

OU engineering dean to lead UMR



Martin C. Jischke

Martin C. Jischke, dean of the College of Engineering at the University of Oklahoma, will become chancellor of the University of Missouri-Rolla around May 1. He succeeds Joseph M. Marchello who last summer became president of Old Dominion University in Norfolk, Va.

Jischke's appointment was announced today by UM President C. Peter Magrath at a news conference in Rolla. His selection ends a search begun last spring by representatives of UMR faculty, students, alumni and administration, the community and UM administration.

In announcing the appointment, Magrath said, "The University of Missouri is extremely fortunate to have Martin Jischke, an outstanding educator and engineer, assume the chancellorship of the Rolla campus. I believe his strong leadership will benefit this special campus of the University, its students and its

faculty. At the same time, I am convinced he can advance the University's efforts in economic development, assisting Missouri firms, large and small, whose success rests upon advances in engineering, technology, science and related disciplines."

At OU, Jischke has overall responsibility for 12 degree programs, planning, fund raising and alumni relations for the College of Engineering, which has 167 faculty and staff, 3,300 students and a total budget in excess of \$10 million.

"The Board of Curators is delighted that Dr. Martin C. Jischke has accepted the position of chancellor of the Rolla campus," said Tom K. Smith Jr., president of the UM Board of Curators. "Dr. Jischke's education and experience are ideally suited for the exciting and bright future of the University of Missouri-Rolla."

"Dr. Jischke not only has outstanding scholarly credentials, he has proved himself an able administrator highly regarded by his faculty, one who is in tune with many goals of our University," Magrath said. "Under his leadership, the College of Engineering at the University of Oklahoma has significantly strengthened alumni and private support, established more rigorous admission and retention standards, nearly doubled its research activities and initiated a major development plan."

As UMR chancellor, Jischke will be paid \$81,000 annually and will be responsible for all UMR operations.

"My family and I are certainly looking forward to joining the Rolla community and the University of Missouri family," Jischke said. "I consider this appointment to be a special honor. Rolla is distinguished by its superb student body, dedicated faculty and devoted alumni. I am convinced that in the future, UMR will play an even greater role in educating the young people of Missouri and in fostering a bright economic future for all Missourians."

Jischke, a nationally recognized professional engineer and engineering educator,

served as interim president of the University of Oklahoma from February until September 1985. During that period, state funding increased 15 percent, student enrollment increased and \$16 million in private funding was secured.

Prior to becoming dean of engineering at OU in 1981, Jischke was a professor and director of OU's School of Aerospace, Mechanical and Nuclear Engineering for four years. He was a White House Fellow and special assistant to the secretary of transportation in 1975-76 after teaching in the School of Aerospace, Mechanical and Nuclear Engineering at OU from 1968 to 1975. He received the University of Oklahoma Regents Award in 1975 for superior teaching.

He is a registered professional engineer in Oklahoma.

He was a research fellow at NASA's Moffett Field in California in the summer of 1973, a research fellow for Donald W. Douglas Laboratory in Richland, Wash., in the summer of 1971, a research engineer for Battelle Northwest Laboratory in Richland in the summer of 1970 and an engineer for RAND Corp. in Santa Monica, Calif., in the summer of 1965. He also has been a consultant to World Book Encyclopedia, U.S. Air Force, Office of the Secretary of Transportation, Transworld Drilling Corp., U.S. Aviation Insurance Group and other Oklahoma firms.

Jischke is a member of the Keystone Foundation's board of directors, the advisory committee for engineering science of the National Science Foundation Engineering Directorate, the American Association for the Advancement of Science, the American Society of Mechanical Engineers and the American Physical Society.

He is also a member of the American Society for Engineering Education, the National Society of Professional Engineers and the American Institute of Aeronautics and Astronautics.

Jischke is listed in American Men and Women of Science, Outstanding Educators of America, Who's Who in Engineering and Who's Who in the South and Southwest.

He is the author or co-author of 30 refereed research articles and 22 other publications, including technical reports.

He has received research grants from NASA, the National Severe Storms Laboratory, National Institutes of Health, U.S. Air Force, National Science Foundation and Nuclear Regulatory Commission.

He received his bachelor's degree with honors in physics from the Illinois Institute of Technology in 1963. He received an S.M. degree in 1964 and a Ph.D. in 1968, both in aeronautics and astronautics from the Massachusetts Institute of Technology.

Jischke, 44, is married to Patricia Fowler Jischke and has a son, Charles, and a daughter, Marian. He is a native of Chicago.

John T. Park, UMR vice chancellor of academic affairs, will continue to serve as interim chancellor until Jischke arrives.

Board discusses finance challenges facing University

UM faces major fiscal challenges in funding improvements outlined by its long-range plan and keeping its plant and equipment up-to-date. These challenges could be complicated by the federal deficit-reducing Gramm-Rudman legislation. Tom Hussey, interim vice president for administrative affairs, told the UM Board of Curators last week.

The 8.6 percent increase in state support for 1986 and increased income from students helped the University fund the first year of its 10-year improvement program, Hussey said, but 1986 general operating income did not increase as quickly as state and student support.

Federal spending reductions due to Gramm-Rudman could mean a loss to UM of \$2.1 million in 1986 and between \$8 million and \$12 million in 1987.

"These cuts will primarily affect agricultural experiment stations, the Cooperative Extension Service, training and service operations and student aid," he said.

"Declining federal support makes increased state support even more important. State support for the University has been strong in the last two years and appears to be strong again this year," Hussey said. But more and more of Missouri's limited state revenues are going to entitlement programs, and the percentage of state resources for higher education has declined from 18.1 percent to 15.3 percent since 1976.

"If we had maintained our 1976 percentage, the University's appropriation would have been \$40 million more this budget year. Missouri has the potential to do a better job of supporting its educational institutions. Even the current percentage of state revenue directed to higher education would produce \$20 million a year more if Missouri's tax effort were at the national average."

The University continues to face a loss of income from decreasing enrollments, which continue at a rate predicted by the Coordinating Board for Higher Education on the basis of a decreasing population of college-age Missourians.

John Park, interim chancellor of the Rolla campus, described to the curators an enrollment decline facing UMR and steps being taken to control its impact.

Keeping the University of Missouri's \$1.3 billion physical plant and its extensive inventory of scientific and technical equipment up-to-date and in good repair is another major fiscal challenge, Hussey told the curators.

"The annual maintenance investment should be about \$27 million per year," he said. "Despite receiving \$113 million for repairs and new buildings from the recent state bond issue, the University still has about \$150 million in deferred maintenance needs and could use \$62 million in new equipment."

New identification cards to be issued

Students, faculty and staff members on the University of Missouri's four campuses will soon be issued uniform identification cards as a result of action taken by the Board of Curators at its meeting last week.

Not only will the new cards provide standardized conventional identification throughout the University but when used in conjunction with computerized card readers will save money by allowing the University to improve control over access to facilities such as dining halls and streamline transactions such as check cashing, says Tom Hussey, interim vice president for administrative affairs.

The University now uses several different ID cards, and many are not compatible with automated identification systems, Hussey says. But the new cards will contain an individual's identification code in magnetic form, in addition to a photo and printed information, allowing them to be used in the conventional manner or be read by special electronic devices.

The low bid of \$398,775, from Griffin Technology of Victor, N.Y., provides for a three-year lease on card-making equipment, including cameras and magnetic stripe encoders, for each of the four campuses.

The University will lease for three years special computerized card-reading systems for the Columbia and Rolla campuses that will keep track of the services or facilities each cardholder is entitled to use as well as maintain records of such use.

Employee IDs

Each campus will develop plans for replacing current faculty/staff identification cards with the new IDs when card-making equipment is installed.

The central computer system will make it easy to update ID-related information, according to Hussey. For example, the UM-Columbia ID computer database will contain the names of those students currently enrolled, eliminating the need to apply a validation sticker to their cards. If a student drops out, his or her name will be removed.

The card-making equipment could be operational this April and the computer system and related equipment at Columbia and Rolla will probably be ready in May or June.



Mission statement reflects UMC's unique strengths

As part of the University's long-range planning process, each campus is developing a mission statement to accompany UM's mission statement, which was approved in February 1984. The UM-Columbia statement is the first of the campus mission statements to be approved by the board.

The statement:

The University of Missouri-Columbia is the original campus of the University founded in 1839. The University of Missouri-Columbia shares fully in the primary purposes of the University — the education of students and the development of new knowledge. The Columbia campus serves as a resource for the citizens of the state through its programs in teaching, research, extension and service. In addition, it participates in the national and international scholarly, scientific and economic communities.

The University of Missouri-Columbia is committed to providing high-quality undergraduate education in the arts, sciences and humanities in order to prepare students for advanced graduate and professional study and to foster self-expansion and fulfillment. As the largest and most diverse campus within the University of Missouri, the Columbia campus will continue in its role as the principal campus offering opportunities for advanced graduate study and as a major campus in offering professional degree programs. The Columbia campus has exclusive responsibility in agriculture, home economics, journalism, library and informational science and veterinary medicine and special responsibilities in other advanced professional fields such as health, law, business, engineering and education.

Among its other institutional responsibilities, the Columbia campus maintains the state's major public research library and the University Hospital. The University of Missouri-Columbia also offers a major intercollegiate athletics pro-

gram and serves as a local and regional resource for the fine arts and other cultural activities.

The University of Missouri-Columbia shares in the overall instructional mission of the University with a broad range of program offerings. The combination of diversity of offerings in a predominantly residential student environment promotes interdisciplinary study and research and enhances the cultural and intellectual development of students, faculty and staff.

The University of Missouri-Columbia shares in the commitment of the University of Missouri to research, scholarly work and creative activity. In particular, the Columbia campus is committed to addressing through basic and applied research the needs of the citizens of Missouri specifically and of society in general. Through publication and extension education, the outcomes of research and creativity are made available to persons of all ages in a variety of settings.

The University of Missouri-Columbia shares in the land-grant mission of the University and is responsible for using its educational resources to extend knowledge to the people of Missouri so as to improve the quality of their lives. It actively seeks through affirmative action to educate and employ those who are considered among minority or underrepresented populations. A special commitment to equal opportunity will be continued in the development of programs and human potential.

Group to develop South Africa plans

Former UM President C. Brice Ratchford will head a committee overseeing the University's new South Africa Educational Program. The committee will develop ways to improve education in South Africa as part of the program created in response to concerns over the University's investments in firms doing business in South Africa.

Members of the committee are Ratchford, professor of agricultural economics at UM-Columbia; Otis Jackson, assistant provost at UMC; Carl Leistner, assistant director of student development/international student programs, UMC; Henry Mitchell, associate vice chancellor for academic affairs, UMC-Kansas City; Bobby Wixson, dean of international programs and studies, UM-Rolla; and Peter Eitzkom, associate dean of the graduate school, UM-St. Louis.

Ronald Turner, special assistant to the president, will assist the committee with staff work.

"While the University cannot solve South Africa's underlying political and social problems, we can show our concern about the situation there in ways that reflect the strengths and commitments of an institution of higher education," Magrath says.

As now envisioned, the program would include student exchanges between UM and South African universities, educational and technical assistance for educational institutions there and other forms of help to be identified by the committee.

The program is in part an outgrowth of a study of UM's investment policies conducted last year by a special task force of students, faculty and administrators appoint-

ed by Magrath. In December Magrath recommended, and the curators approved, creation of the educational program as well as stronger implementation of an investment policy that supports the Sullivan Principles, a set of guidelines for reducing discrimination in the South African workplace.

The president's office will provide \$50,000 a year in non-state funds to support the program and will seek private donations to supplement those funds. The student council at UMR has already pledged \$200 to support the program.

Weldon Spring researchers schedule lectures

Artistic landscaping, censorship and John le Carre are among the topics to be presented by members of the 1985-86 Weldon Spring Humanities Seminar in an upcoming lecture series. Speakers will present the results of research they have conducted over the past year.

Stephen Archer, UM-Columbia professor of speech and dramatic art, will speak on "Actor as Metaphor: The Life and Career of Junius Brutus Booth" on the UM-Kansas City campus Feb. 24. Gregory Black, UMKC assistant professor of communication studies, visits UM-St. Louis March 13 to speak on "Censorship in Hollywood: Sex, Politics and the Production Code."

Peter Wolfe, UMSL professor of English, will discuss "The Decoding of Check Point Charlie: Fractured Discourse in John le Carre" at UMC April 18, and Stephanie Ross, UMSL associate professor of philosophy,

UMR freshman is board's student rep

Kevin Edwards, a UM-Rolla student, was introduced to the Board of Curators last week as the next student representative to the board. His appointment must be confirmed by the Missouri Senate.

Edwards succeeds Jay Felton, a UM-Columbia student, who was the first student representative to the board. State legislation creating the non-voting position requires the two-year assignment be rotated among the UM campuses.

Edwards is a freshman majoring in nuclear engineering. The 1985 graduate of

Rolla High School is attending UMR on a UM Curators Scholarship and two other scholarships. Last fall he was assistant to the director of UMR's marching band and was president of his Kappa Kappa Psi pledge class.

He won several honors in high school music, debate, math, science and computer programming competitions. He has spent the past three summers touring the United States and Canada with the Madison Scouts Drum and Bugle Corps.

Board committees

UM Board of Curators President Tom K. Smith Jr. has appointed the following board committees for 1986:

- **Academic Affairs:** Edwin S. Turner, chairman; Jeanne V. Epple and Peter H. Raven.
- **Finance:** John P. Lichtenegger, chairman; Eva Louise Frazer and Doug Russell.
- **Physical Facilities:** James S. Anderson, chairman; W.H. "Bert" Bates and Tom K. Smith Jr.
- **Executive:** Epple, chairwoman; Bates and Turner.
- **Long-Range Planning:** Bates, chairman; Russell and Smith.

Senate confirms Raven

Missouri Gov. John Ashcroft's latest appointment to the UM Board of Curators has been endorsed by the Missouri Senate.

Peter H. Raven, director of the Missouri Botanical Garden in St. Louis, has been confirmed as the successor to William G. Cocos Jr. of St. Louis.

Raven attended his first Board of Curators meeting in December.



The benefit of SPECT, or Single Photo Emission Computer Topography, scanning is seen in the readings from this monitor at the University of Missouri-Columbia Hospital and Clinics nuclear medicine facility. This scan demonstrates the distribution of technetium 99-m in an infant's kidney. The same equipment is utilized in the brain scans that use the compound developed through collaboration between UM and Amersham International.

UM researchers aid in developing new drug

By Mary Paulsell
Assistant Editor

Although the first royalty check from sales of a compound developed with the help of University researchers is not large, UM President C. Peter Magrath cited it as symbolic of the economic and human benefit that can result from a collaboration between the University and private industry.

Cooperation between UM-Columbia scientists and the British-based Amersham International has resulted in the development of a product that could revolutionize the diagnosis and treatment of a range of brain disorders, including stroke, Alzheimer's disease and epilepsy.

UM will continue to receive a portion of the revenue from the sale of the pharmaceutical, which is not yet available in the United States except in clinical trials. Food and Drug Administration approval of the compound is expected in the next two to three years.

Representatives from Amersham echo Magrath's praise of the collaborative effort that went into the drug's production. John L. Castello, chief executive, Amersham medical products, says the company's work with UMC is one of the best examples of a successful partnership between the academic community and private industry.

"We work with more than 100 universities," Castello says, "but this development took only two years from conceptualization to production. Credit must go to UMC. We have never dealt with an organization that had its act together any better."

The compound developed at UMC, propylene amine oxime, has properties that allow it to cross the "blood brain barrier," facilitating the transmission of the radioisotope technetium 99-m from the bloodstream to the brain tissue. The complex developed at Amersham, which specializes in radiochemicals and life sciences research products, permits cerebral blood flow to be monitored for up to 30 minutes, the time necessary to allow a rotating head gamma camera to build up a scanned image of a "slice" of the brain.

"This product allows us for the first

time to monitor blood brain flow," Castello says. "It is the biggest thing to come down the nuclear medicine road this decade. We anticipate that it will be the biggest single product we market. We have invested 80 percent of Amersham's research and development funding on this venture."

Richard Holmes, professor of radiology and medicine at UMC, is conducting clinical trials on two to three patients each week at UMC's Hospital and Clinics. The product is in clinical trials at about 20 other centers in the United States.

Other UMC faculty collaborating in the development of the PnAO compound are David Troutner, professor of chemistry; Wynn Volkert, professor of radiology and biochemistry; and R. Kent Murmann, professor of chemistry.

The University receives royalties based on the sale of the product or its derivatives. The royalties are 5 percent for up to \$2 million in sales; 4½ percent from \$2 million to \$4 million; and 4 percent over \$4 million.

"(This) check for \$2,612 is only the first check to come over," Castello says. "Sales in the past 30 days have surpassed sales in the first 45 days of availability. We expect that sales will be in the tens of millions of dollars."

"This has been an extremely successful relationship between a university and a private concern," says Magrath. "The royalty check we receive is not the important part. The key is that the University of Missouri has had a part in the development of a product that has both human and economic benefits."

"We are deeply committed to linkages with major companies on behalf of missions of human need and economic development. I would like to express my personal appreciation to the faculty and staff who had a part in the development of this product. It has paid off in many ways other than dollars."

David Brown, business development manager for Amersham, compliments UMC on its handling of the industrial/academic collaboration.

"The University had a quick under-

standing of the interplay that needed to take place," Brown says. "Everyone put their resources behind this effort. UMC helped give the project the momentum it needed to develop into a good working relationship. And, of course, they provided us with a good compound to work with in the first place."

UMKC receives safety award

UM-Kansas City received the University's second Safety Recognition Award last week. Board president Tom K. Smith Jr. presented a plaque to UMKC Chancellor George A. Russell during a meeting of the Board of Curators Physical Facilities Committee.

The award was established by the UM Safety and Risk Management Committee "to recognize and commend significant accomplishments in improving safety and loss prevention" at the four campuses.

UMKC was selected for the award based upon a safety committee's evaluation of campus safety. Evaluation was in several categories, including safety and risk management policy, education, accident investigation, emergency preparedness and hazard identification and elimination.

UMKC was selected unanimously after scoring highest in 10 categories. The campus also had the lowest injury incidence among the four campuses.

UM-Rolla won the first Safety Recognition Award, which was presented in October 1984.

Emeritus titles granted

Emeritus titles approved by the Board of Curators at its February meeting:

George Salisbury, UM-Kansas City associate professor emeritus of music, effective Dec. 1, 1985.

Homer C. Folks, UM-Columbia professor emeritus of agronomy, effective Sept. 1, 1985.

In tribute

It is sadly ironic that the Challenger mission, an event with the highest potential to concentrate the focus of public attention on the teaching profession's contribution to society, should be transformed, in an explosive instant, into an event that symbolizes in a tragically dramatic way the courage and sacrifice that are typical of our best teachers.

Christa McAuliffe paid the ultimate price for her commitment to excellence in teaching, and the cost will be felt by her family, her students, her friends, her community and the citizens of America in very personal and immediate ways.

In the minds of many, the title "teacher" will take on a new and higher value, and the word "teacher" will now mean something that it never meant before. Because of the life and sacrifice of Christa McAuliffe, all teachers will seem more precious; and teachers will gain, at great cost, a status that ranks their capacity to serve and to sacrifice with the status that we as a nation have traditionally reserved for our military heroes, statesmen and explorers.

She will be remembered not because she was an astronaut, but because she was a teacher who represented her professional commitment and her dedication to teaching in ways that captured the admiration of those who became aware of who she was — one of the many classroom teachers of our land who sacrifice year after year with little or no recognition in pursuit of a profession of inestimable national value.

Teachers have traditionally paid a dear price for the decision to pursue a lifetime of teaching. Now, teachers will be strengthened by the knowledge that one of their colleagues has secured for the entire profession this nation's respect and admiration as she symbolized the quiet courage and the spirit of enthusiastic participation that teachers bring to the life and to the very future of this country. Through the life and sacrifice of Christa McAuliffe, teachers have now joined the pantheon of public servants who inspire our dreams and reflect, in uniquely profound ways, our national honor. The scale of this tribute is magnified in an unusually powerful way for Christa McAuliffe, the classroom teacher — not because she was one of a kind, but precisely because she was one of many.

Ron Turner,
Special Assistant to the President,
University of Missouri

UM personnel offices move

UM personnel departments have moved from Lewis Hall to the Elm Street Building at 201 S. Seventh St. in Columbia as part of the consolidation of UM and UM-Columbia personnel departments.

Some phone numbers have changed. The phone numbers for each of the departments are:

UM Human Resource Development — (314) 882-4859

UM Personnel Information Systems — (314) 882-3320

UM Salary and Wage Administration — (314) 882-3006

UM Employee Benefits — (314) 882-2146 (general information and claim forms)

The employee benefits staff will be available all day, including lunch hours, to provide information and assistance.

UM signs contract for research park development



Artist's rendering of Missouri Research Park

Legislative highlights

Several bills that have been introduced during the 83rd General Assembly may be of interest to the University community. Summaries of the proposed legislation were provided by the office of the assistant to the president for governmental relations.

- **TAX CREDITS FOR CERTAIN ECONOMIC DEVELOPMENT ACTIVITIES** (Senate) would provide credits for any taxpayer contributing money to qualified non-profit organizations, to research and development innovation centers or to the Missouri Corporation for Science and Technology. The tax credit would be equal to 20 percent of the contribution and would be taken the year the contribution was made or within 10 years.

- **CERTAIN PROCEDURES TO BE FOLLOWED BY PUBLIC SCHOOL EMPLOYERS FOR THEIR EMPLOYEES IN ESTABLISHING POLICIES AND PRACTICES** (Senate) would establish the Public School Employment Relations Act granting the right of collective bargaining to public school employees in local school districts, special school districts, state colleges and universities and junior colleges. College and university deans, presidents and supervisors, elementary and secondary superintendents and students working part time as public employees are excluded from the provisions of the bill, although the bill covers principals and graduate teaching assistants.

- **CONTRACTING FOR EDUCATIONAL PROGRAMS OR SERVICES** (Senate) and **EDUCATION-APPROPRIATIONS** (House) would allow an independent college or university to contract with the Coordinating Board for Higher Education to provide professional or graduate programs or research services for the citizens and state of Missouri. The General Assembly must demonstrate to the CBHE that the program or service fulfills a need not available at a state-supported institution.

- **ADDITIONAL POWERS TO CURATORS OF THE UNIVERSITY OF MISSOURI** (Senate) would allow the University of Missouri Board of Curators to establish research, development and office park projects to promote cooperation between the University and businesses; would allow curators to cooperate with businesses to offer opportunities to students, faculty and graduates and to provide to the University the resources and allocations needed for the project. In addition, the curators may enter into lease arrangements or may purchase land and arrange for construction of facilities necessary for projects, authority which includes the power of eminent domain. Lands acquired by the University in this manner will not be subject to local zoning or regulatory ordinances.

- **STATE ASSISTANCE FOR APPROVED FAMILY PRACTICE RESIDENCY PROGRAMS** (Senate) would require

that family practice graduate education programs be approved by either an allopathic or osteopathic accrediting group and that the American Osteopathic Association approve any general rotating internship program leading to general professional practice; would remove the \$300,000 limit on annual appropriations for the residency program and the \$20,000 limit on administrative expenses.

- **COLLEGES AND UNIVERSITIES-HAZING** (House) would provide for a civil course of action for the victim of hazing against the participants in the hazing and the officers of the fraternity, college or university; would establish a Class C misdemeanor for hazing and a Class D felony if death or permanent injury results.

The following administrative/professional and academic vacancies were listed with *Spectrum* as of Feb. 7. Anyone interested in a position should contact the appropriate department or personnel office.

UMC: director, Black Studies Program; asst. professor, obstetrics/gynecology, agronomy (2), biochemistry, dairy science, recreation/park administration, gastroenterology, practical arts/voc. ed., psychiatry, surgery, housing/interior design (2), human nutrition/foods/food systems management (3), pharmacology, curriculum/instruction (2), educational/counseling psychology, art education; asst./assoc./full professor, industrial engineering; asst./assoc. professor, agricultural engineering, cardiology, radiology, information science, family economics/management, veterinary pathology, health/physical education, surgery, veterinary medicine/surgery, clinical psychology; research associate, engineering experiment station, microbiology (3); assoc. professor, family/community medicine, pharmacology; asst. professor/counseling psychologist, educational and counseling psychology (2); educational specialist, educational resources group; clinical instructor, family/community medicine; research analyst, family/community medicine; instructor/director of computer program training, TODCOMP; asst. instructor, child/family development; clinical instructor/clinical asst. professor, family/community medicine; instructor/asst./assoc. professor, business administration, nursing (5); clinical asst. professor, medicine; state legal specialist/lecturer, political science; librarian I/asst. acquisitions librarian; librarian I/general reference librarian; librarian I/information services librarian; postdoctoral fellow, agronomy, civil engineering; research assistant, family/community medicine, obstetrics/gynecology; professor/chairman, psychology; asst. coach, gymnastics; director, development fund; energy management engineer (2); student services adviser, residential life; supervisor, science stores; financial aid adviser; food technologist; staff nurse; sr. research specialist; research specialist (3); assoc. director, admissions; administrative associate I; career planning/placement adviser, TODCOMP; information specialist; computer programmer/analyst II. **UM:** coordinator, financial systems education/analysis; supervisor, printing bindery/finishing operations; sr. computer programmer analyst; asst. director, facilities management; assoc. director, state historical society; reference specialist, state historical society.

The Board of Curators has approved a contract with Trammell Crow Co. to develop and manage a 246-acre research and development park in the St. Louis area.

The Missouri Research Park, located on University-owned land adjacent to Highway 40-61 north of the Missouri River, is expected to attract private firms involved in research and development activities in a variety of fields, including agribusiness, computers, robotics, medicine, chemistry and engineering.

Details of the contract provide for University payment of a \$15,000 monthly fee for 24 months plus 6 percent of the fair market value of each piece of land to be leased in the park.

The University will own the property on which the Missouri Research Park is located and will issue long-term leases to tenants. Trammell Crow Co. will develop and manage the project.

Sites within the park will be available for leasing in early 1987. When fully leased in 10 to 12 years, the project is expected to be worth \$250 million and employ 4,000 to 5,000 people.

Infrastructure and development costs will be \$14.14 million. The first phase, development of 105 acres, will cost \$4.5 million and will begin this summer. Phase two, the development of the remaining 141 acres, will cost \$9.64 million. Initial funding is coming from both the University of Missouri and the state's Department of Economic Development. The state appropriated \$2 million for the project this fiscal year.

"The Missouri Research Park will provide an important linkage between higher education and the civic and corporate leader-

ship in the state of Missouri," says UM President C. Peter Magrath. "Our goal will be to work together, utilizing today's high-caliber academic resources to develop tomorrow's technology."

Research is the nutrient from which high-technology firms develop and on which they thrive, Magrath says. "Universities enable technologies to be constantly refreshed and updated."

The project will draw from academic research strengths of several area universities, including Washington University, St. Louis University and all UM campuses.

"The Missouri Research Park is a joint venture between the state, higher education and the private sector," said Gov. John Ashcroft, who announced details of the project at a news conference in St. Louis. "It will offer private industry an academic, research-oriented environment in which to locate research and development facilities.

"Because of the special care and concern that goes into developing a successful R&D park, no one will feel it has failed if it takes 10 to 12 years to complete," Ashcroft said. "However, this is such an exceptionally good piece of real estate, don't be surprised if we beat that timetable.

"It is noteworthy that the states which have experienced dynamic and vigorous employment growth during recent decades have successfully brought higher education into the development process," Ashcroft said. "An important goal for the Missouri Research Park will be to reinforce the state's economic development mission while enhancing the climate for quality higher education in the state. This project will accomplish both."

Jobs

sr. accountant.

UMR: asst. professor, math; asst./assoc. professor, physics, chemistry, math; assoc. professor/sr. research investigator, mining engineering/rock mechanics; instructor/coach, physical education/recreation; teaching associate, computer science; postdoctoral fellow, materials research (metallurgy); asst. director, admissions.

UMSL: asst. professor, organic chemistry, social work, marketing, statistics, music, behavioral management (2); assoc./full/visiting professor, marketing; asst./assoc. professor, computer science; asst./assoc./full professor, accounting, finance, management science/information systems; asst. professor/director of theater, speech communications; asst. professor/director of debate-forensics, speech communications; contact lens resident, optometry; office system specialist II.

UMC Hospital: asst. administrator, data processing.

UMKC: grader, business/public administration; asst./assoc. professor, health services administration, periodontics, oral radiology, fixed prosthodontics, removable prosthodontics, marketing, operations management or management information systems, accountancy; visiting professor, theater; adjunct faculty, biology; asst. professor, applied developmental psychology, community/clinical psychology; instructor/asst. professor, communication studies; instructor, dentistry dean's office; research associate, Institute for Human Development; theater assistant (10); dean, pharmacy; visiting research associate, physics; lecturer, chemistry, basic life sciences, business, history, meteorology, arts/sciences continuing education, psychology, Chinese, computer science, engineering; clinical faculty, dentistry; research assistant, chemistry, physics; asst./assoc./full professor, computer science; computer programmer I; continuing education coordinator; docent team assistant;

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