

Curators approve UMC energy study, UMR construction projects

At its Nov. 21 meeting the UM system Board of Curators approved the hiring of William Tao and Associates, a St. Louis engineering firm, to conduct an energy management study on the Columbia campus.

The firm is being asked to conduct the study at a cost not to exceed \$167,500. The project includes evaluation of energy usage in existing buildings, an analysis of the UMC power plant, a projection of costs under present conditions, and recommendations to achieve the most efficient use of energy.

The firm's recommendations will be accompanied by cost estimates and timetables for implementation, according to Rex Dillow, UMC director of facilities management.

The St. Louis firm was one of 13 bidders on the project. Completion of the study is expected to take six months.

In other action, the board awarded a \$237,290 construction contract for

renovating Rayl Cafeteria and the Kelly Hall dormitory on the Rolla campus.

This is the first in a series of projects designed to remodel and upgrade the dormitory complex. Kelly Hall was constructed in 1950, and Rayl Cafeteria was built in 1958.

Rajac Construction Co. of Iberia submitted the lowest of six bids received for the work.

In order that there be a minimum of disruption, most of the work will not start until the spring term ends in May. The project is expected to be completed before the fall semester begins.

The renovation is being financed from UMR housing system funds.

The board also approved a resolution providing for the publication of a public sale notice of \$4.9 million in revenue bonds.

This action grants the UM administration the authority to advertise for sealed bids for the sale of revenue bonds to finance an addition to the Thomas Jefferson Dormitory at UMR.

Unique course on heavy metal pollution attracts international participants

Chemists and government agency representatives from several rapidly industrializing nations have just completed a unique two-week course on environmental analysis for toxic metals, conducted at UM's Environmental Trace Substances Center at Sinclair Farm near Columbia.

Malnutrition and birth defects are serious problems in some developing countries, where industries often operate without any government-imposed environmental standards, says Tom Clevenger, acting director of the center. Toxic metals such as mercury, lead, cadmium and arsenic are discharged into the air, into water supplies and onto open ground.

Environmental quality directors and scientists from Indonesia, the Philippines, Jordan, Nicaragua, Greenland, New Zealand and Canada spent the two weeks from Oct. 19-31 studying techniques of sampling, laboratory analysis and evaluation of metals toxic to human health.

The group visited a lead mine and smelter in the world's largest lead producing district, near Salem, Mo. There participants collected water, soil and air samples which they later analyzed at the trace substances center in Columbia.

Those whose responsibilities are mainly tied to program development and administration also visited regional headquarters of the Environmental Protection Agency in Kansas City as well as various state agencies in Jefferson City.

Dr. Clevenger says he knows of no other course in the U.S. specifically on heavy metal pollution that is designed for international participation. The U.S.

Department of State Agency for International Development encouraged development of the course.

"Our goal is humanitarian," says Dr. Clevenger. "We want to deepen the awareness of developing nations about the dangers to their environment, and help teach their scientists how to use the sophisticated analysis equipment their governments are acquiring."

Mohamed Hussein Dajani, environmental health director in the ministry of health in Jordan, said his country "must adapt, but not adopt" the control systems used in the United States. "The course has introduced me to written materials and research, monitoring systems and the importance of solid data." Jordan has experienced a "rush of industrialization in the last five years" that mandates more comprehensive environmental controls, he said.

R. Sutamihardja, program manager for water quality studies at Bongor Agricultural University in Indonesia, hopes his government will enact environmental laws this year. Since 1965 billions of dollars in foreign investment capital has poured into his country, now seventh in the world in oil production and second in tin.

Course director was Robert G. Wixson, UMR professor of environmental health and an internationally acclaimed expert in the areas of heavy metals research, water pollution control, toxic waste disposal and field sampling techniques.

Dr. Wixson is director of the Center of International Programs and Studies, which co-sponsored the course with the Environmental Trace Substances Center.

Updated academic plan reviews changes in programs, other UM priorities

UM's revised Academic Plan was approved by the Board of Curators at its Nov. 21 meeting.

The revised plan, based on reports developed by each of the four UM campuses, suggests ways of implementing the original planning document. It also suggests revisions in the listings of new programs which may be developed.

The original academic plan, approved in 1974, covered the years 1975-85 and contained separate documents on degree programs, research and extension.

That plan identified the general missions of the campuses and authorized development of specified new degree programs, as well as of projected research and extension activities.

"The revision is an integrated report of actions taken to implement all three documents," UM President James C. Olson said, "and it includes a revision of the programs which the campuses are authorized to plan in the 1980-85 period."

Of the earlier 10-year projections specified in the 1974 documents, the revised plan says, "The majority of the provisions of the plan have already been implemented, even though the University is only halfway through the period covered by the plan. In some cases, funds have prohibited adding programs as rapidly as campuses would have wished; in other instances, changes not part of the plan have been made necessary because of unanticipated circumstances since 1974."

In describing the status of items discussed in footnotes to the 1974 plan, the revised document emphasizes these developments:

- The Columbia and Rolla campus engineering programs have striven to "become complementary rather than competitive," by making progress toward defining their respective roles and in working with UM's two urban campuses to develop cooperative programs.

- New agreements have been worked out among the three campuses offering education degrees (UMC, UMKC and UMSL) to avoid duplication in off-campus programs, particularly in the urban areas.

- The chemistry departments of all four campuses have jointly planned some purchases of major equipment, have moved graduate students between campuses to take advantage of research opportunities, and have conducted joint seminars.

According to the research portion of the revised plan, considerable progress has been made in financial support, creative effort and productivity. The plan says that although grants-and-contract funding has risen during the past five years, the rate of increase was not sufficient to compensate for inflation or to finance new undertakings.

The revised plan also says that since the original extension portion of the plan was developed, several outside reviews have been conducted which reaffirm that "extension and continuing education remain viable and needed functions of the University."

The report also notes that some minor modifications in extension programs and extension organization have been made "so that the University can more effectively respond to the projected increasing demands of the 1980s."

People interested in further information on the revised plan can soon obtain copies of the document through the chancellors' offices.

UMKC computer science program okayed

Plans to establish a computer science program at UMKC were approved Nov. 21 by the UM system Board of Curators.

The program, which would offer B.S. and M.S. degrees in computer science, has been designed to meet a community demand and is a response to needs generated by changing technology, according to Eugene P. Trani, UMKC vice chancellor for academic affairs. He said the program would be the only one of its kind in the Kansas City area.

The interdisciplinary program

would allow students to pursue a computer science degree by enrolling in any one of three divisions—arts and sciences, education or administration—with special emphasis (through elective credit) on areas within the respective divisions.

Academically, the program would be housed in the School of Graduate Studies. Courses would be offered primarily during late afternoon and evening hours to accommodate Kansas City's working population.

UMKC plans to begin offering the program next fall, Dr. Trani said.

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Notices

It was incorrectly reported in the Nov. 6 issue of *Spectrum* that the Missouri General Assembly, during its recent special session, passed a concurrent resolution calling for the establishment of a Missouri Fire and Rescue Institute at the University of Missouri.

While the House of Representatives did pass a resolution asking UM to consider setting up such an institute, the Senate did not act on the measure. Thus the resolution failed to pass the assembly.

UMSL's new telephone system is in place, and phone books containing the new listings are available in limited quantities from the campus information offices.

As a result of recent additions in services and function, the name of the University printing facility—Technical Education Services—has been changed to University Printing Services.

For details on the total services available for University printing jobs, contact a customer service representative at 882-7801.

The originally scheduled June 18-19 meeting of the Board of Curators next spring in St. Louis has been changed to June 25-26. The complete 1981 schedule of curators' meetings will be listed in the Dec. 11 issue of *Spectrum*.

Responses to the various recommendations by external review teams studying UM's extension programs last year are published in a supplement section of *Exclaimer*, the Cooperative Extension Service newspaper.

Directors of UM's six extension program categories—agriculture, business-industry-labor, community development, home economics, continuing education and 4-H youth—provided status reports on what the University has done in response to suggestions made by the outside groups.

The newspaper is distributed primarily to members of Missouri's county extension councils and other interested groups. Copies of the supplement are available at UMca University Relations, 400 Lewis Hall, Columbia, or by calling 314/882-4591.



The J.B. Reynolds Foundation of Kansas City has given \$105,000 to the Health Sciences Library fund at UMC.

The money, to be given over three years, is the largest single contribution to the drive from a foundation. More than half the \$2.7 million goal has been realized.

The J.B. Reynolds Foundation, established 20 years ago, supports a variety of endeavors in the Kansas City region. Mr. Reynolds was president of the Kansas City Life Insurance Co. from 1903 to 1937.

The former UMKC law school building, at 51st and Rockhill, will be named the Carolyn Benton Cockefair Hall of the Humanities. The decision was approved at the Nov. 21 meeting of the UM Board of Curators.

The newly-named hall will house the English, history and philosophy departments as well as the computer science programs.

Following extensive renovations this winter, the hall will be officially dedicated.

Student tour guides from the UMC Office of Visitor and Guest Relations are now available to escort visitors, faculty, staff or students on half-hour tours beginning at 1:45 p.m. weekdays and 10 a.m. Saturdays at the Memorial Union information desk.

Tours include the Francis Quadrangle Historic District and other points of interest.

Arrangements for groups of more than 10 or special tours can be made at the guest relations office, 103 Swallow Hall, or by calling 882-6333.

People

UM President **James C. Olson** has been named to the advisory council representing North America, and to the executive committee, of the

newly-chartered Inter-American Organization for Higher Education.

The organization is a non-governmental one established to promote exchanges of information about health practices, essential scientific technologies and, to some extent, the cultures of the Americas themselves.

Dr. Olson's participation in the organization signals an increased international role for the University, and the possibility of significant self-motivated cooperation among the member institutions.

UMKC Chancellor **George Russell** has been re-elected chairman of the Board of Trustees of the Argonne Universities Association.

That association, which is composed of 30 major educational institutions, fosters research through the Argonne National Laboratory and promotes relationships between the laboratory and the educational community.

This is Chancellor Russell's sixth year on the Board and his third year as its chairman.

Thomas Jordan, associate vice chancellor of academic affairs and dean of the Graduate School at UMSL, has been honored by the Royal Society of Health in London. The society awarded Dr. Jordan the Starkey Prize for research in mental health. The international prize, which is awarded every three years, recognizes Dr. Jordan's study of the mental development of babies.

John Sharp, UMC chairman of geology, has received the Alexander von Humboldt Fellowship for study in West Germany. The von Humboldt Foundation provides several fellowships each year to outstanding young scientists in a wide variety of fields. Scholars are selected by a panel of distinguished West German scientists. Under the fellowship, Dr. Sharp will study at the geology institute of the University of Munich. He will research hydrogeologic models of mineral

deposition. He will also conduct a comparative study of major European and American river valley systems.

Maxine Tishk, director of the graduate dental hygiene education programs at Kansas City, has been elected to the American Dental Hygienists' Association's national commission. She will serve a three-year term. The commission is responsible for assuring competency within the profession.

Douglas Ensminger, professor emeritus of rural sociology on the Columbia campus, is the 1980 recipient of a special award of the American Society of Agronomy. The Edward W. Browning Award was conferred on Dr. Ensminger for "achievements in the improvement of food sources." Dr. Ensminger has specialized in technical agricultural aid to foreign countries since coming to UMC ten years ago. The society presents the award to an outstanding individual each year.

Bernard Sarchet, chairman of engineering management at UMR, has been re-elected president of the newly-established American Society for Engineering Management.

Yudell Luke, Curators' professor of mathematics at Kansas City, presented an invited paper last month to the Third Mathematical Congress of Venezuela.

Shirley A. Martin has been named dean of the new School of Nursing at UMSL, effective Dec. 1. She has served the past three years as division chairman for Nursing and Allied Health at Maryville College in St. Louis County.

Dr. Martin received her R.N. in 1948 from the Missouri Baptist Hospital School of Nursing, her B.S. in 1954 from Shurtleff College, her M.S.N. in 1959 from Washington University and her Ph.D. in 1967 from St. Louis University.

She served as professor and dean of the School of Nursing at Indiana State University, Terre Haute, from 1975-77 and as professor and dean of the School of Nursing at Florida State University, Tallahassee, from 1971-75.

Jobs

The following administrative, professional and academic vacancies were listed with *Spectrum* as of Nov. 20. Those interested in a position should contact the appropriate academic department or personnel office.

UMC: Asst. radiation safety officer; asst. vice chancellor, alumni relations; computer programmer/analyst I (2); computer programmer/analyst II (3); director, facilities management; executive staff assistant II; manager, utilities; research specialist (6); sr. research chemist (2); sr. systems programmer; student services coordinator, student development; supervisor, broadcast engineering KOMU TV; **UMca:** Architect; associate director, facilities management, physical plant and energy conservation; computer engineer II;

computer project manager; manager, computing services; systems programmer.

UMC Hospital: Administrative dietitian; anesthetist (2); asst. director, nursing; asst. hospital engineer; asst. manager, nutrition and dietetics; audiologist; biomedical engineer; child life activity therapist; head nurse (2); health care evaluation analyst; manager, cardiology laboratories; manager, housekeeping; physical therapist; registered medical technologist (4); social worker; sr. computer programmer/analyst (2); sr. systems analyst; supervisor, food service; supervisor, housekeeping.

UMR: Research specialist; chairman, engineering management; instructors, English, mathematics,

petroleum engineering; lecturer, philosophy;

UMKC: Clerk; clerk II; clerk typist; clerk typist II; police captain; radio dispatcher; receptionist; sr. cashier; sr. secretary; administrative asst.; composition typist; library asst. I; secretary; police sergeant; asst. vice chancellor, administrative affairs; executive staff asst. I; supervisor, secretarial services; information specialist;

UMSL: Asst. professors, art, economics, English, math (2), physics (2), political science, psychology, sociology, accounting, marketing, management; assoc. professor, finance; reference librarian, education library; asst. director, office of public information.

SPECTRUM

is published every other week during the academic year and monthly during the summer session by UMca University Relations, 400 Lewis Hall, Columbia, in cooperation with the Columbia, Kansas City, Rolla and St. Louis information offices.

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