



**Leroy Morrison (left), head of Records Management, and two associates inspect a massive pillar in the underground Great Midwest Space Center, where UM has leased storage space.**

## Fewer studying abroad

The number of Americans studying or teaching abroad has declined sharply in the last few years, according to a survey by the Academy for Educational Development.

Researchers found that the number of students who participate in formal educational programs overseas plunged by 43 per cent between the 1971-72 and 1973-74 school years, the latter being the last for which complete data are available.

According to the survey, 33,550 students from the United States traveled abroad for study or research in 3,341 programs during the 1973-74 academic year, compared with 50,540 participants in 3,825 programs in 1971-72. This constitutes a decrease of just over a third in the number of American students going abroad to study and a decline of nearly 13 per cent in international study and research programs.

The greatest decline, the survey report showed, was in the number of students going abroad for a full year's academic work, which showed a 43 per cent drop over the two-year period. The number of students going abroad for summer study dropped 15.5 per cent.

Increased tuition was suggested as the chief cause of the decline in foreign study. Leonard laquinta, the report's principal author, said the average tuition cost for an academic year of study overseas increased from \$1,857 in 1971-72 to \$2,370 in 1973-74. He said students provided on average some two-thirds of the money, with government and foundation aid accounting for the remainder.

"In higher education, there's a rule of thumb that a student's tuition bill really covers only a third of the cost,"

laquinta said, "and here the student's money has to carry two-thirds of the burden. With the decline in the United States' and world economy, and exchange rates where the dollar seems to stack up worse and worse, it's just getting too hard for them to carry that burden."

Another impediment to study abroad is political, as is the case in India, where strained relations with the U.S. last spring have had a chilling effect on scholars. At the same time, foundations, once generous with money for overseas study, are channeling more and more into domestic programs.

Furthermore, the tight job situation in this country and the increased competition for admission to graduate and professional schools have discouraged many students from going abroad. Instead they are concentrating on developing job skills and making good grades.

## Half of students in KC med class are women

Women make up about one-fourth of the average first-year class in U.S. medical schools, but at UMKC's School of Medicine, which has a Year I enrollment of 72, exactly half of the beginning medical students are women.

This is a record for UMKC's med school, but the percentages of women enrolled there have been consistently high, compared to national averages. In both 1973 and 1974, for example, 40 per cent of the UMKC med school's Year I classes were women.

In all, according to Virginia Calkins, assistant professor and coordinator for admissions, the School of Medicine has an enrollment of 356 students. Of these, 125, or 35 per cent, are women. Following is a year-by-year breakdown: Year I—36 (50 per cent); Year II—31 (37 per cent); Year III—22 (36 per cent); Year IV—20 (28 per cent); Year V—12 (30 per cent); Year VI—4 (14 per cent).

## Records to be stored underground

"Going underground" isn't just for disaffected young radicals. Even the Establishment is doing it these days.

The University of Missouri has leased 10,000 square feet in the underground limestone chambers of Kansas City's Great Midwest Space Center. All of the paper files stored by Records Management at its Records Center in Columbia's General Services Building—along with Western Historical Manuscripts collections awaiting processing—will go into the subterranean facility.

Moving day is set for Nov. 1. Shelving purchased by the University from Missouri Prison Industries is being installed by the Great Midwest Center. A supervisor and a records clerk from UM will staff the facility beginning the second week of November.

Administrative and academic departments will be able to get any documents from the facility the day after a request is received, according to Leroy Morrison, Records Management chief. "Courier service will be used, and telecopier acquisition would be considered if departments needed emergency access to documents," he says.

The first of the calendar year, after some renovating is completed, Records Management offices and microfilm lab will move into the General Services area vacated by the stored records.

Space problems for the two University departments had become critical in the last two years after the curators vetoed both construction of a new facility and leasing of a vacant building in Columbia. The Western Historical Manuscripts director, Richard Brownlee, says an "enervating effect" on acquisitions results from lack of storage: "You don't dare work to get major collections if you have no place to hold them for processing." And that hurts a research institution like UM, he says.

Among those with whom the University will share space in the center is International Harvester, which also stores its records there. In all, more than \$20 million of inventory is held in the huge caverns of the maximum-security facility.

Temperature and humidity at the Space Center are easily altered and controlled because of the massive rock insulation. An elaborate fire protection system protects inventory and tenants.

Morrison says he will be contacting department heads on all campuses to arrange transfer of an increasing volume of materials to the new remote storage. "Now that we have the space, we want to clear out all the inactive records of value which have been occupying file cabinets, or closet and basement space. Before, we could handle only the most critical storage problems with inactive records. Now we can make much more progress. We hope to help departments recover valuable office space now occupied by inactive records files.

"Getting outdated paper into storage will also have a braking effect on purchases of additional file cabinets and will save departments money for more important needs."

Morrison says a policy revision on storage of inactive records is in the works: "Basements, attics and closets will no longer be considered acceptable storage for University records." Such uncontrolled temperature and humidity conditions and lack of security are undesirable, he says. "We had to live with such makeshift arrangements before, but such practices are unnecessary now that remote storage is at hand."

—Margaret Kraeuchi

# Spectrum

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## Medical benefits option

University faculty and staff enrolled in the \$50 hospital room-and-board option provided by the UM Medical Benefits Plan are being given the opportunity to switch to a lower rate, but they must request the change before Wednesday, Oct. 1, when the rates will be raised—from \$50 to \$60 and from \$35 to \$45.

In a letter to faculty and staff, W. D. Poore, director, Personnel Services, said: "It is suggested that careful consideration be given before changing to the lower room rate in view of continually escalating medical costs. Any who change to the lower room rate and later decide to revert to the higher room rate will be required to furnish medical evidence of good health.

"A decrease in your room and board rates may be requested by completing a new enrollment card and submitting it to the Personnel Office on your campus before Oct. 1, 1975. Corrections in payroll deductions, where changes are requested, will require special handling in a subsequent payroll period."

## Credit union announces new program

The Mizzou Employees Federal Credit Union is now offering members a term life insurance policy at group rates, according to Karl Guettler, manager of the credit union.

Literature describing the program is available through the credit union office at 909 University Avenue in Columbia (phone: 449-3951). A general mailing describing the life insurance program is planned for Oct. 1.



# SAT averages drop sharply; educators seek explanation

The verbal and mathematical aptitude scores of college-bound high school seniors dropped this year by the biggest margin in at least two decades, according to a report by the College Entrance Examination Board.

The average verbal score, the report shows, declined by 10 points to 434, and the average score on the mathematical section fell eight points to 472.

The pronounced drop in scores from 1974 to 1975 represents an intensification of a downward trend extending over the last 12 years, during which time scores declined an average of two or three points annually. With this year's sudden falloff, the averages stand 44 points lower on the verbal section and 30 points lower on the math section than those recorded in 1963, when they reached their highest level.

The College Board has been conducting research into possible causes for the falling scores, but so far has failed to come up with a satisfactory explanation.

"We don't know the reasons for it," says Sam A. McCandless, director of the board's Admissions Testing Program. "I cannot think of any single explanation that does not seem implausible, or at least unlikely, given some of the data available."

Analysis of the distribution of scores on the two scales of 200 to 800 reveals that the decline was caused not by across-the-board slippage but by changes at the upper and lower extremes—more low scores and fewer high scores. On the verbal section the number of students scoring above 600 fell by 20 per cent, while the number scoring in the 200-400 range rose by 8 per cent. On the math test the number of scores above 600 decreased by 8 per cent and the number under 400 increased by 13 per cent.

The board report noted that students taking the test for the second time are no longer improving their scores as much as they once did. In the mid-'50s, "repeaters" improved their scores by about 35 points. A decade later this figure had fallen to about 20, and it is now about 15.

Concerned over the possibility that the downward trend might be the result of factors built into the testing program itself, the board has conducted in-depth studies of scale stability—with surprising results.

"Instead of helping to account for the score declines," a board spokesman reports, "the results of the 1975 scale stability study show that the actual decline in ability was probably greater than the decline reflected in reported scores. The SAT score scales seem to have shifted since 1963 so that it may have become slightly easier—not harder—from year to year to earn a given SAT-verbal or SAT-math score. Preliminary estimates suggest that the probable shifts amounted to an annual average of about two points. . . ."

One study conducted by the board involved administering SAT tests to students who did not plan to go to college. In another the board had 1974-75 seniors take sections of old tests, on which their predecessors had scored higher. Analysis of the findings, McCandless says, suggests that the decline in ability is real and that it is characteristic of the general high school population, not simply of those planning to attend college.

In the absence of compelling evidence and clear-cut explanations, numerous hypotheses have been advanced to account for the falling scores. One is that years of staring mindlessly at television screens have dulled the mental faculties of young people who might otherwise have spent at least part of that time engaged in some more intellectually stimulating pursuits. A problem with this theory, McCandless observes, is the continuous, long-term nature of the decline, and particularly the sharpness of this year's dip in the scores. "Did this year's seniors watch that much more television than those in earlier years?" he asks.

Another theory is that the decline is a result of less effective teaching, with the emphasis more on fads than on

## SAT Score Averages

Year	Verbal	Math
1957	473	496
1958	472	496
1959	475	498
1960	477	498
1961	474	495
1962	473	498
1963	478	502
1964	475	498
1965	473	496
1966	471	496
1967	468	492
1968	466	492
1969	463	493
1970	460	488
1971	455	488
1972	453	484
1973	445	481
1974	444	480
1975	434	472

Note: Figures for 1957 to 1966 are estimates

fundamentals. McCandless discounts this proposition, too. "If schooling were the cause," he says, "you would expect the math scores to decline more than the verbal ones. After all, you can pick up verbal skills outside the school, but most people don't learn much math this way."

A third widely held theory calls attention to the changing population mix of those taking the tests. In general, the SAT tests formerly were required only by the more selective institutions, and the students who took them tended to be from the top levels of their classes. Now the tests are required by numerous less selective schools, so naturally many less able students are taking them. At the same time, a great many students who in the past would never have thought of attending college are now doing so, and their scores are skewing the average downward. But, as McCandless points out, none of this accounts for the sharp reduction in the number of those scoring above 600.

The College Board plans to continue its studies. A committee of experts has been set up to review completed research and to suggest additional projects.

Copies of the board's report, College-Bound Seniors, 1974-75, may be obtained from the College Board, 888 Seventh Ave., New York, N.Y. 10019.

## UMC joins tumor study

Specialists from medical schools at UMC, St. Louis University and Washington University are working together in a five-year study of brain tumors.

The National Cancer Institute has awarded a \$615,278 contract to the group, which will become a part of a network linking physicians in 15 medical centers across the country. The physicians are pooling their experience to determine the best methods of surgical, drug and X-ray treatment of cancerous brain tumors.

Dr. George Roulhac of UMC and Dr. Kenneth Smith, Jr., of St. Louis University are directing the project in St. Louis.

## Reading scores improve

Scores on so-called "functional literacy" tests, administered last year to some 5,200 17-year-olds, are slightly higher than in 1971, according to a report by the National Assessment of Educational Progress.

Despite the improvement, the report said, many of the students, most of whom were high school juniors, still lack some of the basic reading skills needed to function in today's world. Even the brightest students, according to the report, had difficulty with questions requiring the ability to read traffic tickets, insurance policies and book club application forms.

The average scores rose from 87.7 per cent in 1971 to 89.7 per cent in 1974. Black students improved by 3.6 points, from 72.2 to 75.8 per cent. Scores of disadvantaged inner-city students rose from 79.4 to 83 per cent; those of students whose parents never attended high school went from 78 to 82.6 per cent and those of rural students rose from 85.4 to 89.5 per cent.

## Quotable

"The quicker we internalize—and energize with our own initiatives—the cutting-edge norms of social justice which the government is attempting to enforce, the quicker the external armies of bureaucratic niggers and meddlers will disappear."

—Stephen K. Bailey, vice president of the American Council on Education

## Vacancies announced

The following professional and administrative vacancies were listed as of Sept. 17:

UMC—Accountant; assoc. reactor supervisor; chemist; fertilizer inspector; group leader; health physicist; photographer; research eng. II; sr. editor; sr. fiscal analyst; sr. research chemist; sr. research tech. (3); mgr., staff benefits; coordinator of computer operations; asst. to dir., Emergency Medical Services; program coordinator/legal educator; maintenance coordinator; prog. coordinator; Employee Assistance Program coordinator.

UMC MED CENTER—Medical illustrator (2); personnel manager; pharmacist; registered med. technician; sr. personnel asst.; staff nurse (18); staff nurse II (2).

UMKC—Academic advisor; management intern.

UMR—None.

UMSL—Contracts officer; sr. personnel asst.

Persons interested in an announced vacancy should contact the personnel office on the campus where the vacancy exists

NOTE: Department chairmen wishing to place announcements of academic vacancies in Spectrum should write to Spectrum, 424 Lewis Hall, Columbia.

## Curators meeting today

Among the agenda items for the UM Board of Curators meeting in UMC's Memorial Union today at 1:30:

- Reorganization plans for key administrative posts at UMSL and U-wide;
- Capital improvement budget request for 1976-77;

- Plans for a \$5-million fund-raising effort for UMR;

- Plans for a school of optometry and the purchase of Marillac property at UMSL;

- Appointment of architects for journalism and nursing additions;

- Establishment of a Helen Kemper Professorship, UMKC;

- Various construction bids and staff reports.

## Program entering new season

"Open Meeting," UM's live, call-in radio program, enters its second season Sunday with UMSL Chancellor Arnold B. Grobman and John Hall Dalton, president of the Board of Curators, joining President Ratchford in answering listeners' questions.

The program will be broadcast at 5:30 p.m. on the University's FM stations: KBIA, 91.3, in Columbia; KCUR, 89.3, in Kansas City; KUMR, 88.5, in Rolla; and KWMU, 90.7, in St. Louis.

Listeners throughout the state are invited to call collect with any questions relating to the University. The number is 314 453-5965. Questions which are not answered on the air because of time restrictions will be answered by mail if callers leave their names and addresses.



# Budget for '76-'77 explained

President C. Brice Ratchford carried the University's 1976-77 budget message to the Coordinating Board for Higher Education on Sept. 12 when that board met in Maryville to hear budget requests from Missouri's public colleges and universities.

Ratchford told the board the University is asking \$138.7 million in state funds for operations next year, an increase of \$19.2 million over the current year's appropriation.

The University's Board of Curators approved the \$138.7-million request at its meeting Aug. 1. At that time one member described the budget as "stand-still after two or three years of slide-back."

Pointing out the largest single item in the proposed budget, nearly \$12 million for salary and wage increases of 8 per cent, Ratchford said the University is losing faculty and is unable to attract others to replace them because of inadequate pay scales.

Another major item in the University's request, the president noted, is almost \$3 million for an 8 per cent adjustment in non-salary expense and equipment accounts. This does not include another \$2-million increase, he said, that is expected in 1976-77 utility costs.

Other items:

- \$226,700 to pay for opening and maintaining two new buildings on the St. Louis campus.

- \$1.4 million for improvement and inflationary adjustment in the UM staff benefit program. Included are higher medical benefit program contributions, an inflation adjustment for retirees and a change to assure the "soundness of the Retirement Plan."

- \$449,000 to correct salary inequities which will be revealed by a study of administrative and professional staff now in process.

- \$360,000 to put UMKC and UMSL in a better position to compete for personnel in those metropolitan labor markets.

- \$265,000 to continue the development of the six-year combined baccalaureate/medical degree program in Kansas City, begun in 1971-72.

- \$200,000 to provide a 10-to-1 student-faculty ratio in 1976-77 for the UMKC dental school with the hope for a further reduction to 6 to 1 the following year. At present the ratio is 13 to 1.

- \$221,918 to improve the UMR energy and mineral engineering program "to fulfill the demands of industry and government, which are estimated to quadruple by the end of this decade if the national goal for near self-sufficiency in energy and minerals is to be attained."

- \$135,340 for the UMC College of Agriculture to improve programs in pest management, environmental studies, animal waste disposal and food and fiber research.

- \$289,400 to improve programs for disadvantaged students at all four campuses.

More than \$3 million in program improvement requests submitted by the four UM campuses was trimmed by the central administration before the proposed budget went to the Board of Curators.

In addition to the \$138.7 request for state funds, the University is expecting \$73.5 million in non-state income next fiscal year. This brings the proposed general operating budget for 1976-77 to \$212 million.

—George Golson

## Feedback U-wide spending

As a member of the staff of Rolla's Office of Public Information, I have been asked several times if it is true that U-wide is the University's third largest spender. Could you please provide me with some facts?

ERNEST GUTIERREZ  
Office of Public  
Information  
UMR

At first glance it does appear that "University-wide" is the third largest spending unit in the University. But further examination reveals that is not the case.

Kent Shelton, University comptroller, explains the University-wide budget and how it is used in this manner:

At its June 27 meeting, the Board of Curators approved a general operating budget of \$191,747,517 for the University for the 1975-76 fiscal year. A breakdown of this total showed the following amounts budgeted by campus and U-wide: Columbia campus, \$105,092,251; Kansas City campus, \$29,909,624; Rolla campus, \$16,791,833; St. Louis campus, \$17,266,154; and University-wide, \$22,687,655.

While more than \$22 million is budgeted to University-wide at the beginning of the fiscal year, only about 20 per cent (or \$5 million) of this amount actually is spent for central administrative purposes. The rest, about 80 per cent, is allocated to the campuses, used for the campuses or utilized for other purposes.

The following breakdown is given for the \$22,687,655 budgeted to University-wide at the start of the 1975-76 fiscal year:

- \$10,461,725 is budgeted for statewide extension. While budgeted through U-wide, virtually all of this money is spent for off-campus extension staff in Missouri's 114 counties and for some extension work conducted by the four campuses.

- \$1,817,723 for research. These funds are budgeted to U-wide to provide research services to the campuses. Examples of U-wide research facilities and services are the Research Reactor, Sinclair Research Farm, Environmental Trace Substances Center, patents and copyrights.

- \$2,747,662 for the computer network. These funds are allocated during the year to the campuses to purchase computer services from the central computer facility. The services are for instruction and related academic purposes.

- \$532,452 for core services (personnel, equipment and supplies) for administrative data processing. This activity supports business operations for all campuses and programs.

- \$1,185,613 for the President's contingency fund. These funds are held in reserve and used for emergencies and other special needs that arise. Last fiscal year, for example, a substantial share of the contingency fund was allocated to the Columbia campus to help meet fast-rising utility costs.

- \$935,000 for Curators Scholarships. These funds are allocated to the campuses as the scholarships are awarded to students.

- \$5,007,480 for support services, excluding administrative data processing. These actually are the funds available for

University-wide administrative operations. However, all of the total does not go for central administration because there are numerous functions included which assist the campuses. These functions include centralized accounting, centralized purchasing, writing payroll checks for all University personnel, affirmative action and equal-opportunity programs, processing research proposals, providing W-2 forms to all employees and other services.

So it is evident that the amount spent on central administration is relatively small compared to the total University general operating budget—actually about 2½ per cent. But it is easy for someone to gain the wrong impression when only the \$22,687,655 figure budgeted to University-wide at the beginning of the year is known.

Incidentally, the amount budgeted to U-wide for 1975-76 is a reduction of more than \$300,000 from last year.

## Bookshelf

- *Assessing the Career Interests of College Youth: Summary of Research and Applications*, by Gary R. Hanson (American College Testing Program, P. O. Box 168, Iowa City 52240; A.C.T. Research Report No. 67; 76 pages, \$1).

- *Campus in Transition: A Report from Educational Facilities Laboratories* (E.F.L., 850 Third Ave., New York 10022; 76 pages, \$4).

- *Collective Bargaining in Higher Education: Bibliography No. 3, 1975*, compiled by Daniel J. Julius and John C. Allen (National Center for the Study of Collective Bargaining in Higher Education, Baruch College, 17 Lexington Ave., New York 10010; 130 pages, \$7).

- *Continuing Challenge: The Past and the Future of Brown v. Board of Education*, by the University of Notre Dame Center for Civil Rights (Integrated Education Associates, 2003 Sheridan Road, Evanston, Ill. 60201; 88 pages, \$2.50).

- *A Directory of Higher Education Innovation*, compiled by Nancy Barber (Western Interstate Commission for Higher Education, P. O. Drawer P, Boulder, Colo. 80302; 208 pages, \$5).

- *Meeting the Needs for Legal Education in the South*, by A. Kenneth Pye (Southern Regional Education Board, 130 Sixth St., N.W., Atlanta 30313; 33 pages, \$1).

- *National Patterns of R&D Resources: Funds and Manpower in the United States, 1953-1975*, by National Science Foundation (U.S. Government Printing Office, Washington 20402; stock number 038-000-00223; 28 pages, \$1.15).

- *Sex Role Socialization and Employment Realities: Implications for Vocational Interest Measures*, by Dale J. Prediger and Nancy S. Cole (American College Testing Program, P. O. Box 168, Iowa City 52240; A.C.T. Research Report No. 68; 10 pages, \$1).

- *The Concept of Academic Freedom*, edited by Edmund L. Pincoffs (University of Texas Press, Box 7819, University Station, Austin, Tex. 78712; 264 pages, \$10).

## Spectrum

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## Here and there

... Construction is under way at UMC's Medical Center on a specially equipped intensive-care facility for burn patients. The seven-bed facility, known as the George David Peak Memorial Burn Unit, will be manned by the med center's "burn team," which annually treats more than 80 severely burned patients from all parts of the state.

... The General Accounting Office says HEW "has made minimal progress in making sure that colleges and universities have acceptable affirmative-action programs." According to a GAO report, as of last December the department had approved plans for hiring more women and members of minority groups at only 29 of the 1,300 institutions that should have had such plans.

... Work has begun at UMR on an "Inventory of Computer Activities and Related Degree Programs in U.S. Higher Education." Research for the project, which was made possible by an NSF grant of \$163,500, is being directed by Dr. John W. Hamblen, chairman of UMR's computer science department. Results of the study will be published in two volumes, providing up-to-date estimates on computing activities in academic administration, research and instruction. The volumes are expected to be published in the summer of 1977.

... "Survival of Local Historical Resources: A Practical Approach to Records Preservation" was the theme of a national archival symposium which brought about 200 archivists and historians to UMKC's Truman Campus earlier this month. Among the participants were Ralph H. Haver, director, UM Archives, and Nancy Prewitt, assistant director, Western Historical Manuscripts Collection, who served as panelists; UMKC Chancellor James C. Olson, who gave the welcoming speech, and Lawrence Larsen, UMKC urban historian, who helped to organize the symposium.



## UMC Calendar of Events

### ATHLETIC EVENTS

Sept. 27: Football: Missouri vs Wisconsin, 1:30 p.m., Faurot Field.  
Oct. 11: Football: Missouri vs Oklahoma State, 1:30 p.m. Faurot Field.

### CONCERTS, PLAYS

Oct. 9-11; 13-18: "Under the Milkwood," 7:30 p.m., University Theatre. For further information call 882-2021.  
Oct. 10: Esterhazy String Quartet, 8:15 p.m., Fine Arts Recital Hall.  
Oct. 13: MSA Broadway Play: "One Flew Over the Cuckoo's Nest," 8 p.m., Jesse Aud. Tickets: \$4, \$3.25, or \$2.50.  
Oct. 18: Pianist Alicia de Larrocha, 8:15 p.m., Jesse Aud.  
Oct. 26: St. Louis Symphony Orchestra, 7:00 p.m., Jesse Aud.  
Oct. 26: Collegium Musicum Concert, 3:30 p.m., Fine Arts Recital Hall.

### FILMS, EXHIBITS

Sept. 1 - Sept. 26: Women Artists exhibition at Fine Arts Center. Ceramics by Jean Garrett; paintings by Gail Rutherford, Joanne Zucco Berneche.  
Sept. 26: Movie: "Harry and Tonto," 7 & 9:30 p.m., Jesse Aud. Tickets required.  
Sept. 26: Astronomical Film of the Week: "The Hidden Earth", 7:00 p.m., Room 114 Physics.  
Sept. 25-Oct. 15: Stanley Hall Gallery: "Hand Crafted Furniture" John W. Kriegshauser.  
Sept. 27: Movie: "The Groove Tube," 7 & 9:30 p.m., Jesse Aud., tickets required.  
Sept. 28-Oct. 17: Sculpture by Kenneth Ryden, Stephen Bundy, and Alan Paulson at the Fine Arts Gallery.  
Sept. 28: Movie: "They Might Be Giants," 7 & 9:30 p.m., Middlebush Aud.  
Oct. 1: "Ascent of Man film," "Hidden Structure," 7:15 & 8:30 p.m., 204 GCB.  
Oct. 1: MSA Movie: "Pat and Mike", 7 & 9:30 p.m., Jesse Aud.  
Oct. 3: Astronomical Film of the Week: "Atmospheric Electricity" at 7:00 p.m., Room 114 Physics.  
Oct. 3: MSA Movie: "Chinatown", 7 & 9:30 p.m., Jesse Aud. Advanced tickets \$.75 at MUTW, tickets at door \$1.

Oct. 5: MSA Movie: "Great Northfield Minnesota Raid", 7 & 9:30 p.m., Jesse Aud.  
Oct. 8: "Ascent of Man film," "Music of The Spheres," 7:15 & 8:30 p.m., 204 GCB.  
Oct. 8: MSA Movie: "The Day the Earth Stood Still" and "Village of the Dammed", 7 & 9:30 p.m., Jesse Aud.  
Oct. 10: Astronomical Film of the Week: "Radio Wave in the Ionosphere", 7:00 p.m., Room 114 Physics.  
Oct. 10: MSA Movie: "King of Hearts", 7 & 9:30 p.m., Jesse Aud. Advanced tickets \$.75 at MUTW, at door \$1.  
Oct. 11: MSA Movie: "California Split", 7 & 9:30 p.m., Jesse Aud. Advanced tickets \$.75 at MUTW, at door \$1.  
Oct. 12: MSA Movie: "Apprenticeship of Duddy Kravitz", 7 & 9:30 p.m., Jesse Aud.  
Oct. 15: "Ascent of Man film," "Starry Messenger," 7:15 & 8:30 p.m., 204 GCB.  
Oct. 15-Nov. 15: Stanley Hall Gallery: "University Interior Design" by Jay Porter, UMC interior designer.  
Oct. 15: MSA Movie: "Brewster McCloud" and "Images", 7 & 9:30 p.m., Jesse Aud.  
Oct. 17: Astronomical Film of the Week: "A Closeup of Mars", 7:00 p.m., Room 114 Physics.  
Oct. 17: MSA Movie: "Touch of Class", 7 & 9:30 p.m., Jesse Aud. Advanced tickets \$.75 at MUTW, at door \$1.  
Oct. 18: MSA Movie: "McCabe and Mrs. Miller", 7 & 9:30 p.m., Jesse Aud. Advanced tickets \$.75 at MUTW, at door \$1.  
Oct. 19-Nov. 7: Paintings on exhibition at Fine Arts Gallery by Joe Patrick and Genie Patrick.  
Oct. 19: MSA Movie: "Steelyard Blues", 7 & 9:30 p.m., Jesse Aud.  
Oct. 22: "Ascent of Man" film, "Majestic Clockwork," 7:15 & 8:30 p.m., 204 GCB.  
Oct. 22: MSA Movie: "Man from UNCLE", 7 & 9:30 p.m., Jesse Aud.  
Oct. 24: Astronomical Film of the Week: "The Living Sun", 7:00 p.m., Room 114 Physics.  
Oct. 24: MSA Movie: "Papillion", 7 & 9:30 p.m., Jesse Aud. Advanced tickets \$.75 at MUTW, at door \$1.  
Oct. 25: MSA Movie: "Enter the Dragon", 7 & 9:30, Jesse Aud. Advanced tickets \$.75 at MUTW, at door \$1.

### LECTURERS, SPEAKERS

Sept. 29: International: "It's a Small World—Thailand," 7:30 p.m., Read Hall Basement.  
Sept. 29: Lunchbag Seminar: "The Environment & Individual Needs", Dr. Helen Roehlke, Noon, basement of Gentry Hall. Bring your lunch. Open to the public.  
Sept. 30: Department of Chemical Engineering Seminar Series: "Thermal Transpiration Measurement and Model Comparisons for Molecular-Continuum Transition", Hung Park, in Room 37J of the Engineering Bldg. at 3:30 p.m.  
Oct. 2: Lunchbag Seminar: "Positive Aging," Ms. Share Bane, noon, Women's Center. Bring your lunch. Open to the public.  
Oct. 6: Lunchbag seminar: "Fear of Achievement in Women," Dr. Barbara Bank, noon, basement of Gentry Hall. Bring your lunch. Open to the public.  
Oct. 6: Energy Issues and Perspectives Seminar: Pinkney C. Walker, "The Natural Gas Market: Current Problems and Issues", Room S8 of Memorial Union. Advanced registration required. Further information available by calling 882-8256.  
Oct. 6: International Coffeehour: "Is Permanent Peace Coming to the Middle East?", 7:30 p.m., Read Hall basement.  
Oct. 7: Department of Chemical Engineering Seminar Series: Dr. George Preckshot, "Problems in Electrophoresis", Room 37J of the Engineering Bldg., 3:30 p.m.  
Oct. 9: Lunchbag Seminar: "Sex Therapy," Dr. Joseph Lamberti, noon, Women's Center. Bring your lunch. Open to the public.  
Oct. 13: Lunchbag Seminar: "Interviewing skills & Resume Preparation" Bob Hansen, noon, in the basement of Gentry Hall. Bring your lunch. Open to the public.  
Oct. 13: "It's a Small World - Peru", 7:30 p.m., Read Hall Basement.  
Oct. 15: Department of Chemical Engineering Seminar Series: Dr. James Davis, Clarkson College, "Knudsen Aerosol Transport Phenomena", 3:30 p.m., Room 37J Engineering Bldg.  
Oct. 16: Lunchbag Seminar: "Enjoying Your Singleness," Ms. Nancy Hazleton, noon, Women's Center. Bring your lunch. Open to the public.

### George to speak at University Club

Melvin George, University vice president for academic affairs, will speak on "Universities, Accountability and the Uncertainty principle" at a noon meeting of the University Club Tuesday, Oct. 7 in Memorial Union N214-215.

The buffet luncheon program costs \$2.75 per person. Membership dues are \$5.00 per year. Checks payable to the University Club must be sent to John Tolan, secretary-treasurer, 414 Clark Hall.

### Glueck appointed to journal

William F. Glueck, professor of management, has been appointed a member of the "Academy of Management Review." The review is one of two professional journals published by the Academy of Management, an association of college and university management teachers in the U.S. and Canada.

Glueck's appointment is for three years. The review board consists of 25 people who select articles to be published in the journal.

## Committee chairpersons announced

The following is a list of UMC committees, councils and boards and their 1975-76 chairpersons.

**Committee on Committees:** Fred C. Spiegel, professor of political science; **Honorary Degrees:** Fred McKinney, professor of psychology; **Retiree Advisory Committee:** Loren Reid, professor emeritus of speech and dramatic arts; **Lectures and Cultural Events:** Andrew Nash, professor of forestry.

**Committee on Handicapped Students:** John C. Lysen, professor of mechanical and aerospace engineering; **Entrance and Revision of Records:** John Hewett, associate professor of statistics; **Instructional Resources:** Esther Brown, professor of veterinary anatomy/physiology; **International Studies and Programs:** Paul Wallace, associate professor of political science.

**Library:** Gene Cox, professor of forestry; **Museums:** Lawrence Rugolo, professor of art; **Schedule of Studies and Examinations:** Charlotte Wells, professor of law; **Grants and Scholarships for Study Elsewhere:** James L. Chapel, professor of psychiatry.

**Housing:** Richard Hoft, professor of electrical engineering and Pat Starke, business and public administration;

**Memorial Union/Brady Commons:** Robert W. Haverfield; **Campus Judicial Committee:** William Knox, assistant professor of law; **Student Organizations, Government and Activities:** H. J. Salane, professor of civil engineering and David Setzer, arts and science.

**Student Publications:** John Ferguson, professor of counseling and personnel services; **University Sponsored Student Financial Aids:** Larry Morehouse, director, veterinary medicine diagnostic laboratory; **Veterans Services:** Ferrill Purdy, assistant professor of physiology.

**Campus Planning:** C. Leroy Day, professor of agricultural engineering; **Traffic and Parking:** Kenneth Boggs, professor of agricultural economics; **Disaster Relief:** James Oglesby, coordinator, space and facilities; **Maneater Advisory Board:** Larry Clark, assistant provost for academic affairs.

**Broadcast Media Board:** Owen Koeppel, provost for academic affairs and John F. McGowan, provost for administration; **Affirmation Action Council:** T. Charles McKinney, associate professor of management; **University Assembly:** James Banning, dean of student affairs.

**Committee on Intercollegiate Athletics:** Henry Lowe, professor of law; **Operations Committee of Schools and Colleges:** Gary L. Smith, director of

admissions and registrar; **Hearnes Multipurpose Building:** Leonard Douglas, dean of extension; **Capital Improvements Council:** Laura Foster, arts and science.

**Brewer/Rothwell Policy Committee:** Ralph Stewart, professor of health and physical education; **Bicentennial Committee:** Carrie Francke; arts and science; **Women's Athletic Committee:** Veralee Hardin, professor of special education; **Calendar Committee:** Larry D. Clark, assistant provost for academic affairs;

**Committee on the Status of Women:** Mona Dingle, professor of economics; **Black Studies Committee:** Arvarh Strickland, professor of history; **Safety and Risk Committee:** Louis Holroyd, professor of physics; **Faculty Advisory Committee for the Center for Student Life:** Dean L. Yarwood, associate professor of political science.

**Campus Committee of Faculty Responsibility:** No chairperson required and **UMC Tenure Committee:** chairperson to be elected.



## Around Campus

### Faculty development program under way

The Faculty Development Program, sponsored by the Office of the Provost, is being held 3-5 p.m. each Thursday on topics of concern to faculty. The next session will be "Views on College Teaching" 10/2 in the Westport Room at the Center. Dr. Frederick Gaige, KCRCHE vice-president, will chair the session. Presentations will be made by Dr. Hans Uffelman, Philosophy professor and chairman, and by Dr. John O'Hearne, psychology lecturer and assistant professor of medicine. The 10/9 program will be "UMKC's Teaching Support Services—The Use of Instructional Media in Teaching" in the Plaza Room. Dr. Gary Nahrstedt, Education professor, will chair the session. Participants include George Phillips, Audio-Visual services director; Dr. John Christensen, Educational Resources director and Medicine professor; Sam Scott, KCUR director; Daniel Tira, Dentistry assistant professor; and William C. Smith, Education professor.

### Library Friends to host program

The Friends of the Library will sponsor a fact-in-action program to inform Kansas Citizens why and how to support the University libraries. "Conversations" will be presented by three area actors—John Q. Bruce, Eden Lee Murray and Carolgene Burd—at 7:45 p.m. on 10/10 in the second floor of the General Library. Phil Tompkins, Library associate director, will present a program demonstrating microfilm, microcard, and microfiche. There also will be a preview of a 30 second tape, "Moving Pictures," which will be used as a TV spot locally.

### English schedules Writers series

Kevin O'Morrison, actor and playwright, will discuss his work and read at 3 p.m. on 10/2 as a part of the English Department's Writers Series. O'Morrison, KCRCHE writer-in-residence, wrote "The Morgan Yard," presented at the 1974 Dublin Theatre Festival. He has written a television play, "Report to the Stockholders," which is to be released later this year.

### Workshops to focus on individual's growth

Dental Hygiene and the Women's Resource Service will conduct a one-day workshop to emphasize the importance of professional and personal growth of health-care workers. "Putting it Together Our Minds, Our Bodies, Our Selves," will be held 9-3 on 10/18 in the Dental School. Workshop leaders will be Sharon Helm of the Family Study Center and Counseling and Testing Center, and Susie Shelton, dance group director. The workshop is one of six being conducted under the title of "Our Changing Sense of Self." For information contact Dentistry, 221-3500.

### Geosciences reopens earth relics museum

The Geosciences Museum is again open with exhibits of an outstanding collection of earth science relics. The museum is on the lower level of Geosciences, and the hours are 9-5 Monday through Friday and 2-4 Sunday afternoons. The Sunday session features a geosciences major who will conduct tours of the collection. Groups may make an appointment for a guided tour of the collection by calling 1334.

## Calendar

9/26-27	Long Weekend, Med School
9/26	University Hour, noon, Med School
9/26	Little Big Man, 8, HHA
9/28	Little Big Man, 8, HHA
9/29	Graduate Recital, 8:15, Stover
10/1	Faculty-staff luncheon, 11:30-1, Westport Room
10/2	Faculty Development Program, 3-5, Westport Room
10/2	Writers Series, 3, Plaza Room
10/3	Book sale, 10-4, 06 Library
10/3	Cabaret, 8, HHA
10/4	Book sale, 10-1, 06 Library
10/4	Carol Wilcox lecture-recital, 2:30, Stover
10/5	Sunday Buffet, 5-6:15, Gil Eagles, 6:30-8:30, Pierson Hall
10/5	Cabaret, 8, HHA
10/5-7	Engineers' Council meeting, Plaza Inn
10/8	Faculty-staff luncheon, 11:30-1, Westport Room
10/9	Faculty Development Program, 3-5, Plaza Room
10/10	Harvest Wine Festival, 6:30-9 p.m., U-Smile Stadium Inn

### MRT sets first Midwest tour

Missouri Repertory Theater will take 24 members plus costumes and scenery on its first tour of the Midwest. Two plays from its recently completed 12th season will be presented. "Born Yesterday" and "A Streetcar Named Desire" will be played at four cities in Kansas and Nebraska. MRT also will conduct various workshops and present plays for children during the half-week spent in each city. The tour is coordinated by the Mid-America Arts Alliance in cooperation with and partially funded by the state arts agencies of Kansas and Nebraska, as well as funding from the National Endowment for the Arts.

### London trip set for Spring Break

The Student Development Office is coordinating an affinity charter trip to London from 3/5-14. The trip is open to faculty, staff and students and their families. The \$444 cost includes nine days and eight nights at the Kensington Hilton Hotel, city tour, theatre tickets and many other features. For details, contact Nancy Danley, Student Development Director, at Ext. 1144.

### KCUR wins award, state resolution

KCUR-FM received recognition for news production in the sixth annual awards program of the Missouri Broadcasters Association competition for educational radio stations. The Missouri House of Representatives passed a resolution to "extend their hearty congratulations for said outstanding professional achievement to the staff and management of Radio Station KCUR." Inscribed copies of the resolution were given to Sam Scott, Station director, and Paul Richert-Boe, news director.

## Promotional Opportunities

If you are interested in any of the positions listed, telephone the designated person at Ext. 1621.

Contact Michael Sweaney:

Boiler Fireman  
Mechanical Tradesman

Contact Jane Quigley:

Certified Dental Assistant  
Composition Typist  
Dental Technician  
Library Clerk II  
Radio Dispatcher  
Secretary  
Sr. Secretary  
Switchboard Operator

## School and Department Notes Conservatory

The Civic Orchestra will hold auditions at 6:30 p.m. 10/17 in Stover Auditorium. Interested persons should prepare a solo for presentation.

### Education

The School cosponsored a conference on Individually Gifted Education (IGE) 9/19 at the Truman Campus. The purpose was to aid area secondary level educators and administrators learn how to apply IGE concepts to their education system. The conference was one of six to be conducted this month throughout the state by the Missouri State IGE Coordinating Council. The group includes Dr. J. Joseph Doerr, Dean, as well as Education deans and faculty members at UMKC, UMC and UMSL.

### Engineering

The 43rd annual meeting of the Engineers' Council for Professional Development will be held 10/5-7 at the Kansas City Plaza Inn. Leaders from industry, education, professional practice, government and engineering societies will discuss current and future aspects of the changing nature of engineering. UMC is the host school. For registration information, contact Melford E. Monsees, Graduate Engineering coordinator and member of the meeting committee, at Ext. 1461.

### Library

The Friends of the Library are sponsoring a booksale 10 a.m.-4 p.m. Friday, 10/3 and from 10-1 on 10/4 in Room 06 of the General Library. Hardbacks are 50 cents and paperbacks are 25 cents unless otherwise noted. Proceeds go to the UMKC libraries.

### Medicine

The first Medical Long Weekend will focus on emergency care and on treatment of abnormal heart rhythms at the Medical School today and tomorrow. Dr. Robert D. Conn, clinical professor, will lead the 9/26 course and Dr. L. Beatty Pemberton, associate professor and docent, will lead the emergency care program on 9/27. For more information, contact the Medical School.

### KCUR

Two staff members were involved in reporting the 9/12 visit of President Gerald Ford to Kansas City. Paul Richert-Boe, news director, was selected for the small cadre of reporters to cover the \$250-per-person reception. This select group attends, then reports to other reporters to answer their questions about occurrences. Betty Anne Morris, Speech Communications graduate students, filmed the visit with KMBC-TV news.

### U-Center

The faculty-staff luncheons are being held again 11:30-1 each Wednesday in the Westport Room. New features include a salad bar. Participants are encouraged to take advantage of early and late serving times.

Two dates remain this semester in the Sunday Buffet Entertainment Series held at the Pierson Hall. Gil Eagles, the Entertaining Psychic, will perform 6:30-8:30 p.m. on 10/5. Serving time is 5-6:15 p.m. The second buffet will be 11/16, with entertainment by Art Amith's Kansas City Jazz Band. Serving time will be 12:30-1:45, with entertainment at 2. The price for children is \$2.50 and \$4.25 for adults.

## Professional Activities

### Honors

Dr. Adell Thompson, Education and Biology assistant professor, has been appointed to the Missouri Academy of Science Committee on Outstanding Science Teacher Awards for 1975-76 . . . David Ray, New Letters editor and English associate professor, has been appointed to the Grants Committee of the Coordinating Council of Literary Magazines, the largest organization in the country devoted to advising, providing technical assistance and funding of literary magazines. . .

### Meetings

Dr. Marvin E. Revzin, Dentistry Dean, attended a meeting of the Arkansas State Dental Association in Little Rock on 9/13 and met with the Advisory Panel for the Curriculum Study of the Council on Dental Education of the American Dental Association in Chicago on 9/3 . . . Melford E. Monsees, Graduate Engineering Coordinator, was a member of the meeting committee which planned the 43rd annual meeting of the Engineers' Council for Professional Development, to be held 10/5-7 at the Plaza Inn . . .

### Publications

Dr. Hamilton B. G. Robinson, Dental Dean Emeritus, was an author of "The New 1975 Year Book of Dentistry," published by the Year Book Medical Publishers . . .

# UMKC



## Additions to the faculty-- 1975-76

Following are short paragraphs completing the introductions to new members of the faculty. Introductions of new faculty members "A" through "K" appeared in the Sept. 12 issue of Spectrum

**Dr. Keytack Henry Oh**, assistant professor of engineering management, is assigned to UMR's Graduate Engineering Center in St. Louis. A native of Korea, he is now a U.S. citizen. He received his B.S. in industrial management and engineering in 1962 from Hanyang University, Seoul, Korea, his M.S. in 1966 from Oklahoma State University, Stillwater, and his Ph.D. degree in industrial and systems engineering and operations research in 1974 from The Ohio State University, Columbus.

After receiving his M.S. degree, he was employed by Western Electric Co. as an operations research specialist in Oklahoma City and transferred as a member of the company's information system staff at the Columbus Works when he moved to Ohio. In 1972 he became a staff logistics engineer for Ross Laboratories Division of Abbott Laboratories, Columbus, Ohio, a position he has held until joining UMR.

**Dr. Jagdish K. Patel**, assistant professor of mathematics, received his M.S. degree in statistics from New York University in 1960 and his Ph.D. in 1968 from the University of Minnesota.

His experience includes positions as assistant professor of mathematics at Louisiana State University from 1967 to 1972 and assistant professor of mathematics at Southern Methodist University from 1972 to present.

He is the co-author of a book entitled "Handbook of Statistical Distributions," scheduled to be published this fall and several published articles. His professional fields of interest include non-parametric theory, ranking and selection problems, inference, IFR (DFR) distribution function and their applications and reliability theory.

**Dr. Robert Charles Sanders**, assistant professor of nuclear engineering, received his B.S. degree in engineering physics in 1966 from Oregon State University, Corvallis. He was awarded an Sc.D. degree in nuclear engineering in 1970 from the Massachusetts Institute of Technology. His dissertation is entitled "Design of a Cold Neutron Source for the MIT Reactor."

Dr. Sanders has been a nuclear power engineer with the Division of Naval

Reactors, USERDA, Washington, D.C., from 1970 to the present time. He is a member of the American Nuclear Society, a registered professional engineer and the author of several published papers.

**Dr. Larry P. Vonalt**, visiting assistant professor of English, received a B.A. degree in English from the University of Denver in 1959 and his M.A. and Ph.D. degrees in English from the University of Florida in 1961 and 1968.

From 1961 to 1963 he served as a graduate assistant and interim instructor at the University of Florida. From 1968 to 1974 he held the position of assistant professor at Wesleyan University, Middletown, Conn.

Dr. Vonalt also directed two theatrical productions at Middletown, served as poetry editor of "College English" during 1972-73 and was a consultant for the University of Washington Press from 1973 to the present time.

**Dr. Jerome A. Westphal**, associate professor of civil engineering, received his B.S. in agricultural engineering in 1961 from the California State Polytechnic College, San Luis Obispo, and his Ph.D. in hydrology from the University of Nevada, Reno, in 1973.

After five years as a naval pilot with the U.S. Marine Corps, he served as an hydraulic engineer for the water resources division of the U.S. Geological Survey in Garden Grove, Calif., until 1967. At that time he became a graduate research assistant at the University of Nevada, Reno. He was named an assistant research professor for that institution's Center for Water Resources Research, Desert Research Institute, in 1970 and promoted to associate director and administrator of the center's Las Vegas office in 1974. He served in that capacity until moving to UMR.

**Dr. Farroll T. Wright**, associate professor of mathematics is a native of Missouri and received his A.B., A.M. and Ph.D. degrees from the University of Missouri - Columbia between 1963 and 1968.

He returns to UMR (having held the position of assistant professor of mathematics on this campus during the 1967-68 academic year) after serving as assistant and associate professor of statistics at the University of Iowa from 1968 to the present time.

At the University of Iowa he served as chairman of three Ph.D. committees and he is the author of 18 papers which have been published, are scheduled to be published or have been submitted for publication.

## Chemistry seminar

Dan Edwards, graduate student in chemistry, will conduct a seminar on "Substituent Effects and Variable Hybridization" Monday, Sept. 29, 4:30 p.m., Chemistry-Chemical Engineering 125. Coffee will be served at 4 p.m.

## Academic council meeting

Next meeting of the Academic Council is Thursday, Oct. 2, 1:30 p.m., Humanities-Social Sciences G-5.

## Physics colloquium

"Physics of Surface Acoustical Devices" is the subject of a physics colloquium Thursday, Oct. 2, 4 p.m., Physics 104. Speaker is Dr. Lewis T. Clairborne, branch chief, surface wave devices, at the Central Research Laboratory of Texas Instruments, Inc., Dallas. Coffee will be available at 3:40 p.m.

## National merit day changed

Because of a delay in receiving the list of National Merit Scholarship students, UMR's National Merit Day has been postponed from Friday, Nov. 7 to Friday, Dec. 5.

# Rolla

## Calendar

- Sept.
- 26--Physics colloquium CANCELLED, Dr. Dennis Drew, 4 p.m., Physics 104
  - Observatory open house, 8:30 to 10 p.m. (if the weather is clear)
  - Chemistry seminar, Dan Edwards, 4:30 p.m., Chemistry-Chemical Engineering 125
- Oct.
- 2--Academic Council meeting, 1:30 p.m., Humanities-Social Sciences G-5
  - Physics colloquium, Dr. Lewis T. Clairborne, 4 p.m., Physics 104



Freshman tailback, Steve Townsell, encounters a wall of defenders during the Miner's first game of the season.