

Changes proposed in benefits, personnel policies

Employees will be able to use earned sick leave during their probationary periods and retirees will enjoy a cost-of-living raise Sept. 1, if the Board of Curators approves changes in personnel policies and benefits programs. The board reviewed the proposed changes last week. Final action is expected next month.

The proposed changes, which would be effective Sept. 1, were prompted by suggestions from employee interest groups and UM administrators.

The sick leave amendment would enable all employees to take sick leave as soon as it is accrued. Currently, new employees accrue sick leave during their probationary period but are not allowed to use those days until probation has been completed. The

For prompt service, file claims completely

University of Missouri employees receive millions of dollars — \$15.7 million in 1985, to be exact — in medical benefits each year. Employees can be sure they receive their fair share as soon as possible by filing claims completely and correctly.

"Submitting incomplete claim forms is the most common cause of delay in payment," says Mary Ann Tipton, manager of UM employee benefits. "There seems to be a lack of awareness about how to fill out claim forms. Those who don't understand the process of filling out the form become frustrated and unhappy."

When the University established its self-insured medical benefits program, claims were processed by the University. As the program grew — more than 15,000 employees and retirees and their dependents are now enrolled in the program — it became more cost-effective for the University to hire a private firm to process claims, Tipton says.

Provident Life and Accident Insurance Co., the firm that now processes claims for the University's medical benefits program, processes an average of 3,000 claims per week for UM employees and dependents. The volume of claims being processed illustrates the need for claims to be filed completely.

"There are common errors that employees may be able to avoid if they know those errors or oversights are causing problems," Tipton says. "For example, nicknames should not be used in place of full names. And an employee's address used on the form should match the one kept on file with the employee's campus payroll/personnel office so that Provident Life can contact employees when necessary."

If employees have questions or problems when completing a claim form, they are urged to call Provident Life, Tipton says. Missouri residents can use the company's toll-free number.

"It is very important that employees complete forms correctly, because incomplete forms are returned to employees for corrections. That lengthens the claims payment process," Tipton says.

If the patient is someone other than the employee, information must be provided for both the employee and the patient. The date the patient began receiving coverage under the employee's policy is important information in Section Two of the form. "A child born after an employee signs up for medical insurance and a person who marries an employee already covered by the plan are

Proposed changes

Summary of proposed changes in personnel policies and benefits programs:

Sick leave: Probationary employees could use earned sick leave.

Personal days: Personal days could be used in half-day as well as full-day increments.

Retirement benefits: Retirees would receive 3 percent cost-of-living raises.

Medical benefits: No coverage would be allowed on sterilization reversal.

Long-term disability benefits: Maximum monthly payment would increase to \$5,000.

change would apply to all employees on probation on or after Sept. 1.

Other personnel amendments include a change in personal days policy, allowing personal days to be taken in half-day increments. This would be a change from current policy that requires personal days to be used

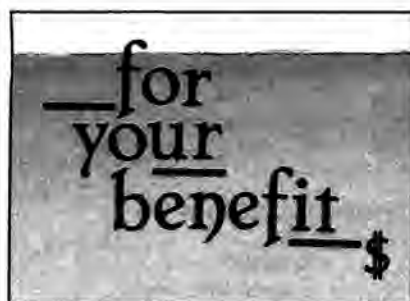
only as full-day leaves.

In accordance with federal regulations, an amendment was proposed to provide for military leave for probationary employees and to explain compensation and benefits upon return from a military leave of absence.

Another personnel amendment would

examples of patients whose initial coverage dates will differ from the employee's," Tipton says.

Employees must use Section Three to describe the nature of the accident or illness for which a claim is submitted. A job-related accident or illness should be described, but the employee also should apply for worker's compensation.



Some employees carry additional medical insurance, and that should be noted in Section Four of the claim form. "The University's claims processor needs to know if a patient is covered by other health plans because such group plans have a coordination of benefits feature," Tipton says. "For example, if a retired employee is covered by Medicare the employee should fill out the claim form and process it through Medicare channels first to receive benefits. Then the employee can send a claim form to Provident Life along with an explanation of benefits from Medicare."

Employees not covered by other plans must complete Section Four by stipulating that they are not enrolled in other plans.

No claim can be processed until it is signed and dated by the employee. If an employee wants Provident Life to pay covered expenses directly to the physician, the assignment of benefits provision (item 3 on the back of the claim form) must be signed by the employee or an authorized person.

The back of the claim form must be filled out by the physician if the physician's itemized statement of the necessary medical information has not been attached to the form.

Receipts for medicine must include the supplier's name, the name of the person for whom the medicine was prescribed, the purchase date, and the cost and name of the medication. The name of the medication, not just the prescription number, must be included with all claim forms filed July 1 or after,

enable a full-time employee who has sustained an on-the-job injury or illness to use personal days until worker's compensation benefits are payable.

Proposed amendments to the retirement, disability and death benefits plan include a 3 percent cost-of-living increase for retirees receiving benefits as of Sept. 1, 1984. The annual cost to the University would be \$179,990.

A second proposed retirement amendment would result in some increase in retirement benefits to faculty receiving additional compensation during the summer session. This change would allow faculty to receive service credit for any summer compensation up to 20 percent of the faculty member's nine-month salary. Currently, a faculty member receives retirement credit for summer session compensation that equals between 10 percent and 20 percent of his or her nine-month salary; any compensation under 10 percent is not credited toward retirement. This amendment would apply to the determination of benefits for retirements on or after Sept. 1, 1986.

Another amendment to the retirement plan would allow an employee who is vested in the retirement plan and who leaves the University's employ after Sept. 1, 1986, to choose an option that would provide benefits to the employee's surviving spouse in exchange for reduced benefits for the employee at age 65. Currently, a surviving spouse of a former employee vested in the retirement plan is not entitled to any benefits.

Another proposed amendment increases from \$1,750 to \$3,500 the maximum cash amount payable to an employee vested in the retirement program who leaves the University's employ.

None of the changes proposed for the retirement plan would require an adjustment in the University's contribution rate.

Proposed amendments to medical, dental and long-term disability benefits are:

- The medical and dental plan would use the earliest birth date in the year to determine who provides primary coverage for dependents — the employee or the employee's spouse who has included the dependents on his or her policy offered by another employer.

- The plan would continue to cover the cost of sterilization but would not cover the cost of sterilization reversal.

- In accordance with state law, the maximum number of days for care in a rehabilitative facility would be increased to 30 from the current 28, and the limit of two 28-day visits per lifetime would be eliminated. State law also requires coverage for non-residential as well as residential facilities. Also included is a minor wording change placing responsibility on UM in determining what is an approved rehabilitative facility. Currently, the University's contracted insurance company makes this decision.

- Maximum long-term disability payments would be increased from \$3,000 to \$5,000 per month.

Process changes for prescriptions

All prescription receipts submitted to Provident Life and Accident Insurance Co., the company that processes claims for the University's self-insured medical benefits plan, must include the name of the drug purchased as well as the prescription number as of July 1.

Employees will be reimbursed for covered drug purchases only if both the prescription name and number are provided. In the past, the insurance company accepted prescription receipts with either the prescription number or the name of the medicine.

Employees should notify their pharmacists of this change in requirements.

Beginning July 1, prescription claims without the necessary information will be returned to the employee.

or the form will be returned to the employee. (See related story.)

Other important information to remember when filling out a medical form:

- include employment status (retired or active)

- include the birth date of patient and relationship to employee

- call Provident Life if questions or problems arise: 800-325-2410 toll free for Missouri residents and (314) 878-0585 for residents of other states

- pre-printed envelopes are available, or the address for Provident Life can be found on the claim form.

Medical claim forms and envelopes are available at the following locations:

UM/UMC: Heinkel Building east and west lobbies (314) 882-2146

UMCHC: 1W-42 Hospital (314) 882-1536

UMKC: 211 Student Services Building (816) 932-4408

UMR: G-1 Parker Hall (314) 341-4244

UMSL: 211 General Services Building (314) 553-5805.

Proposed budget includes salary/wage increases

UM President C. Peter Magrath last week outlined for the Board of Curators an estimated UM general operating budget of \$353.45 million for fiscal 1987.

The amount includes a projected state appropriation of \$229.2 million, 97 percent of the amount approved by the General Assembly. Board approval of a budget for 1986-87 will come after Missouri Gov. John Ashcroft determines the state's level of support later this month.

Total revenue available for University operations in 1987 will increase between 4 percent and 5 percent over 1986. Even if the University received the entire appropriation approved by the General Assembly, which would be about 10 percent more than the

appropriation for this year, non-state revenues will be only about 1.8 percent higher than in 1986. About 40 percent of University revenues come from state appropriations and the remainder is provided by other sources.

The estimated UM budget for the fiscal year that begins July 1 is nearly \$16.5 million larger than the current year. The state's appropriation would increase \$14.2 million and non-state funding would increase \$2.25 million. Also included in the estimated budget is \$2.03 million in non-recurring state funds to purchase engineering equipment for UM-Columbia and UM-Rolla.

Estimated University revenues provide funds for a 4 percent increase in the salary and wage base and for expenses and equip-

ment.

Among the estimated budget's targeted investments designed to improve the University's programs and contributions to the state are \$1.94 million for Food for the 21st Century and \$970,000 for molecular biology at UMC; \$664,000 for basic life sciences at UM-Kansas City; \$533,000 for intelligent manufacturing at UMR; and \$113,000 for career counseling at UM-St. Louis.

Budgeted improvements, which result from nearly \$4.4 million in internal reallocations prompted by the University's long-range plan, include: increases in curators and university scholarships on all four UM campuses (\$533,000); improvements in research incentives for UMC faculty (\$500,000); and additional increases in scholarship programs at UMKC (\$615,000).

Board approves request for 1988 state capital funds

The University will request \$141 million in state funds for 1987-88 capital improvements on its four campuses and to its other facilities throughout the state.

The request includes \$50.8 million for maintenance and repair on all campuses, \$26.8 million for rehabilitation of existing facilities (including life safety, handicapped accessibility and animal welfare projects), \$14.8 million for capital equipment replacement and \$48.2 million for new construction and major renovation.

The request may be altered after the governor determines the level of capital funding for UM in 1986-87.

Projects included in the request's new construction and major renovation category:

UM-Columbia — \$16.35 million for an engineering lab and classroom. The 89,500-square-foot facility would be located adjacent to the existing engineering complex.

UM-Rolla — \$6.1 million for an auditorium, music and alumni building. The preliminary plans call for a two-level structure with approximately 50,000 square feet. An estimated 32,500 people, including members of the Rolla community, would use the facility. The building has an estimated project cost of \$9.5 million, which includes \$3.4 million from private funds.

UM-St. Louis — \$6.3 million for a 50,000-square-foot library addition that would accommodate the library requirements for the next 20 years.

UM — \$250,000 to design a 33,000-square-foot addition to the research reactor and allow for an upgrading of the reactor from 10 megawatts to approximately 27 megawatts. The addition is estimated to cost \$15.8 million (one-third of the funding will be requested from the state, one-third will be sought from federal sources and the remaining one-third will be funded by private development money).

UM-Kansas City — \$3.85 million for renovation of Nelson School, an elementary school building purchased by the University in 1984. The project also would provide for the construction of an addition adjacent to the building to accommodate teaching space for the Conservatory of Music and the undergraduate theater program. An additional \$1.5 million from the sale of the existing conservatory property also would be used to fund the renovation.

Missouri Research Park — \$250,000 to plan a conference and teaching facility to support technological education, extension programs and food and agriculture-related research and development efforts.

Salary/wage guidelines

UM salary and wage principles for 1986-87 were discussed at the Board of Curators meeting last week. If passed as part of the 1986-87 budget still under review, the guidelines will be used in salary and wage adjustments that will go into effect Sept. 1.

The guidelines:

- Average salary and wage increases of 3 percent for teaching, research and extension staff will be based on relative quality of performance and/or market circumstances. At least 1 percent of the salary and wage base will be used for increases based on special market considerations or needs of areas targeted for enhancement by the board's long-range plan.

- Average salary and wage increases of 3 percent will be available for administrative/professional staff. Personal merit and market circumstances will determine the raises. Adjustments to the minimum level of the pay range are mandatory for administrative/professional staff members performing at a satisfactory level. At least 1 percent of the salary and wage base is targeted for special salary increases in program areas outlined for enhancement.

- Members of the service and support staff who receive office/technical salaries receive a salary or wage increase of 3 percent if their job performance is satisfactory. A report of unsatisfactory work must be based upon documented performance appraisal. At least an additional 1 percent can be provided for merit increases. Together the across-the-board raises plus merit increases will equal at least 4 percent of the wage base for this employee category. Salary range minimums and maximums will increase by 3 percent.

- Four percent of the base wage scale of employees in the service and maintenance category will be available for increases. Increases will be announced following establishment of appropriate wage rates. Probationary and longevity increase policies will continue.

UM, Lincoln University join forces for premed program

UM President C. Peter Magrath and Lincoln University President Thomas M. Jenkins at meetings last week of their respective governing boards announced establishment of a cooperative premedical sciences program.

"The major goal of this program is the identification and recruitment of minority college students from Missouri who demonstrate an interest in a premedical science program at UM-Columbia and Lincoln University," Magrath told the UM Board of Curators.

"The ultimate success of this program will be determined by the number of minority students who enter and graduate from the UMC School of Medicine."

The proportion of minorities in Missouri exceeds 11 percent, but only 2.7 percent of the state's licensed physicians are black or native American. Of Missouri's 114 counties, 102 lack a minority physician and 11 have no physician.

"In order to increase the minority applicant pool and attract highly motivated and well-qualified applicants, it is necessary to contact students early in their career planning and to maintain systematic contact in the preparation and decision-making process," Jenkins told the LU Board of Curators. "By initiating exposure, monitoring progress and providing appropriate assistance through the undergraduate years, it is possible to achieve this objective."

The first participants in the program — five students from UMC and five from Lincoln University — will begin an eight-

week enrichment program in June 1987 at the UMC medical school. Sessions will include an orientation to medical school laboratories, clinics and facilities and a two-day study skills workshop.

The balance of the eight-week program will prepare participants for graduate and professional school admission tests. Included will be reviews of math, physics, chemistry and biology. Other features will cover stress management and personal, financial and career counseling. Also, each participant will work with a currently enrolled medical student in a "buddy system" format to gain additional insight into medical school.

Premedical enrichment programs at such institutions as the University of Nebraska, Michigan State University and the University of Iowa served as models for the cooperative UMC/LU program.

A joint committee appointed by Magrath and Jenkins will explore other potential cooperative efforts between the two schools. The committee is co-chaired by Nancy Marlin, UM assistant vice president for academic affairs, and Rosemary Hearn, LU special assistant for academic affairs. Committee members are Gerald Brouder, UMC interim provost; Otis Jackson, assistant provost at UMC and chairman of LU's Board of Curators; Marilyn Doerter, LU dean of professional studies; Milton Glick, UMC dean of arts and science; Carlton Molette, LU dean of arts and science; Nancy Solomon, associate dean of the UMC medical school; and Nathan Cook, chairman of the LU natural sciences and math department.

1987-88 Capital Appropriation Request

Maintenance and Repair	\$ 50,793,035
Columbia:	
General Campus	19,425,480
Hospital and Clinics	9,913,057
Agricultural Experiment Stations	4,460,458
Kansas City	5,374,487
Rolla	10,166,809
St. Louis	1,452,744
Rehabilitation of Existing Facilities	\$ 26,849,543
Columbia:	
General Campus	11,017,827
Hospital & Clinics	2,100,653
Agricultural Experiment Stations	160,247
Kansas City	3,681,554
Rolla	7,307,644
St. Louis	2,581,618
Capital Equipment Replacement	\$ 14,797,200
Medical Equipment (UMCHC)	6,150,000
Engineering Equipment (UMC)	915,200
Engineering Equipment (UMR)	1,792,000
Fixed Scientific Equipment (UMKC)	2,000,000
Teaching & Research Lab Equipment (UMR)	1,540,000
Video Classroom-Intercampus Instruction	2,400,000
New Construction and Major Renovation	\$ 48,180,000
(listed in order of UM priority)	
Engineering Lab & Classroom (UMC)	16,350,000
Auditorium, Music & Alumni (UMR)	6,100,000
Ellis Library-Phase II planning (UMC)	120,000
Library Addition (UMSL)	6,300,000
Reactor Addition planning (UM)	250,000
Veterinary Medicine Addition planning (UMC)	210,000
Nelson School Renovation (UMKC)	3,850,000
Electrical Engineering & Science Renovation (UMR)	4,000,000
Engineering Complex Renovation (UMC)	5,400,000
Agritech Center planning (MRP)	250,000
Agriculture Research Lab planning (UMC)	250,000
General Library Addition (UMKC)	4,850,000
Science & Technology planning (UMKC)	250,000
TOTAL	\$140,619,778

Board signs contract for UMKC research park

The UM Board of Curators and Continental-Kroh Development Group Tuesday signed a contract marking the official beginning of the development of a 50-acre site immediately north of the UM-Kansas City campus into a research and development park expected to strengthen the University and produce 4,000 to 5,000 new jobs for Kansas City.

According to Tom K. Smith Jr. of Ladue, president of the Board of Curators, the campuslike park designed by the New York architectural firm of Cooper Eckstut Associates will be developed over a 12- to 25-year period. Estimated construction cost of the project is about \$270 million in 1986 dollars.

The development's 2 million square feet of space will house research and development offices and laboratories of private companies and government agencies as well as facilities for University faculty and student researchers. The first building could be completed as early as 1988.

"This is an educational and research development utilizing the real estate and resources of the University," says UM President C. Peter Magrath. "Its purpose is to build linkages that can improve the contributions that the University makes to this region and the state."

Smith calls the development agreement "in the best interest of the University of Missouri and the Kansas City community." He says it will further development of Kansas City in technological fields and enhance UMKC's ability to serve the state and the community in a number of fields that will be



Artist's rendering of UMKC North Campus Development

keys to Missouri's economic future and quality of life in years to come.

UMKC Chancellor George A. Russell stresses the importance of plans to strengthen UMKC programs. "The feasibility of the developer's plan depends on several critical assumptions, among them the development at UMKC of nationally prominent programs in telecommunications/computer science and the basic life sciences, increased availability of graduate engineering programs in Kansas City and success of the Business Innovation

Center. If these programs can achieve acclaim, they will draw the type of research and development opportunities needed for the park's success."

The contract with Continental-Kroh follows a preliminary development analysis completed in June 1985. The University has conducted negotiations on a development contract with the firm, a joint venture between Continental Development Group of New York and Kroh Brothers Development Co. of Kansas City, for several months.

"We interviewed several companies before entering into negotiations, and we felt Continental-Kroh would provide both national strength and local perspective for this project," says Tom Hussey, UM associate vice president for administrative affairs, who headed the University's negotiating team.

Continental Development Group has compiled a nationally recognized record of success in real estate, business and finance. Kansas City-based Kroh Brothers was founded in 1910. The company's history of development, marketing and management achievements has made it a nationally prominent leader in the creation and acquisition of real estate, including office parks, medical and industrial buildings, shopping centers and residential communities. The firm owns and/or manages more than 15 million square feet in 13 states.

Magrath calls the University's development of research parks "a natural outgrowth of our responsibilities as a major land-grant university." Through the projects in Kansas City and St. Charles County (the Board of Curators approved a development contract for Missouri Research Park in February), the University will develop cooperative relationships with private industry that will offer faculty and students opportunities for practical research, consultancies and internships. Industrial researchers can serve as adjunct faculty, lending their expertise in the classroom.

For industry, access to University research and to students can be a decisive advantage. Almost half of all research in the United States is now conducted on university campuses.

The buildings in the development will be arranged around open areas to provide a campuslike setting. About 45 percent of the space will be devoted to offices and the remainder to research facilities. The buildings will be three to 12 stories high and will be compatible with the buildings in the surrounding area, which includes the UMKC campus and the Nelson-Atkins Gallery.

The contract calls for the University to provide the developers with a 75-year lease on the University property on which the project will be developed. After the expiration of the lease, all buildings and facilities on the University land will become the property of the University. The land is valued at about \$15 million.

The University will receive a base rent on the land and can share in the developer's income after development, including income that would be derived from leases and sale and refinancing of improvements.

Projects receive Research Assistance Act funds

The University of Missouri Board of Curators has approved funding for 21 projects under terms of the Missouri Research Assistance Act.

Under the guidelines of MRAA legislation of 1982, the state provides funding for up to one-third of a research project's costs, and two-thirds or more is supplied by non-state and non-federal sources. The state's portion of funding for these projects is \$624,130. Private sources must supply the other \$1.9 million.

Since the board approved the first awards in 1983, more than 100 UM research projects have shared nearly \$8 million provided under terms of the act. The Missouri Research Assistance Act was designed to stimulate the state's economic growth, create jobs and attract private investment. To date, some 70 firms ranging from Fortune 500 companies to small, start-up companies have provided funding to supplement state grants.

"MRAA is an effective means of encouraging the direct involvement of the University in the economic development of Missouri," says Nancy A. Marlin, UM assistant vice president for academic affairs and executive secretary of the committee that recommends projects for funding. "The program uses the talents of our faculty to work on problems that are of commercial interest to industry and at the same time provides research resources for our faculty members."

The MRAA Steering Committee, chaired by UM-Kansas City Chancellor George A. Russell and composed of UM, industry and government representatives, twice a year chooses projects to be recommended to the board. Internal members of the committee are Bobby D. Moser, chairman of the UM-Columbia animal sciences department; Robert W. Murray, UM-St. Louis Curators' Professor of chemistry; John T. Park, UM-Rolla vice chancellor of academic affairs; and Eleanor B. Schwartz, dean of the UMKC School of Business and Public Administration.

External members are state Sen. Wayne Goode; Allan D. Holiday of Kansas City, vice president of research and development for Farmland Industries; Thomas H. Lafferre of St. Louis, vice president of Monsanto Co.; and Marvin D. Marks of Warrenton, retired vice president for engineering and research at McDonnell Douglas Corp.

This funding cycle's state funding amounts, investigators and project titles, listed by areas of potential economic impact, are:

Agriculture

- \$8,666 and \$14,300 to Duane H. Keisler, animal sciences, UMC, "Cograzing of Cattle and Sheep to Increase the Profitability of Livestock Production Systems in Missouri and the Ozarks" and "New Tools for Improving Marketability of Cattle," respectively.
- \$7,000 to J.E. Savage, animal sciences, UMC, "Dietary Nutrient Levels and Incidence of Fatty Liver Hemorrhagic Syndrome."
- \$28,834 to D.A. Slepser, agronomy, UMC, "Whither the Endophyte in Tall Fescue?"

- \$5,000 to John A. Paterson, animal sciences, UMC, "The Energy Value of Corn Gluten Feed as an Alternative Supplement for Forage-Based Diets Fed to Steers."

- \$21,000 to Klaus O. Gerhardt, experiment station chemical labs, UMC, "Phytoattractants Responsible for Black Cutworm Infestation of Seedling Corn: Isolation and Structure Elucidation."

Industrial Processes

- \$6,066 to John W. Sheffield, mechanical and aerospace engineering, UMR, "Thermal Contact Resistance Studies of Ion Deposition Processed Surfaces."

- \$5,948 to H. Frederick Nelson, aerospace engineering, UMR, "Aerodynamics of Unconventional Missile Configurations."

- \$63,184 to Mark A. Prelas, nuclear engineering, UMC, and Thomas J. Dolan, nuclear engineering, UMR, "Spindle Cusp Plasma Heating."

- \$35,000 to Harvest Collier and James Stoffer, chemistry, UMR, "Establishment of a 100MHz NMR Laboratory."

- \$99,218 to Noel O. Nuessle and Beverly J. Sandmann, pharmaceuticals, UMKC, "Applications and Development of Research in Pharmaceutical Sciences."

- \$15,000 to James P. Riehl, chemistry, UMSL, "Circularly Polarized Luminescence from Racemic Mixtures Using Circularly Polarized Excitation."

Information Processing, Storage and Retrieval

- \$10,227 to Ralph W. Alexander Jr., physics, UMR, "Measurement of Optical Constants of GaAs-GaAlAs Laser Diode Materials."

- \$25,791 to Choon-Kyu Oh, computer science, UMKC, "Controlling Natural Language as a Programming Tool."

- \$34,722 to George W. Zobrist, computer science, UMR, "Real-Time Simulation Using Mission Software."

- \$61,842 to Jagan P. Agrawal, computer science, UMKC, "Design and Analysis of an Efficient and Economical Integrated Services Digital Network (ISDN)."

- \$39,455 to Adrian Tang, computer science, UMKC, "Towards a Functional Approach to Service Specifications."

- \$31,383 to Raju Ramaswamy, computer science, UMKC, "A Secure Communication System for Integrated Voice/Data Packet Network."

Natural Resource Management

- \$22,494 to Jay F. Kunze, nuclear engineering, UMC, "A Device to Mitigate the Impending Peak Power Crisis."

- \$59,000 to Charles W. Gehrke, biochemistry, UMC, "Environmental Dosimetry: The Detection and Identification of Carcinogen-DNA Adducts in Environmentally Exposed Fishes."

Applied Projects

- \$30,000 to Gary T. Devino, agricultural economics, UMC, "Development and Operation of an Agricultural Product Market Evaluation Unit."

State funds help UM strengthen computer access

Many more University of Missouri students and faculty will have access to academic computing facilities and computer science programs this fall, thanks to a \$6,973,000 one-time appropriation for this year from the General Assembly. UM is acquiring approximately 750 more workstations — terminals, personal computers and high performance graphic facilities — with the state funds.

The new equipment will allow students greater access to computers than ever before and is expected to help the University attract and retain top faculty and students.

"This is an excellent example of the state making an investment in the future through the University and the University stretching the dollars to obtain maximum effect," says UM President C. Peter Magrath. "The outcome will be graduates better prepared to move smoothly into the professional world where computers are common tools.

"I, and all Missourians, appreciate this prudent investment by the governor and the General Assembly in our state's educational future," he says.

Purchase has many benefits

According to Charles Shomper, director of UM computing and information technology, the acquisition has several benefits.

With more access to computer technology, students will be more marketable and take skills into the workplace that will make them more productive, Shomper says. Many students will be able to use the knowledge acquired at the University in helping integrate computer technology into Missouri business and industry.

Nearly all of the equipment is expected to be operational by fall. Improvements began in March when the University of Missouri-Columbia upgraded its campus mainframe computer to a dual-processor system that doubled its processing power.

The upgrade plans also provide for future growth in the number of workstations and tie together major computing resources.

Campus needs guide goals

Shomper says UM's goals for enhancing academic computing and computer science programs were based on campus needs and technology trends.

"Each campus submitted an assessment of its academic computing plan. Based upon these plans, CIT coordinated the development of a universitywide plan for the current fiscal year. We solicited partnerships with the information processing industry to assist



the University in achieving its academic computing goals."

The Academic Affairs Council approved the plan in October 1985. The plan was used as the basis for a request for information, known as an RFI, which was sent to 16 vendors.

"The purpose of the RFI was to get the best value for the state's money by utilizing volume discounts and special vendor concessions," Shomper says. Fourteen major data processing vendors submitted written proposals. Representatives from each campus and UM assessed the proposals by considering vendor capabilities in meeting major academic computing goals, quality of partnership offers and the companies' track records in working with higher education.

Vendors offered their best discounts, ranging up to 40 percent, and promised UM access to their specialized prototype computers.

University demonstrates commitment

Shomper says meetings held with the vendors reaped very positive benefits. "There was an increased understanding on the vendors' part of how they could assist the University in meeting its academic computing goals on a short-term and long-term basis.

"Because of the involvement of chancellors, vice chancellors and vice presidents in the meetings, vendors could see the University's serious commitment to academic computing. That awareness will be beneficial for many years to come," Shomper says.

UM-Columbia received \$2,257,270 of the appropriation for:

- a computer mainframe upgrade
- 260 workstations
- a "hands-on" facility for computer science to study computer networking, artificial intelligence and advanced operating systems

• computer equipment for the design productivity center in the mechanical and aerospace engineering department.

According to Bill Plummer, director of UMC campus computing, popular computer science courses will be greatly enhanced, and new course offerings can be added.

UM-Kansas City received \$1,283,000 of the appropriation to:

- triple its computing capacity
- add 290 workstations in arts and sciences, business education, the health sciences and the library
- acquire specialized equipment to enhance computing capabilities in the comput-

er science and telecommunications program, designated for eminence.

The one-time funds will allow UMKC to put workstations in the library to help meet student needs for extended computer hours. "It means greatly improved access to computer equipment and facilities for all students through the addition of nine new computer labs around campus," says Joe Doerr, vice chancellor for administrative affairs.

UM-Rolla received \$1,050,000 of the appropriation to:

- create computer learning centers
- upgrade its computer center to support the new equipment
- add 90 to 110 personal computers and 15 high-performance workstations to meet its academic computing goals.

One of UMR's instructional objectives is that all students by the time they graduate gain the computer expertise required by their professions. Nicholas Tsoulfanidis, former interim vice chancellor for academic affairs, says all students at UMR will be exposed to computer technology.

"It's not just for engineers. It's in the liberal arts too. And we are going to need more facilities as more and more students learn to use the computer and as more and more instructors incorporate the computer into their classes," Tsoulfanidis says.

UMSL receives \$1.3 million

UM-St. Louis will use its \$1,373,110 of the appropriation to:

- place approximately 65 additional workstations and 15 additional terminals to enhance the computing capabilities of the chemistry department, an eminence program
- purchase a graphics animation facility
- purchase an array of image-processing software for instruction and research.

UMSL's goal is to install at least one public computing facility in each instructional building on campus.

The director of computing and telecommunications at UMSL, Lawrence Westmeyer, says the additions will help UMSL establish two more computer labs. "The acquisitions allow us to provide general software needs to the campus and reduce the response time to students. But we still have great needs in the instructional area and also in faculty offices."

The University of Missouri's centrally administered units received \$1,009,620 of the appropriation to cover some of the capital cost of an intercampus digital telecommunications network to provide voice, data and video communications among the four campuses and to establish in the UM research reactor a unified and integrated computing environment similar to systems used by industry and major laboratories.

"The systems we are installing on each campus will benefit students greatly," Shomper says. "While it's just the beginning, it provides for rational expansion of computing resources as new educational needs dictate."

Jobs

The following administrative/professional and academic vacancies were listed with *Spectrum* as of June 13. Anyone interested in a position should contact the appropriate department or personnel office.

UMC: asst./assoc. professor of economics/director of Missouri Council on Economic Education; resident veterinarian, veterinary medicine/surgery; asst. professor, public administration, anatomy, photojournalism, recreation/park administration, surgery, immunology/rheumatology; asst./assoc. professor, political science, health related professions/communicative disorders, sociology, social work, surgery; asst./assoc./full professor, veterinary medicine/surgery; instructor/asst./assoc./full professor, microbiology (2), anesthesiology; instructor/asst./assoc. professor, business administration; clinical instructor, news-editorial (3); research assistant, obstetrics/gynecology; extension assistant/director of ALOT program, agricultural economics; postdoctoral research fellow, biological sciences; research analyst, family/community medicine; instructor/state specialist, 4-H and youth; general manager, KBIA; director, law enforcement training institute; librarian I/social science librarian; librarian II/head of biblio-

graphic control; postdoctoral fellow, Missouri Institute of Psychiatry in St. Louis; instructor, agronomy, food science/nutrition; research specialist (4); manager, development; asst. director, Museum of Art and Archaeology; assoc. director, intercollegiate athletics; coordinator, Missouri Testing and Evaluation Service; design/power plant engineer; director, Missouri Kidney Program; safety representative; asst. supervisor, custodial services; scientific programmer/analyst I; computer programmer/analyst I; director, development fund, Hearnes Building; superintendent, agriculture, power plant. **UM:** construction project manager in St. Louis.

UMC Hospital: assoc. hospital director, nursing services; asst. hospital plant engineer; staff physical therapist; manager, warehouse operations.

UMKC: asst./assoc. professor, periodontics (2), oral radiology, fixed prosthodontics, removable prosthodontics, basic medical sciences, accountancy; visiting professor, theater; instructor/asst. professor, communication studies; research associate, Institute for Human Development; theater assistant (10); visiting research associate, physics;

lecturer, business/public administration, cell biology, meteorology, arts/sciences continuing education, psychology, Chinese, computer science, engineering; adjunct faculty, biology; clinical faculty, dentistry; director, Warkoczewski Observatory; asst./assoc./full professor, computer science, oral diagnosis/oral medicine; assoc./full professor and chair, pediatric dentistry; librarian I/clinical medical librarian; research aide, Institute for Human Development (2); research associate/instructor, basic medical sciences; research assistant, physics.

UMR: asst. professor, mechanical engineering, aerospace engineering; asst./assoc. professor, engineering mechanics; visiting assoc. professor, mechanical engineering; lecturer, art, music; asst. professor of music/band director; asst. director, student financial aid; minority engineering program coordinator.

UMSL: asst. professor, marketing, music, statistics, behavioral management (2); assoc./full/visiting professor, marketing; asst./assoc./full professor, accounting, finance, management science/information systems; computer programmer/analyst I; superintendent, building trades.

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