

UM System employees should file a change of address form (UMUW Form 282) with their personnel office.

University of Missouri System SPECTRUM

Vol. 19 No. 3

June 1992

Curators consider new admissions standards

At its May 8 meeting at UM-Rolla, the University of Missouri System Board of Curators discussed raising admissions standards by increasing requirements in mathematics, science and foreign languages for incoming freshmen.

In response to the recommendation of UM System President George Russell, the board delayed voting on the proposal until June, to allow campus faculty groups more time to review its provisions.

If passed, the new standards would increase the University's high school academic requirements for admission by one unit each in mathematics, science and social studies. A two-unit foreign language requirement would be added. The new requirements would be phased in through 1997.

By fall of 1997, when the changes would be complete, regular admission of first-time college students to the UM System would require completion of at least 17 units of high school credit (one unit equals one year in class) as follows:

—Four units of English, one of which may be speech or debate. Two units emphasizing composition or writing skills are required. (This is not a change.)

—Four units of mathematics in Algebra I or higher-level courses. The requirement will be implemented in fall 1997.

—Three units of science (not including General Science), one of which must be a laboratory course. The three science units must include at least two of the following areas: physical science,

biology, physics, chemistry and earth sciences. The requirement will be implemented in fall 1995.

—Three units of social studies. The requirement will be implemented in fall 1994.

—One unit of fine arts, to be taken in visual arts, music, dance or theater. The requirement will be implemented in fall 1996.

—Two units of a single foreign language. The requirement for the first unit will be implemented in fall 1994. The requirement for the second unit will be implemented in fall 1996.

The new requirements were developed by a University-wide committee on freshmen admission standards. The recommendations were reviewed and endorsed by the University of Missouri Intercampus Faculty Council and

Dr. Robert E. Bartman, commissioner of Higher Education.

In other action at the May 8 curators meeting, UM System President George Russell said he soon will appoint a panel to study medical education in the UM System.

Russell said the last study of UM's medical schools was completed in the 1960's. "If we are successful in getting the five or six people we want on our study team, we may be able to better plan for medical education in Missouri and make the best use of our resources," he said. Members of the panel were not named.

The president also indicated that veterinary medicine will be the subject of a similar study in the future.

Russell appoints task force to study extension

University of Missouri System President George A. Russell has appointed a 10-member task force to review University Extension and make recommendations to him about its structure and operations.

"University Extension is one of the large and visible organizations of the University reporting to the University central administration," Russell said. "Extension is responsible for a number of programs which serve citizens throughout the state, and I would like to make certain we are serving those who need University Extension in the most effective and efficient manner possible."

Chairing the task force is Charles Kruse, former UM System curator and director of the Missouri Department of Agriculture and currently chief executive officer of North American Equipment Dealers Association.

Other task force members: Sen. Sidney Johnson of Gower; Rep. Chris Kelly of Columbia; John Lichtenegger, president of the UM System Board of Curators; Rob Logan, chairman of the UM-Columbia Faculty Council; Don Lucettia, farmer from Lamar; Kay Roberts of Columbia, chairwoman of the President's Advisory Council for University Extension; Bea Smith, dean of the UM-Columbia College of Human Environmental Sciences; Rep. Phil Tate, D-Gallatin; Blanche Touhill, UM-St. Louis chancellor; and Paul

Wilson, a farmer from Shelbyville, also a President's Advisory Council member.

Russell has asked the task force to address three major questions:

—What services should University Extension provide for the citizens of Missouri?

—How should University Extension be structured to provide the best quality of extension education and service to aid users in the most effective and timely manner?

—How can services provided by extension be the most efficient from a dollar and time standpoint?

No date has been set for the committee's final report.

Russell said the review of extension is in concert with the process of reviewing all University programs. The purpose of the reviews is to ensure that programs are consistent with the University's mission, that administrative responsibility is appropriately placed so that each program will be responsive to those it is designed to serve, and that each program is structured and budgeted within the funding realities of the University.

University Extension is the educational outreach of all UM System campuses. Extension specialists are headquartered in 112 of Missouri's 114 counties to help citizens apply scientific knowledge to everyday problems.

UM-Rolla grad helps rescue Intelsat

Three UM grads are mission specialists in NASA's space shuttle program

That was UM-Rolla graduate Tom Akers suspended in space May 14, taking part in a historic three-man spacewalk that rescued the communications satellite Intelsat.

Akers earned a bachelor's degree in applied mathematics in 1973 and a master's degree in applied mathematics in 1975. A major in the U.S. Air Force, he was selected as an astronaut candidate by NASA in 1987. In October 1990, Akers completed his first mission aboard the space shuttle Discovery.

"No doubt the fact that I got my education at UMR helped me get to NASA," Akers said. "A degree from UMR is looked upon with respect."

Intelsat will provide telephone and television communications for the Olympics in July.

After rescuing the satellite, Akers and Astronaut Kathryn Thornton took a fourth spacewalk, a shuttle record.

Two UM-Columbia alumni also are mission specialists with the space shuttle program. Dick Richards, B.A. '69, piloted the space shuttle Colum-



Tom Akers

bia in August 1989. Linda Godwin, who earned master's and doctorate degrees at UM-Columbia, was a member of the space shuttle Atlantis crew that orbited the Earth in April 1991.

Other NASA connections: the research of UM-St. Louis physics professor Richard Schwartz was chosen for viewing time on the Hubble telescope; and UM-Kansas City graduate Jerome Verba, B.A. '74, is executive director of security for NASA in Washington.

In This Issue

2 Eleanor Schwartz is UMKC's new chancellor

3 Faculty win teaching and research awards

4 UM program aids minority businesses

Eleanor Schwartz becomes chancellor at UMKC

University of Missouri System President George A. Russell May 15 appointed Eleanor Brantley Schwartz permanent chancellor of UM-Kansas City.

"After more than a decade of working closely with Dr. Schwartz as a dean, vice chancellor and interim chancellor, I have come to recognize that she has the intellectual toughness and the fine interpersonal skills to do the job," said Russell, who served as UMKC chancellor from 1977 to 1991, when he became president of the UM System. "Following a nine-month nationwide search for a chancellor, Dr. Schwartz was the overwhelming choice of the faculty, the deans, the support staff and the students." Schwartz came to UMKC in



Eleanor Brantley Schwartz

1980 as dean of the Henry W. Bloch School of Business and Public Administration.

She became interim vice chancellor for academic affairs in 1986 and was formally appointed vice chancellor in 1987. She was named interim chancellor in August 1991, after Russell was named president-designate of the four-campus UM System.

Schwartz earned her undergraduate and graduate degrees at Georgia State University. She obtained her doctorate in business administration in 1969.

The appointment was effective immediately.

In the UM-Columbia chancellor search process, UM System President George Russell has said he expects the search committee to have a recommendation within 60 days.

Collins confirmed to serve on Board of Curators

David Collins, a Macon lawyer, has been confirmed by the Missouri Senate to serve on the University of Missouri System Board of Curators. Collins will complete the term of Andy Runge, who died in November 1991.

Collins, 66, was born in Eldon. He served in Germany in

the U.S. Army Infantry in World War II. He earned a bachelor's degree from the University of Missouri-Columbia in 1949, and a juris doctor degree from the UM-Columbia School of Law in 1951. He has practiced law in Macon continually since 1951, engaging in general practice with emphasis on trial work.

In 1988 Collins received the Distinguished Alumni Award from the Alumni Association of the University of Missouri-Columbia School of Law. In 1976 he was a nominee to the Missouri Supreme Court.

Collins will complete a term that expires Jan. 1, 1995.

Engineering firm moves to Missouri Research Park

Novus International Inc., a leading producer of animal feed supplements, has signed a lease on four acres at the Missouri Research Park.

Novus International is a joint venture between Mitsui & Co. and Nippon Soda & Co. It was formed to continue research, production and marketing of farm-animal feed supplements that originally were developed and then divested by Monsanto Co. At full capacity, Novus expects to employ between 30 and 40 scientists and technicians in its laboratories at the research park, and the firm has taken an option on an additional four acres at the park in anticipation of future growth.

Novus, which last year moved into new corporate offices in Maryville Centre, currently has approximately \$200 million in annual sales. Through its aggressive efforts to develop and market new products for the animal production industry, Novus expects to grow to \$1 billion in sales by the year 2000.

"Novus' location in the Missouri Research Park is excellent news and one more good example that the park is fulfilling its mission of attracting major research and development facilities," said Ned Taddeucci, president of the St. Louis Regional Commerce and Growth Association. "Novus

designed by the St. Louis architectural firm of Stone, Marraccini & Patterson. The construction manager on the project is John Holborow of Construction Options, Inc.

The Missouri Research Park is owned and managed by the University of Missouri System. The

park is on 750 acres at the intersection of routes 40 and 94 in St. Charles County. The research park is also home to the Regional Forecasting Center of the National Weather Service, the Advanced Technology Group of MG Industries Inc., and the carbon-

fiber division of Zoltek Corp.

"Novus helps agribusiness not only through its production of feed additives, but also through the technical service and industry research it provides," said UM System President George A. Russell. "We're proud to welcome the firm to the Missouri Research Park and to a partnership that promotes economic development through research."



A drawing of the new Novus International building

represents a significant investment in St. Louis and has tremendous growth potential. These are the kinds of companies we need to attract and maintain in the region."

Early this summer, Novus will begin construction of its 30,000-square-foot research and development center. The facility, which will contain state-of-the-art biological laboratories, is being

Computing costs decrease 75 percent

The UM System Department of Information Technology has announced that the fiscal year 1993 prices for Central Computing Facility (CCF) services will reflect another major decrease effective July 1.

The decrease is possible because of significant savings in the cost of providing computing and communication resources, and continued increases in the volume of services provided. Decreases in costs for major services for FY 93 range from 15 to 25 percent.

Since FY 88, the increase in services provided has been significant.

In 1988, CCF provided 8,000 hours of services to UM System central processing units (CPU) compared to 25,000 CPU hours in 1990. In FY 92 it is projected 32,000 CPU hours will be provided.

Costs for these services decreased as use increased. The average job rates for FY 90 were 45 percent less than FY 88. During this fiscal year, costs are 66 percent less than in FY 88. During FY 93 it is estimated average job rates will be almost 75 percent cheaper than in FY 88.

These significant price reductions over an extended period of time have permitted the application of information technology to help channel critical University resources to instruction and research, while reducing administrative and support costs.

The Central Computing Facility supports major University administrative departments including Financial Systems, Human Resource Systems, Student Support Systems and Library Catalog and circulation systems. CCF also provides a general purpose large main-frame facility for use by departments throughout the UM System for their own applications.

Because of substantially discounted prices to academic users when the CCF has available resources, research computing is the largest single consumer at about 59 percent of total capacity.

CCF gives several causes for the decrease in costs:

- general price/performance improvements in computing equipment and software;
- acquiring and maintaining a technological level of hardware and software appropriate to CCF users' needs;
- aggressive competitive procurement procedures;
- the dedication of talented technicians, operators and support staff, and the cooperation and the support of the CCF user community.

UM System honors professors for teaching and research

The University of Missouri System recently honored a trio of professors for outstanding accomplishments in the classroom and laboratory.

Glenn H. Eberhart, professor of pharmacology and associate dean of the School of Pharmacy at UM-Kansas City, received the



Glenn H. Eberhart

Presidential Award for Outstanding Teaching.

Eberhart received his doctorate from the University of California Medical Center, San Francisco, in 1966. After post-doctoral training in psychopharmacology at the University of Minnesota, he joined the faculty of UMKC in 1968 as an assistant professor. Since 1989 he has been professor of pharmacology in the schools of medicine and pharmacology, and associate dean of the School of Pharmacy.

"Professor Eberhart has not only been a mainstay for students in the School of Pharmacy for 24 years, he has brought pharmacology to life for hundreds of medical, dentistry and nursing students at UMKC, while introducing innovations such as the clinical pharmacology program," Russell said.

Eberhart also was instrumental in the creation of UMKC's innovative six-year medical school, serving as assistant dean and chairman of the Council on Evaluation for the School of Medicine from 1978 to 1986. He has received the AMOCO Distinguished Teaching Award twice and the Outstanding Professor Award (chosen by students) five times. In addition, Eberhart has presented drug and alcohol abuse prevention programs at local schools and has long been a 4-H leader.

The Presidential Award for Outstanding Teaching carries a \$15,000 stipend. It is awarded to a faculty member who has served at least 10 years on a UM System campus.

H. Carl Gerhardt, professor of biological sciences at UM-Columbia, received the Presidential Award for Research and Creativity.

Gerhardt received his doctorate in zoology from the University of Texas, Austin, in 1970 and spent a year as a research associ-

ate in neurobiology and behavior at Cornell. He joined the UMC faculty in 1971 and was named associate professor of biological sciences in 1977. He became a full professor in 1981.

"Carl Gerhardt is recognized by his colleagues as an outstanding scientist who has quietly put together one of the most solid and strongest research programs in the field of animal behavior," Russell said. "At mid-career, Carl has the promise to be a truly great scientist."

The primary goal of Gerhardt's research is to understand how animal communication systems work and how they evolved. To this end, he has extensively studied tree frogs, which have the same basic neural elements as higher animals, including *Homo sapiens*.

Gerhardt's work is recognized nationally and internationally. He is among a select group of researchers who have received a five-year career-development award from the National Institutes of Health, and his research is currently being supported by a five-year Research Science Devel-



H. Carl Gerhardt

opment Award from the National Institutes of Mental Health. His work has been funded by the National Science Foundation since 1973. He has published 46 articles in refereed journals, 27 of those in the past 10 years. His papers have been cited nearly 700 times since 1974, and the number of citations per year has been rising, indicating his growing stature. Gerhardt is on the editorial boards of, or a reviewer for, more than two dozen professional journals. He also attracts and works closely with outstanding master's, doctoral and post-doctoral students.

The award, which carries a stipend of \$15,000, recognizes a faculty member for a sustained record of nationally and internationally recognized research or creativity. One candidate for the award is nominated by the chancellor at each UM System campus.

Mark R. Ryan, associate professor in the Fisheries and Wildlife Program of the School of Natural Resources at UM-Columbia, received the Burlington Northern Foundation Faculty Achievement Award.

Ryan, a two-time winner of the School of Natural Resources Student Council's Outstanding Faculty Award, received his doctorate in animal ecology from Iowa State University in 1982. He came to UM-Columbia after two years on the faculty of North Dakota State University.

"Throughout his eight years on the faculty, professor Ryan has endeavored to incorporate the latest information in his courses as well as to refine his teaching methods, introducing a number of innovations in the classroom and the field," Russell said. "Ryan's students respond enthusiastically to his approach, which puts an emphasis on critical thinking, written and oral presentations, and active participation in the learning process, rather than note-taking and memorization."

In addition to teaching undergraduate courses in ornithology, wildlife management and a graduate course in endangered species management, Ryan mentors students in readings, honors and independent studies. Although Ryan directs wildlife graduate studies, he also serves as faculty advisor to more than a dozen undergraduate students.

Ryan also continues to generate new knowledge. He has published at least two refereed articles each year, and he and his students have won numerous research awards. He has received more than \$600,000 in research grants. Ryan is active in professional societies and a member of the U.S. Endangered Species Recovery Team.

The award, which carries a \$2,500 stipend, was established to recognize outstanding college and university teaching. It is made possible through a grant by the Burlington Northern Foundation, which represents the Burlington Northern Railroad Co. Each University of Missouri System campus nominates one candidate for the award.

"These individuals exemplify



Mark R. Ryan

the highest ideals of a great teaching and research institution such as ours," said UM System President George A. Russell. "They were selected from among dozens of extremely well-qualified nominees on our four campuses."

Caruso named chief information officer

A longtime IBM executive has been named chief information officer by University of Missouri System President George A. Russell. Ralph Caruso, 52, will direct the University's mainframe computing operations.

"I'm very excited about the assignment, and I'm looking forward to working with others and doing all I can for computing services at the University of Missouri," said Caruso. His appointment became effective June 1.

President Russell has called for a study of the campus and hospital computing systems at the University of Missouri-Columbia and in the UM System headquarters to determine whether their three mainframe computers in Columbia should be consolidated and run by an independent firm, or whether an independent firm should be hired to provide computing resources. Caruso's initial assignment will be to prepare a plan to deliver mainframe computing services most effectively and efficiently.

Names of the committee members, representing administrative and faculty users on the four UM System campuses, will be announced when all have accepted their appointments, Russell said.

"Mr. Caruso's management expertise and his knowledge of the field I am confident will lead to long-term benefits for the University and its supporters," Russell said. "We are very fortunate to have attracted a professional of his caliber to address this most important issue."

Caruso has worked for IBM since 1966. In 1985, he became assistant general manager for Saudi Business Machines in Jidda, Saudi Arabia. He returned to the United States in 1987, when he was named network program manager for IBM's Systems Integration Division in Gaithersburg, Md.

In 1988, he was named manager of general and public sector solution development, a marketing and services group that deals with the needs of health, transportation, utilities and other public sector industries.

Caruso received bachelor's and master's degrees in commercial science from Benjamin Franklin University of Washington, D.C., in 1961.

He also is a graduate of the IBM Advanced Management School and the IBM Executive Program of the Wharton School of Business.

UM System administration honors staff for outstanding service

University of Missouri System President George Russell joined other members of University administration May 13 to celebrate the UM System Annual Staff Recognition Day. Staff who have completed 25 years of service were honored, 1991 retirees were recognized, and special awards were given to clerical, support and professional staff who were nominated for their outstanding service to the University.

Recognized for 25 years of service to the University were

Sherry Kilgore, Michael Martin, James Ollar and David Williams.

The Service and Support Staff Recognition Award was presented to **Vivian Mason**, an administrative assistant in University Extension. **Patricia Leistner**, the administrative associate for both Sinclair Farm and the Environmental Trace Substance Research Center, received the Administrative and Professional Staff Recognition Award. The President's Award was made to **Phillip Hoskins**, counsel in the Office of the General Counsel.



Dr. James McGill and Vivian Mason



Dr. Richard Wallace and Patricia Leistner



University Extension County Clerical Awards also were presented at the May 13 Staff Recognition Day. Pictured from left are: **Janettie Johnson**, secretary of the Wright County Extension Council; **Kathleen Dickerson**, secretary of the Scotland County UE Council; **Dr. Larry Hale**; **Teresa Meier**, part-time secretary with the Cape Girardeau County Extension Service; and **Judy Elling**, office manager of the Lafayette County Extension Center.



Pres. George Russell and Phillip Hoskins

UM System takes the lead in aiding minority firms

Minority entrepreneurs interested in doing business with state agencies and public colleges and universities joined dozens of representatives of such organizations last month for the Missouri Higher Educational Institutions/Government Minority Business Procurement and Contracting Symposium.

Jointly sponsored by the UM System, the Governor's Commission on Minority Business Development and the State of Missouri, the event, now in its fourth year, attracted more than 110 persons to Columbia.

The symposium featured sessions on identifying business opportunities and working with public agencies and an address by Alvin Plummer, executive director of the Missouri Commission on Human Rights. The symposium was organized by the UM System's Business Services office.

"The University is not just talking about the benefits of doing business with disadvantaged firms, it is leading the way," said Dr. Betty Roberts, Director of Business Services, part of the Division of Management Services. The division's strategic objectives include increasing contract awards to disadvantaged firms and making the University a leader in this field.

The effort is succeeding. According to a report to the Legislature by the Governor's Commission on Minority Business Development, last year the University did more business with disadvantaged firms than all other Missouri public colleges and universities combined, Roberts

points out.

The University seized the initiative in this area in 1989 when C. Peter Magrath, then the University's president, issued guidelines to increase minority business participation throughout the University.

Although there were obstacles to overcome, and some remain (the University often buys in quantities that exceed small minority firms' capacity, for example), the effort is paying off.

During the most recent reporting period minority or women-owned firms received 2.3 percent of the University's procurement dollars, nearly double what they received just two years ago.

The numbers are even more impressive in design and major construction. In 1990 the University awarded just 0.75 percent of its contracts to such enterprises. In 1991 the figure rose to nearly 13 percent.

University Extension also aids minority entrepreneurs. Last year UE's Small Business Development Centers assisted more than 400 members of minority groups who were interested in starting or improving small businesses.

The University has been successful in directing more business to minority firms without abandoning its low-bid policy, lowering its standards or using quotas.

"At a time when the University is making some of the hardest choices in its 153-year history, we must continue to get the most value for the taxpayers' dollar. Minority firms help us do that," Roberts said.

Thanks to a minority firm, UM-St. Louis was able to reduce the cost of janitorial supplies by two percent.

Last year the UM System awarded a minority firm a million-dollar contract for computers because its price was \$113,000 below the next-lowest bid.

Savings also occurred in design and construction. Disadvantaged firms helped build UM-Columbia's new alumni center. Disadvantaged firms have won most of several University construction or renovation contracts, such as the bookstore addition at UM-Kansas City.

In large part the University's success in this area can be traced to initiatives by the UM System Business Services office, coupled with support from the campuses. The office encourages members of the University family to consider minority firms and it encourages such firms to do business with the University.

Thanks to a recently created computerized directory, the office helps minority suppliers. Available on UMINFO, the database allows employees on each campus to scan a list of minority or women-owned firms that have expressed an interest in doing business with the University.

The database makes the information readily available to everyone, not just purchasing agents and buyers. That is important because many purchasing decisions, especially for items costing \$1,000 or less, are made at the department level.

The business office also employs a coordinator, Pat Weekley, who works one-on-one with

minority and women-owned firms to encourage them to do business with the University.

"The University is such a large organization, some minority firms don't know how to approach it, so they don't bid. I help them understand what is involved and what the University's needs are, which benefits both parties," Weekley said, adding that such firms tend to be weak on marketing themselves and on building business relationships.

This year's symposium provided minority entrepreneurs an opportunity to meet face-to-face with representatives from state agencies (such as the highway department and the lottery) and from public colleges and universities.

"Minority vendors not only learned more about how to work with large agencies, they made personal contacts they wouldn't have otherwise," Weekley said.

SPECTRUM

is published eight times a year for University of Missouri System faculty, staff and retirees by UM System University Relations, 828 Lewis Hall, Columbia, Mo. 65211, in cooperation with the UM-Columbia, -Kansas City, -Rolla and -St. Louis information offices.

Editor:
Martha Brendel
314-882-0607
Circulation:
314-882-4591



recycled paper

