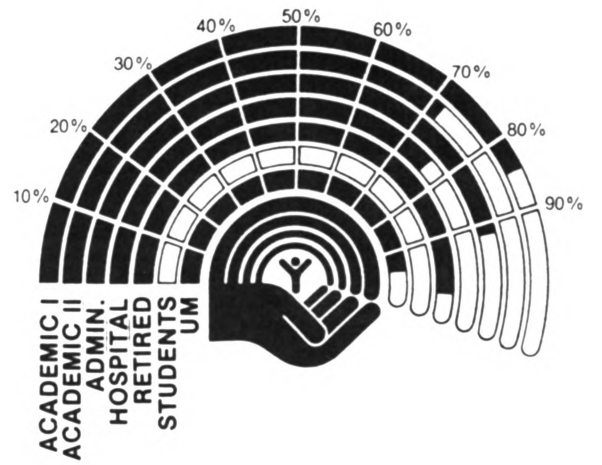


MIZZOU WEEKLY

University of Missouri-Columbia

November 8, 1985



Group to study use of Hearnes

Hearnes task force defines purpose, airs concerns and questions at first meeting.

Defining the purpose of both the Hearnes Multipurpose Building and the task force appointed to study its use were discussed at the group's first meeting Oct. 31.

Chancellor Barbara S. Uehling opened the meeting by asking the task force to examine the original purpose of the facility, noting that it was built with bonds being paid off with student fees.

She recommended that the task force consider the following questions: Is the current use policy appropriate? What kinds of activities should go on in an academic facility like the Hearnes Building? Are current activities in the building academically related? Are such events being scheduled through academic departments?

Her final request was for task force members to become familiar with the current decision-making process allowing

non-University groups to use the building. In general, a request is first considered by the Office of Conferences and Short Courses, sent to the Provost's Office, and finally to the Chancellor's Office for approval. Recently, city officials criticized the University for maintaining a strict rental policy toward non-University groups.

"I've had groups from the city of Columbia approach me in the past about using the Hearnes facility," she says. "I told them that if they ever have a problem, let me know about it. Since then, I've never been approached."

The purpose of the task force is to review past and current operating guidelines for the Hearnes Building and submit recommendations for future use of the facility to Uehling by Feb. 14. To effectively accomplish their commission, task force members agreed that all parties with an interest in the facility should be heard. Task force chair William "Mack" Jones, professor of English, has tentatively scheduled task force meetings in November and December that will allow interested parties to speak. Norman Moore, vice chancellor for Student, Personnel and Auxiliary Services; A.C. Stotler, director of the Hearnes Multipurpose Building; and Guy Schupp, co-chair of the Hearnes

Multipurpose Building committee will be asked to attend the Nov. 7 meeting.

Others who will be invited to appear before the task force include Tom King, director of the Columbia Convention and Visitors Bureau; Sen. Roger Wilson; Columbia Mayor Rodney Smith; City Manager Ray Beck; and representatives from UMC Conferences and Short Courses, Intercollegiate Athletics, Columbia Chamber of Commerce and City Council.

Issues which the task force hopes to address include defining University and non-University groups, in what situations must fees be charged, and examination of past inconsistencies in use of the building.

Besides Jones, other task force members are Gary Trenepohl, professor of finance; Gerald Brouder, associate provost; Don Fancher, associate vice provost/Extension; Joann Rutherford, women's head basketball coach; Suzanne Holland, assistant vice chancellor for Student Services; Jackie Jones, manager of Business Services; Brian E. Handy, student; Joe Moseley, president-elect of the Alumni Association; Dan Viets, law student; and George Walker, director of Alumni Relations.

Lending a hand



Larry Boehm photo

Diane Brukardt volunteers time to the United-Way funded Visiting Nurses Association.

Brukardt's "Stay at Home" philosophy is right at home with Visiting Nurses Association.

"If I can stay at home, I'd rather be there" is a philosophy that Diane Brukardt, director of Student Health Services and professor of medicine, believes many Missourians share with her.

The Visiting Nurses Association of Central Missouri certainly does. Providing skilled nursing care and a variety of health-related programs in the home of the patient is the goal of the association, one of 29 local agencies that will benefit from UMC's

United Way fund drive that began Oct. 3 and concludes this Friday, Nov. 8.

When asked to be a member of the board of directors for the fledgling Visiting Nurses Association of Central Missouri in 1973, Brukardt didn't hesitate, but it took five years to sell the Columbia medical community on it.

"It had never been done here before," she says. "It was an unusual attempt, but we felt it was an appropriate thing."

Brukardt and her colleagues were proved to be right.

"Now it's well-accepted," says Brukardt, one of three originals left from the association's first medical staff. "It's the one organization in the city that will take care of anybody at any economic level."

The association's blanket of care covers many physical ailments. Occupational, physical and speech therapy, care for quadriplegics, paraplegics or an elderly person who is rehabilitating after an operation are a sampling of services offered. Brukardt recalls a time when a blizzard shut down the city and the University, but the association nurses "still went out to give care, the way you hope somebody would."

The only requirements of patients is that they want to be at home, have a medical reason for staying there, and are under a physician's care. Most of the 2,000 patients served each month are 65 and older.

Besides being moved by the devotion of the association's 12 registered nurses and 20 part-time workers, many of whom work early morning, late night or weekend "flex" times, Brukardt is impressed with the organization's accountability.

"It's such a well-run organization. They keep track of where all their money is going," says Brukardt, who has worked for UMC for 25 years. "But it needs the support of the community and the United Way."

The association does accept third-party payment, but not all patients are able to take advantage of that because of limited medical insurance or cuts in Medicare, she says. "The care is still needed though."

Being a senior member of the board of directors doesn't stop Brukardt from entering the medical "front lines." She recently conducted a training session on AIDS for the nurses.

A testimony by Brukardt, on how it has touched her life, best describes the work of the Visiting Nurses Association of Central Missouri.

"Friends I've known personally have been in a fix, but they have good memories of a bad situation because of the association. They were satisfied with the medical care. Being able to see that is wonderful."

BEAT THE BROWN BAG BLUES

Tired of the same old thing in your lunch sack? Follow the advice of Barbara Willenberg, UMC extension assistant in food and nutrition.

Lunches are more appealing, she says, if they contain a good balance of color, texture and flavor. Fruits and vegetables add color and crunch.

Add zest to peanut butter by stirring in honey, mashed banana, applesauce, raisins, wheat germ, dried fruits or crushed pineapple. Use leftover waffles instead of bread.

To liven up a tuna sandwich, Willenberg suggest adding mandarin orange sections, water chestnuts, apple slices, mushrooms, bacon, chopped nuts or pineapple chunks.



CHANGES IN DEDUCTIBLES DUE

Faculty and staff who wish to change their deductible in the medical-benefits programs must do so from Nov. 1 to 15. Changes will be effective Jan. 1.

Employees currently enrolled in the program may transfer from the \$100 deductible to the \$500 deductible without submitting evidence of good health. Employees who wish to transfer from the \$500 deductible to the \$100 deductible, however, must submit evidence of good health.

For more information, Columbia campus employees call 882-3684; hospital employees call 882-1536; and UM employees call 882-6582.

GRANT TO EXPAND CO-OP PROGRAM

The Career Planning and Placement Center has received a \$65,000 administrative grant from the U.S. Department of Education to fund an expanded cooperative education program.

Cooperative education programs help students finance their educations and gain work experience through career-related job placements. Students alternate work and school semesters.

The grant funds will be used to develop strong co-op programs in the colleges of Arts and Science and Engineering. It is hoped the program will spread to all UMC schools and colleges, says Ruth Bounous, Cooperative Education Program director.

A special effort will be made to enroll and place minority students, she says.



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Q. How many apprentices are employed in crafts/maintenance at UMC? What are the future plans for apprentice programs at the University?

A. Roger Jett, manager of wage and salary in Personnel Services, says there are no apprentices working in crafts/maintenance, and there are no plans to hire any.

"It would really depend on the market," he says of the apprentice program. "If we have a shortage in a certain area, we would consider opening up the program again. But that's not been a problem for a few years."



TIME AWARDS: Time magazine is conducting a national search for 100 college juniors who have distinguished themselves by excellence in academics and in a chosen area out of the classroom. The top 20 winners will receive \$1,000 to \$5,000. Certificates of merit will be awarded to the 80 finalists. All 100 winners will receive first consideration for internships with Time and other major participating corporations.

Interested students should visit 116 Jesse Hall as soon as possible for an application form.

DINNER: The Graduate School and the Columbia chapter of the American Association of University Professors is sponsoring an evening of "collegiality and conviviality" at 6 p.m. Nov. 26 in Memorial Union's Benton-Bingham Room (N214-215).

Dinner speaker will be UM President C. Peter Magrath, who will discuss "The Future of Higher Education in Missouri." Cost is \$7. Spouses and non-members are welcome. Reservations, due Nov. 22, may be made by calling Louis V. Holroyd at 882-7018.

FOR RENT: Furnished bedroom, with kitchen and living room privileges, available for rent to women or couple Nov. 1 in quiet home of a faculty member on eight months'

leave. Call 442-0426 in the evenings.

CLARIFICATION: The Child Development Laboratory is run by the Department of Child and Family Development, not by students in the department, as was reported Nov. 1 in a story about the USDA Child Care Food Program. Students train in the laboratory as part of their educational program.

SCHOLARSHIP: Funds are available through the Alumnae Anniversary Scholarship Award Fund for a non-traditional, single, head-of-household student. A scholarship of more than \$250 will be awarded in the 1986-87 academic year to an eligible student who is a graduate of an accredited high school. The recipient must demonstrate financial need and be committed to career and personal growth. Preference will be given to undergraduate students.

Applications are due no later than 5 p.m. Dec. 20 in 116 Jesse Hall. With questions, call Assistant Provost Otis Jackson at 882-2094.

NOMINATIONS: Nominations are being accepted through Jan. 15 for the 1986 Home Economics Alumni Awards. Honors to be presented are Citation of Merit, Junior Citation of Merit and Honorary Member. Nominations should be sent to College of Home Economics Alumni Organization, 132 Alumni Center.

HOUSE SITTER: Beginning in February, a staff member and her husband will house sit in exchange for all or part of rent during sabbaticals and vacations. The couple will care for the home, plants and pets and provide maintenance. Call Laura Wright at 445-7774 or 882-7448.



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MISSOURI CRAFTS CATALOG PLANNED

Missouri artisans will have a unique opportunity to market their work through a program called "The Best of Missouri Hands," sponsored by the Missouri Cooperative Extension Service.

The program will result in a Missouri crafts catalog to be published in early summer for sale to retailers and individual consumers.

The program is part of extension's "Alternatives for the '80s" project designed to identify and promote additional facets of economic development in the state, says Betty Feather, state specialist in clothing and textiles and chair of the home-based business committee.

Application deadline for inclusion in the crafts catalog is Dec. 31.

Information is available at local county extension centers.

To be eligible, artisans must be Missouri residents, make their products at their residence, be able to reproduce their crafts for sale, and be committed to producing quality products and to providing prompt and reliable service on orders.

SEMINAR EXAMINES AGRICULTURE POLICY

The Harold F. Breimyer Agricultural Policy Seminar to be held on campus Nov. 14-15 will involve key agricultural economists from around the country.

Participants will examine issues influencing the farm bill, agricultural finance, and the effects of agricultural policy on farmers' incomes and the total economy, says seminar coordinator Robert Bevins, professor of agricultural economics.

The seminar is named in honor of the UMC professor emeritus whose counsel on policy issues has been sought for more than 50 years.

For details on the program and registration fees, contact Mary Anne

Rausch, 344 Hearn Bldg., at 882-2429.



FLY ME TO THE MOON

Journalism Dean James D. Atwater and former journalism dean Elmer Lower are members of a national panel that will select the first journalist to fly in space.

The National Aeronautics and Space Administration announced that the journalist probably will fly on a flight next fall. The Association of Schools of Journalism and Mass Communication is coordinating the nationwide selection process. Each of the five regional panels of judges will select eight candidates.

Atwater, who wrote the Time magazine cover story on astronaut John Glenn's orbit around the earth, says he will not be an applicant.

A line on new services



Dozens of special services will be provided by a new telephone/communications system to be installed by 1987. The new system, which will carry voice and data transmissions, will serve the main campus, the UMC Hospital and Clinics and University Hall.

The Board of Curators at its Oct. 25 meeting entered into a lease-purchase arrangement with General Telephone Co. for installation of a system that uses the latest computer and fiber optics telecommunications technology. After five years, the University will own \$6.5 million worth of telephones, cable and equipment, and have rights to perpetual use of the main computer control unit.

The system will replace the obsolete Centrex, which is operated by mechanical switches.

Features will include call forwarding, call conferencing, speed calling of numbers dialed frequently, automatic redialing if the line is busy, and call waiting, which indicates that another call is incoming.

In addition, 2,000 lines will be able to access a special "voice mail" system. Users can record messages as with an answering machine, and also record a message and ask the computer to call a list of numbers and deliver the message. Users also can listen to incoming recorded messages by dialing a special code with any Touch-Tone phone.

The system will have special provisions for data transmissions, a boon to computer users. Data transmission facilities are extremely limited with the current system. The new system will have 280 data ports available for offices and 320 for residence halls, says Coleman Burton, director of UM telecommunications.

Every phone line in the system will be wired with built-in data transmission capability, so it will be possible to locate the ports on any line. The ports can handle data at the rate of 19,200 bits per second, fast enough for all but the most highly specialized purposes.

Work on the new system, which will require extensive re-cabling, probably will begin next spring, says Kee Groshong, director of Business Services. University and General Telephone Co. officials are scheduled to meet this week to determine a schedule for re-cabling, which will not interrupt telephone service.

Underground fiber optic links will be built interconnecting special equipment in Jesse Hall, the Hospital and Clinics and the Centrex building at 920 College Ave. Lines will run from the Centrex facility to General Telephone's Cherry Street office where the main computer control unit will be located.

As now, departments will be billed according to number of telephone lines, type of instruments and type of enhancements they choose. "We anticipate that the charges will be the same as or less than now," Groshong says. Present system costs are approximately \$3.1 million a year. "Ultimately the cost will be less" because equipment costs will be fixed. "We won't be hit with escalations as we could with (leasing) the present system." The contract limits increases in maintenance costs to a maximum of 6 percent a year.

The contract also calls for cable-television wiring to be installed in residence-hall rooms and in the hospital, Groshong says. "We're also looking at installing cable-TV wiring that could be used throughout the campus. It's a small cost to put cable-TV wiring in when doing the phone wiring."

University employees with parking permits have asked about parking when they must go to the University Hospital and Clinics. Hospital Security states that the newly opened garage (East of the hospital) is available to employees who have outpatient appointments. Persons with disabilities may use handicapped spaces in the North section of HSC-1 West of the hospital in addition to spaces in the garage. Duals are honored in the garage, HSC-4, and SG-7. Shuttle service is available from HSC-4 and SG-7. As a reminder to all staff, all of HSC-1 is restricted at all times. Questions about hospital parking may be directed to Hospital Security at 882-7147.

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MIZZOU PEOPLE

H. RICHARD ADAMS, professor and chair of veterinary anatomy and physiology, presented "Receptor-Selective Adrenergic Drugs in Cardiopulmonary Medicine" and "Calcium Entry Blocking Drugs: New Approaches to Old Diseases?" at the American Veterinary Medical Association convention in Las Vegas, Nev.

RICHARD ALDRICH, professor of agronomy, was elected a Fellow of the American Association for the Advancement of Science at its annual meeting in Los Angeles.

JOHN AMANN, assistant professor of veterinary anatomy and physiology, presented "Distribution of Beta-Endorphin and Aerenocorticotrophin Immunoreactive Cells in the Intermediate Lobe of the Normal Equine Hypophysis" at the American Association of Veterinary Anatomists meeting in Davis, Calif.

Recreation and Park Administration faculty made presentations at the Missouri Park and Recreation Association meeting held in St. Louis in April. **HARDEEP BHULLAR** and **RANDY VESSELL**, associate professors, discussed "Missouri's Leisure Administrators: Jobs, Salaries and Their Socio-Political Clout." **MARSHALL MASEK**, assistant professor, presented "Travel and Tourism in Missouri." **DAVID SZYMANSKI**, assistant professor, discussed "Recreation and Need Fulfillment: Toward a Better Understanding." **STEVEN LAMPHEAR**, associate professor, discussed "Microcomputer and Board Members in Leisure Service Manage-

ment."

STEPHEN ARCHER, professor of speech and dramatic art, received a short-term fellowship to the Folger Shakespeare Library in Washington. Archer did research for a book about the actor Junius Brutus Booth while there.

N.G. BARRIER, professor of history, headed a panel on vernacular publishing and religious revival in 19th century India at the March Association for Asian Studies conference. Based on the panel, he will edit a volume and contribute a chapter to a book. Barrier also presided at a meeting of the American Institute of Indian Studies Publication Committee and was elected chair of the South Asia Microform Committee. As keynote speaker for the annual meeting of the Missouri Council for the Social Studies in May, he discussed developments in studying international issues.

LLOYD H. BARROW, associate professor of curriculum and instruction, joined the faculty of the College of Education this fall.

THOMAS BASKETT, professor of wildlife, was named a Master Conservationist by the Conservation Commission this spring. He also was presented the U.S. Fish and Wildlife Service's Distinguished Service Award by Interior Secretary Donald Hodel in Washington in April. Both honors are the highest given by the agencies. Baskett retired as leader of the Missouri Cooperative Wildlife Research Unit in April.

NAN BEGEMAN, M Ed '85, instructor in practical arts and vocational-technical education, joined the faculty of the College of Education this fall.

CLARENCE BIRSCHWAL, professor of veterinary medicine and surgery, received the Strange Award for Meritorious Service in Veterinary Medicine from Iowa State University's Alumni Association and its College of Veterinary Medicine. He was cited for his achievements in education, government, industry and practice.

GEORGE C. BROOKS, director of Student Financial Aids, received the Faculty/Staff Alumni Award during summer commencement exercises at Lincoln University.

WINFIELD BURGRAAFF, professor of history, participated on a panel on "Arms and Politics in Latin America: A Quarter Century of Research" in conjunction with the Latin American Studies Association meeting in Albuquerque, N.M. Burggraaff was co-program chair and local arrangements coordinator for the annual meeting of the Midwest Association for Latin American Studies, held on campus in September.

DAVID BYLUND, associate professor of pharmacology, received a \$71,915 grant from the National Heart, Lung and Blood Institute for work on "Heterogeneity of Alpha-2 Adrenergic Receptors."

JAMES E. CARREL, associate professor of biological sciences, **JAMES P. DOOM**, a graduate student, and **JOHN P. MCCORMICK**, professor of chemistry, are authors of "Quantitative Determination of Cantharidin in Biological Materials Using Capillary Gas Chromatography with Flame Ionization Detection," published in *Journal of Chromatography*.

MARILYN CHANDLER, associate professor of special education, was elected for three years to the policy-making board of governors of the International Council for Exceptional Children.

JOHN CHEETHAM, professor of music, received three composition commissions during the past year. "Three Bingham" for string orchestra was commissioned by the Missouri unit of the American String Teachers Association; "A Brass Menagerie" for brass quintet was commissioned by the New Mexico Brass Quintet; and "Variations," another work for brass, was commissioned by Churchill Downs for the April dedication of the new Kentucky Derby Museum in Louisville.

KATHI CHINN, graphic designer, and **ROXANNE THIEL**, graphic artist II, staff members in Publications and Alumni Communication, participated in the 15th annual conference of the University and College Designers Association in Chicago.

LINDA COLLIER, assistant professor of veterinary pathology, and **ED KING**, research assistant professor of veterinary pathology, presented "Choroidal Abnormalities in Cats and Chediak-Higashi Syndrome" at a meeting of the Association of Research in Vision and Ophthalmology.

GEORGE CONSTANTINESCU, associate professor of veterinary anatomy and physiology, presented two papers that he co-wrote with **ROBERT MCCLURE**, professor of veterinary anatomy and physiology, at the American Veterinary Medical Association convention. They were called "The Arterial Supply to the Secondary Palleta in the Rabbit" and "Caudal and Middle Cervical Ganglia in the Rabbit." Constantinescu also presented the poster, "Anatomical Dipus Dibranchus Calf," to the AVMA and to the American Association of Veterinary Anatomists meeting in Davis, Calif.

ROBERT CORWIN, professor of veterinary medicine and surgery, presented a poster session about stocker calf parasitism and serodiagnosis of canine heartworm disease at the American Veterinary Medical Association convention in Las Vegas, Nev. Also, he was installed as president of the American Association of Veterinary Practitioners House of Delegates.

JEAN DESGRES, doctor of sciences and biochemistry at Centre Hospitalier Universitaire de Dijon in France, is a visiting professor of biochemistry at the UMC Experiment Station Chemical Laboratories this year. He is conducting research in analytical biochemistry with emphasis on chromatography of nucleic acids and protein carcinogen adducts, their separation, characterization and identification. Desgres is

Aging: part of lifespan

Nobel laureate Frederick Chapman Robbins brought home a perspective on the developmental cycle from youth to old age Oct. 29 at the Medical School Addition Auditorium.

"Aging is part of the development of a human being, part of a lifespan," the former Columbian told the capacity audience. Robbins' father, W.J. Robbins, served as acting president of the University in 1933.

"The problem of the aging of society is one of the most serious issues we face today," Robbins said. "No society has ever had people living (for as long) as they do today."

Advances in medicine and health care have resulted in increased life expectancy. By 2080, the life expectancy will be 85 years for women and 76 for men. This results in unprecedented problems for society in general and health care in particular.

When Robbins attended UMC's School of Medicine in the 1930s, medicine was less sophisticated than today. Health care ran the gamut from folklore techniques to the administration of some vaccines and some surgical procedures.

Robbins, AB '36, BS Med '38, said the increase in life expectancy is partly a result of the dramatic decreases of death by stroke, coronary heart disease and cardiovascular diseases since 1968.

Because people live longer, the need to provide long-term health care is a major issue. "Today we need greater education of patients on how to lead more healthy lives," Robbins said.

An estimated 20 percent to 30 percent of U.S. health-care dollars now goes for treating elderly patients. Physicians, social workers and community leaders need to develop solutions of caring for the elderly, Robbins said.

These needs can be achieved through proper supervision of nursing homes, edu-

cational emphasis on home care and better integration of older people into society, he said.

Robbins, who is chairman of the National Academy of Sciences Committee on Aging, said care for the elderly is not being addressed with vigor. "Quality of life becomes the issue," he said. "Physicians have to think of the variety of ailments in the same person—there are few without at least three problems."

Robbins, a pediatrician who earned the MD degree from Harvard in 1940, correlated illness in youth to medical problems seen in people older than 65. Shingles, for example, occur in elderly people who had chicken pox in childhood. Later in life, when immunity wanes, a person becomes susceptible. Hearing problems often result in patients with a history of childhood ear infections. Viral infections can develop from diabetes early in life. The same enzyme deficiency found in Down's Syndrome occurs in some Alzheimer's disease patients. Smoking and drinking often lead to difficulties later in life. Smoking accounts for one-third of all cancers and can cause heart disease and chronic pulmonary diseases.

As the number of elderly people increases faster than the general population, and the number of people older than 75 grows even more rapidly, Robbins said the need to find better ways to care for older people becomes a community issue.

Robbins, president of the Institute of Medicine, National Academy of Sciences, received the Nobel Prize in Physiology and Medicine in 1954 along with Drs. John Enders and Thomas Weller for research that was instrumental in Salk's development of the polio vaccine.

His lecture was the first of the 1985-86 Faculty and Guest Speaker Seminars on Aging, co-sponsored by the School of Medicine, Center for the Study of Aging, College of Arts and Science, School of Nursing and Truman Veterans Hospital.

Among many honors and awards, Robbins has received eight honorary doctor of science degrees, including one from UMC in 1958, the First Mead Johnson Award jointly with Weller in 1953 and the Kimble Methodology Research Award in 1954 jointly with Enders and Weller.



"We need greater education of patients on how to lead more healthy lives," Nobel laureate Frederick Chapman Robbins says.

collaborating in research with **CHARLES W. GEHRKE**, professor of biochemistry and director of the Interdisciplinary Chromatography-Mass Spectrometry Facility.

KITTY DICKERSON, associate professor and chair of clothing and textiles, has won the 1985 Man-Made Fiber Award for her research on consumer attitudes toward imported apparel. The award is sponsored by the Man-Made Fiber Producers Association Inc. and the American Home Economics Association. At a meeting of the Missouri Home Economics Association in St. Louis, Dickerson and Tina Su-Wen Cheng presented a poster session called "Imported Apparel: Do Trade Agreements Influence Prices? Clothing from Taiwan as a Case in Point."

IRVING EPSTEIN, assistant professor of higher and adult education and foundations, joined the faculty of the College of Education this fall.

MICHAEL GALBRAITH, assistant professor of higher and adult education and foundations, joined the faculty of the College of Education this fall.

V.K. GANJAM, professor of veterinary anatomy and physiology, presented a paper, "New Indications for Drugs that Effect Prostaglandins and Leukotrienes," at the American Veterinary Medical Association convention in Las Vegas, Nev.

The Health Services Management Program was host to members of the professional certification committee and the officers and staff of the American College of Health Care Administrators in May for a two-day faculty workshop on the Management of Nursing Home Operations computer simulation program. Assistant professors **KEITH BOLES** and **GLORIA DECKARD**, and **JAMES IRVIN**, associate professor, were advisers on upgrading the simulation exercise to increase its effectiveness. **GORDON D. BROWN**, director, is a member of the PCC and has worked to strengthen the relationship between the educational activities of the ACHCA and university health administration programs.

GARY HENNIGH, associate professor of housing and interior design, and **JEAN GRIFFIN**, assistant professor of clothing and textiles, led 18 students on a European study tour this summer. The group studied architecture, interior design, and clothing and textiles in England, Belgium, France, Switzerland, Italy, Austria and Germany.

CURT MATHERNE, research associate in veterinary pathology, won a three-year National Institutes of Health Individual Research Fellowship. The \$78,000 award will support Matherne's postdoctoral research in laboratory animal medicine.

STEPHEN MCCARNEY, assistant professor of special education, was the keynote speaker at the Minnesota Educators of the Emotionally Disturbed spring conference in St. Cloud, Minn. He also was a featured speaker at the Michigan Association of Teachers of Emotionally Disturbed Children spring conference, where he presented his Behavioral Intervention Manual.

MARY MCDONALD, assistant professor of medical dietetics, received the Outstanding Dietitian of the Year Award from the Missouri Dietetic Association for her service to the profession at the state and national level. She represents the state in the House of Delegates of the American Dietetic Association.

ROBIN MCFARLANE, research associate in veterinary microbiology, won the Animal Health Institute Foundation's second annual Joseph J. Garbarino Achievement Award. McFarlane was awarded \$1,500 for original research with significant applicability to the health or nutrition of agricultural or companion animals.

RICHARD T. MCGUIRE, assistant professor of health and physical education, joined the faculty of the College of Education this fall.

RONALD MCLAUGHLIN, director of Laboratory Animal Medicine, has received a one-year \$116,823 grant from the U.S. Department of Health and Human Services to finance postdoctoral training in laboratory animal medicine.

HELEN MULLEN, associate professor of medicine, has received a one-year \$71,865 grant from the U.S. Department of Health and Human Services to continue her

Please turn to Page 6



Forensic sculptor Betty Pat Gatliff demonstrates facial reconstruction.

Pat Davison photo

Reconstruction provides clues

Forensic sculptor brings unknown dead 'to life' as she helps solve murder and mystery.

Her faces have appeared on "That's Incredible" and "Quincy" and have provided the missing link in solving numerous murder crimes across the United States.

But the name and face of Betty Pat Gatliff remains anonymous to most Americans. She is a free-lance medical illustrator and forensic sculptor from Norman, Okla., who visited campus Oct. 22-23 to demonstrate the technique of facial reconstruction from a skull. The presentation was sponsored by the Department of Anthropology Human Skeletal Identification Laboratory and Extension Teaching.

Gatliff's reconstructions are used by law enforcement agencies to make positive identifications of decomposed bodies. A picture of the reconstructed face is placed in area newspapers where officials believe someone might be able to positively identify the person in question. Often, an identification will lead to the solution of a murder case.

"It's exciting to see someone brought to justice," Gatliff says of her work. "Overall, I've had a 62 percent success rate of identification."

Gatliff has performed 105 reconstructions since beginning her work in 1967. Ironically, she wanted no part of the job when first asked to try it 18 years ago.

At that time, she was employed by the Federal Aviation Administration as a medical illustrator. She was commissioned by the administration to try a new technology for identifying the dead, using the skulls of airplane accident victims to reconstruct their faces.

The technique was first attempted in 1895 by a man trying to reconstruct the face of Johann Sebastian Bach. Research on ca-

davers since has produced accurate skin depth measurement data for sex, race and fat accumulation under the tissue of an individual.

Gatliff needs only to know the sex, race, an estimate of the individual's age at death and any anatomical peculiarities, diseases or injuries—all of which can be determined by an anthropologist—before beginning a reconstruction job.

After selecting the correct tissue thickness data, she glues markers cut to the proper depth to 18 different points on the skull. Then, "as simple as playing connect the dots," she links one marker to another, and fills the spaces in-between with clay to form the shape of the face.

Mouth, eyes, nose and ears are done based on the individual skull, using researched measurements. For instance, the vertical thickness of the lips is measured gumline to gumline on the teeth, and the width of the mouth is approximately the distance between two lines radiating out from the junction of the canine and first premolar on each side. The nose width is computed by measuring the bony nasal aperture at its widest points and increasing the dimension by 10 millimeters for whites, 16 mm for blacks. The projection of the nose is three times the length of the nasal spine, establishing the location of the tip of the nose.

After the features are completed, a wig is selected that closely resembles a hair sample found at the scene of a crime. Gatliff likes to place a shirt or blouse on the shoulders of the finished facial sculpture to give a portrait illusion to the viewer.

When she first started, a job would take Gatliff two weeks to complete. Now she is able to re-create a human visage in three days at a charge of \$500.

Gatliff's trade has been an education in ways other than she might have liked. After one of her sculptures helped solve a murder case and put the perpetrator behind bars, he threatened to kill her and others when he got out of jail.

While listening to the news a few months later, Gatliff learned her malefactor had

escaped from prison. Though he never came back to dispose of her, and was finally apprehended a year later, Gatliff no longer allows her name to be publicly associated with a case.

Her work is not all doom and gloom, however. Publicity from a 1978 case in DeKalb County, Ill., landed her on the set of "Quincy."

"It was a fluke," she says. "Jack Klugman happened to be in Chicago at the time and heard about the case. He asked his script writers to write a story around the technique."

Gatliff served as an adviser for the writing of the episode, and her hands—as she worked on a sculpture—appeared on the show. From the experience, she took home a director's chair with her name on the back, and an invitation to return and do another episode, which she did in 1980.

Other enjoyable projects she's done include reconstruction of the faces of King Tut, explorer Francisco Pizarro and John F. Kennedy, using model skulls made from measurements taken from the actual skulls of the three. The Kennedy sculpture was used to conduct ballistics tests that helped determine the source and direction of the assassin's bullets that took the President's life.

In retirement, Gatliff reconstructs one head per month on the average, and travels, giving 25 to 30 lectures a year. Gatliff, who holds a bachelor's degree in art from Oklahoma College for Women in Chickasha, says the number of people doing facial reconstruction in the United States has grown steadily. There were five in 1980, and now there are 25. Dentists, anthropologists and police artists are just some who do facial reconstruction, but there is no ideal education to prepare for the job.

"I think the important thing is to be in law enforcement in some way," she says.

Whether working on a world-famous face or that of a missing 6-year-old, Gatliff says all the skulls are exciting.

"I'm really fascinated with the skull. The creator really did something for us when he made it. We just take it all for granted."

Continued from Page 5

research of "Suppressor T Cell Regulation of Autoimmune Thyroiditis."

STUART B. PALONSKY, associate professor of curriculum and instruction, joined the faculty of the College of Education this fall.

NORMAN PETERSON, PhD '85, assistant professor of practical arts and vocational-technical education, joined the faculty of the College of Education this fall.

MERL RAISBECK, assistant professor of veterinary pathology, presented a paper, "Toxicology Lab Database Management," at a meeting of the Midwest Association of Official Analytical Chemists."

BARBARA J. REYS, PhD '85, assistant professor of higher and adult education and foundations and curriculum and instruction, joined the faculty of the College of Education this fall.

GEORGE ROTTINGHAUS, assistant professor of veterinary anatomy and physiology, presented three papers he co-wrote at the Midwest Association of Official Analytical Chemists regional meeting in Chicago. They were called "TLC Screening for Anticoagulants" with **RANDAL CLARK**, senior research/laboratory technician, "HPLC Determination of Ergot Alkaloids" with **ROBERTA KOHRS**, senior re-

search/laboratory technician, and "TLC, HPLC, GLC and Neutron Activation Determination of Selenium" with **MARIANNE DOLAN**, senior research/laboratory technician, and **KURT ZINN**, a veterinary medicine student.

BENJAMIN ROUNTREE, assistant professor of health services management, is conducting a major study of employee performance, stress, burnout and turnover in nursing homes.

WENDY L. SIMS, assistant professor of curriculum and instruction, joined the faculty of the College of Education this fall.

JEFFREY H. SNOW, assistant professor of educational and counseling psychology, joined the faculty of the College of Education this fall.

STEVE STOCKHAM, assistant professor of veterinary pathology, presented "Erichiosis (granulocytic form) Associated with Arthritis in the Dog," a paper he co-wrote, at the Workshop on Diseases Caused by Leukocytic Rickettsiae of Man and Animals at the University of Illinois at Urbana-Champaign.

ALBERT Y. SUN, research professor at the Sinclair Research Farm, has received a one-year \$134,352 grant from the U.S. Department of Health and Human Services for continued study on "Alcohol-Membrane Interaction on the Brain: Aging Effect." The project has been recommended to receive an additional \$242,000 in the next

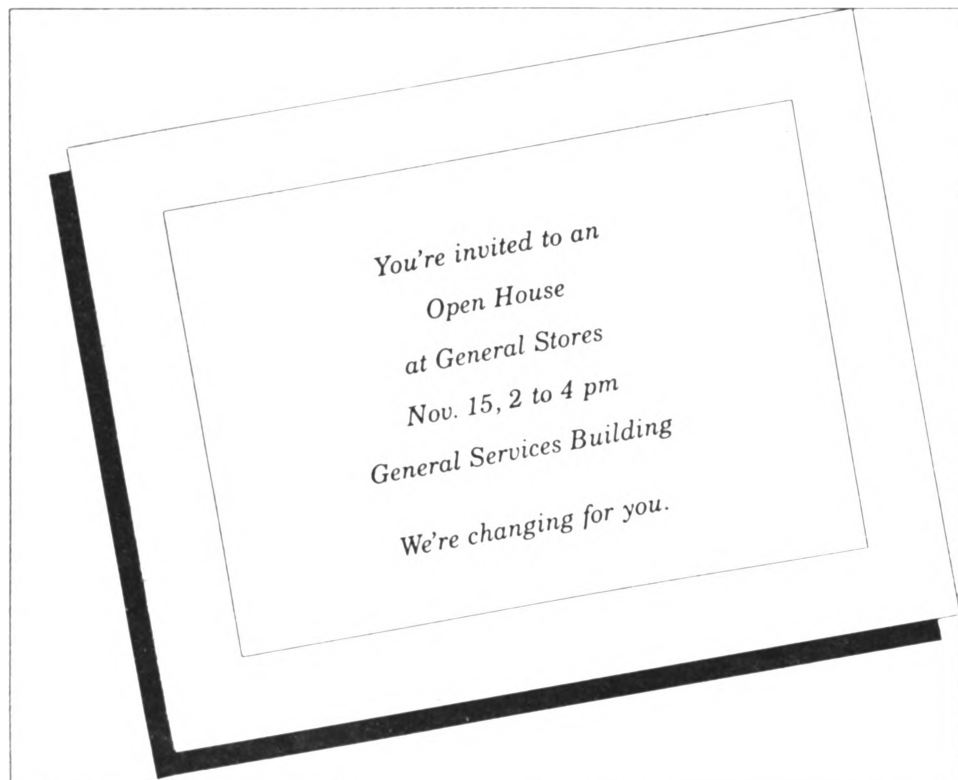
two fiscal years.

MANUEL TORRES-ANJEL, associate professor of veterinary microbiology, presented a paper, "Improved Rabies Diagnosis in Long-Term Formaldehyde-Treated Specimens by Immunostaining," at the North-Central Conference of Veterinary Laboratory Diagnosticians.

M.E. TUMBLESON, professor of veterinary anatomy and physiology, headed the Swine in Biomedical Research Conference in College Park, Md. He also presented several scientific papers, including "Fetal Alcohol Syndrome in Miniature Swine," which he co-wrote with **J.D. DEXTER**, professor of neurology.

STEVEN WATTS, visiting professor of history, will publish his manuscript, "The Republic Reborn: War and the Making of Liberal America, 1790-1820," in fall 1986. His essay, "Soul Searching: American Liberalism and its Discontents," was published in the summer 1985 edition of the American Quarterly. In April, Watts presented "Fear and Loathing in the Early Republic: Charles Brockden Brown and the Origins of Victorian Culture" to the annual meeting of the Mid-America Studies Association, of which he was appointed a member of the executive board.

MARY L. WEAKS, a graduate student, published "The Search for a Terra in 'A Place to Come To'" in Mississippi Quarterly.



Labor relaxation studied

Make a tight fist, and ask someone to squeeze your biceps as tightly as possible. Hurts, right? Now, as he or she continues squeezing, relax your arm. Let it go limp. Hurts less, doesn't it?

Various relaxation techniques can have the same effect on your entire body.

Women who practice such techniques will experience less pain during childbirth.

Yet women preparing for natural childbirth have been able to choose only Lamaze classes since the late 1950s, although other techniques may be more effective, says Elizabeth Geden, associate professor of nursing.

Geden has completed a five-year study funded by the U.S. Department of Health and Human Services that shows other techniques lessen pain during delivery as much, or possibly more, than the traditionally used Lamaze.

She will discuss her research on "Comparison of Pain Management Strategies" at a brown-bag lunch from 12:40-1:30 p.m. Nov. 13 in 210 Switzler Hall.

"We ought to be offering some choices to women," she says. "Give them a smorgasbord; let them pick what they think will be most effective for them."

Although she says her results are not statistically significant, Geden found sensory transformation to be consistently more effective in pain management than Lamaze. "Sensory transformation is a way of turning pain into a warm, relaxing and pleasant feeling," she explains. "It relies on the power of imagination to distract yourself from pain and discomfort."

Volunteer participants in her study learned to relax their bodies and imagine a pleasant scene, such as lying on a warm beach, feeling the ocean breeze fan their bodies, listening to soothing waves. "You get inside of the scene—feel the sand, the wind, hear the waves."

Also tested was sensory description, which concentrates on describing what the pain will feel like before the women experience childbirth. "It's anticipatory training, but it doesn't tell you how to deal with the pain or cope with it," Geden says.

The study compared women who learned sensory transformation alone and with sensory description, Lamaze, basic education about childbirth along with some relaxation training, and a control group of women who were admitted to the Emergency Center and had no childbirth preparation classes.

Participants—women expecting their first child—were tested for their expectations of pain before starting the classes, and their pain levels in the labor room and after delivery. Nurses and physicians also were asked to rank the participants' perceived pain levels and cooperation.

Sensory transformation was rated as the most effective by both participants and health-care professionals, Geden says. "We can now suggest a viable alternative in sensory transformation."

University of Missouri-Columbia
presents

The Maxine Christopher Shutz Award and Lecture for Distinguished Teaching

"Professionalism: The Great Need of a Profession"

Joseph A. Silvos
UMC Professor of Accountancy

8:00 p.m., November 21, 1985

Memorial Union Auditorium
Reception Immediately Following
Memorial Union Faculty/Alumni Lounge

The public is invited.

JOBS

For more information on the following teaching and research positions, contact the appropriate individual listed below. All positions are contingent upon funding and enrollment.

- Art history and archaeology:** Assistant professor, deadline Jan. 15. Contact Norman Land, 882-6711.
- Educational and counseling psychology:** Assistant professor and counseling psychologist, deadline Feb. 15 (2). Contact Richard Caple, 882-6601.
- Mathematics:** Assistant/associate professor, deadline Feb. 1 (2). Contact Keith Schrader, 882-6221.
- Mechanical and aerospace engineering/design productivity center:** Assistant/associate/full professor, deadline Nov. 27 (2). Contact Kenneth Ragsdell, 882-2684.
- Mechanical and aerospace engineering:** Assistant/associate/full professor, deadline Nov. 27 (5). Contact Kenneth Ragsdell, 882-2684.

The following staff openings were approved and posted Nov. 4 and may be filled at any time after meeting the required posting period. Anyone with CMS computer access may view campus and UM vacancies by logging on to CMS and typing help jobs. If your terminal is not linked to the campus disk, type link UMCCMS 191 192 RR, enter, access 192 D, enter, help jobs. Or, over the phone, recorded listings of new campus and UM job openings are available 24 hours a day. For professional vacancies call 882-2345; for secretarial/clerical positions call 882-2041; and for technical/service/maintenance openings call 882-2916. For more information or to apply for a job, contact Personnel Services, 201 S. Seventh St., west entrance, at 882-7976. Salary codes follow some listings in parentheses.

- PROFESSIONAL**
- Administrative associate I,** Agriculture Dean's Office, 75 percent FTE, hours 8 a.m.-2 p.m. weekdays.
- Assistant editor,** Practical Arts and Vocational-Technical Education.
- Assistant supervisor dairy operations,** Dairy Science.
- Continuing education coordinator,** Child Health (position located in Jefferson City).
- Coordinator, media communications laboratory,** Academic Support Center.
- Coordinator statewide testing/evaluation,** Dean of Education.
- Coordinator, student financial aids,** Student Financial Aids, deadline Nov. 11.
- Cultural heritage projects coordinator,** Missouri Cultural Heritage Center, deadline Nov. 15.
- Customer service representative,** Printing and Records Management Services-UM.
- Director, development fund,** Development Fund.
- Energy management engineer,** Campus Facilities (one electrical distribution design engineer, one facilities design engineer and one energy management systems engineer).
- Senior continuing education coordinator,** Engineering Extension.
- Student services coordinator,** Student Development.
- Supervisor, bindery/mail,** Printing and Records Management Services-UM.
- RESEARCH/SERVICE**
- Electronics technician (M-60),** Campus Facilities.
- Pressman male or female,** Printing and Records Management Services-UM.
- Production assistant (M-53),** UED-Information.
- Research/laboratory technician (M-56),** Child Health, Medicine/Gastroenterology, Research Reactor-UM.
- Research specialist,** Animal Science, Child Health, Microbiology (2), Research Reactor-UM.
- Senior animal health technician (M-58),** Laboratory Animal Medicine, Veterinary Medicine and Surgery (2).
- Senior research/laboratory technician (M-59),** Agronomy, Animal Sciences (2), Biochemistry, Dalton Research Center, Food Science and Nutrition, Pharmacology, Physiology, Veterinary Biomedical Sciences (2), Veterinary Microbiology (2).
- Senior research specialist,** Biological Sciences, Home Economics/Human Nutrition, Surgery.
- Water chemistry specialist (H-54),** Campus Facilities.
- SECRETARIAL**
- Chief accounting clerk (M-57),** Medical School Accounting.

- Library assistant I (M-57),** Ellis Library-Serials Conversion Project, Law Library (one-year appointment).
- Library clerk III (M-55),** Ellis Library-Gifts and Exchange Department, 75 percent FTE; Ellis Library-Government Documents.
- Radio dispatcher (M-56),** University Police.
- Secretary (M-55),** Agronomy, Art and Archaeology, Development, Plastic Surgery, State Historical Society-UM, UED-Pest Management.
- Senior receptionist (M-55),** Personnel Services.
- Senior secretary (M-57),** Animal Sciences (effective Dec. 1), Mechanical and Aerospace Engineering (Design Optimization Laboratory), Research Reactor-UM, School of Nursing, UED-TODCOMP.
- Word processing operator II (M-55),** Mathematics, School of Business-Finance and Management.
- CLERICAL**
- Clerk typist (M-51),** Research Reactor-UM, Student Recruitment/Admissions/Records, UED-UMC Office of Conferences and Specialized Services.
- Clerk typist II (M-53),** Accounting Services.
- Payroll clerk (M-52),** Payroll and Student Accounts.
- Secretary-stenographer (M-54),** UED-Horticulture.
- Senior clerk typist (M-54),** Romance Languages, Intercollegiate Athletics-MASA, Residential Life/Food Service.
- Senior stenographer (M-54),** UED-Education, Veterinary Medicine-Laboratory Animal Medicine.

- Stenographer (M-53),** School of Social Work.
- COMPUTER/TECHNICAL**
- Data controller II (M-57),** Accounting Services.
- Research operator (M-62),** Research Reactor-UM, rotating shifts.
- Senior computer programmer/analyst,** Agricultural Economics.
- PART TIME OR TEMPORARY**
- Clerk (M-51),** Parking Operations, full time for approximately four months, then 20 hours a week, permanent.
- Research/laboratory technician (M-56),** Environmental Trace Substances Research Center-UM, full time, temporary for six months, hours 8 a.m.-3:30 p.m. Monday-Saturday or 3:30-11 p.m. Monday-Saturday, several openings.
- Senior cashier (M-55),** UMC Concert Series, 20 to 25 hours a week until May.
- Senior clerk typist (M-54),** Agriculture, 20 hours a week until May; Dean of Engineering, 20 hours a week, permanent.
- Student assistant-technical,** Veterinary Diagnostic Laboratory (computer programmer), 10 to 15 hours a week; Plant Pathology, 10 to 15 hours a week.

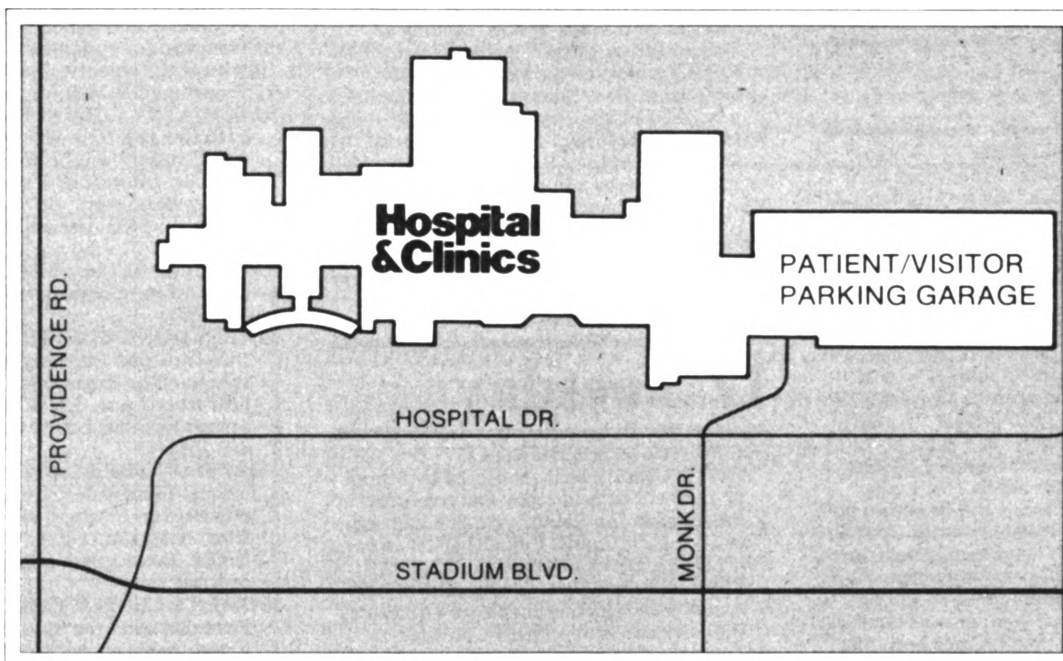
The following job openings were listed by the UMC Hospital and Clinics Personnel Department Nov. 4 and may be filled at any time after meeting the required posting period. For more information, call 882-8186.

ADMINISTRATIVE/PROFESSIONAL

Patient assistance coordinator, Patient and Physician Services.

- Senior fiscal analyst,** Professional Services.
- Telethon coordinator,** Administrative Services.
- CLERICAL**
- Secretary,** Nursing Service.
- Telecommunications operator,** Telecommunications.
- Unit clerk,** Nursing Service (4).
- NURSING**
- 882-8701**
- Administrative nurse I,** Nursing Service.
- Clinical nurse specialist,** Nursing Service.
- Education nurse I,** Nursing Service.
- Nurse practitioner,** University Physicians.
- Staff nurse,** Nursing Service (8).
- TECHNICAL**
- Hospital security officer,** Security (2).
- Medical technologist,** Pathology, Blood Bank.
- Radiographic service engineer,** Clinical Engineering.
- Registered respiratory therapist,** Respiratory Therapy.
- Research laboratory technician,** Pathology.
- Senior biomedical equipment technician,** Clinical Engineering.
- Senior research laboratory technician,** Pathology.
- SERVICE**
- Instrument technician,** Operating Room.
- PART TIME OR TEMPORARY**
- Clerk II,** Radiology, 50 percent FTE.
- Data entry operator II,** Pathology (2), 50 percent FTE.
- Food service attendant II,** Food Service, 25 percent FTE.
- Licensed practical nurse,** Nursing Care Bank, University Physicians.

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convenient spaces, all reserved for visitors and patients, and you'll walk directly into the Hospital without ever going outside. At University Hospital and Clinics, we've solved your parking problems.

University of Missouri-Columbia
Hospital & Clinics

The Staff for Life

CALENDAR

To list events in the calendar, send information to Paul Hoemann, Mizzou Weekly, 1100 University Place, by noon Friday the week before publication.

Highlights

LECTURE AND FILM: William Frantcher, professor emeritus of law and former chief of the War Crimes Branch of the Legal Division, Office of the Military Governor of Germany (1945-46), will speak on and show a film about the Nuremberg War Trials at 8 p.m. Nov. 13 in Gannett Aud. The event is sponsored by the Graduate Professional Council, School of Law, Student Bar Association and the Hillel Foundation.

LECTURE: Telford Taylor, chief prosecutor of the Nuremberg War Trials and law professor at Columbia University, will speak at 8 p.m. Nov. 14 in Jesse Aud. The event is sponsored by the Graduate Professional Council, Law School, Student Bar Association and the Hillel Foundation.

LECTURE: Allen Ryan, former director of the U.S. Justice Department Office of Special Investigation that conducted the "Nazi Hunts" and author of the best seller "Quiet Neighbors," will speak at 8 p.m. Nov. 15 in the Memorial Union Aud. The event is sponsored by the Graduate Professional Council, School of Law, Student Bar Association and the Hillel Foundation.

CONSTITUTION SEMINAR: In commemoration of the 200th anniversary of the U.S. Constitution, the schools of Law and Journalism will hold a conference Nov. 15-16 in Gannett Aud. Panelists representing both the bar and the press will discuss the relationship between the Constitution and its impact on the principles of free press. Program opens at 1:30 p.m. Nov. 15 with a videotape of the historically significant Zenger trial. Call Beth Brunstrom at 442-1212 for more information.

8 Friday

ENGINEERING CONFERENCE: "Micros Managing Maintenance," sponsored by Engineering Extension, will be held from 8 a.m.-5 p.m. in St. Louis. Cost to be announced. Call 882-3088.

MICROBIOLOGY SEMINAR: "Lipopolysaccharides in the Bacterial-host Interaction" will be presented by David Morrison of the University of Kansas at 12:40 p.m. in M640 School of Medicine.

PSYCHIATRY SPEAKER: John H. Greist, professor of psychiatry at the University of Wisconsin-Madison, will present "Anxiety Disorders: 1985 Update" at 1 p.m. at the St. Louis State Hospital Complex, Kohler Bldg. Aud., 5400 Arsenal St., St. Louis.

MSA FILM: "Paris, Texas" will be shown at 7 and 9:30 p.m. in Middlebush Aud. Cost: \$2.

LAW CONFERENCE: "A Circuit Court Jury Trial: Comparative Closing Arguments," sponsored by the School of Law, will be held from 8:30 a.m.-5 p.m. at the Flaming Pit Banquet Center. MATA members: \$80; non-members: \$95.

LAWS OBSERVATORY: Observatory, located on roof of Physics Bldg., will be open from 8-10 p.m., weather permitting. Call 882-3036 or 443-4335 for more information.

CONCERT: Band Spectacular will be held at 8 p.m. in Jesse Aud.

9 Saturday

TEST: APICS will be given from 8 a.m.-5 p.m. in 310 Middlebush Hall. Advance registration necessary. Call 882-4801.

TEST: PCAT will be given from 8:30 a.m.-12:30 p.m. in 310 Middlebush Hall. Advance registration necessary. Call 882-4801.

MUSEUM OF ANTHROPOLOGY AND MISSOURI CULTURAL HERITAGE CENTER: Archaeological dig and investigation on the grounds of 1868 Conley House can be observed from 11 a.m.-1 p.m. at the corner of Conley Avenue and Sanford Street. Convenient parking for football game is available nearby. Call 882-3544 or 882-6296 for more information.

FOOTBALL: Team will play Oklahoma at

11:40 a.m. at Faurot Field. Cost: \$15 reserved seat, \$7.50 general admission.

WOMEN'S CENTER: "Women Relating to Women" workshop will be held from 1-4 p.m. in 1 Gentry Hall. Call 882-6621 to register.

MSA FILMS: "B:by" will be shown at 2, 6 and 9:30 p.m. in Jesse Aud. Cost: \$2. "This is Spinal Tap" will be shown at midnight in Memorial Union Aud. Cost: \$1.

10 Sunday

LECTURE SERIES ON ART COLLECTING: "Collecting Regional Painting" will be presented by Melissa Williams at 3 p.m. in the Museum of Art and Archaeology, 106 Pickard Hall. Cost: Free to Museum Associates members, \$25 for non-members, and \$7.50 for students and senior citizens.

MSA FILM: "The Picture of Dorian Gray" will be shown at 8 p.m. in Memorial Union Aud. Cost: 50 cents.

11 Monday

1985 MISSOURI INCOME TAX INSTITUTES: Event sponsored by School of Law will be held today and tomorrow at Rosener's Restaurant, Highway 67 North, in Flat River, Mo. Call 882-4031.

MICROBIOLOGY SEMINAR: "B Cell Activation: Lymphokine-mediated Signals for Proliferation and Differentiation" will be presented by Kathryn Brooks of the University of Texas at 1:40 p.m. in M640 School of Medicine.

BIOCHEMISTRY SEMINAR: "A Second Class of Intron Self Splices Yielding an Excised Intron Lariat" will be presented by Philip Perlman of the Department of Genetics at Ohio State University at 3:30 p.m. in 322 New Chemistry Bldg.

WOMEN'S CENTER: "A Weaver Works" will be presented at 7 p.m. in 1 Gentry Hall. Barbara Overby will demonstrate weaving.

MSA FILM: "Pinocchio" will be shown at 8 p.m. in Memorial Union Aud. Cost: 50 cents faculty/staff.

CONCERT: University Singers, conducted by Duncan Couch, will perform at 8 p.m. at the First Presbyterian Church.

12 Tuesday

1985 MISSOURI INCOME TAX INSTITUTES: Event sponsored by School of Law will be held today and tomorrow at the Ramada Inn South, 6926 S. Lindbergh at I-55, in St. Louis. Call 882-4031.

EMPLOYEE DEVELOPMENT SEMINAR: "Employee Relations: Issuing Disciplinary Action and Handling Employee Grievances" will be presented by Karen Cottledge-Touzeau, director of UM Affirmative Action/Employee Relations, from 9 a.m.-4 p.m. in the training and development conference room, lower level Lewis Hall.

UNIVERSITY CLUB LUNCHEON: "The State of Higher Education Funding Appropriations for 1986-87" will be discussed at noon in the small ballroom of Memorial Union. Panel members will include Chris Kelly, Ken Jacob and Carl Settergren, and discussion will be moderated by municipal judge Bob Bailey.

RESEARCH SEMINAR: Paul Knepper of Northwestern University will speak about glycosaminoglycans in eye pathology at 4:30 p.m. in the Mason Institute of Ophthalmology Conference Room.

CLOTHING AND TEXTILES: Dena Shuman McKinley, vice president of merchandise information systems for the May Co. of California, will discuss retail management through merchandise information systems. Class will meet from 7-9:30 p.m. in Geology Aud. Open to faculty. Students must be enrolled in CT 355.

DEAN'S LECTURE SERIES: "Global Plate Motions: An Overdetermined Inverse Problem" will be presented by J. Engelyn, geology professor, at 7:30 p.m. in 236 Physics Bldg. A reception hosted by Arts

and Science Dean Milton Glick will follow.

MSA FILM: "On a Clear Day You Can See Forever" will be shown at 8 p.m. in Memorial Union Aud.

13 Wednesday

PSYCHIATRY CONFERENCE: "How to Work With People in a Health Care Setting" will be the topic discussed at event presented by the Missouri Institute of Psychiatry at Kohler Bldg. Aud., St. Louis State Hospital Complex, 5400 Arsenal St., St. Louis. Fee: \$50.

PHYSIOLOGY SEMINAR: "The History of the Department of Physiology, UMC Medical School" will be presented by Dallas Meyer, professor emeritus of physiology, at 11:40 a.m. in MA414 Medical Sciences.

FRIENDS OF ETHNOMEDICINE: Elizabeth Geden, associate professor of nursing, will discuss her research on "Comparison of Pain Management Strategies" at a brown-bag lunch from 12:40-1:30 p.m. in 210 Switzer Hall.

WOMEN'S CENTER: "Women and the Arts Film Festival," a collection of films featuring women artists, will begin at noon in 1 Gentry Hall.

LUNCHTIME GALLERY EVENT: Assistant Museum Director David Butler will discuss the current special exhibition, "Images of West Africa," at 12:25 p.m. in the Museum of Art and Archaeology.

PSYCHIATRY COLLOQUIUM: Kathryn D. Cramer, director of the HealthLine Program at St. Louis University Medical Center, will discuss "Stress Management and other Prevention Skills" at 1 p.m. in the Truman Veterans Hospital Aud.

CPPC: "Career Exploration for Women" will be presented from 3:45-5 p.m. in 201 Noyes Bldg.

MSA FILM: "Stranger Than Paradise" will be shown at 7 and 9:30 p.m. in Ellis Aud. Cost: \$1 faculty/staff, 50 cents students.

LECTURE AND FILM: See Highlights.

CONCERT: Missouri Arts Quintet will perform at 8 p.m. in the Fine Arts Recital Hall.

14 Thursday

FARM POLICY SEMINAR: Event will be held today and tomorrow at UMC, featuring key agricultural economists from around the country. Call Mary Anne Rausch at 882-2429 for more information.

PSYCHIATRY CONFERENCE: "How to Be Effective as a New Manager in a Health Care Setting" will be discussed at a Missouri Institute of Psychiatry event in Kohler Bldg. Aud., St. Louis State Hospital Complex, 5400 Arsenal St., St. Louis. Fee: \$60.

TEST: CLEP will be offered from 8 a.m.-4 p.m. Advance registration is necessary. Call 882-4801.

ENGINEERING CONFERENCE: "Construction Planning and Scheduling," sponsored by Engineering Extension, will be held from 8 a.m.-5 p.m. today and tomorrow in St. Louis. Cost: \$325. Call 882-3088.

FORUM ON THE BLACK EXPERIENCE: "Equal Employment Opportunities" will be presented by attorney Michael Middleton from 11:30 a.m.-1 p.m. in S8 Memorial Union. Event sponsored by Black Studies program.

WOMEN'S CENTER PROGRAM: "Is there Feminism after the Second Sex?" a look at French feminists and their writings, will be presented at noon in 1 Gentry Hall by Donna Kuizenga, associate professor of Romance languages.

MICROBIOLOGY SEMINAR: "Regulation of DNA Supercoiling in Bacteria" will be presented by Gail Pruss of the University of Rochester at 1 p.m. in MA217 Medical Sciences.

STAFF ADVISORY COUNCIL: Group will meet at 1:15 p.m. in S204 Memorial Union.

ENTOMOLOGY SEMINAR: "Assessment of Soybean Insects Associated with Conservation Tillage in Missouri" will be presented by M. Higdon at 3:40 p.m. in 2-7 Agriculture Bldg.

ENVIRONMENTAL ENGINEERING SEMINAR: "The Future Direction of the State's Environmental Program" will be presented by Frederick A. Brunner from 7:30-9:30 p.m. in S203 Memorial Union.

LECTURE: See Highlights.

15 Friday

TEST: CLEP will be offered from 8 a.m.-4 p.m. Advance registration is necessary. Call 882-4801.

TEST: MPRE will be given from 12:30-4 p.m. in 22 Tate Hall. Advance registration is necessary. Call 882-4801.

PSYCHIATRY SPEAKER: Agnes B. Hatfield, associate professor of education at the University of Maryland, will speak about "Special Needs and Concerns of Families of Mentally Ill Patients" at 1 p.m. at the St. Louis State Hospital Complex, Kohler Bldg. Aud., 5400 Arsenal St., St. Louis.

CONSTITUTION SEMINAR: See Highlights.

MSA FILM: "The Karate Kid" will be shown at 7 and 9:30 p.m. in Jesse Aud. Cost: \$2.

LECTURE: See Highlights.

LAWS OBSERVATORY: Observatory, located on roof of Physics Bldg., will be open from 8-10 p.m., weather permitting. Call 882-3036 or 443-4335 for more information.

CONCERT: Horn Studio Recital will be held at 8 p.m. in the Fine Arts Recital Hall.

MEN'S BASKETBALL: Team will play the Irish National Team in an exhibition game at 8:10 p.m. in the Hearnes Arena. Cost: \$6.50 and \$5 faculty/staff, \$4.50 and \$3.50 students.

MUSEUM OF ART AND ARCHAEOLOGY BIRTHDAY PARTY: Event will be held from 8-10 p.m. on the first floor of the museum. Guests will be able to preview the Thomas Hart Benton exhibit.

16 Saturday

TEST: RELE will be given from 8 a.m.-1 p.m. in 126 Physics Bldg. Call 882-4801.

TEST: TOEFL will be given from 8:30-11:30 a.m. in Arts and Science Aud. Advance registration is necessary. Call 882-4801.

OUTDOOR PHOTOGRAPHY WORKSHOP: Sponsored by Wilderness Adventures, event will be held from 10 a.m.-3 p.m. Cost: \$5. Sign up at 305 S. Fifth St., 882-3066, by Nov. 14.

FOOTBALL: Team will play Oklahoma State at 1:30 p.m. at Faurot Field. Cost: \$12.50 reserved seat, \$5 general admission.

MSA FILMS: "1984" will be shown at 7 and 9:30 p.m. in Jesse Aud. Cost: \$2. "Harold and Maude" will be shown at midnight in Memorial Union Aud. Cost: \$1.

17 Sunday

CONCERT: Jeffrey Lemke, trombonist, will perform at 3 p.m. in the Fine Arts Recital Hall.

MSA FILM: "Citizen Kane" will be shown at 8 p.m. in Memorial Union Aud. Cost: 50 cents.

CONCERT: The UMC Brass Choir, directed by Betty Scott, will perform at 8 p.m. in the Fine Arts Recital Hall.

Exhibits

FINE ARTS GALLERY: "Movers and Shapers," a me:cy of work by regional sculptors, will be on display through Nov. 15. Gallery hours are 9 a.m.-3 p.m. weekdays and 2-4 p.m. Sundays.

BRADY COMMONS GALLERY: "Sati Memorialization and Worship in India," photography work by Bill Noble, will be on display through Nov. 22. Gallery hours are 10 a.m.-5 p.m. weekdays.

MUSEUM OF ART AND ARCHAEOLOGY: "Images of West Africa," a photographic exhibition, will be on display through Nov. 24 in 1 Pickard Hall. Hours are 8 a.m.-5 p.m. Tuesday through Friday and noon-5 p.m. weekends.

MUSEUM OF ART AND ARCHAEOLOGY: Renovated gallery of African and pre-Columbian art reopens Nov. 16. Hours are 8 a.m.-5 p.m. Tuesday through Friday and noon-5 p.m. weekends.

MUSEUM OF ART AND ARCHAEOLOGY: "Thomas Hart Benton Drawings" will be on display Nov. 16 through Dec. 22 in 1 Pickard Hall. Hours are 8 a.m.-5 p.m. Tuesday through Friday and noon-5 p.m. weekends.

JESSE HALL: The display cases for November will give an overview of services provided by the Can Do Crew: Campus Facilities, Campus Computing, Business Services, KOMU-TV, and Institutional Research and Planning.

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