

MIZZOU

W E E K L Y

University of Missouri - Columbia / July 29, 1992

As the summer session draws to a close, so does the production schedule for *Mizzou Weekly*. The next issue will be published Aug. 26, 1992.

ON THE INSIDE

Page 2 Gerald Brouder, provost and interim chancellor, 'raps' with staff.

Page 3 Hold the phone! The campus directory deadline is here.

Page 4 No increases are planned in the monthly parking fee.

Just rewards

Employee suggestion program offers \$153 cash awards for money-saving ideas.

If you have a good idea about how MU can save money and become more efficient, you may be in line for more than a pat on the back.

A good idea now may be worth a \$153 cash award — that's one dollar for every year since MU was founded in 1839 — under a new employee suggestion program open to all staff, faculty and retirees. In addition, suggestions that demonstrate a cost saving after one year will be eligible for an additional award of 10 percent of the annual savings, up to a maximum of \$1,000.

The suggestion program brought a round of applause when it was announced by Gerald Brouder, provost and

interim chancellor, at a July 16 "rap session" with staff.

"Staff are around on a day-to-day basis. We ask you to help us be-

come more efficient, tell us how this institution can save money. You might see some patterns, some things going on that are wasteful," Brouder said. "We will fund up to 100 of these good ideas with no strings attached."

"Staff are a large repository of good ideas, let's tap into it and see if we can reward you for them," Brouder said. "No idea is a bad idea. If you have an idea and you're not quite sure if it will save the institution money, send it in anyway. We'll have our experts take a look at it."

The awards will be made from MU's unrestricted gift fund. The program was developed by the Staff Advisory Council in cooperation with the MU Planning Council. For example, staff members helped work out a method that allows people to make their suggestions anonymously and still receive an award. Members from both groups will be happy to make presentations on the suggestion program for departments or groups that have questions or would like to know more about the process. To schedule a

presentation, call the Staff Council office at 882-4269.

"Staff Council is pleased to have a role in the program," said Marie Sloan, administrative associate II in the History Department and a Staff Council member who helped fine-tune the suggestion program. "It's a sign of recognition; it's a sign of respect. It tells staff that their ideas are important."

There are some guidelines: the suggestions must be workable ideas that save money or improve performance. Some suggestions are not eligible for the award program. These include duplicate suggestions, ideas that already have been tried or are under consideration, complaints, or suggestions that a current University policy be followed.

Each suggestion will receive a thorough evaluation. A copy of the evaluation will be provided to the employee who made the suggestion. Each week, the current status of each suggestion will be updated on INFORMU, Mizzou's electronic bulletin board.

The deadline for suggestions is Sept. 4. A list of program guidelines and an application form are on pages 8 and 9 in this issue of *Mizzou Weekly*. Additional copies of the application form are available at the Staff Council office, 319 Jesse Hall, or from council members.

University of Missouri

Hosts the

SHOW ME STATE GAMES

Columbia, Missouri



Rob Hill photo

President George Bush lauds the Show-Me State Games for promoting family values at an opening ceremony speech.

tried to enter the restricted area.

The past week had been frantic as Show-Me State Games and University Police staffers prepared for the presidential visit. One of the biggest concerns was security, said Jack Watring, associate director of University Police. He said that 51 officers were on duty around the Hearnes Center, in addition to a large contingent of Secret Service officers.

Vacations had been cancelled to meet the security crunch. "We had two guys out of state who we couldn't get in touch with, or they would have been here too," Watring said with a tired laugh. "We've all put in lots of hours this past week, lots of hours."

Across the street from Briscoe, members of several pro-choice groups were passing out placards and hoping to catch the president's eye as the motorcade passed. Outside the Hearnes Center, anti-abortion groups also lined up with placards to get their message across to the thousands of people who came to see the president.

John Fisher, of north St. Louis County, grabbed a smoke in the hallway of Hearnes while he waited for the ceremony to begin. Fisher had traveled to the Show-Me State Games to watch his 12-year-old daughter compete in a softball tournament. A motel in Moberly was the closest lodging they could find.

"We were coming up here anyway for the games, but this is kind of a bonus for the kids," Fisher said. "It doesn't matter who the president is; it's a once-in-a-lifetime deal when someone gets to see the president."

Gerald Brouder, provost and interim chancellor, was seated next to Bush on the speakers platform. During the introductions, the president engaged in an animated conversation with Brouder. What were the two men talking about?

"We talked about the games. He saw fit to express his concerns about Iraq," Brouder said. "It was of his own volition. He leaned over and I listened."

Into the Tiger's den

President Bush highlights opening of state games

The heat index stood at 100 degrees Friday when the jet carrying President George Bush touched down at the Columbia Regional Airport. But the steamy weather didn't keep people from flocking to the Hearnes Center, where the president gave the opening speech for the Show-Me State Games.

Nearly 9,000 people packed into Hearnes. Many of them waited for hours to hear the president and to catch a glimpse of the other dignitaries who attended. And Bush had one comment tailored for the mid-Missouri crowd. "This is the one tiger's den I'm always happy to walk into," he told the delighted crowd.

Bush said that sports — and events like the state games — helped build strong family values. "The American family is under siege today from so many forces," he said. "The family remains our most potent weapon as a

nation. America will remain first so long as we put the family first."

Many in the audience had been planning for months to attend the ceremony, but the president's visit swelled the attendance. "It was packed this time. We ended up having to close the doors," said Tim Hickman, director of the Hearnes Center. His office already was tallying up the extra expenses caused by the presidential visit. Hickman said the University would be reimbursed for those costs by the Bush campaign.

Earlier that afternoon, Sgt. Steve Briscoe of the University Police stood in the sweltering heat along Deaver Drive leading into the Hearnes Center, watching as the lines of cars and people streamed by on Stadium Boulevard. His job was to turn back anyone who

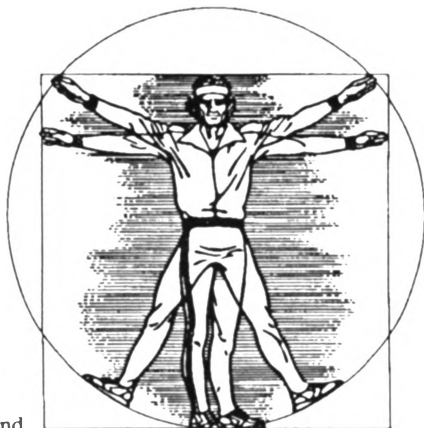
TAKE A HIKE FOR HEALTH

That's the best advice you can give someone over 50, says Roberta DeCocq, extension human development specialist in Ozark, Mo. "One great American myth is that older people shouldn't exert themselves," she adds.

Walking will improve your heart rate, breathing, muscle tone, strength and bone density. Your reaction time will be quickened, and stress and depression are lessened.

"Walking will reduce body fat, raise your good HDL cholesterol and maybe even help you make new friends," DeCocq says.

She offers these tips: warm up first, start slowly, set aside certain days and times to walk, and locate places to walk indoors in case of bad weather. "Older people, like all of us, have to set goals," she says. "They shouldn't spend their summer sitting and sipping lemonade."



WRITING FOR THE PRIZE

For the second year, editors of *The Missouri Review* are looking for entries to the magazine's Editors' Prize Contest. The idea behind the contest, says managing editor Greg Michalson, is to make contact with new writers and support their careers.

There are three categories — short fiction, essay and poetry — with one winner and three finalists selected from each category. Fiction and essay winners each receive \$1,000 awards and the poetry winner receives \$500. The winning selections will be published in the spring 1993 issue of the review. For details on entry requirements and deadlines, call 882-4474, or write to *The Missouri Review*, 1507 Hillcrest Hall, Columbia, Mo. 65211.

FAIRWAY FUN FOR MIZZOU GOLFERS

Tee up August 1 for the MU Faculty and Staff Golf Tournament to be held at Mizzou's A.L. Gustin Golf Course. The annual competition is open to all faculty, staff and retirees, and the shotgun start is at 7:30 a.m. A picnic and awards ceremony will follow the tournament. The signup deadline is noon July 31 at the A.L. Gustin club house, or call 882-6016. Foursomes will be assigned according to handicap. Entry fees are \$10, plus a \$9 green fee, and riding carts will be available.



Rap session spotlights staff concerns

Benefits and salaries were on the mind of staff members when they met with Gerald Brouder, provost and interim chancellor, at a July 16 "rap session" for staff. Nearly 100 staff members attended the informal question-and-answer session in Waters Auditorium, and in his opening remarks, Brouder praised the staff as "the glue that holds this institution together."

"The institution, as you know, is going through a fair amount of change. Fair might be an understatement," Brouder said. "The Board of Curators continues to have an agenda that sets us as an organization on a course of change."

"The whole world of higher education is changing in the country; it's not just us. There's more change to come, we just have to be ready to roll with it," he said.

One questioner asked why MU's educational assistance program, which provides a 75 percent discount when faculty and staff take courses at Mizzou, could not be expanded to include the dependents of employees.

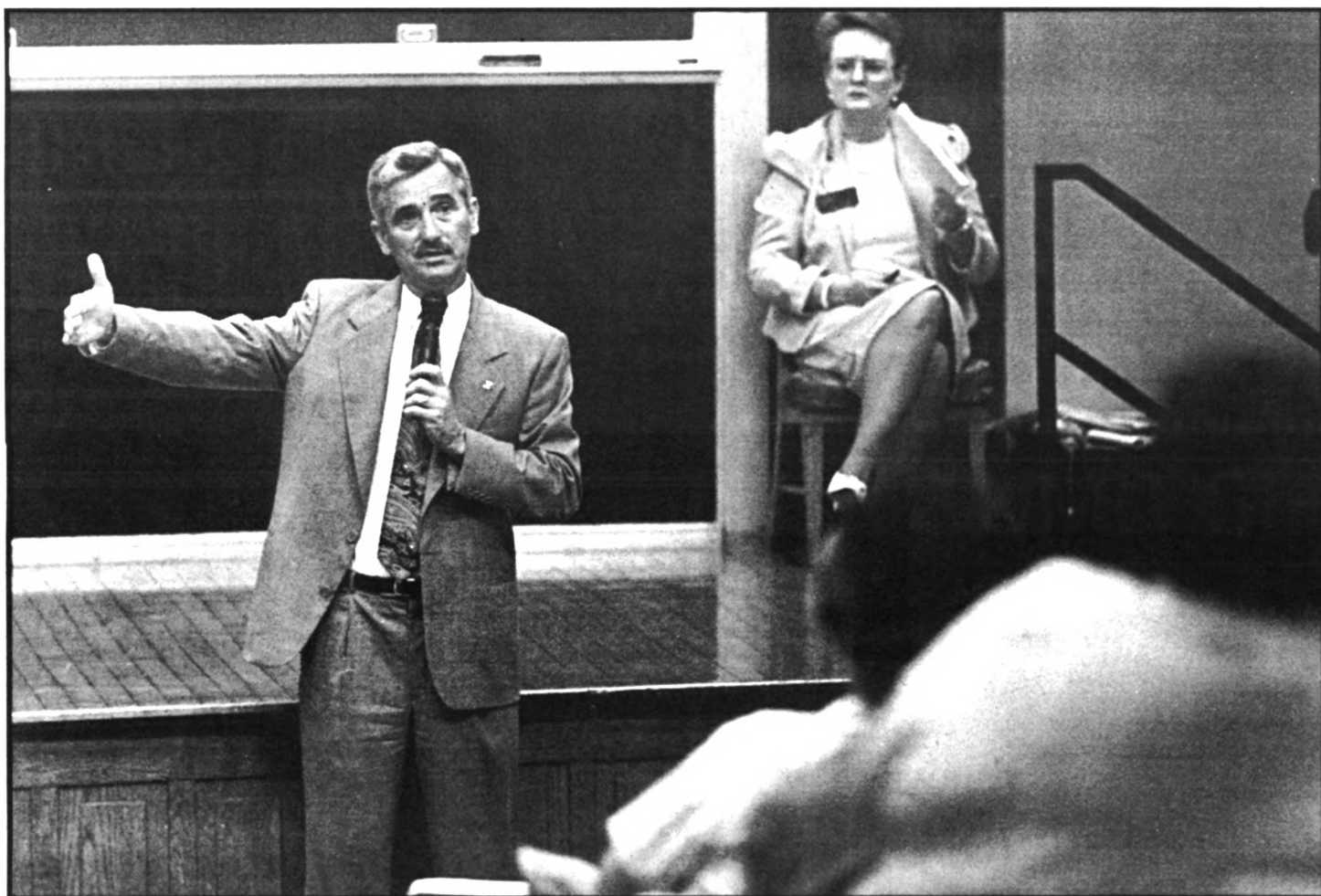
"What we have done is send a formal request to the UM System staff benefits committee asking that very question. That has gone forward now as a formal request," Brouder replied.

In response to several questions about expanding MU's benefit package, Brouder suggested that a "cafeteria plan" could be an option to meet the specific benefit needs of different employees. Under a cafeteria plan, he explained, the University would provide a certain dollar amount for each employee's benefit package. He or she then could select from a list of benefit options up to a set amount.

For example, if employees did not use the University's medical insurance program they could opt for child care, insurance to cover eyeglasses, or tuition discounts for family members.

Several staff asked why the cost of health care is increasing so rapidly, and if anything could be done to hold down medical insurance premiums. Brouder answered that spiraling health care costs are a national problem, not one unique to the University. He said that the reason University employees face a large increase in medical premiums next year is because there was no increase last year, when faculty and staff did not receive raises. The decision was made not to increase medical premiums, even though the cost of health care continued to climb.

Brouder added that University Hospital and Clinics has held discussions with Christian Health System, the company that leases Boone Hospital Center. "The discussions are to see if we can cooperate better and not have to buy all of this expensive equipment that drives up the cost of health care," he said.



Chancellor Gerald Brouder answered questions from MU staff members during a July 16 "rap session." Staff Advisory Council Chairwoman Linda Cook, right, introduced Brouder.

Rob Hill photo

In answer to a later question, Brouder elaborated on the talks between the two hospitals. "The discussions have nothing to do with the potential purchase of University Hospital," he said. "Christian is not here looking to buy a hospital or sell management services."

Brouder added that both institutions are looking at their respective strengths and specialties. "The discussions are incredibly exploratory. There is no agenda."

Another questioner asked if MU was looking at creating a child-care facility on campus. "We have been around on that issue so often," he said. "Staff Council came up with a proposal, but the cost to the institution is so great, that it flows over to a benefit. We have to be careful we don't create a benefit program that benefits only a select group." In addition to the expense of a child-care program, he added that there would be questions of liability and meeting state regulations.

One staff member questioned the disparity in pay between faculty and staff. "It's a legitimate point. Unfortunately it's a matter of market. We have to pay what the market

sets for these individuals. It's a fact of life that certain services are paid more. Look at what we pay baseball players. There is disparity, but I couldn't fix that, you couldn't fix that. It's one of those unfortunate facts of life," Brouder said.

He added that MU's five-year plan makes salary improvements one of the top priorities on campus. Next year, UM President George Russell and the Curators have set guidelines for salary increases of 6 percent for ranked faculty and 3 percent for all other employees. The campus average will be 4.8 percent, Brouder said.

"I think we're going to go above that. Not everyone — don't buy a car yet — that is an average," Brouder cautioned. "It will be based on our performance. It is not an across-the-board cost of living adjustment."

Keo Groshong, vice chancellor for administrative services, added a further note of caution. He pointed out that because there are no ranked faculty in any of the departments that report to him, he will have only 3 percent additional money for raises next year.

Another questioner suggested that annual

cost-of-living salary increases would be fairer for all employees than merit raises. Brouder disagreed and noted that University policy requires administrators to use merit as the basis for raises. Any change, he said, would have to be approved by the UM System president and approved by the Curators. "I think each of us should be paid based on how we perform," Brouder told the group. "With across-the-board raises, the rich get richer."

One person raised a concern that some staff members are taking on more job duties due to budget reallocations and early retirements. She asked if an effort will be made to reevaluate job titles to reflect increased duties. Brouder replied that the University is exploring creative ways to compensate staff for their efforts. Groshong said that some of the discussions involved incentive plans and alternative scheduling concepts that would meet peak workload demands.

Brouder noted that as provost and interim chancellor, he also has been asked to take on more duties. "The point is, we do it not because of our compensation, but because of what we feel about MU."

A SPOTLIGHT ON MISSOURI ARTISANS

A new "Best of Missouri Hands" catalog is available, and this year it features a list of shops, galleries and wineries around the state that carry Missouri products. The new catalog includes nearly 50 artisans and more than 400 handcrafted items, such as pottery, rugs, collectable dolls, furniture, glass-sculptured jewelry and crystal vases.

The catalog is a publication of the Missouri Artisans Business Development Association, a nonprofit corporation that grew out of an MU program created to help rural artisans begin and maintain their own businesses. Last year those artisans had an estimated \$16 million impact on the state's economy. Copies are available by mail for \$5 each, plus \$2 shipping and 6.475 percent sales tax from: MABDA, Drawer U, T-16 Research Park, Columbia, 65211. Call 882-9889.



A ROAR IN THE NIGHT

This year the MU Tigers will play the first night football game ever at Faurot Field when they take on the Colorado Bulldogs at 7 p.m. Oct. 8.

The 1992 Tiger home schedule is: Texas A&M, Sept. 19; Marshall, Oct. 3; Colorado, Oct. 8; Nebraska, Oct. 24; Kansas State, Nov. 14; and Kansas, Nov. 21. Businesses and groups can receive discounts of up to 18 percent when they buy more than 20 tickets. No discounts are available for the Texas A&M or the Nebraska games, but group ticket orders are still available for those games. Group ticket holders enjoy the Tiger V.I.P. Hospitality Tent and receive free parking near the tent and stadium for cars and buses. For information on group discounts call Molly McKane at 882-0362.



MIZZOU

EXPLORING ATTITUDES ON DIVERSITY

"Valuing Diversity," an interactive workshop open to all MU staff, will use role playing, panel interviews, and group discussions to increase awareness about people from other races, cultures and gender groups. Participants will be encouraged to explore their attitudes and behaviors when dealing with groups from the University and other communities.

The course will be from 8:30 a.m. to 4 p.m. Aug. 19 and will be taught by Karen Touzeau, director, and J.C. Carter, senior personnel associate, with Personnel Services/Affirmative Action. Registration is limited and the deadline is August 12.

To enroll, call Leo Agnew at 882-4859. With questions about the free program call Touzeau or Carter at 882-4256.

Staff discuss "point system"

MU's Staff Advisory Council was briefed on an attendance guideline known as the point system that covers Building Services employees. Karen Touzeau, director of Personnel Services/Affirmative Action, attended the July 23 council meeting to explain how the point system works.

Under the system, supervisors can assess points against employees who call in sick

environment, you have a lot less direct supervision and often you have no one to cover for you when you're absent," she said. "The whole issue of attendance is extremely important to Campus Facilities; it's a major management issue.

"The way I see the point system is as a management tool to assess attendance among staff. If a supervisor decides to take disciplinary action, the same procedures must be followed that apply to all staff, such as progressive discipline and appropriate notice. In fact, the points are not even acceptable information to use in the grievance procedure.

"We don't discipline employees for the number of points they might have accrued under the system. We discipline for attendance problems, for being tardy, or for unexcused absences" Touzeau said. "As I see this system, the points essentially are flags. This is a data report from management."

Mike Carter, senior research technician with the Veterinary Diagnostic Lab, brought up two concerns that he had after reading the official policy that outlines the point system. "There isn't a direct appeals process so that someone other than the direct supervisor can evaluate the assessment of points," Carter said. "You say that there are no disciplinary actions as a result of the point system, but the document gives a number of actions taken when points are accrued. I'm seeing two different perspectives, the one you just stated and the perspective the employee and the supervisor might have."

Touzeau replied that the use of the point system had to be consistent with current discipline policies that cover all University

employees. "From where I sit as a grievance officer, there is a full opportunity for appeal of the impact of the system," she said. "If a disciplinary action is taken and the point system is involved, then you have the right to use the full grievance process."

"Is there a possibility of making a change?" asked Linda Cook, council chairwoman and executive staff assistant II in Extension Administration.

"At this time, I don't believe this policy is under review," Touzeau replied.

The council also heard a report from Alan Jones, library assistant II, on the results of the Staff Council election. Jones said a total of 1,815 MU staff members had voted in the election.

In administrative/professional the new members are Ann Nadler, manager of the Student Health Center; and Marjorie Marberry, manager of budget and analysis in the School of Medicine.

In the crafts/maintenance category John Van Hook, maintenance service attendant in University Hospital and Clinics; and Kenneth Martinez, security officer II in University Hospital and Clinics were elected.

Karen Maddox, administrative assistant with Campus Dining Services is the new member from the secretarial/clerical category. Susan Coats, staff nurse II with University Hospital and Clinics, was elected to represent the technical/paraprofessional category.



Staff Advisory Council

WORKING FOR YOU

without a doctor's excuse. Although it is a departmental guideline that has not been used for disciplinary proceedings, some custodians complain that the process holds them to attendance standards that don't apply to other staff. At an earlier meeting, council members asked the administration to explain the policy.

"The policy is relatively old; it's been in place at least since 1987," Touzeau said. "It was designed to ensure consistency in terms of how supervisors reviewed and evaluated attendance." She added that the point system includes positive incentives for good attendance, and that flexibility is built into the system to allow for emergencies.

Touzeau noted that the average custodian at MU is responsible for cleaning 27,000 square feet of space. "It's not like an office

Directory changes requested

The Publications Office still needs information from the offices listed below for the 1992-93 campus telephone directory. To ensure that your listing is correct in the upcoming directory, send it today to Telephone Directory Coordinator, 407 Reynolds Alumni Center. Aug. 7 is the final date for making any changes. With questions about directory listings, call Sue Richardson, 882-7357.

Updates are needed from:

- Alumni Relations
- Center for Educational Assessment
- Chemistry
- Cooperative Institute for Applied Meteorology
- Development Office
- Educational Administration
- Eldercare Center
- Elderhostel
- Ellis Library
- Family and Community Medicine

- General Stores
- Intercollegiate Athletics
- Internal Auditing
- Missouri Seed Improvement Association
- Molecular Microbiology and Immunology
- Natural Resources
- Parks, Recreation and Tourism
- Political Science
- Practical Arts and Vocational-Technical Education (Agricultural Education, Business Education, Marketing Education, Industrial Education and Home Economics Education)
- Rural Policy Research Institute Coordinating Center
- Staff Advisory Council
- Surgery
- Telecommunications, MU
- Veterinary Microbiology
- Water Resources Research Center



Before



After

You can't tell the difference? Good. We planned it that way. When the Energy Management Office comes up with ways to save energy, the last thing we want to do is interfere with the design of a beautiful light fixture...or make a room noticeably darker...or make a building uncomfortably warm or cool. In fact, if anything, you should only notice that you are more comfortable.

You probably will never notice new high-pressure sodium outdoor lights, or photocell switches that turn outdoor lights off automatically in the daytime, or light sensors that automatically turn room lights off when the room is not occupied.

But that's OK. We hoped you wouldn't.

Campus Facilities
Energy Management
Office...



Logan bids farewell to council

In his closing remarks July 23 as outgoing chairman of the Faculty Council, Rob Logan noted that his views on some issues had changed during his term as a faculty leader. Before he turned the meeting over to the new council chairman Ed Hunvald, professor of law, Logan noted one challenge that MU faces.

"It's a good time for me to go," said Logan, associate professor of journalism. He said that over the past year, he's become convinced that the overriding goal of faculty should be to improve MU's rating in the American Association of Universities. "That disqualifies me from serving faculty with the fairness needed," Logan said, and added: "We're dangerously close to falling out of the list."

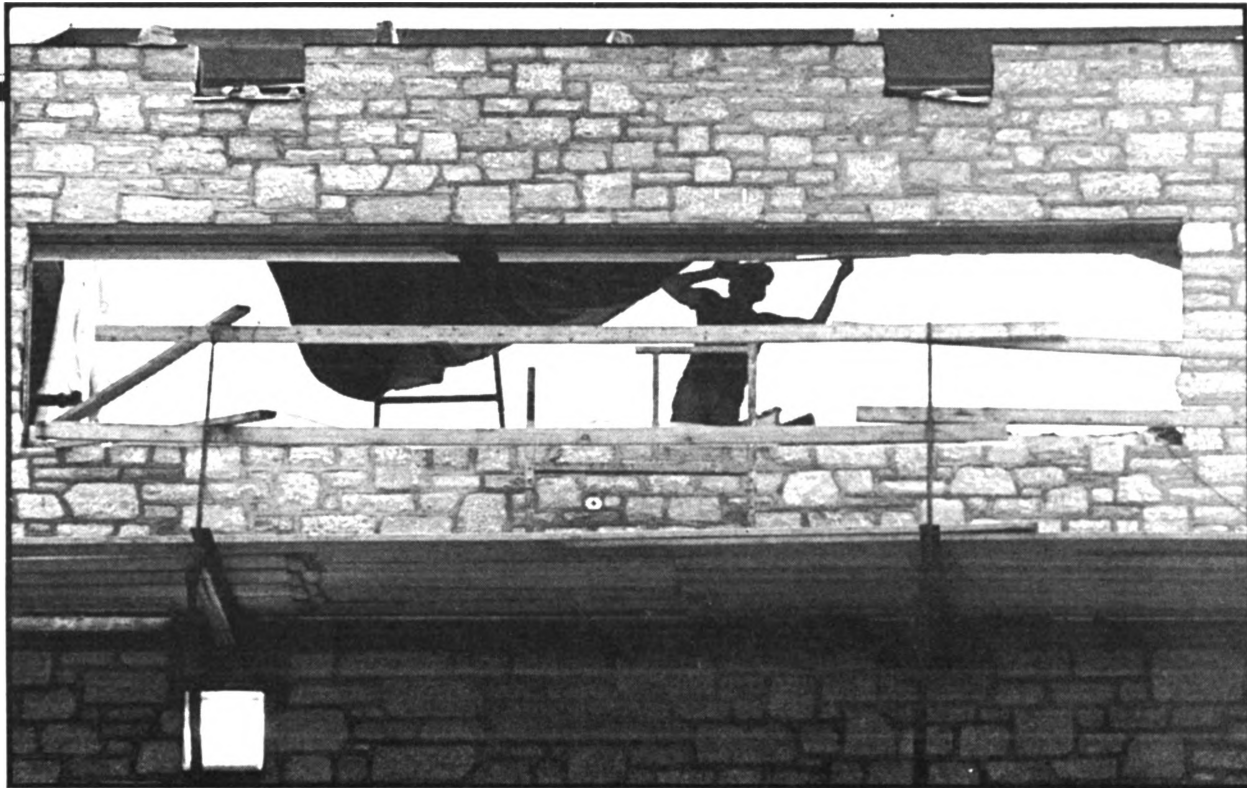
Following the meeting, Logan expanded on his remarks. Some faculty, he said, do not agree that MU should strive to become an elite institution. Those faculty argue that higher admission standards and increased tuition would be in conflict with the University's land-grant mission.

"A year ago I was open-minded about that issue. My experience in the past year has convinced me that we have no choice but to make that the overarching issue," Logan said. Because that view would be in conflict with many faculty, "it would be unconscionable to stay longer," he said. "Now I can represent myself."

In other action Faculty Council:

■ Heard from Logan that discussion was continuing on increasing diversity on two major campus planning groups. He said that Gerald Brouder, provost and interim chancellor, had agreed that the MU Planning Council and the MU academic planning committee should have more diverse representation and that Brouder was open to suggestions on how to accomplish that goal.

■ Voted to endorse a report from a UM Systemwide committee that last winter made far-ranging recommendations for improving diversity at the University. As a group, the Faculty Council had never formally acted on the report. On a motion from Jean Hamilton, associate professor of textile and apparel management, the council unanimously voted to "enthusiastically endorse" the recommendations of the report.



A workman installs ductwork atop Schlundt Annex. A \$3.3 million renovation project has raised the roof on the building, adding a fourth floor to house biochemistry laboratories.

Rob Hill photo

Parking readies for new school year

Workers are putting the finishing touches on paving and sealing projects at parking lots around campus and getting ready for the stampede of students at the start of the academic year. Unlike the past few years, the start of this school year won't mean a major relocation of faculty and staff to new parking areas because of construction projects.

The big news for faculty and staff is that no increases are planned in the monthly parking fee, says Jim Joy, director of Parking and Transportation Services. "The decision was made not to increase parking fees because of the staff pay raise situation being minimal, coupled with the increase in insurance premiums," Joy says. "With no fee increases there will be no activity on initiating another garage project. That doesn't mean we aren't going to plan for the eventual development of long-range parking projects."

Joy notes that this fall there will be a net increase of 60 parking spaces in the north central campus area compared to last year. That increase comes primarily from a new 70-space lot between Watson Place and Ninth Street near the School of Journalism.

Like all other campus departments, Parking and Transportation Services this summer completed an accessibility inventory that documents its compliance with the new Americans With Disabilities Act. Joy says his department meets all requirements of the new law. "Really, the University is probably

way ahead of where the legislation is trying to direct people," Joy says.

Also this summer, a project began to convert all remaining disabled parking spaces to a "universal" configuration that creates wider spaces to accommodate vans.

Joy says he expects to see several major agenda items for the parking and transportation advisory committee in the coming year. First, he says the committee will be looking at the role of mass transit and the campus shuttle system in relation to campus parking issues. "I think that another thing that will take place this year is we'll probably be trying to develop a better long-term maintenance program" on parking lots and garages, Joy says.

Grant to University Extension will aid manufacturers

A \$105,000 grant to University Extension from the Economic Development Administration will help breathe new life into Missouri's small and mid-sized manufacturers.

"There's a growing concern in Congress and elsewhere about America's capacity to be competitive in manufacturing in the global economy," says Tom Henderson, extension community resource development program director.

The grant will enable faculty on the four

UM System campuses and off-campus extension faculty to provide technical assistance to manufacturers with fewer than 500 employees. This assistance can include such services as data base searches for new products and manufacturing processes; on-site counseling about marketing, materials procurement, engineering design, personnel management and other areas; and patent searches.

Under terms of the EDA grant, University faculty also will provide training for local

officials in community economic development strategies.

Henderson says 5,351, or 98 percent, of Missouri's manufacturers employ fewer than 500 people. University Extension has administered EDA grants to assist small businesses for 15 years, but this is the first time the federal agency has emphasized the importance of working with manufacturers.

"We simply have to invest more in the processes that lead to competitive manufacturing," Henderson says.

CHEST PAIN?

Have you been diagnosed with coronary artery disease?

Do you have attacks of chest pain, heart palpitations, shortness of breath, dizziness, numbness or tingling?

The University of Missouri-Columbia

is looking for volunteers to participate in a study evaluating the effectiveness of new medications for chest pain and anxiety attacks in persons with a history of coronary artery disease. There is no charge for treatment.

For more information, call (314) 882-2511.

Ask for Kristina DeNeve.

RECORDS MANAGEMENT

NOTICE

Request for return of records from the University Records Center may now be transmitted to the Records Center through

CC:MAIL.

Anyone interested in requesting records in this manner should call John Larkin at 882-1449 for instructions.

Reaching out

Two MU programs designed to attract students to science.

While many educators contend that the United States is falling behind other nations in the sciences, MU graduate students are showing Missouri high school students that science can be fun.

The Graduate Outreach Workshops and the High School Demonstration Project are two University programs created to educate and attract students to the sciences. As part of these projects, graduate students visit Missouri junior high and high schools, perform demonstrations and talk about their own research.

Because the National Science Foundation has predicted a shortage of nearly one million professional scientists and engineers by the year 2010, career counseling also is a goal of both programs. "I think there is a lack of interest in science for students, even before they come to college," says Lisa Kay Naeger, a molecular microbiology and immunology student who serves as GROW coordinator. "We need more people in the scientific community to help other people understand new discoveries that may pertain to them or benefit them."

GROW program participants present information on such topics as AIDS, DNA, muscular dystrophy, ecology and cancer. The HSDP program includes demonstrations with dry ice, oscillating reactions, liquid nitrogen and the properties it inflicts upon other materials, and experiments with cathode ray tubes.

"Our main goal is to stimulate interest in science," says David Bray, founder of the HSDP. "State funding at the high school level is such that these students would likely never see any of these demonstrations of basic science."

"It's also nice because it gives students a chance to work on equipment we can't afford," says Sandy Haskins, who teaches the honors and advanced-placement biology classes at North Callaway High School. A GROW session on DNA was presented to

two of her classes in November 1991.

In addition to generating interest in the sciences, the programs can help dispel stereotypes often attached to scientists, Haskins says. "Typically, students think of scientists as older men in white coats," she adds. "It was nice to see young women doing some of the presentations."

Typically, two to four graduate students present a short talk, followed by a question-answer period open to the students. Both programs will consider invitations from high schools across the state.

GROW is funded through the Missouri Youth Initiative and is supported by the Graduate Professional Council. HSDP is funded by the Department of Chemistry, the local chapter of the American Chemical Society and the local chapter of Phi Lambda Upsilon, the honorary chemistry student organization.

MIZZOU MEATS

36 Agriculture Building (Corner of Hitt and Rollins) 882-2385 Ask for Kevin or Leo.

SALE TIMES: Thursday and Friday: 12:30-4:30 p.m.

For your convenience, call in orders on Thursday or Friday morning.

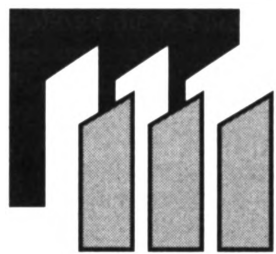
THIS WEEK'S SALE

CENTER CUT

Pork Chops \$1.89 lb.

SMOKED CENTER CUT

Pork Chops \$2.39 lb.



MIZZOU
CREDIT
UNION®

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SAME DAY DECISION

On Your Vehicle Loan

Or Your Credit Union Will Pay You!*

- ❖ applications received before 2:00 p.m.
decision SAME DAY
- ❖ applications received after 2:00 p.m.
decision NEXT DAY

OR YOU'LL RECEIVE

a \$20 gift certificate from



CONVENIENCE STORES

*Applies to vehicle (auto/truck) loans only.

Wilderness Adventures presents TEAM CHALLENGE COURSE

Bring your staff or organization together for the coming semester. Team Challenge Course consists of a series of problems or tasks to be solved through group cooperation. It combines outdoor activities with group discussion and analysis. Communication skills, conflict management, and the effective use of time are all part of this group learning experience.

Wilderness Adventures will create specific programs to meet the needs and interests of each individual group. The Team Challenge Course requires no more than adequate physical fitness to participate.

**For more information,
call Mary Jane, 882-3066**

MU Recreation/Intramurals OSD
MSA/GPC

874-1477

NCUA

(800) 451-1477

FOR THE

LETTERS RECORD

I was astounded by statements made recently regarding the possible relocation of the School of Social Work to UM-St. Louis. Interim Chancellor Gerald Brouder says such a transfer has "the potential for higher visibility, enhanced practicum opportunities and increased support." President George Russell is quoted as saying, "If everyone is using St. Louis as a laboratory, maybe it's better to be there."

The facts are these: The school is flooded with applications. It does not suffer from a lack of visibility. It has never had a problem of securing practicum opportunities throughout Missouri and in neighboring states.

St. Louis already has two schools of social work --- at St. Louis University and at Washington University. There would be severe competition for field placements if MU's school were to be transferred. Another fact: Only two field placements were made in St. Louis by MU in the past year, while 151 placements were made in other areas.

Such a transfer would be a serious loss to students, the University at large and to the state, not to mention a serious threat to national accreditation of the program. Development of a doctoral program would be seriously impeded in a new atmosphere, and the ease of access for faculty and students to work with state departments and organizations in Jefferson City would be seriously impaired.

The school also has a significant number of emeriti faculty in Columbia that it draws upon regularly for part-time teaching, research assistance, program consultation and other purposes. Most of their contributions would be lost.

In 1982, Chancellor Uehling made a concerted effort to shut down the school, which was defeated by a ground swell of indignation from this campus and citizens throughout the state. It is clear that the same lack of University administrative support exists today.

Dwight Rieman
Professor emeritus of social work

FOR SALE: Kroy 290 Lettering System, electronic with cassette drive. Includes six typediscs of various point size and 12 ribbon cartridges. Contact Mary, Department of Civil Engineering, 882-6084.

The 'For the Record' column gives MU departments and units the opportunity to advertise used or unneeded equipment for sale. There is no charge for this service. Send your notice to John Beahler at 407 Reynolds Center, or call 882-5918.

Q&A

Q. It has come to my attention that there is a University-funded vehicle, better known as the Boonville van, that is provided for certain residents of Boonville to car pool to the University to work. In these times of economic stress at MU, I would like to know why such a practice is allowed to continue.

A. The University is not providing a free ride for employees from the Boonville area, says Julia Curry, director of building services for Campus Facilities. The \$45-a-month fee that riders are charged makes the van a self-supporting operation. The arrangement has been in place since 1980, when the first van was purchased with a \$10,500 grant from the office of the vice chancellor for Administrative Services.

The program originated during the energy crisis of the late 1970s. "At the time, energy grants were readily available from the federal government," Curry says. The idea was to develop the Boonville van as a pilot project to demonstrate that University-sponsored vans would be an effective way to save energy. "We hoped after the first year to have sufficient data to make an application for federal grants to fund more vans," Curry says. "With the energy crisis ending, those

federal funds dried up. It would have been great if the grants had continued to be available; we've had interest expressed by University employees who live in other communities."

The van is not limited to Boonville residents, but serves any MU employee who lives in that area. Several riders in the 12-seat van are from Blackwater and Pilot Grove. And the van is in demand; at times there is a waiting list for the service. The monthly fee covers all the operating expenses, such as fuel, repairs, insurance and the cost of replacing the van about every four years.

"I think we're on our third vehicle now," Curry says. "As long as it supports itself, the administration doesn't have an issue with continuing it."

Send your questions about campus matters to Mizzou Weekly, 407 Reynolds Center. You must include your name and phone number so we can reach you, if necessary. All questions remain anonymous. Mizzou Weekly will not answer unsigned questions.

M I Z Z O U

PEOPLE

N. Gerald Barrier, professor of history, presented a paper on current Indian studies and vernacular materials at the Symposium on Research and Non-English Materials in April in Chicago.

Susan Porter Benson, associate professor of history, delivered a Phi Alpha Theta lecture in May in Ames, Iowa.

Richard Bienvenu, professor of history, traveled to Lafayette, La., in April to consult with Professor Mathe Allaire on the last chapters of his translation of *Les Dessus et les dessous*.

Bill Bondeson, Curators' Distinguished Teaching Professor, wrote an article, "Faculty Development and the New American Scholar," for the 1992 *To Improve the Academy*. He also gave the keynote address at the 16th annual conference of the Professional

and Organizational Development in Higher Education Network in Morgantown, W. Va.

John Cheetham, professor of music, has won the 1992 Abraham Frost competition with an original work, *Ha' Penny March*. Cheetham's work won out over 40 entries, and he received a \$3,000 prize.

Gary J. Ehrhardt, senior research specialist at the MU Research Reactor, co-wrote "Rhenium-186(Sn)HEDP for Treatment of Painful Osseous Metastases," which was published in *The Journal of Nuclear Medicine*.

Ed Lambeth, professor of journalism, gave two lectures in March at Comenius University in Bratislava, Czechoslovakia, and conferred with editors on nominees for a visiting professional award at the Journalism School for 1992-93. He also spoke with faculty members at Charles University in Prague.

Geoff Lanham, director of leisure services, and **Letitia T. Jackson**, coordinator of Project LIFE, presented "How to Beat the Presentation Blues" at the 21st annual Midwest Therapeutic Recreation Symposium in Springfield, Ill.

Geta Leseur, assistant professor of English and women studies, has received a grant from the American Council of Learned Societies for her research project, "Randolph: Arizona's Black Town and Its Women."

Howard Marshall, director of the Cultural Heritage Center and professor of art history and archaeology, presented a lecture, "Anglo-American Vernacular Architecture in Missouri," at a symposium on ethnicity in March in North Newton, Kan.

Shirley Patterson, clinical instructor in the Communicative Disorders Program, has been elected a fellow of the American Speech-Language-Hearing Association, a 60,000-member organization of speech-language pathologists, audiologists and speech scientists.

Michael C. Robbins, professor of anthropology, co-wrote a chapter, "Pattern Probability Models of Intracultural Diversity: Tobacco Smoking Among Shrimpfishermen," in *Anthropological Research: Process and Application*, published by the State University of New York Press.

Marvin L. Rogers, associate professor

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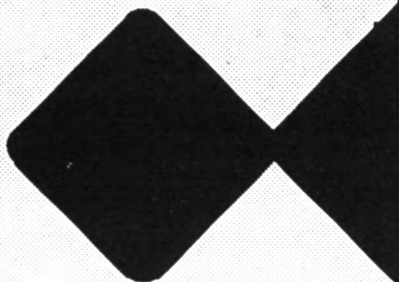
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of political science, has published a new book, *Local Politics in Rural Malaysia*.

Shivendra D. Shukla, associate professor of pharmacology, was an invited speaker at the International Conference on PAF and PAF Antagonists in March in Boston. He spoke on "Platelet Activating Factor Receptor Signalling and Gene Expression."

Charles Slivinsky, professor of electrical and computer engineering, has been named a Black & Veatch Professor by the Kansas City-based engineering company.

Barbara J. Slusher, assistant professor of consumer and family economics, has been elected president of the American Council on Consumer Interests for 1993-94.

Toni Sullivan, dean of nursing, spent most of April at the University of the Western Cape in South Africa, where she shared information on health science education and new program development.

Jean Gaddy Wilson, director of New Directions for News, and staffers **Iris Igawa**, **Joycelyn Pinnell** and **Marc Long** presented an exhibit this spring at the annual convention of the American Society of Newspaper Editors in Washington, D.C. Also at the convention, **Charles Sherman**, assistant professor of journalism, and **Yves Colon**, director of the Multicultural Management Program, made a presentation to the minority affairs committee.

The College of Agriculture, Food and Natural Resources has announced recent staff recognition awards. **Jane Link**, senior research specialist in Food Science and Human Nutrition, won the award for June. **Jacqueline Sharpsteen**, secretary in Extension and Agricultural Information, won the award for July.

Campus Facilities has announced recent employees of the month. **Kandie Martin**, senior secretary in Management Services, won the award for May. **Byron Smith**, custodian in Building Services, won the award for June.

Printing Services has announced recent employees of the month. **Rita Walther**, of composition, won the award for May. **Debbie Dickinson**, of the fiscal office, won the award for June. **Eva Benedict**, of duplication, won the award for July.

Have you been promoted, won an award or presented a paper recently? The 'People' column wants to know about it. Send your news to Terry Jordan at 407 Reynolds Center. But please be patient; we receive many entries, and publish them in the order in which they are received.

MIZZOU

W E E K L Y

Vol. 13

No. 38

A publication of the University of Missouri-Columbia faculty and staff, published every Wednesday during the academic year and twice a month during the summer by Publications and Alumni Communication, a department of Development, University and Alumni Relations Division, 407 Reynolds Alumni and Visitor Center, 882-7357. News deadline is noon Wednesday the week before publication. Annual subscriptions are available for \$20.

Editor: Terry Jordan
Assistant editor: John Beahler
Staff writer: Sue Richardson
Advertising coordinator: Michelle Burke
Graphic editor: Nancy Daniel

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Student Guide
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at the
University of
Missouri-Columbia
1992-1993

Everything a student needs to know about computing at the University of Missouri-Columbia.

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MEDIATION OR LEGAL REPRESENTATION in family matters: dissolution, post-dissolution, parenting issues, child support, name change, wills, social security disability. Call 874-7989 for more information. Lynn M. Malley, mediator and attorney.

The Classified Advertising Section is open only to faculty and staff members and retirees. A home phone number is required in all classified ads. No refunds will be given for cancelled ads.

Ads must be typed.

Rates: 30-word maximum \$3.

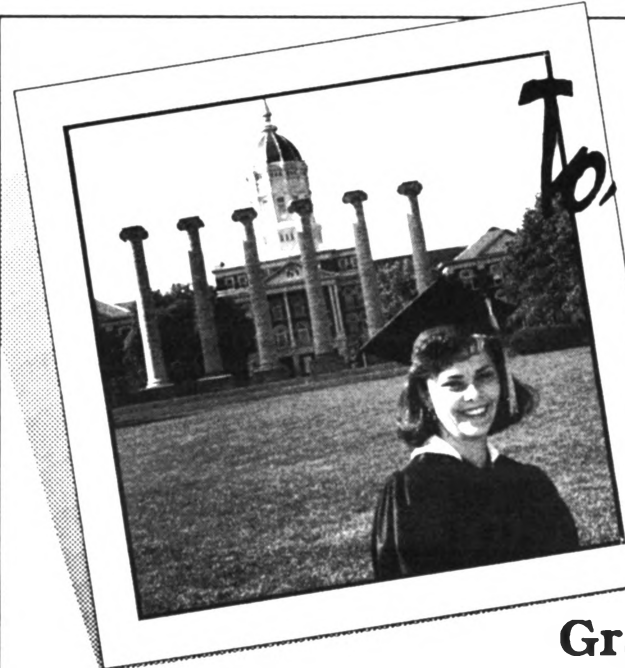
Publication deadlines:

No issues Aug. 5 thru Aug. 19

Aug. 17 for Aug. 26

Aug. 24 for Sept. 2

Mizzou Weekly Classifieds: Make your check payable to University of Missouri and send to: *Mizzou Weekly*, 407 Reynolds Center, Attention: Michelle Burke.



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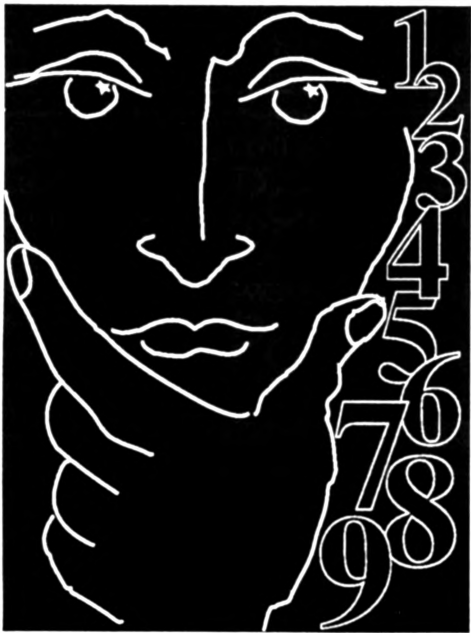
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OUR IDEAS COUNT



University of Missouri Columbia

If you have an idea or suggestion for saving money, improving processes, saving time or improving service, the Staff Advisory Council and MU planning Council want to hear about it, and we want to give you an award for generating good ideas. Please read these guidelines, complete the MU Employee Suggestion Submittal Form and mail or deliver it to: Our Ideas Count, c/o Campus Mail.

Eligible Suggestions

- ★ Suggestions must define an improvement and recommend a specific solution or propose an opportunity and a means of implementation.
- ★ Suggestions must be submitted on a completed "MU Employee Suggestion Submittal Form" (See adjoining page)
- ★ Suggestions must be original and fully described.
- ★ Suggestions can be submitted by any full-time, part-time, temporary or retired MU employee.

Ineligible suggestions

- ★ Suggestions which duplicate those submitted by another MU employee or retiree. In the event of duplicate suggestions, the first one received will be eligible for the program.
- ★ Suggestions that are illegible or incomplete
- ★ Suggestions previously implemented or under prior consideration
- ★ Suggestions which are complaints or those which call attention to a problem but do not offer an acceptable solution
- ★ Suggestions which propose following an existing University policy or procedure or state, federal or local laws or ordinances.
- ★ Suggestion of routine repairs, maintenance, or housekeeping, unless such suggestions contribute to the solutions of an on-going maintenance problem.
- ★ Suggestions which violate state or federal laws, or University policies.

Awards

Suggestions which result in increased efficiency, improved performance, resource conservation, cost savings, or the elimination of wasteful practices within MU's operations will be eligible for a monetary award. An award of \$153 will be provided for suggestions which are deemed feasible and slated for implementation. Suggestions, which after one year of implementation have demonstrated a tangible net general operating cost savings, (or net additional revenues) will be eligible for an additional award of 10% of annual savings, up to a maximum of \$1,000. In order to be eligible for the additional 10 percent award you must continue to be an employee of the University or a retiree. Individuals who have made award-winning suggestions will be recognized in Mizzou Weekly, and at Staff Recognition Week.

Evaluation and Confidentiality

Suggestions will be accepted for evaluation until September 4, 1992. Suggestions will be evaluated for eligibility by the combined group of MU Planning Council Subcommittee and representatives of the Staff Advisory Council. Eligible suggestions will be evaluated for feasibility by the applicable organizational unit. The identity of the suggestor will not be included in the evaluation process. If clarification or further elaboration is necessary for a proper evaluation, a designate of the combined group will coordinate communications while protecting the identity of the suggestor. Since MU's electronic bulletin board, INFORMU is the least costly method of disseminating the information, the status of the suggestion will be posted on INFORMU each week. Suggestors will be informed of the outcome of the evaluation and be provided with a completed copy of the evaluation form.

Anonymity

You may submit your suggestion anonymously (by leaving the lower portion of the form blank) and hand deliver it to Campus Mail, 310 Watson Place. You will receive a code number and further instruction on how to monitor the status of your suggestion. If your suggestion becomes eligible for an award, you must reveal your identity to receive the award. You may ask that your identity not be included in recognition publications or ceremonies.

OUR IDEAS COUNT



UNIVERSITY OF MISSOURI-COLUMBIA EMPLOYEE SUGGESTION SUBMITTAL FORM

FOR OFFICE USE ONLY

Number _____

Date _____

EMP? _____ DUP? _____

Suggestion Title	To which departments/divisions does this apply?
------------------	---

PLEASE BE AS SPECIFIC AS POSSIBLE. (ATTACH A SEPARATE SHEET IF NECESSARY)

Describe present method, problem or situation that needs to be improved and why.

What solution/improvement(s) do you suggest? State advantages and disadvantages.

How will implementation of this idea increase income, reduce costs or enhance operations? (Show any calculations)

Note: you can make suggestions anonymously. Stop here & hand-deliver to Campus Mail Services, 310 Watson Place.

Name (First, MI, Last)	Title	Social Security Number
Department	Campus address	Phone number

I certify and agree that this suggestion is submitted for consideration under the terms and conditions of the MU Suggestion Program. I have read the eligibility requirements and I agree that the University of Missouri shall have the exclusive right to determine the amount of the award. My suggestion shall become the exclusive property of MU to make full use of it. My name and picture may be used in publicity. The suggestion is my/our own idea. I/we will be the sole recipient(s) of the award.

COLLABORATING SUGGESTOR INFORMATION (ATTACH ADDITIONAL SHEET IF NEEDED)

Signature	Date	Name	Social Security Number	Signature
-----------	------	------	------------------------	-----------

MAIL OR DELIVER TO: OUR IDEAS COUNT, C/O CAMPUS MAIL

CALENDAR

Send calendar items in Campus Mail to Michelle Holden, 407 Reynolds Center, by noon Wednesday the week before publication. Events are free and open to the public unless otherwise noted.

29 Wednesday

BIOCHEMISTRY SEMINAR: Kristina Detmer, of the V.A. Medical Center in San Francisco, will speak on "The Hox-2 Locus in Development: A Preliminary Report" at noon in Ma217 Medical Sciences Building.

MIDDAY GALLERY EVENT: David Allison, a graduate student in art, will present "Personal Work: Photographs and Serigraphs, 1972-92" at 12:15 p.m. at the Museum of Art and Archaeology.

SUMMER REPERTORY THEATER: The musical *Cabaret* will be performed at 8 p.m. at the Rhynsburger Theater. Cost: \$15 student season or \$7 single tickets; \$17 faculty/staff season or \$8 single tickets; \$19 public season or \$9 single tickets.

30 Thursday

BOARD OF CURATORS: Group will meet today and July 31 at the Reynolds Center.

SUMMER REPERTORY THEATER: *Ordinary People*, a drama, will be performed at 8 p.m. at the Rhynsburger Theater. Cost: \$15 student season or \$7 single tickets; \$17 faculty/staff season or \$8 single tickets; \$19 public season or \$9 single tickets.

31 Friday

SUMMER REPERTORY THEATER: *Sherlock's Last Case*, a thriller, will be performed at 8 p.m. at the Rhynsburger Theater. Cost: \$15 student season or \$7 single tickets; \$17 faculty/staff season or \$8 single tickets; \$19 public season or \$9 single tickets.

LAWS OBSERVATORY: The observatory, atop the Physics Building, will be open from 9-11 p.m. for public viewing of the skies, weather permitting.

August 1 Saturday

SUMMER REPERTORY THEATER: The musical *Cabaret* will be performed at 8 p.m. at the Rhynsburger Theater. Cost: \$15 student season or \$7 single tickets; \$17 faculty/staff season or \$8 single tickets; \$19 public season or \$9 single tickets.

2 Sunday

VOLKSMARCH WALK: Sponsored by the Show-Me State Games, a five-mile recreational walk along Columbia's MKT Trail for everyone from infants to grandparents. Registration at Katy Station from 8 a.m. to 1 p.m. Marchers begin at 8 a.m. and must complete the route by 4 p.m. With questions call 882-2101.

5 Wednesday

FIELD DAY: A three-day grazing school will be at the Forage Research Center in Linneus, Mo. Fee required. Call 882-7488 for reservations.

MIDDAY GALLERY EVENT: Christine C. Neal, associate curator of European and American art, will present "The Human Form Revealed" at 12:15 p.m. at the Museum of Art and Archaeology.

6 Thursday

FIELD DAY: "Crops and Forage Field Day" will be at the Pennewell Farm, Palmyra, Mo. Call 882-7488.

EXHIBITS

BINGHAM GALLERY: "Recent Stage Design from the National Theatre Institute in Bratislava, Czechoslovakia," covering classical stage, drama, pantomime, opera and ballet performance, is on display through Aug. 1. Hours: 10 a.m.-4 p.m. Monday through Friday and 1-5 p.m. Sunday. The gallery is in the Fine Arts Building.

JESSE HALL: "Principles of Conservation," which deals with the conservation of art pieces, is on display on the second floor through Sept. 15.

MEMORIAL UNION: "The Public Journal Is a Public Trust," an exhibit about the School of Journalism, is on display in the south wing exhibit cases through October. The exhibit was prepared by University Archives, with cooperation from the School of Journalism Museum.

MUSEUM OF ART AND ARCHAEOLOGY: The exhibits "Twentieth-Century German Prints" and "All That Creepeth Upon the Earth: Animals in Art from the Ancient World" are on display through Aug. 2. The exhibit "Focus on the Figure: Twentieth-Century Nudes from the Permanent Collection" will be on display July 11-Sept. 20. The museum, in Pickard Hall, is open from 9 a.m.-5 p.m. Tuesday through Friday and noon-5 p.m. Saturday and Sunday.

STATE HISTORICAL SOCIETY: "The Aboriginal Portfolio," by James Otto Lewis, is on display in the gallery; works by Carl Gentry are on display in the north-south corridor; and "Decades: 1882-1972, Editorial Cartoons" is on display in the east-west corridor, all through August. The gallery, in the east end of Ellis Library, is open from 8:30 a.m.-4 p.m. Monday through Friday. The corridors are open from 8 a.m.-4:30 p.m. Monday through Friday and 9 a.m.-4:30 p.m. Saturday.

UNIVERSITY HOSPITAL: "Art for Life," featuring works by University Hospital and Clinics staff members, includes paintings, drawings, baskets, jewelry, photography and stained glass. On display through Sept. 30 in the main lobby concourse.

7 Friday

EIGHT-WEEK AND SECOND FOUR-WEEK SUMMER SESSIONS CLOSE

COMMENCEMENT: The combined undergraduate and graduate ceremony will be at 4 p.m. at the Hearnes Center.

EMERGENCY MANAGEMENT CONFERENCE: Registration begins at 6 p.m. for the Mid-America Emergency Management Conference at Adam's Mark Hotel in Kansas City. The conference continues through Aug. 9 and the cost is \$75. Call 882-4735.

HEARNES CENTER: The rock group Tesla will make their first Columbia appearance at the Hearnes Center beginning at 7:30 p.m. To order tickets at \$18.50 and \$19.50 call 882-7625.

LAWS OBSERVATORY: The observatory, atop the Physics Building, will be open from 9-11 p.m. for public viewing of the skies, weather permitting.

10 Monday

HAZARDOUS WASTE MANAGEMENT SUMMER INSTITUTE: The institute includes two sessions: "Introduction to Hazardous Waste Management," Aug. 10-12, and "Hazardous Waste Management Update," Aug. 13-14. Cost: \$695 for both sessions; \$525 for the first session; \$300 for the second. To register, call 1-800-776-1044.

12 Wednesday

FIELD DAY: Event will be at the Greenley Center in Novelty, Mo. Call 882-7488.

13 Thursday

STAFF COUNCIL: Group will meet at 1:15 p.m. in S110 Memorial Union.

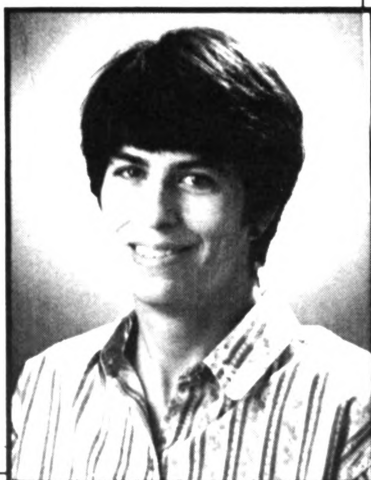
Congratulations
to the College of Agriculture,
Food and Natural Resources
June Employee of the Month

■ ■ ■
Jane Link

Senior Research Specialist
Food Science & Human Nutrition

This award is to promote excellence in performance and attitude and to recognize outstanding staff for their service and support of the College, the University of Missouri-Columbia and its mission.

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The Newcomer Nurse at University Hospital and Clinics is the one to see if you need help finding a physician, transferring your medical records, or you just want a question answered. Stop in and visit with our Newcomer Nurse, Jane Cooper, RN., at the Health Information Center at Columbia Mall. Or give Jane a call at 882-4736.

She even makes house calls!

 University
Hospital & Clinics
The Staff for Life

14 Friday

SUMMER VIDEO SERIES: Wim Wenders' *Paris, Texas* will be shown at 6 p.m. at the Museum of Art and Archaeology. A discussion will follow.

LAWS OBSERVATORY: The observatory, atop the Physics Building, will be open from 9-11 p.m. for public viewing of the skies, weather permitting.

20 Thursday

MU ALUMNI ASSOCIATION: The executive committee will meet today and Aug. 21, beginning at 1 p.m., at the Reynolds Center.

21 Friday

LAWS OBSERVATORY: The observatory, atop the Physics Building, will be open from 9-11 p.m. for public viewing of the skies, weather permitting.

22 Saturday

UNIVERSITY SINGLES: Group will have a potluck dinner at 6:30 p.m. Call 443-1601 or 875-4680.

24 Monday

FALL SEMESTER BEGINS



Send to Michelle Holden, 407 Reynolds Center, by noon, Aug. 26

MIZZOU WEEKLY FALL SEMESTER CALENDAR SEPT. 2

Event date

Event title

Speaker or performer (include professional title, university or company affiliation)

Time

Location

Ticket or cost information

Event sponsor

Is event open to the public? If not, who may attend?

Submitted by

Phone number

*You are cordially invited
to the farewell reception for*

*Beverly Blackwell
Manager of Telecommunications*

*at the
Reynolds Alumni Center*

*on
August 12, 1992
from*

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MU research links vitamin A deficiency to cigarette smoke

Smokers who get enough vitamin A in their diets still may suffer a deficiency of the vitamin at the tissue level, an MU researcher has found. This deficiency may make some individuals more susceptible to smoking-related cancers in the lungs and other organs.

The findings also may support a nutritional approach to cancer prevention, such as a diet that includes foods rich in beta carotene, a nutrient that the body converts to vitamin A.

Scientists have tried for several years to link below-average dietary intake of vitamin A to certain cancers. One reason for the interest is that tissues with vitamin A deficiency have microscopic features that resemble cancer, says Thomas Edes, associate professor of medicine. These features may make a tissue more susceptible to the action of carcinogens.

But this information baffled MU research scientists because most people — and most cancer patients — do not have vitamin A-deficient diets, Edes says.

"There are enzyme systems — in the lungs and in every place where our bodies are in contact with the environment — that get turned on or induced by products in cigarette smoke," he says. "Carcinogens activate these enzymes, and these enzymes will detoxify the carcinogens in most incidences. But they also metabolize other things. We believe that they break down vitamin A at a more rapid rate."

In two studies, Edes fed laboratory rats an oral form of benzopyrene, the principal carcinogen found in cigarette smoke, along with a diet sufficient in vitamin A. He looked at the intestines, liver and lungs, all of which contain similar enzyme systems that respond to environmental stimuli. Vitamin A levels in those tissues declined in rats fed benzopyrene compared to those not fed the carcinogen. Over the same six-week period, the levels of vitamin A in the blood remained normal. Physicians commonly use blood samples to measure vitamin levels in the body.

From those studies, Edes surmised in an International Journal of Cancer article that benzopyrene caused depletion of vitamin A in vulnerable tissues despite a vitamin A-sufficient diet and system deficiency.

"The carcinogen probably doesn't increase the utilization of vitamin A in the tissue," Edes says. "But it somehow impairs repletion, preventing vitamin A from reaching the tissue."

Edes currently is looking at human lung tissue from smokers and non-smokers to see if benzopyrene in its most common form, cigarette smoke, affects vitamin A levels in the lungs. Benzopyrene also is found other places in the environment including industrial exhaust and charcoal-grilled foods. Edes says other carcinogens may affect the body in similar ways as benzopyrene.

According to several recent studies, beta carotene, a precursor of vitamin A found in

yellow vegetables and leafy, dark green vegetables, may have more cancer-protective effect than vitamin A. An article by Edes in Nutrition and Cancer showed that high doses of beta carotene eliminated the vitamin A-depleting effect of benzopyrene. In a separate study, Edes found that beta carotene-activated enzymes reduce the toxic effects of carcinogens. Taking megadoses of vitamin A — which can be toxic — certainly is not the answer for cancer prevention, Edes warns. Beta carotene appears to be safe in any amount because the body limits conversion of it to vitamin A. However, he advocates eating carotene-rich foods like carrots and squash as a source rather than taking vitamin supplements. Growing evidence show that beta carotene has properties independent of vitamin A that are protective against certain human cancers.

Announcing
The University Club's

Wine Tasting Series

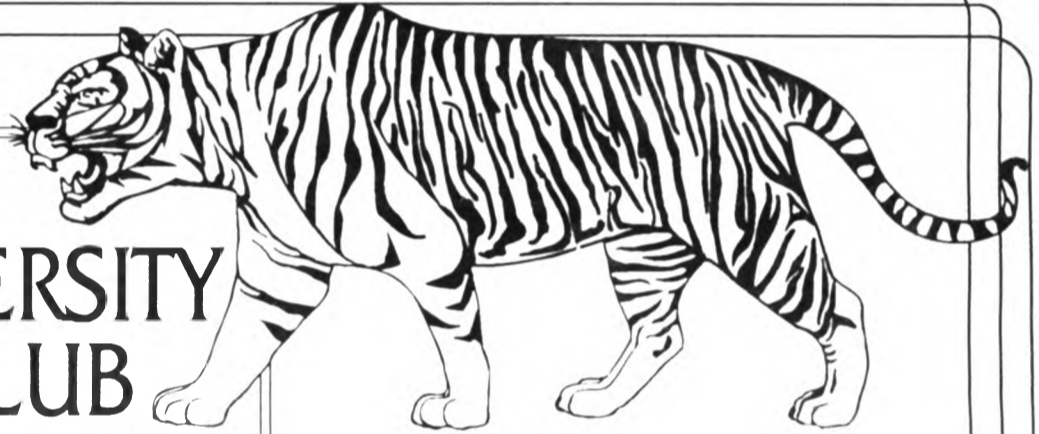


"The Other White Wines"	Aug. 20	6-8 p.m.	\$10 per person
"Missouri State Fair Award Winners"	Sept. 23	6-8 p.m.	
"Light Red Wines"	Oct. 15	6-8 p.m.	
"Wines for Your Thanksgiving Feast"	Nov. 12	6-8 p.m.	
"Sparkling Holiday Wines"	Dec. 10	6-8 p.m.	

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The lounge is open from 4-9 p.m., Monday through Saturday.

Located on the second floor of the Donald W. Reynolds Alumni and Visitor Center. Payment by check or cash.
For more information, call 882-ALUM (2586) or The University Club Lounge at 882-1414 (4-9 p.m.).

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