

## Main, branch libraries install terminals

# UM libraries create computerized card catalog

A computerized library card catalog, capable of offering more than standard card catalogs, will be operational in most main and branch libraries throughout the University by the end of February.

The computerized system will also soon allow faculty, staff and students who have terminals or personal computers hard wired into the University computer network to consult library card catalogs from their offices or dorms. Eventually, anyone with a home computer will be able to dial in to use card catalogs.

The system, which will tie together card catalogs of library holdings on all UM campuses, will be implemented in three stages. The University will be in the first stage when computer terminals have been installed in the libraries for use by library patrons.

"The amount of library borrowing has already increased throughout the University as the first terminals have been installed," says James F. Corey, director of the UMca

Library Systems Office, which developed the on-line project after more than five years of planning.

UM-Rolla, which has been testing the system, has had computer terminals in its library for more than a year. That campus will soon move into the second phase, enabling faculty and students with computer terminals compatible with the campus' computer network to see the library's card catalog information on their own terminals elsewhere on campus.

The third phase of the project will be remote access from dial-up terminals. Library patrons with home computers will be able to access the card catalog information by telephone.

If Rolla's experience is any indication, the computerized system will be well received throughout the University system, Corey says. Faculty and staff at UMR are eager to enter the first remote access stage.

About 2,000 computers are already hooked into the computer network throughout the University system.

The software for making card catalog information accessible by computer improves upon what card catalogs can offer in their standard form. On a computer, a user can search for materials with minimal information. If a faculty member knows only two words of a book title, for example, the computer can search the bibliographic files for all possible works.

"The computer system will not only replace the card catalog," Corey says, "but goes beyond the card catalog in terms of its capabilities."

A computerized card catalog will also allow for easier, faster updating — easier for the library staff, which in turn will provide up-to-date information to the library user faster.

The system could save money, too, by reducing or eliminating duplication of library materials. Faster access to interlibrary loan among the campuses should eliminate the need for all campuses to have on hand expensive holdings that could be easily shared.

Nicknamed by library officials "LUMIN," the acronym for its official name, Libraries of the University of Missouri Information Network, the electronic card catalog has potential for even greater things. Once the computer card catalog is as complete as the standard catalog, the program will be modified so that users will be able to determine the status of a library item and check it out, in effect combining the card catalog and circulation department functions.

The catalog records for all UMR library books have been entered into the computer system, but the other campuses have only gone back about 20 years to input bibliographic material on books. Until all material is available through computer access, the standard card catalogs will be maintained.

When microfiche backups of card catalog information are prepared, the libraries will stop updating or adding to the old card catalogs.

By the end of February, Corey estimates, all main libraries and branch libraries throughout the University will have at least one computer terminal for library users. The only exception is the Kansas City campus, where some library branches will not install terminals until the rewiring for the new telecommunications system has been completed.

Some branch libraries will need only one terminal. Bigger libraries will install several, depending on demand for the system. Ellis Library at UMC is installing 16 terminals to begin with, but there are contingency plans for installing up to 30, Corey says.

"The more quickly we move into the remote access stages, the fewer terminals we'll need in the libraries."

Each campus will determine when it is ready for the second stage, depending on how quickly library users adapt to searching on computer terminals in the library. Instructions are on each computer to guide users through their search, but Corey urges faculty, staff and students to consult library staff as they learn the system.

"As terminals are put out for public use, the reference librarians will be trained and available to help. The staff is expecting to serve that role, and they're eager to help faculty, staff and students use the computers."

Cooperative extension personnel will be able to use the system when it enters the remote access phases, and the state library may eventually be part of the system, Corey says.

LUMIN is available from 8 a.m. to 10 p.m. Monday through Friday, 1 to 5 p.m. Saturday and 2 to 10 p.m. Sunday. The hours will be extended when the Fall 1985 semester begins. The University's goal is to have the system available during all hours of library operation.

## New governor proposes 7% appropriations increase

Gov. John Ashcroft has recommended the state increase its appropriation to the University of Missouri for operations by 7 percent, an increase UM President C. Peter Magrath calls disappointing.

Ashcroft's recommendation that UM receive \$199 million for general operations "is far below the \$228 million requested by the Board of Curators, a figure that the board correctly characterized as conservative," Magrath says.

"I appreciate the governor's recommendation that the appropriation for the University of Missouri be increased for 1985-86. I am disappointed, however, in the small amount of the increase recommended." UM, which receives about two-thirds of its operating

funds from the state, received \$186 million for general operating expenses this year.

"The University affects the lives of millions of Missourians through its teaching, research, extension and public service programs," Magrath says. "The long-range goals for improving the University — which will directly benefit all Missourians — require a greater investment from the state. The University will therefore work to obtain full funding of the curators' request."

House and Senate recommendations will be the next step in the appropriation process, followed by a joint legislative appropriation and the governor's approval of the appropriation.

1985-86 Operations Appropriation

	UM request	CBHE recommendation	Governor's recommendation
General operations	\$228,687,590	\$222,529,785	\$199,256,798**
percentage increase*	22.8%	19.5%	7%
Higher Education	1,000,000	1,000,000	890,000
Research Fund	12.4%	12.4%	0%
Hospital and Clinics	18,717,868	18,717,868	14,558,154
	32.3%	32.3%	6%
Missouri Institute of Psychiatry	2,168,274	2,106,142	2,094,273
	8.7%	5.6%	5%
Missouri Kidney Program	3,870,547	3,898,848	3,896,965
	6.1%	6.9%	6.9%
State Historical Society	564,888	525,391	495,728
	19%	10.7%	4.5%

\*increases based on 1984-85 state appropriations

\*\*The governor based his recommendation on 88 percent of the CBHE recommendation, minus funding for the Food for the 21st Century program, veterinary medicine and computer sciences. He then added 100% of the University's request and the CBHE's recommendation for the Food for the 21st Century (\$550,000), veterinary medicine, (\$971,000) and computer sciences (a one-time investment of \$3,058,000)

(Note: Funding for the Missouri Fire and Rescue Training Institute, previously a separate appropriation, is included in the CBHE and governor's recommendations for general operations at an unspecified amount.)

## An invitation

President C. Peter Magrath and Diane Magrath invite friends and colleagues of Mel and Meta George to a farewell reception for the Georges Friday, Feb. 22, at Providence Point, 1900 S. Providence Road, in Columbia.

Guests from the Columbia, Kansas City, Rolla and St. Louis campuses are invited to attend between 4 and 5 p.m.

Guests from central administration and cooperative extension are asked to attend between 5 and 6 p.m.

# Magrath asks House for funds for UM's future

The following are excerpts from UM President C. Peter Magrath's testimony presented Monday at the House of Representatives Appropriations Committee's hearing on 1985-86 appropriations.

I am delighted to be here for my first official appearance before the General Assembly as president of the University of Missouri. As one of our state's newest Missourians, I am profoundly impressed by this state, its people, its accomplishments — and, even more, its potential for growth and progress tied to economic and educational development.

Very simply, there must be a close linkage between the University of Missouri, as a great public research and land-grant university, and the citizens of this state, not for the benefit of the University of Missouri but for the benefit of our state's citizens. It's for that reason that I stand here, representing the University of Missouri and its curators, seeking a prudent but significant increase in the state's investment in higher education and, particularly, in the University of Missouri.

I would be remiss not to point out the excruciatingly painful and far-reaching effects of the pattern of state support for the University of Missouri in the 1980s. Let me say directly that I understand the reasons for this situation. However, our task now is to move forward with appropriations at higher levels.

In plain language, the University of Missouri has been forced through a fiscal wringer during the last five years. Between

fiscal 1980 and fiscal 1985, the University has sustained a real dollar loss of \$21,447,164 in state support. During this five-year period, the University has been forced to reallocate \$36.25 million. That is to say, in order to meet the ravages of inflation and state withholding, we have redirected funds and efforts through priority setting and tough decisions to offset serious financial problems. The redirection of funds, alone, constitutes 16.4 percent of our general operating funds, or 24.1 percent of the University's state appropriations.

Through the actions of a deeply concerned Board of Curators, a long-range planning process was instituted in 1982 to respond to the acute and wrenching effects of inflation and withholdings.

It is this framework of economic reality during the past five years and the projection of the board for the next decade that require a new vision for the University of Missouri.

It is a vision that sees the best possible instruction provided by outstanding instructors in well-equipped facilities and laboratories.

It is a vision that sees the best and brightest of the generation of Missourians who will lead this state into the 21st century with access to educational opportunities to help them realize their fullest potential as citizens and as successful farmers, business people, physicians, engineers, attorneys, bankers, teachers, writers, doers, builders and thinkers.

It is a vision that finds Missourians proud and supportive of this unique state resource.

It is a vision of economic impact growing out of research efforts similar to the example of the hybrid corn research in the UMC College of Agriculture. An investment of \$390,000 over a 20-year period in the 1940s and 50s has resulted in an annual increase in corn production in this state equal to \$2 million per year.

Other clear examples of the University's impact on the quality of life for Missourians abound.

We obviously need your help. The appropriation being requested for 1985-86 by the Board of Curators is some \$42 million more than this year's, but it is conservative, I feel, considering the task ahead.

Studies show that each dollar invested in veterinary diagnostic laboratory services

returns \$11 in increased agricultural productivity. Veterinary medicine accreditation studies show our shortcomings in Missouri. We are asking \$971,000 to add faculty and improve support for the College of Veterinary Medicine in Columbia.

A land-grant university has an obligation to look ahead — to ask which problems our farms and industries will face 10-20 years in the future. We need now to begin the kinds of research which will be needed then. The University of Missouri-Columbia's Food for the 21st Century program is an example of such an effort designed to help insure an ample supply of quality food at reasonable prices. The Food for the 21st Century program seeks \$550,000 to continue this work which is just getting started.

The University of Missouri-Kansas City is one of the largest trainers of health care professionals in the region. The health care field is changing rapidly and more funds are needed if UMKC is to keep pace. We request \$1,357,333 to improve student/faculty ratios and to strengthen the biological sciences which form the base of our medical and dental programs.

If we expect industries to invest in Missouri and trigger economic growth in high technology and other new fields, Missouri must increase investments in its research centers. This need is addressed in our request for \$875,000 for improved graduate research at UMR in science and technology.

Economic recovery and development in Missouri requires a critical mass of educated and skilled personnel and a long-term commitment to applied research. To strengthen areas which will supplement economic recovery, 12 distinguished professorships are needed. We will raise \$250,000 in private funds to aid in these efforts. We are also working with St. Louis area schools to im-

prove the education of young Missourians, and we are strengthening UMSL offerings in international marketing and productivity management. We request \$1,478,000 for these purposes related to economic development.

The micro-electronic revolution of the past five years has introduced new technologies essential to University efforts in medicine, dentistry, agriculture and practically all areas of work. For a research university engaged in state-of-the-art development in numerous fields, it therefore becomes essential that modern and more powerful tools be made available for the instruction of students and for use by faculty and staff. \$11,499,563 is needed for the purchase of modern equipment.

The CBHE recommendation of \$222.5 million is less than the \$228.6 million requested by the curators and even with this higher level the University would still have to reallocate more than \$2.5 million to meet its anticipated needs.

Let me express our appreciation for the Higher Education Research Fund. This program is picking up steam. Firms are becoming aware of the quality of work that can be accomplished with University resources. Since the program began two years ago, research projects selected by a review committee have been awarded \$800,000 in state funds and have attracted nearly \$1.8 million from private sources. More projects have been approved and researchers are developing the matching private support.

Let me also stress the value of the Missouri Student Grant Program which is assisting many Missourians who otherwise would be unable to attend the University. This program deserves expansion on behalf of all the citizens of Missouri who are served through public and private institutions.

## Contacts named for Apple discount purchase program

Campus project coordinators have been identified for the volume purchase discount program the University has developed in cooperation with Apple Computer Inc.

The discount program is the latest in the University's efforts to procure computer discounts for employees and students and joins other discount programs available.

Once the campuses and UMca complete plans for administering the UM-Apple agreement, campus coordinators will be able to provide details. Plans for the program, which will give University faculty, staff and students 20 to 30 percent discounts on the purchase of Apple's Macintosh and Lisa microcomputers, should be completed in about a month.

The campus coordinators are:

UMC — Bill Mitchell, director of computing services, 882-7686

UMKC — Paul Haigh, manager of the UMKC bookstore, 276-1401

UMR — Dave Dearth, director of the computer center, 341-4841

UMSL — Larry Westermeyer, director of computing and telecommunications, 553-6000

UMC Hospital and Clinics — Dan Branson, computer center, 882-3773

UMca — Leland Counce, director of computing services, 882-7001

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## UMca names new computing director

Charles R. Shomper, director of the West Virginia Network for Educational Telecomputing, will become director of UM computing and information technology Feb. 1.

Shomper will oversee computer operations that serve both academic and administrative functions throughout the four-campus system and in central administration. CIT has responsibilities for the central computer

network, administrative services, health science computing and management systems.

In his current position, Shomper directs the computer network serving students, faculty and administrators throughout West Virginia's public higher education system. In the 1970s, he directed a regional computer network administered by the University of Iowa Computer Center in Iowa City.

## Jobs

The following administrative/professional and academic vacancies were listed with *Spectrum* as of Jan. 25. Anyone interested in a position should contact the appropriate department or personnel office.

**UMC:** professor, veterinary pathology medical diagnostic lab; asst. professor, sociology, child health (3), statistics, human nutrition/foods/food systems management, family/community medicine, thoracic surgery, chemistry, management, music, economics, entomology, Russian, psychology; asst./assoc./full professor, industrial engineering, mechanical/aerospace engineering, clinical psychology (2); asst./assoc. professor, medicine, nuclear engineering, social work (2), child health, physics/astronomy, veterinary medicine/surgery, curriculum/instruction, electrical/computer engineering; assoc./full professor, curriculum/instruction; instructor/asst./assoc./full professor, anesthesiology; asst./assoc. professor and state extension specialist, agronomy; asst. instructor, child/family development, broadcasting; asst./assoc. professor, education/coordinator, continuing professional education; research associate, atmospheric science; librarian I or II/medical

cataloger; librarian I or II/social science; librarian I or II/health sciences collection management; clinical instructor, thoracic surgery; resident veterinarian, veterinary medicine/surgery (2); intern, veterinary medicine/surgery (2); professor and chair, veterinary pathology; assoc. professor, education/director, Mo. Testing and Evaluation Service; manager, energy engineering, technical services, bookstore; computer programmer/analyst II (3); industrial hygienist; computer programmer/analyst I (2); principal programmer analyst; information specialist; administrative associate I (3); administrative associate II; coordinator, advertising/promotions. **UMca:** manuscript specialist, Western Historical Manuscript Collection (2); coordinator, student loan collections; construction project manager.

**UMC Hospital:** administrative nurse II; clinical nurse I (2); education nurse I; manager, audiology/communication disorders, ambulatory surgery, physical therapy; sr. information specialist; social worker; asst. manager, food service; assoc. administrator, ambulatory care/university physicians; learning skills specialist; sr. systems programmer; supervisor, warehouse operations.

**UMKC:** grader, business/public administration; research assistant, chemistry (2), biology; asst./assoc. professor, removable prosthodontics, accountancy; visiting professor, theater; adjunct faculty, biology; instructor/asst. professor, speech communication; research associate, Institute for Human Development; laboratory assistant, chemistry; theater assistant (10); lecturer, chemistry, computer science, engineering; choral director, Conservatory of Music; music history teacher, Conservatory of Music; asst./assoc. professor/director of bands, Conservatory of Music; asst./assoc./full professor, computer science; computer operator, dentistry; intern, education; executive staff assistant I; director, alumni/constituent relations.

**UMR:** professor, electrical engineering; sr. buyer; technical editor.

**UMSL:** asst. professor, education, biology, anthropology; asst./assoc. professor, computer science (2); visiting asst. professor, political science; asst./assoc./full professor, optometry; asst./assoc. dean of continuing education, business, arts/sciences; coordinator, scheduling; academic adviser; asst. director, personnel services; computer programmer/analyst I.