

Policy guides 'fair use' photocopying

Interim President Mel George has issued an executive guideline outlining the University's policy regarding photocopying materials for teaching and research.

The guideline outlines procedures for photocopying copyrighted materials as a right granted under the copyright law's doctrine of "fair use."

Categories of materials that have no copying restrictions are writings that have never been copyrighted and were published before 1978, published works with expired copyrights (dated before 1906) and U.S. government publications.

"Faculty and staff may reproduce copyrighted works for instructional and research purposes without securing permission and without paying royalties when the circumstances amount to what the law calls 'fair use,'" the guideline says.

Generally, faculty members may copy materials to fill in missing information or to bring materials up-to-date, for example, but "there is lively dispute as to the extent of permissible copying, particularly for classroom use."

Some guidelines to follow:

- For teaching (including preparation) and for scholarly research, single copies may be made of a book chapter; an article from a journal, periodical or newspaper; a short

story, essay or poem; or a diagram or picture in any of those works.

- For one-time distribution in class to students, multiple copies may be made if there is no more than one copy for each student; if notice of copyright is included; if poetry, prose and illustrations are selectively and sparingly chosen; and if no charge is made to the student beyond the actual cost of photocopying. (The right to make multiple copies is strengthened if the copying will not significantly affect the potential market for the work or if there is insufficient time to seek permission from the copyright owner.)

At a faculty member's request, a library may place on reserve excerpts from copyrighted works. The library will follow guidelines established for formal classroom distribution. However, requests for multiple copies placed on reserve should meet the following guidelines:

- The amount of materials should be reasonable in relation to the total amount of material assigned for one term of a course, taking into account the nature of the course, its subject matter and level.

- The number of copies should be reasonable in light of the number of students enrolled, the difficulty and timing of assignments and the number of other courses assigning the same material. (A reasonable

number of copies is usually less than six, but such factors as the length or difficulty of the assignment, the number of enrolled students and the length of time allowed for completing the assignment may permit more in unusual circumstances. Permission of the publisher should be sought if a faculty member is in doubt.)

- The materials should contain a notice of copyright.

- The effect of photocopying the material should not be detrimental to the market for the work.

Permission should be obtained if faculty members repetitively copy materials, copy for profit, copy unpublished works, copy consumable works (works intended for classroom activities, such as workbooks, exercises and standardized tests) or create anthologies or texts by photocopying.

Request for permission should be sent to the permissions department of the publisher of a work. The Copyright Clearance Center also has the right to grant permission and collect fees for photocopying rights for some publications. Libraries may copy from a work registered with the CCC, then report any copying beyond fair use and pay set fees to the CCC.

Faculty members seeking permission from the owner of copyright should submit the following information: title, author and/or editor, and edition of materials to be duplicated; exact material to be used, including the amount, page numbers, chapters and, if possible, a photocopy of the material; number of copies to be made; use to be made of duplicated materials; form of distribution; whether the material is to be sold; and type of duplication.

Requests for photocopies through interlibrary loan must also conform to the copyright law.

George suggests sharpening focus of extension effort

UM interim President Mel George praised members of the Missouri Cooperative Extension Service field staff for their continued efforts in helping the people of Missouri, but he also cautioned that future program efforts will require a sharper focus.

George addressed more than 400 area and state specialists attending the opening general session of the annual extension in-service education conference held in Columbia.

"I believe that in the years ahead, extension must have a sharper focus on its program efforts," George said. "We can't be all things to all people. We shouldn't be, even if our finances allowed it. Instead, we should focus on things that extension, and only extension, can do well."

"So, I agree with Shaila Aery that greater focus is needed, but I certainly do not agree that an organizational change that would deprive extension of its base of the entire University and Lincoln and would move it to a lower level in the administrative structure is in any way desirable."

George was referring to proposals made by Aery, state commissioner of higher education, to the Missouri Coordinating Board for Higher Education. Among Aery's proposals is a recommendation for sharpening the focus of cooperative extension program efforts. She also recommends relocating cooperative extension's administration from UM's central administration to the UM-Columbia College of Agriculture.

In calling for a sharper program focus, George said extension's strength lies in its service as the cutting edge for new approaches to solving problems.

"I continue to believe that once extension gets a good thing started, it should willingly let others take over," George said. "Never forget that we are educators, innovators. If we have a good idea and someone else wants to take it over, fine. That's not competition, it only shows how good a job we did of educating people about the benefits of a particular approach."

George praised local governments in Missouri for their solid record of increased support for extension over the past several years.

"Indeed, the rate of increase in local funding during that time has kept pace with, or been greater than, increases in state and federal funding. But the counties must do more," he said. He noted that Missouri currently ranks 10th among the 11 states in the north central region in terms of local government support for extension.

"I realize that every state is unique, with different laws, different local government financing, different traditions. But I think it is urgent for Missouri extension to expand its local resource base over the next five to 10 years," George said.

Governor appoints board's first student representative

A high school and university honor student interested in providing the UM system Board of Curators with consistent student input has been appointed by Missouri Gov. Christopher Bond as the first student representative to the board in the University's 145-year history.

John "Jay" Felton, a political science student at UM-Columbia, will participate in his first board meeting next week, but his appointment must be confirmed by the Missouri Senate when the General Assembly convenes in January. If the appointment is confirmed, Felton will serve until Jan. 1, 1986. Subsequent student representatives will serve two-year terms, with appointments made in rotation among the four campuses, according to the legislation passed by the General Assembly last session.

The student representative will not be able to vote and will not be able to attend all meetings, including meetings related to personnel matters.

While a high school student in Maryville, Felton was governor of Missouri Boys State, student council president, National Honor Society president and a varsity athlete. He was also a youth ambassador to Australia and a finalist in state extemporaneous speaking competition.

At UMC, he is a member of Beta Theta Pi fraternity, treasurer of the arts and science student government, justice on the Interfraternity Council Judicial Board, member of the Alumni Association Student Board and a member of QEBH honor society. The pre-law student has received several scholarships.



John "Jay" Felton

He has worked as a laborer on his family's farm, as a data terminal operator, as a member of an engineering survey crew and as a law clerk.

"I recognize that the board has worked well in the past," Felton says. "I want to have a positive impact by adding a consistent forum for student input in all aspects of board activity."

"Missouri education is at a crossroads. It's an exciting time for education," he adds. "The University is efficient, but now we need to do our best to get more money for it."

George to testify on Aery report

Interim President Mel George will speak to a Coordinating Board for Higher Education committee next week about proposed recommendations for changing Missouri's public higher education. The recommendations were outlined in a report by Shaila Aery, state commissioner for higher education.

The CBHE's Committee on Academic Affairs is receiving public comment on the institutional purposes section of Aery's report, which also includes recommendations resulting from statewide program reviews of agriculture, computer science and education disciplines in all state universities and colleges.

The CBHE meeting begins at 1 p.m. Oct. 25 in the St. Louis County Library, 1640 S. Lindbergh Blvd., St. Louis.

Other opportunities for public comment are Nov. 27 in Springfield and Dec. 6 in Kansas City.

Board approves contracts for construction projects

Contracts for three construction projects have been approved by the UM system Board of Curators. The contracts were approved at special meetings of the board's Physical Facilities Committee and Executive Committee.

Contracts authorized by the curators were for the first phase of construction on an addition to Ellis Library on the Columbia campus, construction of a new lobby and concourse at the UMC Hospital and Clinics and an addition to Providence Point, the University's reception house and president's residence, also in Columbia.

The board approved a contract with Rajac Construction and Development Corp. of Jefferson City to begin the Ellis Library addition. The company's bid of \$1,949,193 was the lowest of 10 received.

The project will include a two-story addition on the south side of the library, between Hiitt and Ninth streets.

This first phase of the library addition is being funded by \$2 million appropriated by the state last session and \$1.6 million in campus funds. In addition to construction costs, the \$3.6 million project budget estimates \$434,011 for architect fees, \$189,959 for inspection/administrative costs, \$35,000 for equipment, \$596,837 for additional construction and \$400,000 for contingencies.

The construction is expected to take about 10 months. A state appropriation of

\$2.55 million is being sought to complete the first phase of the library addition.

The board also approved contracts with six firms for work on a \$6.4 million lobby and concourse for the UMC Hospital and Clinics. Contracts to lowest bidders meeting specifications on this portion of the \$19 million hospital improvement program totaled \$1,331,008.

The lobby and concourse will join the main hospital building to clinic buildings on the east and to a parking garage now under construction.

Contracts were approved with Crawford Construction Co. of Columbia, \$143,000 for structural reinforcement of the hospital building; Acme Structural Inc. of Springfield, \$523,642 for metal materials; Paul Watkins of Columbia, \$137,770 for roofing and sheet metal work; Technical Products Inc. of St. Louis, \$220,756 for aluminum and glass work; Braun Co. of Jefferson City, \$186,840 for exterior stud wall system and fireproofing; and Burnett Plumbing and Heating Inc. of Columbia, \$119,000 for plumbing and sewer work.

A contract for maintenance work, renovations and construction of an addition to Providence Point was also approved. Reinhardt Construction Co. of Centralia submitted the lowest bid, \$185,970. The addition is to be completed by Jan. 1, 1985.

The work is part of a \$400,000 program

approved by the Board of Curators in September. It will be financed by private funds given to the University for the maintenance and improvement of the house. The donor requested that the funds be used for the house, which was completed in 1971 and is visited by about 2,500 guests annually.

The project is a 1,700-square-foot two-story addition to the south wing of Providence Point, plus other maintenance and renovation work. The addition will have a bedroom, sun room and dressing area on the upper level and an office, storage areas and a sauna on the lower level. In addition, the contract calls for re-roofing the entire house; renovating storage and staff working areas; remodeling a bedroom for use as a family room and an attic area for use as a child's playroom; providing electric heating, ventilating and air conditioning for the addition and playroom; and doing site improvement work.

The improvement program budget provided by the architectural firm of McCoy Hutchison Stone of Kansas City estimates \$230,000 for construction costs (\$135,000 for building construction and \$95,000 for site improvements that include a swimming pool); \$31,000 for architect and engineering fees; \$100,000 for equipment, furniture and furnishings; \$22,000 for project contingencies; and \$17,000 for inspection and administrative costs.

Extension honors two specialists

Two UM Extension area specialists, James Perry and Marion Gentry, have won top awards at recognition ceremonies honoring Missouri Cooperative Extension Service staff.

Perry, community development specialist in the 10-county Lakes Country area, received the Vice President's Award for Outstanding Extension Program Achievement from Mel George, interim president. Gentry, agronomy specialist in the eight-county Mid-Missouri area, received the Carl N. Scheneman Award for Excellence in Teaching. It was presented by Leonard Douglas, director of Missouri Cooperative Extension Service.

Both specialists were selected for the honors by a faculty/staff committee that reviewed nominations from Lincoln University, the four UM campuses and the field staff.

"Jim Perry exemplifies the philosophy and function of extension community development," says Glenn Weaver, UM-Columbia professor of community development. "His program efforts provide educational services to all segments of community life."

Gentry was nominated specifically for his role in developing and coordinating the five-year Mid-Missouri area soybean study.

UM researcher develops improved brain imager

A faster, more versatile system to probe the brain's interior is being developed by the University of Missouri and a Wisconsin medical equipment maker.

The device, which will facilitate diagnosis and treatment of many conditions by revealing blood flow inside the brain, should cost less than current X-ray, CAT and magnetic resonance imagers, making it practical for smaller hospitals.

The key to the speed, and simplicity, of the Missouri University Multi-Plane Imager is a hollow cylinder machined from a crystal of sodium iodide. This single crystal detects gamma rays emitted by radiopharmaceuticals that enter the brain. A computer converts signals picked up from the crystal to a set of four two-dimensional images.

In contrast, other gamma ray tomographic imaging devices require from a dozen to more than 150 separate crystal detectors, or they use mechanical systems to rotate one or two detectors to different positions, says K. William Logan, associate professor of radiology at the UM-Columbia School of Medicine, who devised the single-crystal approach.

"With multiple crystals, each detector must have its own associated electronics, which is expensive, and each detector must be carefully adjusted, which is time-consuming," Logan says.

"And current designs using one or two crystals that are moved around the head are mechanically complex. The many moving parts are costly to manufacture and maintain properly, and such systems aren't well-suited for brain imaging. But our machine is, and needs just one moving part," he says.

Although mechanically and electronically simpler than comparable devices, the new machine is expected to offer better performance.

"We will be able to generate four images in the time it takes conventional nuclear medicine cameras to make one or two," Logan says. "And, our machine will give eight contiguous tomographic images so as to include the entire brain, instead of one to three separate images, as do several current machines."

Such capabilities could offer significant

advantages, researchers believe. More complete imaging will give a better picture of functional conditions inside the brain, making diagnosis easier as well as aiding in the evaluation of treatment. And, a complete set of images should be very useful in early diagnosis of disease or injury associated with altered brain blood flow, which often precedes tissue damage or change.

The MUMPI's relatively fast multi-imaging ability should facilitate determining the flow patterns of diffusible radiotracers injected into the blood. Such substances remain in the brain only briefly. To completely understand the movement of the blood, researchers using slower imagers must repeat tests, focusing on different areas of the brain each time and combining the results to get a complete picture.

With the new MUMPI scanner, which

will be commercially marketed by CMS, a Wisconsin firm sponsoring the research, one test would suffice in many instances to reveal the flow of such substances through the entire brain.

The MUMPI system's relatively short "exposure time" will also diminish image blur, caused by inadvertent movement of the patient's head, reducing the need to repeat the procedure to get a clear picture. This would not only save money, it could save valuable time in diagnosing accident victims.

"While it is too early to know the price for a commercial model of the imager, the relative simplicity of the machine, and the fact that it takes advantage of proven technologies, bodes well for a competitive figure," says Tom Collins, associate vice president for academic affairs, who oversees patent matters.

Jobs

The following administrative/professional and academic vacancies were listed with *Spectrum* as of Oct. 12. Anyone interested in a position should contact the appropriate department or personnel office.

UMC: professor, agriculture/veterinary medicine, physics/astronomy; asst. professor, surgery, speech/dramatic art, biochemistry, organic chemistry, child health (4), industrial education, horticulture, statistics; asst./assoc./full professor, industrial engineering (2), clinical psychology (2); asst./assoc. professor, physics/astronomy, agriculture, child health, curriculum/instruction, clothing/textiles, electrical and computer engineering; instructor, educational/counseling psychology (2), veterinary medicine/surgery, broadcast journalism; assoc./full professor, biochemistry, law; librarian I/general reference-documents; instructor/asst. professor, veterinary anatomy/physiology (3); asst. professor/news director, broadcasting; research asst. professor, veterinary pathology; manager, energy engineering, power plant engineering project; sr. accountant; research specialist; sr. research specialist; environmental chemist;

asst. vice chancellor, student services/director, student development; industrial hygienist; asst. director, development, residential life; assoc. archivist; director, development fund, **UMca:** information support specialist.

UMC Hospital: administrative nurse II; clinical nurse I; nurse anesthetist; education nurse I; social worker; sr. systems programmer; computer project manager; vocational evaluator; assoc. administrator, ambulatory care/university physicians.

UMKC: grader, business and 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, institutional research, academic affairs; laboratory assistant, chemistry; theater assistant (10); asst./assoc./full professor, computer science; computer operator, dentistry; assoc./full professor, medicine; research analyst, medicine; lecturer, chemistry; intern, education; coach, golf; instructor, intramural/campus recreation aerobics; administrative associate III.

UMR: teaching associate, electrical engineering; scientific programmer/analyst; safety and risk management representative.

UMSL: asst. professor, education; computer programmer/analyst I; counseling psychologist; chief broadcast engineer; office systems specialist I; office systems specialist II.

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Editor: Bonita Eaton
Ph. 882-4591

