



# Mizzou Weekly

**Hope or Hype?**

MU researchers put Effective Microbial technology to the test.  
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**King of the Turf**

"Frosty" Frost makes sure that Faurot Field is lush and green.  
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**EnDOWment**

Dow's multimillion dollar gift of patents will fuel commercial product development.  
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**August 31, 2000**

University of Missouri-Columbia

*Don't forget the Town & Gown Campus Picnic from 11:30 to 1 tomorrow on the South Quad.*

## Suite retreat

**PURE ELEGANCE**

New press box's amenities include 35 private suites

Combine fifth-row center with the 50-yard line and you get luxury suites at Faurot Field with a sky-high view.

MU's newly renovated and expanded four-level press box will be unveiled at the Tigers' Sept. 2 season opener against Western Illinois. "We believe the stadium is attractive with some of the enhancements we've made, including the scoreboard," says Eric Morrison, coordinator of suite operations. "The press box adds the last touch to making it a great facility."

The completed structure spans the entire west side of Faurot Field and measures 321 feet, three times the length of the old 1960s-era press box. Included in the \$13.1 million expansion are 35 private suites throughout the four levels. Well-heeled fans willing to sign a five-year commitment grabbed the luxury boxes for an average of \$37,000 annually, plus the cost of season tickets. This sweet deal gives leaseholders: a club area, 16 seats, refrigerator, cable television, air conditioning and

heating, motorized windows, and telephone and data jacks, priority parking and buffet meals on game days.

Since suite sales and revenue bonds are footing the bill, fans will not see a raise in ticket prices for this venture, Morrison

says. "To do so would be taking advantage of the fans who never would use it."

The upcoming football season will be MU's fifth in the Big 12 Conference. Although competitors like the universities of Texas and Nebraska also are building new facilities or expanding old ones to include private suites, Morrison says the athletic department is not

necessarily competing with other programs. "Our expansion is long overdue," he says. "We are aware of what others are doing, but more than anything, we are trying to bring our own facilities up to the standard that will set up Mizzou as being an elite program, not only in the Big 12 but nationally."



Rob Hill photo

**SKY-HIGH**

New press box is one facet of an athletic facilities upgrade that will place MU among elite schools of the Big 12 Conference.

**PRESS BOX FACTS**

- Total project cost:** \$13,153,708
- Square footage:** 56,800 GSF
- Concourse Level:**
  - upgraded lobby area
  - Plaza of Champions
  - Improved sidewalks and ramps
- Club Level:**
  - Tiger Lounge (481 seating positions)
  - Eight suites (12 fix seats and 4 stools)
  - Pantry for concessions
  - Two each men's and women's restrooms
  - Balcony overlooking Brookfield-Taylor complex
- Suite Level (Black and Gold Level):**
  - 18 suites
  - Pantry
  - Two each men's and women's restrooms
- Press Level:**
  - Home and visiting athletic directors' suites
  - Six standard suites
  - Two each men's and women's restrooms
  - Pantry
  - Balcony overlooking Brookfield-Taylor complex
  - 147 seating positions in three tiers for working press
  - Pantry
  - One booth each for scoreboard and P.A./video operations
  - Workroom and Darkroom
- Photo Deck Level:**
  - Television broadcast booth
  - Home and visiting radio

**See Facts on page 8**

## Talking about tenure

**PLAIN SPEAKING**

Faculty Council will sponsor open forums on post-tenure review early this fall

A draft proposal that explores possible approaches to a post-tenure review policy for the UM System sparked considerable discussion at last week's meeting of the MU Faculty Council.

The process was initiated last fall, when UM President Manuel Pacheco appointed a faculty committee with representatives from each of the University's four campuses to develop a post-tenure review plan.

A draft of the committee's plan was released this May, and the administration asked faculty

to comment on the proposal. That draft plan outlined the following post-tenure review process:

- Faculty will submit annual reports on their research, teaching and service. That report will be reviewed by department chairs.

- Every five years, those annual reports will be compiled and reviewed by department chairs, who will evaluate a professor's performance as satisfactory or unsatisfactory.

- If performance is unsatisfactory, the proposal calls for departments to develop a three-year "professional development plan" to help that faculty member improve.

- If performance is still unsatisfactory, the campus committee on tenure and promotion and the provost will review the case. They may recommend an extension of the professional development plan or dismissal for cause.

After hearing input from faculty, the post-tenure review committee will make its recommendation to President Pacheco in late fall. The proposal would then go to the Board of Curators no earlier than the December 2000 board meeting.

Russ Zguta, chair of MU's Faculty Council, said the council expects to hold faculty forums "as soon as possible and as broadly as possible to engage faculty at large in a discussion of the post-tenure review proposal."

MU faculty were represented on the Systemwide committee by Hildegard Heymann, professor of food science and engineering; Dennis Sentilles, professor of mathematics; and Eddie Adelstein, associate professor of pathology.

This spring they met four or five times with colleagues from other UM campuses. The group had "heated discussions all over the map about all kinds of things," Heymann said, but the general consensus was that "it takes a long time to get tenure; it should take a long time to be decided you're not worthy to continue tenure."

As part of their discussion, the group looked at how other institutions around the country

were handling post-tenure review. "The model we ended up with has bits of all of them in it," Heymann said. She also stressed that the draft proposal "is not in and of itself a dismissal document."

A number of council members asked if there were any data to support the notion that there actually is a problem with unsatisfactory job performance by tenured faculty.

Sentilles said there are no national data on how many tenured faculty are turning in a sub-par job performance. He added that a "seat-of-the-pants estimate is that 2 percent of faculty are not performing and harm the institution in one way

**See Faculty on page 5**



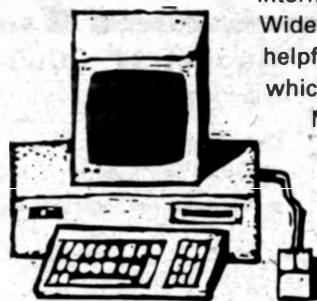
**Planning and developing web-based instruction**

Educational Technologies at Missouri (ET@MO) is sponsoring MU's first online course for faculty on web course development. This asynchronous web course offers a practical, applicable, hands-on approach that takes you—as a novice or with some experience—through all the steps of high-quality course development.

The course runs for six weeks and is open to all MU

faculty at no charge. Topics will include both the practical and the pedagogical issues for web-based instruction.

Previous knowledge of the Internet and World Wide Web will be helpful. The course, which is open only to MU teaching faculty, begins Sept. 6 and runs through Oct. 20. The instructor is Margaret Gunderson from ET@MO. Enrollment is limited. To learn more about this new online course and to enroll,



visit ET@MO's web site at: <http://etatmo.missouri.edu>

**The ABCs of early cancer detection**

There are three forms of skin cancer: basal cell carcinoma, squamous cell carcinoma and malignant melanoma. If a lesion should develop, it is almost totally curable if caught in the early stages. This is why periodic self-examination of the skin is very important.

Experts at MU's Health Sciences Center offer these ABCs of skin cancer detection:

**A is for asymmetry.** Most benign moles tend to be symmetric. Melanomas, on the other hand, tend to be asymmetrical.

**B is for border.** Benign moles usually have a very clear-cut border. Early melanomas tend to have a notched, irregular or indistinct border.

**C is for color.** While benign moles can be light or dark, they typically have a uniform color. In contrast, early melanomas have an uneven color. Most melanomas, in addition to the ABC characteristics, have a diameter greater than 6 millimeters.

**Internet2 Fair**

The UM System is hosting an Internet2 Application Fair Sept. 18 at Ketcham Auditorium in the Engineering Building East.

The goal is to build faculty, staff and student interest in advanced networked applications by highlighting local, state, and national Internet2 projects.

Internet2 is a consortium being led by over 170 universities – including MU – working in partnership with industry and government to develop and deploy advanced network applications and technologies, accelerating the creation of tomorrow's Internet.

Applications for Internet2 range from the humanities to the sciences. Research that requires interactive collaboration and instruction, real-time access to remote

**Technology transfer**

**POISED FOR SUCCESS**

Dow's multimillion dollar gift of patents will fuel development of commercial products

Last week, Mizzou announced a gift of 11 United States patents, worth \$3.6 million, from the Dow Chemical Company.

MU will develop the patented technology, now in the form of chemical compounds that display nonlinear optical properties, into devices that will be used for applications in high-speed computers, telecommunications and modern internet hardware.

This technology will directly benefit American businesses, organizations, the medical field and households.

"Dow is pleased to donate this technology to the University of Missouri," said Rick Gross, the company's vice president for research and development. "In doing so, we are placing the technology in the hands of skilled scientists who were involved with Dow in the early technology development steps through a cooperative research agreement, and who can make further advancements."

MU plans to develop the chemical compounds into

commercialized products that will increase speed for the telecommunications industry. The patented materials are used in devices, such as fiber optic networks, that use light rather than electricity to transmit data.

optical fiber networks.

"Nonlinear optics is a new frontier of science and technology, the progress of which depends on active multidisciplinary research from chemists, physicists, material

engineer new molecules that exhibit nonlinear photonic properties. At MU, we are poised for success because of our deep interest in and commitment to interdisciplinary research."

The University will investigate several options for the new technology. As a result, several different applications are likely to emerge. For example, nonlinear optical materials can be used to develop new computer hardware that will improve data handling, storage and transmission — a necessity for complex applications used in human genome research. This will enable researchers to discover new therapies for deadly diseases such as cancer.

Tom Sharpe, executive director of MU's Office of Technology and Special Projects, said MU is entering a new era of industrial interest. "An early collaboration with Dr. Katti led to Dow's selecting MU for this gift," Sharpe said.



**"Such collaborations strengthen the research enterprise of the University and often lead to discoveries that have practical value for people and businesses, thus contributing to the economy of our state and nation."**

—Tom Sharpe, Director of MU's Office of Technology

Nonlinear optical materials have the potential of allowing communication systems to take full advantage of high-speed data transmission offered through

scientists and engineers," said Kattesh Katti, associate professor of radiology.

"Chemists will play a pivotal role because of their ability to

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**Dr. Gary L. Smith**

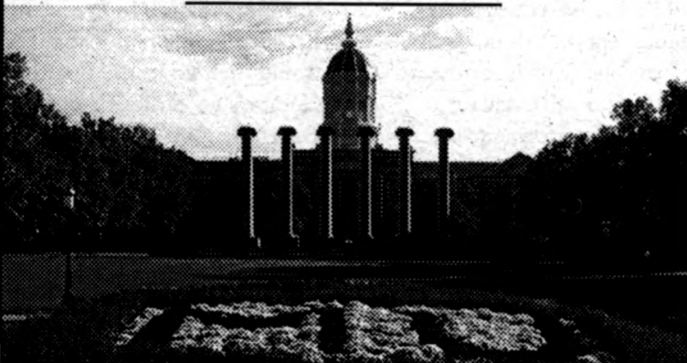
*Director of Admissions and Registrar at a reception honoring his retirement after 33 years of dedicated service to the University of Missouri-Columbia*

**Friday, September 15, 2000**  
5:00 - 7:00 pm.

*Stotler Lounge in Memorial Union*

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*Please send your letter or note by September 7 to*  
*University Events, University of Missouri-Columbia,*  
*320 Jesse Hall, Columbia, MO 65211*



**MizzouWeekly**

**Volume 22 No. 2**

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scientific instruments, shared virtual reality, or multi-media services can benefit from Internet2.

There is no cost to attend, but pre-registration is required. You can register online and see the full agenda for the meeting at: <http://www.system.missouri.edu/internet2/>

Are you involved in an Internet2 project? If you're interested in presenting your project at the fair, contact Gordon Springer, associate professor of computer engineering and computer science, at 882-7422, or e-mail [springerg@missouri.edu](mailto:springerg@missouri.edu)

### A birthday boy

It's hard to believe, but Mizzou's favorite ambition-challenged cartoon character has reached middle age and he's still an Army private. That's right, Beetle Bailey, the creation of MU alumnus Mort Walker, will officially turn 50 on Sept. 4. To commemorate the 50th anniversary of the Beetle Bailey comic strip, University Archives has created a new online exhibit.

The idea behind this cartoon loafer extraordinaire was hatched while Walker was a student at MU in the late 1940s, drawing cartoons for the Showme humor magazine and hanging out at the Shack,

a legendary campus beer joint across from Jesse Hall.

The archives' online exhibit includes a brief history of the cartoon character and its creator. It also features historic photos of the Shack from its first days in the 1920s, when the Davis family parked their house car on a vacant lot on Conley Avenue and started selling sandwiches. For a link to this and other University Archives exhibits go to: <http://www.system.missouri.edu/archives/exhibitlist.html>

### Mizzou staff cycle

Would you like to enjoy a pleasant summer evening in the great outdoors, get a little

exercise and meet other members of the University community at the same time? Then grab your helmet, pull your bike out of the garage and check out the weekly MU staff bicycle ride.

The one- to two-hour ride down the city's MKT Parkway gets under way every Wednesday evening at 6 p.m., weather permitting. Riders meet in the University parking lot at the corner of Providence and Stewart roads, just south of the MU power plant.

The idea originated with John Konzal, a manuscript specialist with the Western Historical Manuscripts Collection, as a way for MU

staff to get together socially. On such a large campus, he says, "sometimes you don't really know who you're working with or among. This is a chance to meet staff members that normally you might never see."

The goal is a leisurely jaunt with MU colleagues, not an endurance test for trail warriors. "If people want to come out and just do a part of the ride, that's fine," Konzal says. "It's pretty open-ended; it's really whatever people want to do. We're happy to welcome everyone who's interested."

## Making sense of 'miraculous microbes'

### HOPE OR HYPE?

MU researchers put Effective Microbial technology to the test

According to its enthusiasts, Effective Microbial (EM) technology can strengthen concrete and the human immune system, keep food fresh without refrigeration, increase the growth of crops and livestock, eat nuclear waste and, in the words of Teruo Higa, "solve all the shortages in this world."

Higa, the founder of the EM movement and professor of horticulture at the University of the Ryukyus in Okinawa, Japan, visited the MU campus August 11-12 for a conference on Pathways to Environmental and Agricultural Sustainability.

EM is a sort of fermented

microbial soup that combines about 80 known beneficial microorganisms. Extravagant claims about the benefits of EM, unfortunately, are largely anecdotal.

Researchers at MU are conducting experiments to determine whether some of those claims can be scientifically verified. For example, MU turfgrass specialist Erik Ervin recently collaborated on a study that indicated EM might have the potential to inhibit growth of the fungus that causes "dollar spot" disease on golf greens.

But composting is the area in which EM shows the most promise of living up to its hype. The beneficial microbes speed up the process, and the closed fermentation process keeps the odor of decaying food wastes to a

minimum.

"We looked at EM as perhaps a way to store food wastes in restaurants without having it stink," said Chris Starbuck, an MU horticulture professor and recycling expert. "In an anaerobic condition in a sealed container, it can be kept for quite a long period of time."

Nathan Means, one of Starbuck's graduate students, collected about 500 pounds of pulped food scraps and paper waste from Rollins Dining Hall to see whether EM could speed up the composting process and improve plant performance.

"I was the garbage man for a week," Means said. "But it's not quite as bad as you'd expect. When it's pulped with the paper in it, it's just a brown-gray mass." He refrigerated it until he had an

adequate amount, then put the material into closed containers. Some was inoculated with Bokashi - EM mixed with wheat bran - and all were allowed to ferment for several weeks.

At MU Bradford Research Farm near Columbia, Means grew four experimental plots of cantaloupe melons. One is fertilized with EM-inoculated compost, one with untreated compost, one with commercial nitrogen fertilizer and the fourth is untreated.

He will harvest the melons this month and see whether the EM-treated plots yielded better than the others. The experiment will be repeated next summer, along with a greenhouse experiment using the same treatments on container-grown spinach.

No matter how his experiment turns out, Means said, he doesn't expect to save the world. "I just want to see if this is an effective way to control odor and vermin problems associated with composting, especially of food waste."

"We want to see if it really works, to see whether it's a viable product."



## Protecting our water

### ERODING QUALITY

Program helps reduce urban erosion and sediment runoff

MU water quality specialists have received a \$74,000 grant for an educational program to help prevent soil erosion and stream sedimentation due to rapid land development in Boone County.

In some construction sites, soil erosion can exceed 100 tons per acre, said Steve Mellis, MU water quality associate. "Soil erosion and sedimentation problems can create problems in local streams, storm water drains, on streets and sidewalks and can contribute to flooding," he said.

The project, funded by an U.S. Environmental Protection Agency, is a non-point pollution grant through the Missouri Department of Natural Resources. It will provide

builders and urban residents ways to reduce erosion and sediment runoff from the time construction begins through lawn establishment.

Plots are now being established at the MU South Farm to demonstrate effective management of runoff from construction sites. Practices include straw mulch, silt fences and polymers that bind soil particles in various concentrations.

Hinkson Creek, which flows through Columbia, has been designated as impaired by the Missouri Department of Natural Resources because of urban runoff.

"There is a great deal of construction under way in the county," Mellis said. "We feel use of the techniques shown will provide tools to protect water resources."

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# Defrosting the big chill?

## DEEP FREEZE

Changes in Greenland's ice sheet caused by natural weather variations

Almost three years ago, MU researcher Curt Davis discovered that some areas of the southern Greenland ice sheet varied dramatically in elevation over a 10-year period. An extensive study by a team of scientists, including Davis, has now found that normal weather patterns are the cause, not any long-term climate changes such as global warming.

In a paper in the Aug. 24 edition of *Nature*, Davis and his coinvestigators reported that changes in the ice sheet's upper elevations, areas above 6,000 feet, are caused by natural variations in snow accumulation over time.

"When we released our original findings, they were

somewhat controversial," said Davis, an associate professor of electrical engineering who has been using remote-sensing satellites to study changes in the ice sheet since 1990.

"Our data indicated that overall, the ice sheet was maintaining a constant elevation, but we found great variability over short distances, with substantial thickening in some areas and strong thinning in other areas."

Shortly after his study was released, Davis and a group of researchers led by Joe McConnell, an associate research professor at the Desert Research Institute in Reno, Nev., joined together to investigate the cause of the variability in elevation.

The researchers used ice cores, each 45 to 400 feet deep, that were collected from 12 locations around the southern Greenland ice sheet above 6,000

feet. They measured variations in the concentrations of dust and chemical compounds such as hydrogen peroxide, calcium and ammonium to determine the amount of snow that accumulated each year over the time span of the cores.

"Analyzing ice cores is similar to studying tree rings," Davis said. "Just as the distance between a tree's rings represents its growth that year, the amount of ice between layers of certain compounds indicates that year's accumulation in that location."

Ice core analysis and modeling revealed that areas where elevation changed dramatically had a corresponding variation in snowfall during the study period. Further analysis indicated these snowfall variations were consistent with natural fluctuations over decades. This proves the elevation changes across southern Greenland that



Davis discovered in his earlier study were not unusual.

Just last month, two other studies were reported that support Davis and his coinvestigators' findings. These studies also found that, overall, the ice sheet's upper elevations

were relatively stable. However, one of these studies found that most of the lower elevations of the ice sheet were thinning rapidly, with rates exceeding three feet a year in some locations along the edges.

"Although there doesn't appear to be any changes in southern Greenland's upper elevations that can be associated with global warming, dramatic lower elevation thinning has been documented," Davis said. "While this thinning seems to have had no effect on the upper elevations so far, more study is needed to determine its cause and the possible impact on the ice sheet's contribution to sea-level rise in the future."

Other universities that participated in the study include: the University of Washington, Ohio State University, the University of Arizona and the University of Nebraska. Funding was provided by grants from NASA and the National Science Foundation.

## Nutrition Emphasis Week/Poster Session 2000

The University of Missouri F21C Nutritional Sciences Group cordially invites the Columbia community to attend the special events related to

### Functional Foods and Your Health

Tuesday, September 5, 7:30 p.m. - Jesse Wrench Auditorium, Memorial Union South  
**Jacqueline R. Berning, Ph.D.**

Assistant Professor in the Biology Department at the University of Colorado at Colorado Springs  
"Sports Nutrition Update: Supplements and Functional Foods for Athletes"

Wednesday, September 6, 7:30 p.m. - M105 Medical Sciences, Medical School  
**William R. Obermeyer, Ph.D.**

Vice President of Research for ConsumerLab.com  
*The Albert Hogan Memorial Lecture*

"What every consumer should know about dietary supplements"

Thursday, September 7, 10:00 a.m. - Benton Bingham N214/215, Memorial Union North  
**William R. Obermeyer, Ph.D.**

"What dietary supplements are our patients taking? Implications for Liability"

Thursday, September 7, 2:00 - 5:00 p.m. - Stotler Lounge, Memorial Union North  
**F21C Nutritional Sciences  
Poster Session**

Friday, September 8, 10:00 a.m. - Acuff Auditorium, MA217 Medical Sciences  
**John W. Erdman, Jr., Ph.D.**

Nutrition Research Chair in the Department of Food Science and Human Nutrition University of Illinois  
*The Boyd O'Dell Lecture*

"Lycopene, tomato products and prostate cancer"

Friday, September 8, 3:00 p.m. - 209 Gwynn Hall  
Presentations Followed by Open Discussion

**John W. Erdman, Jr., Ph.D.**

"Functional Foods Program at the University of Illinois"

&  
**Marcus Chambers**

Director, Research and Development, Altus Foods Company

"An Insider's View of Functional Foods: From Development to Marketing"

Sponsored by Food for the 21<sup>st</sup> Century Nutritional Sciences - College of Human Environmental Sciences - College of Veterinary Medicine - The Botanical Center - MU Nutritional Sciences Outreach & Extension

## Switzler goes cyber

### WIRELESS REVOLUTION

Laptop lab opens new possibilities for communication teaching and research

The second-oldest building on campus is riding a wave of cutting-edge technology in the new millennium.

Switzler Hall, built in 1871, is the new home of a wireless laptop computer lab, which will help make the learning process more interactive, convenient and user-friendly for communication students. The lab consists of 25 wireless laptop computers on mobile carts that can be transported from classroom to classroom.

In a building where typewriters were once seen as the "new kids on the block," the new mobile lab in Switzler is expected to enhance the educational experience for MU students. "We see this as a tool to improve educational opportunities for our students," said Pam Benoit, chair of the communication department. "We're ahead of the game."

Benoit said this new hands-on approach to teaching will help communication students in various ways. For example, students studying political communication will learn how candidates are using the Internet for their campaigns and can

listen to campaign speeches over the World Wide Web.

Professor Bill Benoit, who teaches political communication, is especially excited about these advantages. "Besides using this in my classes this fall, I already have a study planned to see whether, and how, surfing candidates' web pages facilitates learning and influences attitudes and voting intentions," he said.

"Also, there are studies planned regarding health communication and web pages. So little is known about the effects of the Internet. Therefore, this lab has truly exciting possibilities for teaching and research."

Students also will use the laptops to watch video presentations and analyze the media. For example, students will be able to analyze the amount of violence in particular programs and study anti-tobacco advertisements in a traditional classroom setting.

In addition, communication professors will use the new laptop lab to teach students other skills such as how to use PowerPoint and how to evaluate Internet sources. Pam Benoit said the new lab also will be ideal for projects and group work and will make MU graduates more marketable, especially in the areas of political communication, research methods, and television programming and criticism.



Faculty from page 1

or another.”  
Here at the University of Missouri, Sentilles said, “we felt the (post-tenure review) committee was trying to write a document that deals with the 2 percent and leaves the remaining 98 percent of faculty virtually untouched.”

But he argued that the draft proposal, as written, does not provide such guarantees. “If applied in the spirit of collegiality, it is not a threatening document, but we know we can’t count on that,” Sentilles said. “I’m concerned the language in the document can go well beyond the 2 percent, depending on how it is applied.”

Several council members argued that more evidence of substandard faculty performance was needed to justify the post-tenure review process. “Only when we define the problem should we look at a solution,” said Sudarshan Loyalka, professor of nuclear engineering.

Others on the council described the draft proposal as a negative document that doesn’t recognize the overwhelming productivity of virtually all faculty. “This will be disruptive of academic freedom,” Adelstein said. “I think this is going to be a very malignant tool, even though the people involved in this meant it to be fair.”

Catherine Parke, professor of English and women studies urged a review process that has a more positive aspect to it. The current proposal “sets up an atmosphere contradictory not only to academic freedom, but morale,” Parke said. “There used to exist a positive post-tenure review; it’s called a sabbatical.”

Several council members suggested that the post-tenure review process would be a burden on professors’ time. “It should not add more than a few minutes at most. It shouldn’t take much more time than it already does,” Heymann replied. “We tried to develop a program that is as humane and friendly and takes as little time as possible.”

A number of council members raised concerns about a process that at the end of five years gives faculty a simple satisfactory or unsatisfactory rating.

“Who gets to define satisfactory?” asked Peggy Placier, associate professor of educational leadership and policy analysis. She suggested a scenario in which department chairs could raise performance requirements “so just to keep your job you’ll have to do more. If that’s left completely vague in the document it does open the door for that kind of pressure.”

Other faculty cautioned that

successful grantsmanship might have an overwhelming influence on how a faculty member’s performance is viewed by administrators. “Let’s face it money drives the world,” said Leonard Hess, professor of obstetrics and gynecology. “When you start looking at what is acceptable and not acceptable, money comes into view.”

“The quality of the work is not always related to the dollar amount of the work.”

However, several council members took exception to the view that department chairs could run roughshod over the review process. Bruce Cutter, associate professor of forestry, said he wasn’t convinced that chairs would be arbitrary in their post-tenure assessments.

“I think we should recognize that by and large they do a pretty decent job,” Cutter said. In many cases department chairs are elected by their peers and tackle a thankless job out of a sense of collegiality, Cutter said. “So let’s give these folks a break.”

Bill Wiebold, associate professor of agronomy, argued that many supporters of post-tenure review have good intentions. “I think we do the argument a disservice if we put evil intentions in the minds of the people who support post-tenure review,” he said.

Heymann pointed out that under the current policy, disciplinary action against faculty can be triggered by a single individual. “This particular document at least tries to bring other people into that process,” she said.

# classifieds

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# calendar



## Courses

### Wednesday, September 6

#### NEW EMPLOYEE

**ORIENTATION:** Open to all new benefit-eligible staff from 8:30 a.m.-noon today, Oct. 4, Nov. 1, and Dec. 6, and from 1:30-5 p.m. Sept. 20, Oct. 18, Nov. 15, and Dec. 20. All sessions will be held in S203 Memorial Union.

#### HAZARDOUS MATERIALS

**COURSES:** "Hazardous Materials Management Update" will be presented today, Oct. 17 and Dec. 5 from 9-10 a.m., and Sept. 19 and Nov. 7 from 9 a.m.-noon. "Introduction to Hazardous Materials Management" will be presented today, Oct. 17 and Dec. 5 from 2-5 p.m., and Nov. 7 from 2-3 p.m. Both courses will be held in the Environmental Health and Safety classroom in the Research Park Development Building. Registration is required; call 882-7018.

### Thursday, September 7

#### PROCUREMENT COURSE:

"Purchasing Fundamentals for Department Staff" will be held from 8 a.m.-noon at 1105 Carrie Francke Drive. Registration required, call 882-5054.

#### RADIATION SAFETY

**COURSE:** "Radiation Safety at MU-New Radiation Workers" will be presented from 1-3:30 p.m. today, Oct. 5, Nov. 2 and Dec. 7 in the Environmental Health and Safety classroom in the Research Park Development Building. Registration is required; call 882-7018.

## Exhibits

**ART FOR LIFE:** An exhibition of works, including basketry, drawing, fiber arts, mixed media, paintings, photography, pottery, stained glass and woodworking, by staff members and volunteers will be on display in the lobbies of University Hospital and Clinics and Ellis Fischel Cancer Center.

A children's art show also is on display at University Hospital.  
**BRADY GALLERY:** Drawings and paintings by John Bybee will be on display from Sept. 5-14.

Brady Commons Gallery hours are 10 a.m.-5 p.m. Monday-Friday.

#### MUSEUM OF ANTHROPOLOGY:

The museum's exhibits focus on Native American cultures and the history and prehistory of Missouri. The museum, located at 100 Swallow Hall, is open from 9 a.m.-4 p.m. Monday to Friday.

#### MUSEUM OF ART AND ARCHAEOLOGY:

Special Exhibits:  
• "Art of Devotion from Gandhara" is on display through Dec. 10.  
• "Jaguar's Realm: Ancient Art from Mexico to Peru" is on display through February 2001.  
• "Prints from Rubens' Medici Cycle" is on display through May 2001.  
• "Revolutionary Visions" is on display through June 2001.  
• "Wrapped Creatures: Animal Mummies from Egypt" is on display through August 2001.  
The museum, located in Pickard Hall, is open from 9 a.m.-5 p.m. Tuesday-Friday, 6-9 p.m. Thursday and noon-5 p.m. Saturday and Sunday.

#### STATE HISTORICAL SOCIETY:

• "The Civil War Prints of Kurz and Allison" is on display until September 1.  
The gallery is open from 8:30 a.m.-4 p.m. Monday-Friday and is closed on Saturday.

• "Persuading the American Public: Poster Art from World War II" is on display in the north-south corridor.

• "St. Louis Post-Dispatch Editorial Cartoon Collection: The 1940 Election Trail" is on display in the east-west corridor. The corridors are open from 8 a.m.-4:30 p.m. Monday-Friday and 9 a.m.-4:30 p.m. Saturday.

#### UNIVERSITY ARCHIVES:

The University Archives offers a number of online exhibits that document the history of MU. The newest exhibit is titled "Happy Birthday Beetle Baily," to celebrate the 50th birthday of Mizzou's favorite cartoon underachiever. The Beetle character was created by MU alumnus Mort Walker. Links to the archives' exhibits are located at [www.system.missouri.edu/archives/exhibitlist.html](http://www.system.missouri.edu/archives/exhibitlist.html)

#### BINGHAM GALLERY:

"Sunlight and Shadow" an exhibit of new oils and watercolors by Frank Stack, professor of art, will be on display through Sept. 22. There

## Lectures & Seminars

### Monday, August 28

#### MICROBIOLOGY & IMMUNOLOGY

**LECTURE:** Matthew Alan Mulvey from the Washington University Department of Molecular Microbiology will present "Interplay between Host Defenses and Bacterial Pathogens within the Urinary Tract" at 9 a.m. in M615 Medical Science Building.

### Tuesday, September 5

#### MUSEUM LECTURE:

Stephen Selby, director of the Hong Kong government's Intellectual Property Department, will present "Ancient China Through an Archer's Eyes" at 5:15 p.m. in Pickard Auditorium.

### Wednesday, September 6

#### MIDDAY GALLERY EVENT:

Patricia Podzorski, assistant director of the Museum of Art and Archeology, will present "Pharaohs of the Sun: An Exhibition on Tutankhamon, Akenaton, and Nefertiti" at 12:15 p.m. in the museum in Pickard Hall.

### Friday, September 8

#### MUSEUM LECTURE:

E. Marianne Stern, an author and authority on ancient Greek and Roman glass, will present "Ancient Glass" at 4:00 p.m. in 106 Pickard Hall.

## retirees ASSOCIATION

The MU Retirees Association will kick off another year of activities with a Retirees Fall Information Fair beginning at 9:30 a.m. Sept. 9 in the Columns Rooms of the Reynolds Alumni Center. At 10 a.m., the featured speaker will be Hugh Stephenson, president of the Board of Curators and professor emeritus of surgery. There also will be an update on the United Way campaign and all the association's committee chairs and interest group chairs will give updates.

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# Calling all Tigers

FREE food, entertainment, & prizes! Dunk a W. Illinois Leatherneck!



## SPIRIT RALLY

5-9 pm, Friday, Sept. 1st in Brady Park



Come and join the celebration with

**Truman the Tiger**  
from 5 - 7 pm



**MU Cheerleaders**  
from 5 - 6 pm



**MU Golden Girls**  
from 6 - 7 pm

music by members of **Marching Mizzou**

Enjoy a free tailgate-style dinner, sing the Tiger fight song along with Marching Mizzou, try your luck at our dunking booth and other games and take advantage of extended shopping hours and merchandise discounts on fantastic Tiger sportswear at University Bookstore. Bring the kids to meet Truman and register for a pair of tickets to the MU Michigan State football game, Mizzou sportswear and more! See you there!

Take 25% OFF

ALL Black & Gold clothing at University Bookstore from 5-9pm during the rally.

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All-American Nikki Thole

### Missouri Soccer 2000 Home Schedule

Day	Date	Opponent	Outcome/Time
Fri	9 - 1	Florida State	4:00 PM CT
Sun	9 - 3	Wake Forest	12:00 PM CT
Fri	9 - 29	Nebraska *	4:00 PM CT
Sun	10 - 1	Iowa State *	1:00 PM CT
Fri	10 - 6	Colorado *	4:00 PM CT
Sun	10 - 8	Texas Tech *	12:00 PM CT
Sun	10 - 22	Loyola ( Ill.)	1:00 PM CT
Fri	10 - 27	Kansas *	4:00 PM CT

Above games played at the Audrey J. Walton Track/Soccer Complex located off Stadium Blvd. next to the Baseball stadium.

\* Big 12 Conference games

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 Sun. noon to midnight



# Green revolution

## KEEPER OF THE GRASS

Hard work keeps MU athletic fields lush and green

In the early 1990s, Faurot Field had a hard, plastic feel to it. It was green and it looked nice, but it wasn't traditional. It was artificial, it was hard, it was hot. Players had to protect exposed arms and legs to prevent burns while sliding across the sandpaper-like surface. In a word, it was Omniturf.

It was supposed to be the wave of the future in football. It required less maintenance. Heck, even the Kansas City Chiefs played on it. But studies showed the hard surface increased the likelihood of player injuries. Finally, in 1995, the door-mat green plastic was removed. Soon dirt, and grass turf, returned to the hallowed ground.

Three years ago, Allen "Frosty" Frost came to work for MU. He had a background in the care and feeding of lush green grass, including 14 years in his own business.

As athletic maintenance coordinator Frost is in charge of maintaining campus athletic facilities, especially the green expanse of Faurot Field. He

oversees the day-to-day care of the facilities, sets up for events and cleans up afterwards.

"It's exciting and fast-paced," says Frost. "Depending on the time of year, we may set up for a Friday soccer game on Thursday, and while it's going on, we're getting ready for football on Saturday, and then soccer again on Sunday."

The job that seems to keep the entire department busy is the maintenance of the grass playing fields. Frosty describes the care of Faurot Field as the most exciting part of his job. At the football field, work begins in April and runs for the next nine months straight, he says. "There's not much to do during January, February, and March; the ground is frozen."

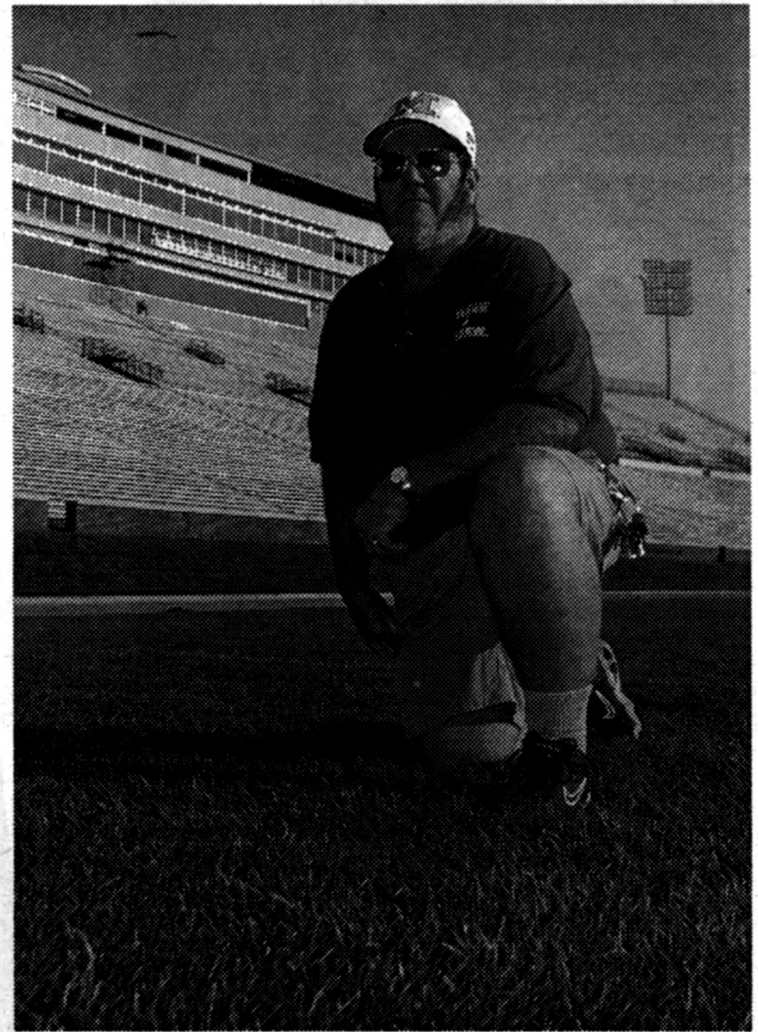
But with the spring thaw begins the routine of fertilizing, applying fungicide, mowing and repairing. Most of us complain about mowing our own lawns once a week, but during the height of the growing season the football field is mowed daily. Later in the year, the special blend of rye and bluegrasses only requires mowing every other day. Repair of damage that occurs

during sporting events takes even more time. The turf of Faurot Field endures tremendous punishment every football Saturday. Frosty and his crew sometimes have a just few days to get the field back in shape for the next game. The well-rehearsed program includes coring to replace damaged turf, aerating, reseeding and top-dressing. But the thought of 300 pound football players trampling his hard work doesn't worry him; it's all part of the job.

The addition of lights on the field has made way for night games, which leads to more work, with longer workdays for the crew.

There's also the daunting task of cleaning up after tens of thousands of screaming fans—69,000 after the K-State game three years ago. The bulk of the trash cleanup, at least after football games, is contracted out these days, but don't think Frosty and the crew are sitting down. They still get cleanup duty after baseball, soccer, softball, and track and field events.

But Frosty doesn't seem to mind the long hours, and extra work. "I've got a great crew, they help make it easier," he says. "Besides, I'm doing the job I always wanted to do."



Steve Morse photo

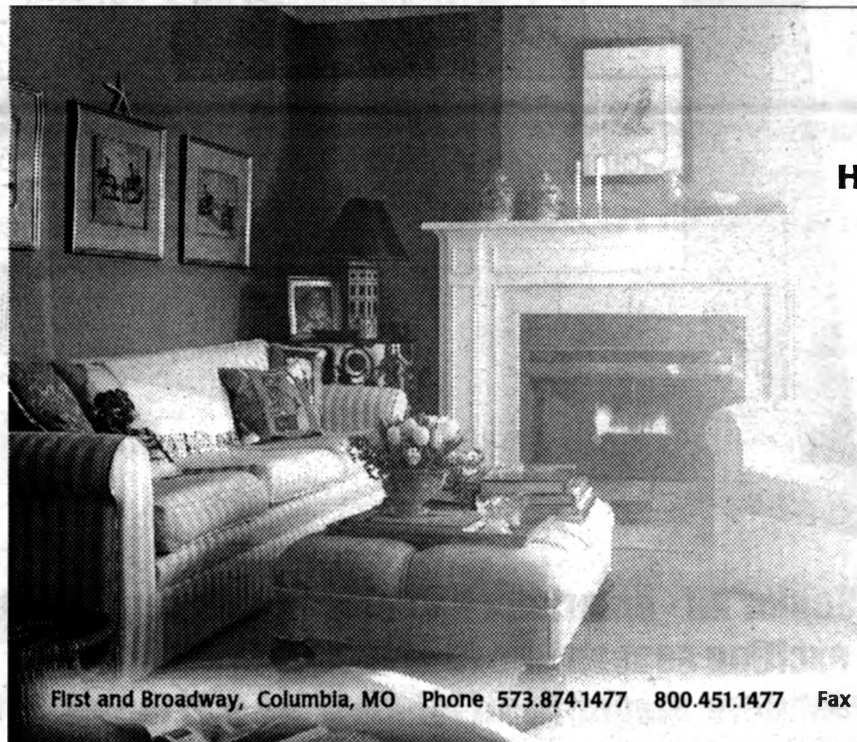
### THE KING OF GREEN

It's no accident that Faurot Field sports a bumper crop of grass. Athletic maintenance coordinator "Frosty" Frost, and his crew sometimes have to mow daily during the prime growing season.

#### Facts from page 1

broadcast booth •Home and visiting team video booth  
•Home and visiting coaches booth •Enclosed security/game operations booth •Approximately 180 linear feet of photographer's access to field side of building

The new press box contains 180,000 brick; 280,000 linear feet of wiring; enough concrete to cover the football field 4 feet deep; enough dry wall to cover the field 2 feet deep; nearly 600 workers involved with the project.



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