closing dates are firm, award dates are approximate.

INFORMATION FOR FELLOWSHIP APPLICANTS AND INSTITUTIONS

	Program Announcement Dates	Application Closing Dates	Award Announcement Dates	Pertinent Publications
FELLOWSHIPS				
Graduate, AY 75-76	Sept 1974	Dec 2, 1974	March 15, 1975	E 75-12
North Atlantic Treaty Organization (NATO)'				
Postdoctoral	Aug 1974	Oct 21, 1974	Jan 31, 1975	E 75-13
Senior	Sept 1974	Nov 20, 1974	Feb 15, 1975	E 75-14
TRAINEESHIPS				
Energy-Related Graduate Traineeships	Sept 1974	Nov 1, 1974	Feb 20, 1975	E 75-20
ENERGY-RELATED POSTDOCTORAL PROGRAM	Sept 1974	to be determined	to be determined	E 75-37

Note: Because the dates above are subject to change, prospective applicants should consult specific program announcements for exact final dates.

INFORMATION FOR INSTITUTIONS SUBMITTING PROPOSALS
(NOT for Individuals Applying for Participation)

	Program Announcement Availability	Proposal Closing Dates	Grant Award Dates	Pertinent Publications
GRADUATE AND UNDERGRADUATE EDUCATION PROGRAMS				
Alternatives in Higher Education (Instructional Materials & Modes Development, Alternative Degree Programs; Continuing Education for Scientists & Engineers)	Now	Open	Open	E 74-5
College Faculty Workshops	Now	Open	Open	E 74-6
Faculty Research Participation Program	July 1974	Oct 1, 1974	End of Jan 1975	E 75-17
Science and Engineering Technician Education Program	Now	Open	Mid-May 1975	E 74-18
Minority Institutions Science Improvement	July 1974	Open	Open	E 75-8
Student-Oriented Program				
Undergraduate Research Participation	June 1974	Sept 20, 1974	Mid-Jan 1975	E 75-7
Student-Originated Studies (Secondary School Students) see below)	June 1974	Nov 15, 1974	End of Feb 1975	E 75-7
Educational Program Restructuring (Pre-Service Teacher Education; Restructuring of the Undergraduate Learning Environment)	Now	Open	Open	E 75-10
Instructional Scientific Equipment	Sept 1974	Dec 13, 1974	Early June 1975	E 75-15
Technological Innovation in Education	Now	Open	Open	E 74-9
Field-Initiated Studies and Experimental Projects in Science Education	Now	Open	Open	E 74-11
ELEMENTARY AND SECONDARY EDUCATION PROGRAMS				
Materials and Instruction Development (Careers in Science/Science Literacy)	Now	Open	Open	E 75-3
Instructional Improvement Implementation (Careers in Science/Science Literacy)	Now	Aug 1, 1974	Mid-Jan 1975	E 75-4
Student-Oriented Program (Secondary School) Student Science Training	June 1974	Oct 11, 1974	End of Jan 1975	E 75-7
Educational Program Restructuring Pre-College Systems	July 1974	Open	Open	E 75-10
Field-Initiated Studies and Experimental Projects	Now	Open	Open	E 74-11

' Programs administered by NSF for U.S. citizens at the request of the Department of State

Faculty Footnotes

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

Stanley B. Botner, associate professor of public administration, delivered a paper on "Implications of Congressional Budgetary Reform" at the national conference of the American Society for Public Administration.

S. K. Katti, professor of statistics, was elected president of the Columbia Chapter of Toast Master International, a speech club aimed at improving speaking ability through practice in a fellowship atmostphere.

COLLEGE OF AGRICULTURE

E. Allen McGinnes Jr., professor of forestry, participated in an international symposium in Cairo, Egypt, and gave a visiting lecture at Alexandria University. McGinnes chaired the first day's session and presented two papers in Cairo at the International Symposium on Wood Science and Technology as Related to the Furniture Industry. At Alexandria University, he presented a lecture on Graduate Student Education and Research in American Universities and presented a paper on "An Aid for Detection of Discoloration and Decay in Standing trees."

William C. Stringer, associate professor of food science and nutrition, was recently given the extension-industry service award by the American Meat Science Assn. (AMSA).

Kenneth L. McFate, associate professor of agricultural engineering, was honored twice at the 67th annual meeting of the American Society of Agricultural Engineers. He received the George W. Kable electrification award and was also named a fellow of ASAE.

COLLEGE OF ARTS AND SCIENCE

William F. Sheridan, assistant professor of biological sciences, has been awarded a grant to defray his expenses in attending the NATO International Summer School on Genetic Manipulations with Plant Materials Aug. 4-17 at the University of Liege in Belgium.

Susan L. Flader, assistant professor of history, has been named by the Forest History Society as the recipient of the Frederick K. Weyerhaeuser Award for her article, "Thinking Like a Mountain," which won a third prize of $250 in the society's third annual article contest. Falder's prize-winning essay is part of her larger study of environmentalist Aldo Leopold, which will be published next fall.

COLLEGE OF EDUCATION

Reuben Altman, assistant professor and coordinator of programs in mental retardation, served as chairman of two symposiums at the annual meeting of the American Association on Mental Deficiency in Toronto, Canada, in June.

COLLEGE OF ENGINEERING

Lewis N. Walker, associate professor of electrical engineering, has been on a summer lecture tour which has included Rumania, Yugoslavia, Italy, Sweden and England. In Bucharest, Rumania, Walker presented two papers and conducted a conference on power system modeling. He was one of 10 U.S. university and industrial people invited to participate in this conference at the expense of the Rumanian government.

James M. Beauchamp, professor of industrial engineering and director of continuing education, has been elected chairman-elect of the Professional Engineers in Education practice division of the National Society of Professional Engineers. He will assume his duties in July at the society's 40th Annual meeting in Atlantic City.

SCHOOL OF JOURNALISM

John C. Merrill, professor of journalism, appeared on a panel discussing "The Right to Know" at the seventh annual Federal Communications Bar Association seminar on social issues at Williamsburg, Va., June 14.

Merrill also was selected by the U.S. Department of State to be the main speaker at a media seminar in Saigon in May. The seminar, which was directed towards Vietnamese journalists, was titled "Media: Today and Tomorrow."

SCHOOL OF MEDICINE

Hugh E. Stephenson Jr., professor of surgery, was elected president of the Missouri chapter of the American College of Surgeons at its meeting in Branson in June.

Ira Wolinsky, visiting scientist at Dalton Research Center and research associate in the department of biochemistry, presented a seminar on his research at the department of nutrition, College of Human Development, Pennsylvania State University, in June.

Robert L. Jackson, professor of child health, was awarded a plaque by the American Diabetes Association at the annual meeting of the association in Atlanta last month. The award was presented "in grateful appreciation of his commitment and untiring service on behalf of diabetic youth."

Faculty Council Minutes

May 28

Academic Plan. The Council spent some considerable time discussing the Academic Plan. The Executive Committee proposed a statement for release to the press. The motion was seconded by Prof. Utz. An amendment to the statement was proposed by Prof. Utz, seconded by Prof. Murdock. The amendment passed by voice vote without dissent. The original motion then passed unanimously.

Prof. Spencer moved, Prof. Bivens seconded, the motion that the University of Missouri-Columbia Faculty Council accept and endorse the statement presented by Prof. Daniel to the Board of Curators Academic Affairs Committee as updated consequent to the publication of the Presidents plan. This paper to be delivered to the Board and, together with the statement approved above, be published in a special edition of the Faculty Bulletin in Brief. The motion passed unanimously.

June 6

Academic Plan. Prof. Daniel reported on developments concerning the Academic Plan. Prof. Carpenter moved, Prof. Blackwell seconded, that copies of the Faculty Bulletin in Brief containing the statements approved at the meeting of the Council on May 28 be transmitted to the Faculty Councils or Senates on the other campuses. Passed by voice vote without dissent.

Prof. Daniel presented a positive statement outlining academic reasons that should be considered in the development of an academic plan. This statement, following perfection, is to be transmitted to the Board.

June 13

Academic Plan. Prof. Hunvald reported on his attendance at the first day of the Board of Curators workshop where they considered the details of the Academic Plan. The Council considered and discussed the report, the plan and possible actions in detail.

Prof. Stoekle proposed, Prof. Spencer seconded, the motion that: The Council does not call a general faculty meeting to discuss the plan at this time. The motion passed by voice vote.

June 20

Academic Plan. There was a lengthy discussion of several additional actions that could be taken by the council to further implement its point of view concerning the President's academic plan. At the conclusion of the discussion Prof. Adair proposed the following three point motion:

a) a personal letter be sent to Curator Meyers that is critical of the plan on a broad base.

b) a last minute reminder letter recapping the council's position on the Academic Plan be sent to Curator President Fane.

c) members of the Council, with the help of media representatives, generate an interview format on the Academic Plan and distribute this to the press.

This motion was seconded by Prof. Storvick and passed without dissenting vote.

Other Business. Prof. Storvick moved, Prof. Ross seconded: the chairman of the Council is directed to appoint a Task Force to investigate the potential impact of collective bargaining on this campus. The motion was in response to the relevance of this issue as reported in the June 10 issue of The Chronicle of Higher Education. The motion passed.

Subsequent discussion related to problems that have arisen in some divisions with staff on split appointments. Further discussion suggested the desirability of establishing the title of adjunct Professor. Prof. Spencer moved, duly seconded: a task force to study academic titles and departmental affiliations be appointed by the Council. The motion passed.

Published Faculty

COLLEGE OF ADMINISTRATION AND PUBLIC AFFAIRS

Stanley B. Botner, associate professor of public administration, has published an article entitled, "Personal and Career Characteristics of State Government Administrators" in the journal, "State Government," winter 1974.

COLLEGE OF ARTS AND SCIENCE

N. Gerald Barrier, professor of history, is author of the book, "Banned: Controversial Literature and Political Control in British India, 1907-1947." Barrier's book includes previously unpublished British documents and newly revealed collections of banned literature. The book was published by the University of Missouri Press.

SCHOOL OF JOURNALISM

John C. Merrill, professor of journalism, is the author of a recently published book, "The Imperative of Freedom: a Philosophy of Journalistic Autonomy." According to Merrill, the fundamental theme of the book is his contention that ". . . American journalism is rapidly losing its freedom . . . because of the rise of the philosophy of social or collective utilitarianism." The book was published by Hastings House Publishers.

SCHOOL OF MEDICINE

Thelma Lee Dorroh, associate professor of community health and medical practice, is the author of a book "Between Patient and Health Worker," recently published by McGraw-Hill Book Company. The book is dedicated to the late William D. Bryant, a former associate dean of the medical school.

William F. Krause, assistant professor of anatomy, and C. Roland Leeson, chairman of the department, have published an article entitled "The Stomach of the Pangolin (manis pentadactyla) with Emphasis on the Pyloric Teeth." The article appeared in Acta Anatomica, Vol. 81, 1-11 (1974). The Pangolin is a scaly anteater from southeast Asia.

UNIVERSITY PRESS

"The President and Protest: Hoover, Conspiracy, and the Bonus Riot" was published in June by the University of Missouri Press. The book, by Donald J. Lisio of Coe College, draws from recently disclosed papers at the Hoover Library in order to pose a new interpretation of one of the most controversial events of the Depression years.

Leaves

Max R. Utsler, assistant director and instructor of journalism, will be on sabbatical this summer as a newsman with KMBC-TV in Kansas City.

Maw Lin Lee, professor of economics and community health and medical practice, will be on sabbatical from August until January, 1975. Lee will be conducting research on the development of an economic theory of the individual.

Peter M. Gardner, associate professor of anthropology, will be on sabbatical during the 1974-75 academic year. The purpose of his leave is to conduct anthropoligical research.

Robert L. Wheeler, assistant professor of mathematics, will be on leave from September until June. Wheeler will be visiting professor at the Iowa State University.

Richard M. Angus, associate professor of chemical engineering, will be on leave of absence during the 1974-75 academic school year and the summer of 1975 to serve as a staff engineer of the Environmental Protection Agency in Durham, North Carolina.

David Roy Kamerschen, professor of economics, has accepted a visiting appointment at the University of Georgia and will be on leave until June 31, 1975.

Gifts & Grants

Grants of $24,700 have been made to UMC by the National Science Foundation to purchase scientific equipment to improve undergraduate instruction.

The grants include $12,600 to establish a computer computation laboratory that is expected to reduce queues of students competing for use of keypunch facilities, a program to be supervised by Ernest L. Roetman, associate professor of mathematics; and $12,100 to replace existing chemical engineering instructional equipment under a program supervised by Richard M. Angus, associate professor of chemical engineering.

The NSF grants require matching funds, with the institutions providing at least 50 percent of the equipment costs.

COLLEGE OF AGRICULTURE

Ruth Baldwin, professor of food science and nutrition, received a $34,974 NIH grant for research on the quality and nutritive value of meat cooked by microwaves.

SCHOOL OF MEDICINE

Leonard Forte, assistant professor of pharmacology, has been chosen for an NIH Career Research Award which will provide salary and support for his research for a five-year period. He was in competition with biomedical scientists all over the U.S. for the award.

His research interests are predominantly in endocrine pharmacology with emphasis on elucidation of the cellular or molecular mechanisms involved in hormonal regulation of target cell function. Currently he is studying how kidney cells metabolize parathyroid hormone, the chemical nature of metabolites and whether they are biologically active or inactive.

SCHOOL OF VETERINARY MEDICINE

The Pfizer Agricultural Division has presented the department of veterinary medicine and surgery with a check for $691.22, representing a 25 percent rebate on each dollar spent by the department with the Pfizer Company during the last year. The company also donated about $1,000 worth of pharmaceutical supplies to the clinic earlier this year in a "pharmaceutical stocking" program.

Pop Music Class Traces Jazz

The UMC music department will offer a class in "Jazz, Pop and Rock" starting fall semester 1974.

The course, designed for non-music majors, is a historical survey of American jazz, exploring its influence upon derivative pop and rock forms.

Lectures by John Cheetham, the course's creator, begin at the Afro-American roots of jazz with the black "field hollers" and work songs of the 1850s and 1860s moving to the heavily syncopated, two-beat piano ragtime.

Cheetham will discuss blues and trace the growth of jazz through Dixieland, Boogie Woogie, Swing and the Post World War II trends. The class will conclude with a study of Pop from 1945 to the present and a discussion of the "Rock" phenomenon.

"Jazz, Pop and Rock" is the first course of its kind to be offered by UMC. A disciplined review of this music is especially important here, explains Cheetham, because the Midwest has been a prominent jazz center.

The course will be taught by lecture including recordings and slides of jazz greats and arranged live performances.

The class, offered for 3 hours credit, will meet at 11:40 a.m., Monday, Wednesday and Friday in 151 Fine Arts Building. Maximum enrollment is 300 students.

Russian Visits Physics Class

Igor N. Serdyuk, a biophysicist from the Institute of Protein Research of the Academy of Sciences of the USSR, Pushchino-na-Oke near Moscow, presented a special colloquium at the UMC Physics Department in May. His talk was entitled "New Possibilities for Studying Two-Component Macromolecular Systems in Solution".

Serdyuk's area of research interest is the use of small angle x-ray scattering techniques for the determination of the form, dimensions, and structure of large biological molecules and particles, such as proteins and ribosomes.

Columbia was one of the places Dr. Serdyuk chose to visit during his three-month stay in the U. S. because of his interest in the small angle x-ray scattering research carried out in the laboratory of Prof. Paul W. Schmidt in the UMC Physics Department.

Honor Snider

A public reception for Amos J. Snider, director of University of Missouri Extension courses and conferences, will be held July 19 from 3 p.m. to 4:30 p.m. in the Memorial Union faculty-alumni lounge. A formal presentation is scheduled at 3:45 p.m.

Snider is retiring after 28 years at the University. The Board of Curators named him a professor emeritus of extension education.

He was employed by the University in 1946 to head the division for continuing education, a position he continued to hold in 1960 when the University merged general extension with agricultural extension.

In 1962 he was named assistant dean of the Columbia campus extension division. He was named to his present University-wide position in 1966 after extension expanded to a four-campus operation.

Calendar of Events

ACADEMIC SCHEDULE

August 2: Summer Commencement.
August 2: Summer Session closes, 5:00 p.m.

CONCERTS, PLAYS

July 17: Summer Repertory Theatre: "Canterbury Tales" 8 p.m., price $3.00, Free to students.
July 18: Summer Repertory Theatre: "Slow Dance on the Killing Ground", 8 p.m., price $2.50, Free to students.
July 18: Faculty chamber music recital, featuring clarinetists Richard L. Hills and James A. Middleton, 8:15 p.m., Fine Arts Recital Hall. Free.
July 19: Summer Repertory Theatre: "Italian Straw Hat" 8 p.m., price $2.50, Free to students.
July 19: Harry Chapin, 8 p.m., $2.00 — Jesse Auditorium.
July 20: Summer Repertory Theatre: "Canterbury Tales" 8 p.m., price $3.00, Free to students.
July 22: Summer Repertory Theatre: "Canterbury Tales" 8 p.m., price $3.00, Free to students.
July 22: Ron Riddle free concert — 7 p.m. — McAlester Park on "Evolution of Classical Ragtime."
July 23: Summer Repertory Theatre: "Slow Dance on the Killing Ground", 8 p.m., price $2.50, Free to students.
July 23: Quad Concert, 7 p.m., Francis Quadrangle, Free.
July 24: Summer Repertoy Theatre: "Italian Straw Hat" 8 p.m., price $2.50, Free to students.
July 25: Summer Repertory Theatre: "Canterbury Tales" 8 p.m., price $3.00, Free to students.
July 26: Summer Repertory Theatre: "Slow Dance on the Killing Ground", 8 p.m., price $2.50, Free to students.
July 26: Graduate vocal recital, soprano Patricia Hammer, 8:15 p.m., Fine Arts Recital Hall. Free.
July 27: Summer Repertory Theatre: "Italian Straw Hat" 8 p.m., price $2.50, Free to students.
July 27: Festival of Music: "Country and Western", 8 p.m. Tickets can be picked up 2 weeks prior to event at Hearnes Office — Hearnes Auditorium.
July 29: Summer Repertory Theatre: "Italian Straw Hat" 8 p.m., price $2.50, Free to students.
July 30: Summer Repertory Theatre: "Slow Dance on the Killing Ground", 8 p.m., price $2.50, Free to students.
July 31: Summer Repertory Theatre: "Canterbury Tales" 8 p.m., price $3.00, Free to students.
August 1: Summer Repertory Theatre: "Canterbury Tales" 8 p.m., price $3.00, Free to students.
August 2: Summer Repertory Theatre: "Canterbury Tales" 8 p.m., price $3.00, Free to students.

CONFERENCES, SHORT COURSES

July 7-19: Engineering and Computer Programming — UMC.
July 8-26: Urban Journalism Workshop — Memorial Union.
July 17: SAS and SPSS Workshops, 3-5 p.m. — 106 Lefevre.
July 11-August 2: Field Training Course in Environmental Santitation — UMC.
July 14-26: 3rd Annual Graduate Institute of Cooperative Leadership — Stephens College.
July 21-August 2: Engineering and Computer Programming.
July 21-22: Seminar for Medical Journal Editors — School of Journalism & Downtowner.
July 22: 5th Annual Beef Cow & Calf Clinic Columbia Stockyard.
July 23-25: Mo. Vocational Assoc. Conference Campuswide.
July 24: SAS and SPSS Workshops, 3-5 p.m. — 106 Lefevre.
July 29-31: 2nd International Nuclear Methods in Environmental Research Conference — UMC.
July 30-31: Solid State Power Conference Meeting.
August 1-2: School Business Officials Workshop — Ramada Inn.
August 5-9: Library In-Service Training Institute I — Memorial Union.
August 6-8: National Workshop for Professionals in Meeting Needs of Blind Homemakers — Memorial Union.
August 12-16: Library In-Service Training Institute II — Memorial Union.
August 19-22: Library In-Service Training Institute III — Hearnes Bldg.

DEADLINES, OTHER EVENTS

July 18: Defensive Driving Course class for University employees, 1:30 to 3:30 p.m. — Conference Room, Campus Personnel Office, 309 Hitt St.
July 19: Show-Me Trip: Mississippi River Festival, SIU Edwardsville, Helen Reddy, 3 p.m., Physics Parking Lot. Tickets required.
July 21: Fun, Games and Food, 1-6 p.m., Free — Peace Park.
July 23: Defensive Driving Course class for University employees, 1:30 to 3:30 p.m. — Conference Room, Campus Personnel Office, 309 Hitt St.
July 25: Defensive Driving Course class for University employees, 1:30 to 3:30 p.m. — Conference Room, Campus Personnel Office, 309 Hitt St.
July 28: Fun, Games and Food, 1-6 p.m., Free — Peace Park.

FILMS, EXHIBITS

July 17: Free Flick: "Mirage", 8 p.m., Free — Jesse Auditorium.
July 18: "Kiss Me, Deadly", (USA), 7 p.m., Free — Middlebush Auditorium.
July 19: "Big Red", 9 p.m., Free — University Heights and Village.
July 20: "Big Red", 9 p.m., Free — University Terrace.
July 21: Free Flick: "The Caine Mutiny", 8 p.m., Free — Jesse Auditorium.
June 10-August 2: University Press Exhibit, 1-3 p.m., Monday-Friday — Fine Arts Gallery.
July 23: "Stray Dog", (Japan), 7 p.m., Free — Middle bush Auditorium.
July 24: Free Flick: "Elvira Madigan", 8 p.m., Free — Jesse Auditorium.
July 25: "The Rise of Louis XIV", (France), 7 p.m., Free — Middlebush Auditorium.
July 26: "Swiss Miss", 9 p.m., Free — University Terrace.
July 27: "Swiss Miss", 9 p.m., Free — University Heights and Village.
July 28: Free Flick: "Sometimes a Great Notion", 8 p.m., Free — Jesse Auditorium.
July 30: "Agnus Dei", (Hungary), 7 p.m., Free — Middlebush Auditorium.
July 31: Free Flick: "A Man For All Seasons", 8 p.m., Free — Jesse Auditorium.

This Issue

	Page
Faculty Council Minutes	7
Graduate School and Research Notes	6
Faculty Footnotes	7
Calendar	Back Page

faculty BULLETIN

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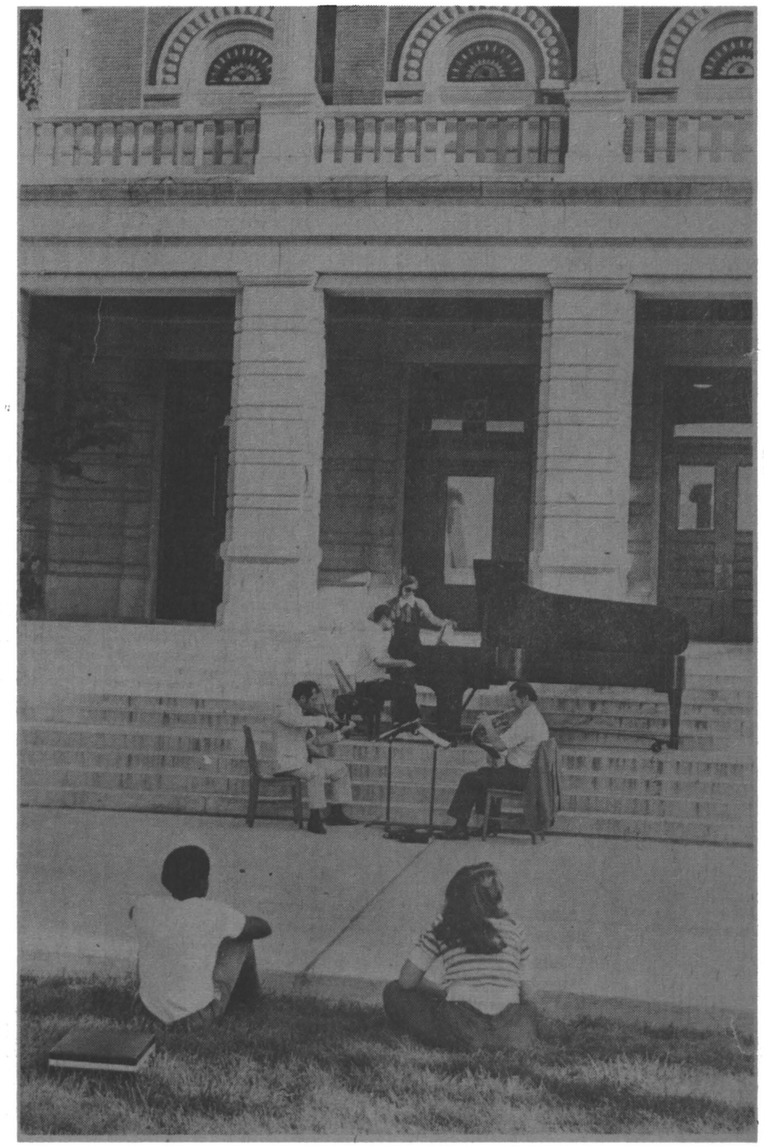

Each Tuesday evening music fills the summer air in the Francis Quadrangle while the audience lounges on the grass to enjoy the sounds. The Quad Concerts initiated this summer by Student Activities have included a piano recital, an evening of opera, a brass concert and others. Here three music department professors rehearse for their concert. They are: George DeFoe, French horn; Edward Polidi, violin; and Richard Morris, piano (Elizabeth Moulder, graduate assistant, page turner). The final Quad Concert of the summer will be at 7 p.m. July 23.