



Carolyn Maddox

Onward and upward

Program helps secretary move into management

A former secretary at UMKC is preparing for a middle-management position within the campus's auxiliary operations by means of a new management intern program here.

Carolyn Maddox, who previously worked in the chancellor's office, will serve as an administrative assistant to the managers of the UMKC Bookstore and the University Center.

The two-year program, designed to provide persons with the knowledge, skills and experience necessary to assume a mid-management responsibility, represents "a strong, positive step" toward implementation of affirmative action and equal-opportunity employment programs, according to S. Stanley Dalen, UMKC assistant business officer and administrator of the new project. He said the pilot program also would assure that UMKC's auxiliary operations will have the skilled and

experienced team needed for continuing high-quality service to students and the University staff.

"The first four to six months of the program," Mrs. Maddox said, "I actually work within the University Center and then spend the same amount of time at the bookstore. At each place I have responsibility and projects equivalent to those of the assistant director. Afterward I will begin to directly assume some actual management responsibility between the two."

"I participate in workshops and seminars which provide basic developmental training. Throughout the program, I am developing a manual which will not serve as a rule book, but will be more a handbook to enable others to see one way things can be done."

Of Dalen, Mrs. Maddox said, "He's the person I talk to for help in resolving any problems. He is always positive and cooperative. I find he is effective as a sounding board, and I gain much from his experience and insights."

In 1971, Mrs. Maddox received a B.S. in education from Emporia State Teachers College. She had worked in the UMKC chancellor's office since August 1973.

The new program was designed and implemented by Dalen; Paul Haigh, manager of the bookstore; Barry Phillips, director of the University Center; and Jay Lentz, educational coordinator of the Center for Management Development and a former personnel training coordinator.

—Phillippa Mezile

Noel Gist, of UMC, selected to receive Jefferson award

Dr. Noel P. Gist, UMC professor emeritus of sociology, has been selected to receive the UM system's coveted Thomas Jefferson Award, which is presented annually to that member of the University community whose conduct and scholarship best exemplify the principles and ideals of Thomas Jefferson.

Dr. Gist was nominated by the UMC sociology department in recognition of his 32 years of distinguished service. He retired in 1969, but has remained an active scholar.

Dr. Gist joined the Columbia faculty in 1938, after having taught eight years at the University of Kansas. As a Fulbright scholar and senior lecturer, he sojourned at Mysore, Calcutta and Groningen universities, and he spent a year as senior specialist at the East-West Center in Honolulu.

Apart from his teaching, Dr. Gist has been the author or co-author of six books and 33 journal articles. He has served as president of both the Midwest and Missouri sociological societies, and was chief architect and an early director of the South Asia Studies Program.

Previous winners

Following is a list of the previous winners of the Thomas Jefferson Award:

- Dr. Elmer Ellis, president emeritus
- John G. Neihardt, UMC professor emeritus of English
- Dr. James L. Bugg, Jr., former chancellor of UMSL
- Dr. Carleton F. Scofield, former chancellor of UMKC
- Dr. Lewis E. Atherton, UMC professor emeritus of history
- Dr. William H. Peden, UMC professor of English
- Dr. Ernest Manheim, UMKC professor emeritus of sociology
- Dr. Norman N. Royall, Jr., UMKC professor emeritus of mathematics and physical science
- Dr. James Neal Primm, UMSL professor of history

Grant decision soon

The Coordinating Board for Higher Education will decide shortly whether to proceed with the disbursement of \$1.9 million in student grants, withheld because of a circuit court ruling that the aid program is unconstitutional, or to wait until May 27, when the state Supreme Court reviews the case.

If the money is disbursed and the Supreme Court upholds the lower court's ruling, then the program would be vulnerable to a court action ordering that the money be repaid. Hugh Voss, director of the grant program, said the coordinating board, in order to avoid personal liability, in the event of such an order, would require written guarantees of reimbursement from both the students and their institutions. Under this arrangement, Voss said, if a student failed to return his grant money, then the obligation would devolve upon the institution.

"Under these confused circumstances," Allan Purdy, director of Student Financial Aid Services, said, "several thousand students in Missouri are still awaiting their second-semester grant checks. The decision of whether or not the various colleges and universities would agree to guarantee the return of the individual grant monies to the state will likely be made by the governing boards of each institution."

Purdy said there are about 2,000 students in the UM system who are awaiting grant checks. Some 900 of these are on the Columbia campus.

The constitutionality of the program was challenged early this year in a suit seeking to prevent disbursement of Missouri State Grant money to students in private schools. Judge G. J. Hoester of the St. Louis County Circuit Court found the program unconstitutional because some of its money goes to schools with religious affiliations.

Wide acceptance of tests developed by UMC chemists

Scientists at UMC have developed a fast, automated system for measuring total protein nitrogen that is rapidly being adopted by scientists around the world.

In what has to be considered a major breakthrough, Larry L. Wall, Sr., and Charles W. Gehrke developed the precise method which was adopted last October as "official first action" by the prestigious Association of Official Analytical Chemists of the United States.

Wall and Gehrke, of the Missouri Experiment Station Chemical Laboratories (ESCL), said chemists are using the new method in place of the laborious and time-consuming Kjeldahl methods for measuring protein which have been in use since 1883.

The automated procedure became necessary with the world-wide emphasis on improving food protein, according to Wall and Gehrke, and the methods will save millions of

dollars and a great deal of chemists' time.

Scientists using the method can analyze total protein nitrogen in dairy products, feeds, cereal grains, meats, etc. Two chemists, using one instrument set-up, can analyze as many as 250 samples in a single day.

The equipment required for the new procedure costs about \$14,000 — a fraction of what has been required to build the facilities and provide the equipment used in the older methods.

—Joe Marks

Mediation board to meet with UM and nurses' group

The State Board of Mediation has scheduled a pre-hearing conference next Wednesday with the University of Missouri system and the Missouri Nurses' Association to determine whether a proposed bargaining unit is acceptable to all parties. If not, a hearing to resolve that issue could be expected.

The MNA's proposal calls for a unit composed of all registered nurses employed by the UMC Medical Center, excluding the director and assistant directors of nursing.

Credit group elects officers

Howard Pyron, UMR assistant professor of computer science, was elected president of the board of directors of the Mizzou Employees Federal Credit Union at the group's annual meeting last month in Columbia.

Other officers: Pauline Miles, UMC, vice president; William D. Poore, UMca, treasurer; and Kee W. Groshong, UMC, secretary.

Other directors: Bonnie Sims, UMKC; Jane Adkins, UMKC; Ronald Rozelle, UMR; Donald Constantine, UMSL; John D. Phillippe, UMSL; Floyd Brown, UMca; and Walter Johnson, UMC.

Cicely Tyson at UMSL tonight

Actress Cicely Tyson will present a program of poetry readings and excerpts from her films—*Souder* and *The Autobiography of Miss Jane Pittman*—at 8:30 tonight at UMSL's J. C. Penney Auditorium.

Tickets, priced at \$4, will be available at the UMSL University Center information desk and at the door.

Marchetti, Millett at UMKC

The concluding phase of UMKC's Robert F. Kennedy Memorial Symposium begins tonight with a lecture by Victor Marchetti, former CIA agent and author of a controversial expose of the intelligence agency.

Marchetti's lecture is entitled "Land of the Free." The same topic will be dealt with by Bill Monroe, NBC's Washington bureau chief, who will speak Tuesday night, and by Dick Gregory, comedian and political activist, who is scheduled to speak April 12. All three lectures will be in Pierson Hall, 50th and Holmes, with each beginning at 8 p.m.

Ticket information may be obtained by calling 816/276-2705.

Kate Millett, widely known for her work in the women's movement and author of *Sexual Politics* and *Flying*, will spend the weekend on the UMKC campus, delivering a lecture tomorrow night and leading a seminar on Sunday.

The title of Ms. Millett's lecture, scheduled for 8 p.m. in Pierson Hall, 50th and Holmes, is "The Future of the Women's Movement." The Sunday seminar, which will deal with "the images of women in history and literature," is scheduled to run from 11 a.m. to 4:30 p.m.

Curators meeting of Mar. 26

Meeting last week in Columbia, the Board of Curators:

- Issued a statement expressing "great concern" that funds previously appropriated by the legislature for building a performing arts center at UMKC may not be reappropriated. The board also reaffirmed the priorities of its 1976-77 capital improvement funds request.

- Approved preliminary plans for the School of Nursing facility at UMC.

- Approved a \$463,212 contract for installation of a chilled-water loop distribution system connecting 10 buildings at UMR.

- Approved preliminary plans for an addition to the School of Journalism facilities at UMC.

- Approved a Ph.D. program in computer science at UMR. The program is to be funded through current campus resources.

- Approved the purchase of 40 acres adjacent to UMC's Ashland wildlife preserve for use by the School of Forestry, Fisheries and Wildlife.

- Ratified a \$226,385 contract with the Education Development Center, Inc., of Boston to allow UMR to join eight other educational institutions to educate students in Algeria.

CBHE to discuss guidelines

Budgetary guidelines for 1977-78 requests for state funds for Missouri colleges and universities will be discussed by the Coordinating Board for Higher Education at its meeting Sunday and Monday in Cape Girardeau.

The CBHE will be responding to suggestions from officials of institutions of higher education for improving the existing formula used to allocate state funds. Harold Hume, director of cost studies at UM, outlined revisions the University has presented to CBHE during Friday's meeting of the Board of Curators.

UM officials maintain adjustments are needed to recognize unique statewide responsibilities such as research and public service, including the UMC hospital. Among other considerations is the need for incentive for institutions to generate non-state income to supplement state aid.

Among other adjustments in the formula approach posed by UM officials:

- That institutions have an opportunity to justify any special needs such as workload and program improvements not covered by the formula;

- That off-campus credit instruction be recognized as an official activity of the institutions and that two-thirds of the cost be funded by the state;

- That UM's research responsibility be subdivided into two categories—agriculture and other state-supported research—to determine funding requirements;

- That the state provide aid for supporting services to the research and public service components of the University's budget;

- That there are other needs beyond those covered by the general revenue component of income.

At Friday's curators' meeting Hume also discussed formula considerations for other areas: public service, hospital, academic support, student services and institutional support, some being unique in Missouri to the UM system.

Further, he said, "an important concept in the suggested revisions is that the formula components, when aggregated, generate a base level of support." To this base would be added salary and expense and equipment funding.

"The salary increase item would reflect the cost of providing increases to staff supported by the general operating budget," he said. "The portion of salary increases from state funds would be determined after consideration of generating additional non-state funds." The institution's share from such funds as student fees could vary, he added, depending upon the existing fee structure.

—Guy Horton

President Ratchford

Missourians must increase investment in education

Following are excerpts from a speech prepared for delivery by President Ratchford earlier this week at the Public Higher Education Day conference in Kansas City:

... About 10 months ago, at a Higher Education Day conference in Jefferson City . . . I said . . . this state needs more revenue to invest in public services, including higher education. I said there must be an increase in the rates or the base of taxation.

... Some of my best friends—and some not so friendly—have told me that what I said was not popular. Well, I didn't expect to win a popularity contest. That was not the purpose. The purpose was to present the evidence and, based upon the evidence, to suggest that increasing the revenue was the only rational thing to do.

... The two major alternatives—and we have been taking one or the other or a combination of them for the last few years, however irrationally—are deterioration of services and increasing the financial burden on students and their families.

There have been some interesting rationalizations of the course we have been following in the last few years.

We've been hearing about declining enrollments, while enrollments have been going up—and all projections say they'll continue to go up for the next several years. Why we should short-change those born toward the end of the post-war baby boom, I do not know.

We've been hearing that there are too many college graduates looking for too few jobs. That partially mirrors the economic

recession we've experienced. But more importantly, it is a way of saying that education is synonymous with job training. They are not the same. Former U.S. Commissioner of Education Harold Howe says that 10 years after they leave college, a very high proportion of them will find themselves doing a job they never prepared themselves for in high school or college. That has to do with a free market economy, not the educational system.

Fred Hechinger, the distinguished editorial and education writer, says that during the Sixties the left attacked education as a factory turning out products to fit into the capitalistic system. In the Seventies the right attacks education as an over-expanded, socialist-oriented structure which not only has failed to solve our problems but may be responsible for them. As an educational administrator, I find it hard to believe that the system could change so much so quickly.

... For a long time this country has prided itself and been confident of its investment in research and development. But for the last few years, certainly in university research, the funding has pulled away from basic research toward mission-oriented research, even though our greatest developments germinate in basic research. Worse, university research of all kinds—basic, applied and developmental—measured in 1967 dollars, has remained virtually unchanged between 1967 and 1974, according to National Science Foundation figures. In fact, according to the same source, the percentage of our GNP going into R&D has been declining for 10 years.

We are seeing a political and financial retreat from commitment to and investment in education, nationally. In Missouri, we were behind most of the other states, and we have been falling further behind faster. . . .

I would urge you to read Hechinger's piece. It's in the March 20 *Saturday Review* under the title, "Murder in Academe: The Demise of Education." . . . He refers, for example, to the recent rash of publicity about the decrease in the return on individual investment in higher education. One calculation . . . estimated that the return over a college graduate's working years had declined from 11 to 12 per cent in 1969 to an estimated 7 or 8 per cent five years later.

... The first response to that is to ask where else an individual could invest with the same confidence for a better dollar return. What else . . . is more likely to open opportunity for better jobs and progress?

... Unquestionably there are individual economic benefits from education. The return to society, though, is far greater. For education is a social investment. The concept of public education is recognition of that fact.

From the economic viewpoint alone, if it were not for an educated work force, we would not have the productivity and level of living we do. We would not have the variety and level of employment the system provides. We would not have the opportunities to invest surplus income. We would not produce the revenue to support social services.

But there's another proverbial remark: man does not live by bread alone—not man and woman, as individuals—not men and women, as society. Beyond the measurable economic benefits, the more profound purpose of education is to produce a better informed, more responsible, more tolerant citizenry—to improve the quality of life—to add to, yes, the enjoyment of life.

Has education succeeded? It is difficult to know for sure what is responsible for what. But a study recently published by the University of Chicago called "The

Legislative update

Except for two changes—as of March 25—the status report on UM-related bills under consideration in the General Assembly remains the same as that published in the last issue of *Spectrum*.

- HB1523—Requires financial aid to veterans attending institutions of higher education. Defeated by the House.

- HB1199—Requires state division of design and construction to furnish certain services to state agencies. Passed by both the House and Senate.

Operating funds

A play-by-play account of the progress of the UM system's request for general operating funds for fiscal 1976-77:

- The UM Board of Curators last fall requested an increase of \$19.2 million over the current year's \$119.4 million.

- The Coordinating Board for Higher Education suggested an increase of about \$10 million.

- Governor Bond recommended a \$5.85-million increase.

- The House of Representatives voted for a boost of \$8.3 million.

- The Senate approved a \$6.8-million increase.

If the House fails to accept the Senate's figure, the matter will go to a joint House-Senate conference committee, which will establish a compromise figure somewhere between those approved by the two bodies. Once the committee agrees upon a figure, it must be approved by both the House and the Senate before the bill can be sent on to Governor Bond.

is published every other week during the academic year and monthly during the summer session by University Information Services in co-operation with the Columbia, Kansas City, Rolla and St. Louis Offices of Public Information
 Editor: Harold V. Cordry, 882-4591
 Campus Page Editors:
 UMC—Anne D. Robinson, 882-8211
 UMKC—Phillippa Mezile, 276-1576
 UMR—Sally White, 341-4259
 UMSL—Jill P. Triplett, 453-5666



Here and there

...Dr. Ernest C. Kung, UMC professor of atmospheric science, has received a new grant of \$122,900 from the National Science Foundation to continue his global weather studies. The grant brings to \$922,000 the total grant money awarded to him since 1967 for his weather studies.

...Raymond Herbert, UMC associate professor of music, has won the grand prize in the International Piano Recording Competition, which is sponsored by the American College of Musicians. His tape was judged best among the 47 teacher entrants in the classical concerto category and best among all 967 entrants in all categories.

Hayes findings reviewed

President Ratchford and the four chancellors, along with their principal advisers, are directing a review of the results of the staff compensation study and are expected to submit reports to the study team by next Friday, according to Lynn Churchill, manager, wage and salary.

The persons participating in the review, Churchill said, were asked to pay particular attention to the correctness of (1) the classification descriptions and title structure, (2) the assignment of classifications to salary grades and (3) the assignment of staff members to classifications.

After the study team has read the reports, Churchill said, the team will meet with those involved in the review in order to discuss their comments and suggestions before preparing final recommendations to be submitted to the University Cabinet.

To be included in the final recommendations on classification and compensation, he said, are a report on the outside salary survey, suggested alternative salary schedules and outlines of procedures for handling classification appeals and for maintaining the system.

Fee group presses study

The task force established by President Ratchford to study the University's system of assessing fees has reached no conclusions, according to Dr. Mel George, vice president for academic affairs, but is focusing its attention on two alternatives to the present methods of calculating the incidental fee.

One plan specifies a charge of \$24 per credit hour up to 12 hours, with a charge of \$288 for 12 hours or more. The second calls for a base charge of \$10 and a per-credit-hour charge of \$23, with a charge of \$286 for 12 hours or more.

Dr. George says final agreement on these and other possible changes may be reached at the group's next meeting, scheduled for Tuesday.

Bond Asks CBHE to explore optometry plan

The Coordinating Board for Higher Education has been asked by Governor Bond to investigate the legality of negotiating contracts with out-of-state optometry schools in order to ensure the admission of Missouri students.

Bond, who has opposed the establishment of an optometry school in Missouri because of its cost, says he would favor funding to assist students studying optometry at out-of-state schools, depending on the coordinating board's recommendations.

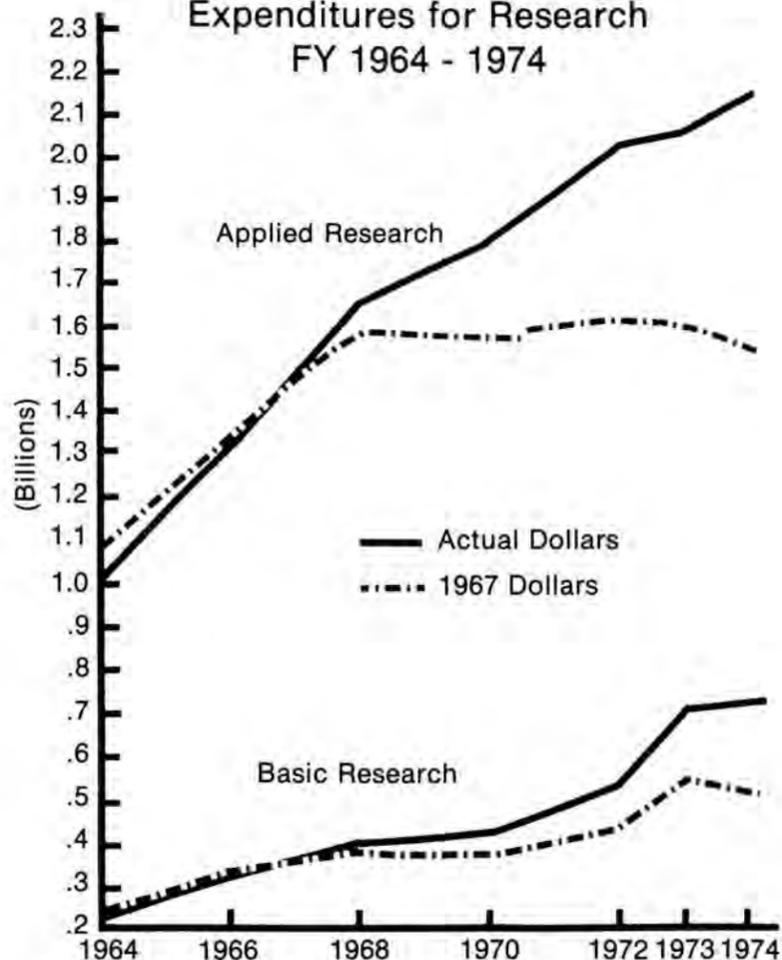
Vacancies

The following administrative, professional and academic vacancies were listed with *Spectrum* as of Mar. 24:

UMC — Program coord., sr. systems analyst (2); staff nurse; chair., dept. of child and family dev.
 UMC MED CENTER — Staff dev. coord. (2); staff nurse (24); staff nurse II (16)
 UMKC — Assoc. registrar.
 UMR — Asst. prof., civil engr. (const.).
 UMSL — Accountant

Persons interested in an administrative or professional vacancy should contact the personnel office on the campus where the vacancy exists. Those interested in an academic vacancy should contact the department or school listing the opening.

College and University Expenditures for Research FY 1964 - 1974



This graph, based on figures supplied by the National Science Foundation, shows how colleges and universities in the U.S. have been spending their research dollars. In the past few years, more and more dollars are buying less and less in terms of research goods and services — no surprise to anyone.

Enduring Effects of Education" concludes that schooling does lead to greater knowledge and does cause greater receptivity to further learning, regardless of social class, religion, ethnic background, sex and the family status into which one is born. . . .

Surely it is not news to us that education enhances individual economic opportunity, that it benefits society economically, that both individuals and society benefit in non-economic ways.

Why, then, is the public investment in education so mediocre here in Missouri?

... Why is Missouri in the bottom half of the states—and often far down in the bottom half—in virtually every measure of public support of higher education?

... Why has this state—over the last three years—actually reduced the constant dollar appropriation to the University of Missouri while, at the same time, it has sent more and more students to enroll on its campuses?

... We have been reluctant at the University of Missouri . . . to shift more of the burden to students and their families. While it is difficult to make precise allocations and measures, we estimate that more than half of the direct instructional cost of the baccalaureate degree at the University of Missouri is borne by the student and family. . . . More should be carried by the public. Society is clearly the major beneficiary; society ought to be the major investor. . . .

Moreover, as the cost goes up and the burden shifts, we are not concerned

merely with what is fair but also with what we are trying to accomplish. To what extent are we limiting opportunity for qualified persons simply because of financial inability?

That is a very serious question, for it impinges on a fundamental question about our American way of life.

If one had to select the two most significant influences on democratization of this country in the 20th century, I suggest they would be the progressive income tax and public education. And I'm partial to the latter, because the progressive income tax puts a levy on achievement, whereas public education encourages achievement.

But do we need that many people going to school and being educated? . . . It depends upon what kind of society we want. I suggest . . . that one reason . . . why we have a less confident and more cynical society these days is that more people are better informed and more concerned. I think a larger proportion of the population more highly educated has something to do with that.

What we have is an American generation growing up, believing that the American dream ought to be real. We had a relatively brief period of angry reaction by a relative few. The more moderate majority saw that as counter-productive, and we have now a lot of people who want to do something positive. I think that's what the burgeoning enrollments in law and journalism and health sciences and environmental studies and business and engineering are all about. That's what consumerism and "sunshine" laws and codes of ethics are about. Some of it is overdone and over-zealous. But it's generally a healthy trend. I don't believe refinement is going to be accomplished by reducing the investment in and/or limiting the access to education.

I say there is in this room enough understanding, enough strength of conviction, enough dedication to purpose—if we will but act—to begin to put us back on course. The question is, will we?

UMC Calendar of Events

ACADEMIC SCHEDULE

April 29: Classwork second semester ends, 5:30 p.m.
April 30: Stop Day.

CONCERTS, PLAYS

April 2-3: Original One Act Plays Festival, 7:30 p.m. University Theatre. For further information call 882-2021.

April 5: MSA Broadway Play "The Tempest," 8 p.m. Jesse Aud. Tickets: \$4, \$3.25, or \$2.50.

April 6: MSA Doobie Brothers Concert, 8 p.m. Hearnes. Tickets: \$4.50, \$5.50, \$6.50

April 8-10: UMC Studio Theatre production "Calm Down, Mother," 7:30 p.m. Basement of Gentry Hall.

April 10: International Night II, 8 p.m., Jesse Aud.

April 14-17, 19-24: University Theatre: "When You Comin' Back, Red Ryder?" 7:30 p.m., University Theatre. General Admissions: \$2.50.

April 15: University Symphony Orchestra-Student Soloists Concert in Jesse Aud., 8:15 p.m.

April 19-24: Studio Theatre: "Hamlet, (Acts II-IV): The Antic Disposition," 7:30 p.m. basement of Gentry Hall.

April 20: Men's & Women's Chorus, Vocal Jazz Ensemble Concert in Jesse Aud., 8:15 p.m.

March 20: Graduate Voice: Mary Lou Boschert, Recital Hall, 8:15 p.m.

April 22: University Chorus Concert 8:15 p.m. Jesse Aud.

April 25: University Singers Concert 3:15 p.m., Jesse Aud.

DEADLINES, OTHER EVENTS

Until April 2: Education Week, campus-wide.

April 2: Mizzou Days Carnival 1976-Carnival Dance, 3 p.m. to Midnight.

April 3: Education Alumni Awards Banquet, Memorial Union, 7 p.m. Reservations required - 882-8311.

April 3: Deadline for all entries in the Independent Week Photo Contest. Due in 107-108 Pershing by 5 p.m.

April 5-11: Independent Week 1976.

April 4: Mizzou Days Carnival 1976-Sunday Matinee, 12 p.m. to Midnight.

April 4: Entry due by 5 p.m. for Indo-Olympics, 107-108 Pershing.

April 13: General Faculty Meeting, 3:40 p.m. Jesse Aud.

April 14: Spectrum Deadline

April 14: Tap Day, Columns, 9:15-9:45 a.m.

April 19: Faculty Bulletin Deadline

April 20-23: Journalism Week

April 24: ROTC Drill Meet.

April 28: Spectrum Deadline

FILMS, EXHIBITS

Until April 15: Stanley Hall Gallery: Alumni Show.

Until April 9: Faculty of UMC Art Dept. exhibition at UMC Fine Arts Gallery.

April 2: Astronomical Film: "To the Ends of Time," 7 p.m. 114 Physics.

FRIDAY NIGHTS: Public Telescope Observing, 8 p.m., Laws Observatory, atop the Physics Building.

April 2: MSA Movie: "Stardust," 7 & 9:30 p.m., Middlebush Aud. Advanced tickets at

Memorial Union Ticket Window \$.75; door \$1.

March 15-April 15: Stanley Hall Gallery: Alumni Show.

March 21-April 9: Fine Art Gallery: UMC Faculty Art Dept.

April 3: MSA Movie: "Zardoz" 7 & 9:30 p.m., Middlebush Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

April 4: MSA Movie: "Start The Revolution Without Me," 7 and 9 p.m., Middlebush Aud.

April 4: University Film Program: "Murmur of the Heart," 8 p.m., Ellis Library Aud.

April 6: University Film Program: "Story of the Last Chrysanthemum," 8 p.m., Middlebush Aud.

April 7: MSA Movie: James Cagney Night, "Roaring Twenties," and "Angels With Dirty Faces," 7 p.m. Middlebush Auditorium.

April 7: Ascent of Man Film: "World Within World," 8 p.m., Ellis Library Aud.

April 7: Civilization Film: "Smile of Reason" 7 p.m., Ellis Library Aud.

April 9: Astronomical Film: "To the Edge of the Universe," 7 p.m., 114 Physics.

April 9: MSA Movie: "O, Lucky Man" 7 & 9:30 p.m., Middlebush Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

April 10: MSA Movie: "What's Up Doc?" 7 & 9:30 p.m., Middlebush Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

April 11-30: Students of UMC Art Dept. have exhibition at UMC Fine Arts Gallery.

April 11: MSA Movie: "The Lion In Winter," 8 p.m. Jesse.

April 11: University Film Program: "Battle of Algiers," 8 p.m., Ellis Library Aud.

April 11-23: Fine Art Gallery: UMC Student Show.

April 13: University Film Program: "Letters From My Windmill," 8 p.m., 210 GCB.

April 14: MSA Movie: Burt Lancaster Night, "The Train" & "From Here To Eternity," 7 p.m., Middlebush Aud.

April 14: Ascent of Man Film: "Knowledge of Certainty."

April 16: Astronomical Film: "The Universe as a Scratch pad," 7 p.m., 114 Physics.

April 16: MSA Movie: "Young Frankenstein," 7 & 9:30 p.m., Jesse Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

April 17: MSA Movie: "Young Frankenstein," 7 & 9:30 p.m., Jesse Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

April 14: Civilization Film: "Worship of Nature" 7 p.m., Ellis Library Aud.

April 18: MSA Movie: "Once Upon A Time In The West," 8 pm Jesse Aud.

April 18: University Film Program: "The Adversary," 8 p.m. Ellis Library Aud.

April 20: University Film Program: "I.F. Stone's Weekly," 8 p.m., Middlebush Aud.

April 21: MSA Movie: Black Leaders, "Malcolm X" and "King: From Montgomery to Memphis," 7 p.m., Middlebush Aud.

April 21: Ascent of Man Film: "Generation Upon Generation" 8 p.m., Ellis Library Aud.

April 21: Civilization Film: "Fallacies of Hope" 7 p.m. Ellis Library Aud.

April 23: Astronomical Film: "Radio View of the Universe," 7 p.m., 114 Physics.

April 23: MSA Movie: "Badlands," 7 & 9:30 p.m., Middlebush Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

April 24: MSA Movie: "The Great Waldo

Pepper," 7 & 9:30 p.m., Middlebush Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

April 25: MSA Movie: "Five Easy Pieces," 8 p.m., Jesse.

April 25: University Film Program: "La Chienne," 8 p.m., Ellis Library Aud.

April 26-May 7: Fine Art Gallery: Masters' Candidates Show.

April 27: University Film Program: Two Films by Preston Sturges—"The Lady Eve" and "The Great McGinty," 8 p.m., Middlebush Aud.

May 4: University Film Program: "The Old Dark House" and "The Black Legion," 8 p.m., Memorial Union Aud.

April 28: MSA Movie: Jack Nicholson-Bruce Dern Night, "The King of Marvin Gardens" and "Drive, He Said," 7 p.m., Jesse Aud.

April 28: Ascent of Man Film: "The Long Childhood," 8 p.m. Ellis Library Aud.

April 28: Civilization Film: "Heroic Materialism" 7 p.m., Ellis Library Aud.

April 30: MSA Movie: "Woodstock," 7 & 9:30 p.m., Middlebush Aud. Advanced tickets at Memorial Union Ticket Window \$.75; door \$1.

May 2-21: Graduate Students of UMC Art Dept. have exhibition at Fine Arts Gallery.

May 2: University Film Program: "I Vitelloni," 8 p.m., Ellis Library Aud.

LECTURERS, SPEAKERS

April 1: Lunchbag Seminar, "I Will Follow Him . . . Or Will I? Decisionmaking In A Two-Career Marriage," Eileen Lineberry, Karen Olson, and Dr. Marvin Rogers, noon. on the ground floor of Gentry Hall.

April 1: "The Socratic University" Edwin Allaire, S8 Memorial Union, 7:30 p.m.

April 2: "7+5=12: Metaphysics and Mathematics" Edwin Allaire, 326 GCB, 3:30 p.m.

April 5: Lunchbag Seminar, "Assertion Training For Men and Women," Cathy Steel and Frank Lahman, noon. on the ground floor of Gentry Hall.

April 6: YM-YWCA Tuesday Noon Forum, 12:10 p.m., S-16 Memorial Union.

April 7: "Presidential Politics and the Role of the Media" Carl Rowan, Arts & Science Aud., 3:40 p.m.

April 7-9: Community development symposium, Memorial Union.

April 8: University Club 1975-76: Margaret Flynn will speak on "Keeping the Professor Healthy", noon, N214-215 Memorial Union.

April 8: Lunchbag Seminar, "Men and Masculinity," Michael King, Cary Shookoff, Cleary Ecklman, Neal Sofian, and Frank Lahman, on the ground floor of Gentry Hall, noon.

April 11: Collegium Musicum: 3:30 p.m., Fine Art Recital Hall.

April 13: YM-YWCA Tuesday Noon Forum, 12:10 p.m., S-16 Memorial Union.

April 14: Engineering Seminar: Gary Logsdon will speak on "Asbestos in Water Supplies", 7:30 p.m., S-204 Memorial Union.

April 15: Lunchbag Seminar, "Psychodynamics of Minority Groups," Loretta Williams, noon, on the ground floor of Gentry Hall.

April 19: Lunchbag Seminar, "Aging—The Physiological Psychological Interaction," Anne Watterson, noon. on the ground floor of Gentry Hall.

CONFERENCES, SHORT COURSES

April 3: 20th Annual Missouri ROTC Drill Meet in Hearnes.

April 3: Foreign Language Participation Day, campus-wide.

April 3: Annual Spring Meeting of Missouri Council of Teachers of Mathematics, Memorial Union.

April 3: 3rd Annual Foreign Language Participation Day.

April 6: Financial Management Seminar, Memorial Union.

April 8: Records Management Update, 10 a.m. to 2:30 p.m., Memorial Union room S8.

April 8-11: 4th Annual National Collegiate 4-H Club Conference.

April 9-10: Stadler Genetics Symposium in the Fine Arts Auditorium.

April 9-10: Home Economics Alumni Weekend, Memorial Union.

April 10: 4th Annual All-State Youth Horsemanship Clinic held at the Livestock Center.

April 13-14: Engr. Conf. Environmental Bio-Assay Testing.

April 14: Engr. Conf. Asbestos in Water Supplies.

April 20-23: In-Service Training Conference #58, Union & Brady Commons.

Faculty meeting scheduled April 13

President C. Brice Ratchford will discuss budgetary issues at a General Faculty Meeting at 3:40 p.m., Tuesday, April 13 in Jesse Auditorium.

All UMC faculty members are encouraged to attend the meeting.

Titled lady

Barbara Petrovic has two titles. According to the University of Missouri she is classified as a secretary. According to the MSM-UMR Alumni Association she is a staff assistant.

Mrs. Petrovic began her association with UMR in 1970 as a secretary to Ralph Lee, director of the Computer Center which was housed, at that time, in Harris Hall. Not long after she assisted the move the Computer Center made to its new building (1973), she transferred to the alumni office which took over the space in Harris Hall vacated by the Computer Center.

It's not that she has a particular "thing" about Harris Hall. Actually, she made the transfer because she felt it would give her an opportunity for more contact with the public and increase her general knowledge about people and her work. And Barbara Petrovic is an individual who likes to learn new things.

Her job in the alumni office involves a lot of work with records. There is a file which contains specific information about 22,910 alumni--former students at UMR. The record of each alumnus can contain the following: name; current or last known address; degrees and honors received from UMR; information about employment (where the individual has worked and job titles); organization memberships, and information about support of UMR (monetary or activities). Of course, it would be impossible to have a complete record for every individual alumnus. But, compared to many other alumni associations, UMR's records are exceptionally comprehensive.

In addition to the records, she helps keep track of donations made to the association--which come in daily. She helps assemble the six issues of the *Alumnus* magazine that the association publishes each year. The personal items that fill the last few pages of each magazine are her particular responsibility. And she helps with the distribution of the magazine and other routine mailings sent out by the association.

Mrs. Petrovic is also in charge of most of the details of the three major alumni social functions held on campus each year. This means trouble shooting motel reservations, banquet tickets, menus, etc., and, in general, seeing that alumni not only learn about the campus as it is today, but enjoy themselves in the process. Homecoming, the Alumni-Faculty-Student Conference and functions to honor 50-year graduates and outstanding alumni around graduation are busy times for her.

About six-months after Mrs. Petrovic joined the association staff, the decision was made to put all the information collected about individual alumni on computer. Her prior work in that office proved to be invaluable in the long conversion process. Today, with the cooperation of personnel in the Computer Center, the alumni office has its own terminal and complete control of what goes into and comes out of computer files concerning alumni. According to Frank Mackaman, executive vice president of the association, it is one of the most sophisticated systems in use by any alumni association in the country.

"I love the freedom of this job, and the variety," Mrs. Petrovic says. "It is hard work, but even though you make mistakes once in a while, you have to really think about what you are doing--use your mind. It allows you to grow."

And "growing" is one of Barbara's enthusiasms. Because employees at UMR are able to take credit courses at a discount, she makes it a point to enroll in at least one course every semester. Most are aimed at building up credit toward a degree in business administration someday, but she also takes a fling at some subjects she just wants to know more about.

Shortly after she moved to the alumni office, she had an idea about something to do with an occasional lunch hour. Working through the personnel office, Barbara started a group called "Lunch and Learn." The idea involved inviting a number of staff people from all over campus whose previous contact was usually only by phone, to get acquainted with each other over a brown bag or cafeteria tray lunch. The group meets monthly, has programs that alternate between self-improvement and entertainment, and occasionally tour various campus facilities.

Barbara has also been instrumental in starting a group entitled the Rolla area chapter of the National Secretaries Association (International). It includes secretaries not only from Rolla but Cuba, Steelville and Salem. This group is an outgrowth of a non-credit refresher course offered by extension to prepare area secretaries for a certification examination offered by NSA.

"The examination is no breeze," Mrs. Petrovic explains. "Participants are given as long as five years to pass it. Some colleges and universities will give as much as 20 to 30 credit hours to those who pass it successfully." She plans to try it for the first time this spring.

Barbara is a native of Lebanon, Mo., who grew up around the Kansas City area. She and her family moved to Rolla in 1969. The family consists of husband, Bill, who is manager of the electronics, cameras, lamps and modular furniture departments at Rolla's new Wal-Mart store, and three children. Nikki, 16, is a sophomore in high school; Traci, 14, is a freshman, and Marty, 12, is in the 7th grade.

One of Barbara's enthusiasms is their new home. The family recently rented the large, old house on 12th Street where Olive Scott Morris lived for so many years. "There is so much room," Barbara says. "We can all find a quiet spot for homework, etc., without contending with those who want to watch TV or listen to music."

What little spare time she has is filled with other activities. The whole family spends time at work for their church, The Word of Faith Tabernacle, and Barbara is church secretary. In addition, she makes most of the clothes for herself and her daughters. And she usually has a needle-point or crochet project under way.

Barbara Petrovic officially may be a secretary and/or staff assistant. But, if you also count homemaker, seamstress, student and assorted organizational designations, she has more than the average number of titles to her credit.

Spring break

Spring break for students begins Thursday, April 15, at 7:30 a.m. and ends Wednesday, April 21, 7:30 a.m. Technically, the spring break is officially scheduled April 16 through 20. However, the UMR Student Council chose to take their annual free day Thursday, April 15, which adds an extra day to the break. There is no official University holiday scheduled during this time.

Achievement bowl

Approximately 500 students from high schools throughout Missouri are expected to participate in the 4th annual Missouri High School Achievement Bowl on the UMR campus Saturday, April 3. Registration begins at 8 a.m. in the University Center. The 50-minute examinations will be given at 9:30 a.m., 10:45 a.m. and noon. Students may take as many as three different examinations.

Examination areas are: chemistry, computer science (no programming experience necessary), economics, English (one exam covering grammar and English, American and world literature), foreign languages (separate examinations in French, German, Russian, Latin or Spanish), geology-earth science, history (covers European and American), life science, mathematics (covers algebra, geometry and trigonometry), music philosophy, physics, psychology and sociology.

In addition to the knowledge each student gains in a comparison of how he or she stands in relation to others, medals will be awarded to the three students making the highest scores in each of the disciplines. Also, a total of 14 \$200 student assistantships will be awarded to those receiving the highest scores who plan to attend UMR this fall. Cash prizes will be awarded to the winners in computer science, chemistry, geology-earth science and physics.

Chemistry seminars

Chemistry seminars have been scheduled for two days during the week of April 5. Monday, April 5, Robert Ballard, graduate student will conduct a seminar entitled "Concentrations of ^{129}I in the Environment." Friday, April 9, T.E. Burchfield, graduate student, will speak on "Thermochemical Investigations of Nearly Ideal Binary Solvents." Both seminars are scheduled at 4:30 p.m., Chemistry-Chemical Engineering 125. Refreshments will be served at 4 p.m.

Humanities lecture

The department of humanities, in cooperation with the Jewish Chautauqua Society, will present a lecture Thursday, April 8, 3:30 p.m., Humanities-Social Sciences G-5. Speaker is Rabbi John Spitzer, Shaare Emeth (Reformed) congregation of St. Louis. His topic is "Judaism and Christianity: Where These Traditions Meet." The public is welcome to attend. According to Dr. Robert Oakes, professor of philosophy, "We will do our best to serve some chicken soup."

Sigma Xi luncheon

Sigma Xi has scheduled a luncheon Friday, April 9, 11:45 a.m. in the Maramec Room. Members and the general public are invited to bring a brown bag or tray from the cafeteria. Speaker is Dr. Delbert Day, professor of ceramic engineering, who will discuss "Coal Gasification--A Challenge to Materials."

Agenda deadline

Deadline for agenda items for the next meeting of the Academic Council is Wednesday, April 14. Send items to Ralph Schowalter, Mechanical Engineering 203.

Calendar

April

- 2--Open house, 7 to 9 p.m., UMR Observatory
- 2- 3--20th Annual Science and Engineering Fair --UMR Theater Guild, "Ubiquitous Sam Arrives," 8 p.m., St. Pat's Ballroom
- 3--4th Annual Missouri High School Achievement Bowl
- 5--Chemistry seminar, Robert Ballard, 4:30 p.m., Chemistry-Chemical Engineering 125
- 6--Records management seminar, 10 a.m., Mark Twain Room
- 8--Humanities lecture, Rabbi John Spitzer, 3:30 p.m., Humanities-Social Sciences G-5
- 9--Sigma Xi luncheon, Dr. Delbert Day, 11:45 a.m., Maramec Room
- Chemistry seminar, T.E. Burchfield, 4:30 p.m., chemistry-Chemical Engineering 125
- Open house, 7 to 9 p.m., UMR Observatory
- 15-21--Spring break for students



University, Industry and Community interact through UMSL Science Symposium

As a public land-grant institution, serving an urban community, the University of Missouri-St. Louis has the responsibility to provide educational opportunities for all citizens--not just those enrolled full-time on campus. In conjunction with teaching, one of UMSL's functions is to serve the special interests and needs of those citizens while cooperating with the many community organizations and local business industry.

This year's third annual Midwest Regional Junior Science, Engineering, and Humanities symposium for high school students from Missouri and Illinois is one example of UMSL fulfilling that commitment.

Three years ago UMSL was awarded an \$8,300 grant from the U.S. Army Office of Research to sponsor the Midwest regional symposium. The initial grant was only the beginning. It has not only provided a chance for high school students to participate in research competition, field trips to St. Louis's top industries, and tours of UMSL's research facilities, but has also provided an excellent opportunity for community, university and industry to interact.

"I think one of the deciding points in the success of our symposium is the cooperation we receive from University personnel, industry, and the granting agencies off campus," says Dr. Charles Granger, coordinator of the symposium. It's just unbelievable.

"One of the interesting things about the whole program is the involvement of the university. We have received great interest from the chancellor, deans of the school of education and college of arts and sciences, department chairpersons from mathematics and the science areas and the computer science center; each of them have actually participated in the symposium and worked with the students during their stay on campus."

Although the grant is for \$8,300, additional funds are received to send the six winners to the national symposium for four days, which adds \$2,000 to the bill. The local army office also gives additional help by printing materials and renting buses for student field trips, and the Federal Business Association and the Federal Executive Board, contributes U.S. savings bonds and prizes for the winners.

Everything becomes a real joint effort, with the industries also contributing. Emerson Electric, McDonnell Douglas, Monsanto, Ralston Purina, Pet, Sigma Chemical Co.--all provided tours and a lunch for the students.

Although the University and community involvement aspect of the symposium is a rewarding experience, according to Granger. "The highlight of the whole thing is to see the students eyes light up and to see them really get excited about participating."

Instructional Technology Center Open

Although many persons within the UMSL community may not be familiar with the instructional technology center, it is equipped with materials and personnel to provide three levels of expert service to faculty and staff for on or off campus use.

Drs. Robert Jones and Donald Greer are available to work as consultants with faculty and staff in developing new approaches and designs for instructional materials. Once an instructor makes a decision on what he needs, Drs. Jones and Greer will produce the materials to meet the instructors specifications.

Also available are production services, including charts, graphs, video tapes, slides and overhead projections. Display services, projectors and complete audio visual and display productions are also supplied by the instructional technology center.

For more information contact Robert Jones at 453-5815.



Drs. Charles Granger and Lars Onsager congratulate the 1976 Midwest science symposium winners. [from left to right] Rebecca Tung, Marlene Drag, Charles Yawitz, William Sullivan, Stephen Specker, Diane Medved

An important aspect of the program has been the visit from a Nobel Laureate each. This year's was Dr. Lars Onsager. According to Granger, generally, a graduating senior or even a graduate student doesn't get to talk to a Nobel Laureate. "We've been very fortunate," he adds, "because all of the gentlemen have been very interested in interaction with students. They go to the mixer after their presentations and just sit around and jaw with them. This is quite an exciting thing to see on the part of such a distinguished individual."

More than 350 student research papers were submitted prior to the symposium. This year's top winner in the research competition has been doing research in engineering and physics for three years in actual preparation for the paper she presented. But many students begin as early as junior high.

"The symposium tends to be a neat reward for a series of efforts. Usually they have an idea their sophomore year and have worked on it to the senior level and are presenting it for the first time. It takes a lot of the teachers' time, helping them acquire materials and equipment, making suggestions, critiquing their efforts and discussing their specific problems," explains Granger.

"Basically the project either works or fails on the high school teachers' efforts. Depending on the willingness of teachers to work with students on a one-to-one level, out outside of the classroom.

"But I think Missouri, particularly the St. Louis area, is fortunate enough to have many teachers who are willing to do this."



Dr. Lars Onsager, Nobel Laureate Chemistry



color TV camera and monitor



color TV production board



multi media programmer

Saint Louis

Nominations Accepted for Amoco Good Teacher

The Amoco Good Teaching Award Committee is seeking nominations for its annual awards. Cash awards of \$250 each are presented to faculty members who have demonstrated excellence in teaching in the areas of humanities, social sciences, mathematics and sciences, education, and business administration.

Students, faculty and staff members who wish to nominate a faculty member in one of the above categories should submit a nomination with a written justification to Vice Chancellor Everett Walters, 247 Benton Hall, no later than 5 p.m. Wednesday, April 14.

The winners will be announced at the University Senate Banquet held at the end of this semester.

Cicely Tyson on campus April 2

Actress Cicely Tyson will give a program of poetry readings and excerpts from her film roles in "Sounder" and "The Autobiography of Miss Jane Pittman" Friday, April 2, on campus. The performance begins at 8:30 p.m. in the J.C. Penney Auditorium. Tickets are \$3 with a faculty/staff I.D. They are on sale at the University Center information desk.