

MIZZOU

WEEKLY

University of Missouri-Columbia Nov. 11, 1999

INSIDE THE WEEKLY

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Finding a joint solution

Mizzou researchers create new laboratory to find solutions for orthopaedic diseases that affect both humans and animals.

Researchers in human and veterinary medicine always have had something in common: they strive to solve some of the most puzzling mysteries of the ways bodies cope with disease and injury, and how they respond to treatments.

Historically, they have worked independently for the most part to solve similar medical problems. However, in the last five to 10 years, there has been a growing trend toward comparative medicine, in which researchers from both camps combine their efforts. As a result, they are healing both people and animals quicker and more efficiently.

A team of researchers last month announced the formation of the MU Comparative Orthopaedic Laboratory. It is the first one in Missouri and only the third of its kind in the nation. James Cook and Keith Kenter are among those who have put their minds, interests and resources

together to open the new laboratory.

Cook is an assistant professor of small animal orthopaedics, and Kenter is an assistant professor of orthopaedic surgery. As the lab gains momentum, the doctors are making quick progress toward something that has never been done before: regenerating connective tissue in the knee.

They have successfully performed the first surgery of its kind on a dog, and they expect to be able to help restore the connective tissue in human knees — called "menisci" — in the near future.

The latest study, published in the September/October issue of American Journal of Sports Medicine, is part of a series aimed at perfecting the technique before obtaining approval from the Food and Drug Administration to perform it on humans.

"We are looking at the big picture," said Cook, who is the lab's director of

basic science studies and laboratory operations. "The more comprehensive, multispecies and multidisciplinary we can be, the better the chances are that we can come up with clinically applicable results. The dog is a great model for human applications, and we should take advantage of it."

The ultimate goal of the lab is to share information across the disciplines to treat, cure and eliminate the common and debilitating diseases affecting the joints. The MU lab is modeled after The Laboratory for Comparative Orthopaedic Research at Michigan State University in East Lansing, but MU's lab is the only one in the country with this vision and focus. Cornell University also is home to a similar lab.

"What makes this laboratory unique is that we are looking at joint problems at the cellular level and applying it to the kennel as well as the bedside," said Kenter, who is the lab's director of clinical research and applications.

"Essentially, we are practicing as both scientists and doctors to gain greater understanding of how the diseases work and how treatments impact patients." The researchers already have seen major

advantages in working together.

Kenter said there are many treatments that have to be researched with animals before he can get approval for his own patients. Cook said that never before has he been able to get a clear answer from patients about how they feel. Both said they've become better doctors with their own patients after getting the chance to apply what they know to a different species.

In a few weeks, Kenter will visit the Veterinary Medical Teaching Hospital to help Cook develop an arthroscopic repair technique similar to the one he uses with human patients. As with other comparative studies in the lab, Cook's students also will benefit from the learning experience.

Initial funding for the lab has come from lab service fees, and internal and external research grants, including major ones from DePuy, Inc., the National Institutes of Health, Pfizer and MU. Plans for the laboratory include contributing solid research to the field, gaining international prominence as a center of excellence, and obtaining more funding for research and facilities.

General Stores moves to 'The Rock'

Grand reopening ceremonies are set for 1:30 p.m. Nov. 12.

Going to General Stores is like going to a supermarket, except instead of food you'll find just about every office, janitorial and plumbing supply ever made. A July inventory showed 2,600 individual items, from AA batteries to zip disks.

In September, the operation moved to new digs at 1400 Rock Quarry Center, aka "The Rock." Tomorrow the distribution center will hold its grand reopening and open house with all the trimmings: refreshments, tours, door prizes, freebies, new products to look at and try, opportunities to register for online requisitioning, and a chance to win the grand prize, a genuine Mark McGwire bat. The entire campus is invited to join in the festivities starting at 1:30 p.m. with a ribbon cutting.

Dan Johnson, manager of General Stores, has worked for the operations for 15 years. "The manager before me said the original stores was in one room in Jesse Hall. The attendant would get supplies in the morning, and deliver them in the afternoon on his bicycle."

As the years wore on, the growing campus and increasing business forced the center to operate out of two separate buildings for many years. Today, an abundant 50,000 square feet of space at

"The Rock" is ample enough to house everything and everyone under one roof.

"This is the first time in our history that we have everything in one location," Johnson says. "I think people will be surprised when they see the volume of merchandise we have."

In earlier times, General Stores carried more than 4,000 items. Through weeding, mostly of obsolete supplies, Johnson says

the inventory is now leaner and contains items that have a fairly quick turnaround.

Over time, he says, a conscious effort has been made to stock recognizable, high-quality name-brand products. "Those manufacturers are willing to back their product. You get what you pay for, and if we have a problem, we know we can make it good because we know they are going to make it good."

The responsibility for stocking, filling orders and delivering hundreds of thousands of supplies each year falls into the hands of eight storeroom attendants.

Office and janitorial supplies account for 90 percent of the storeroom's sales, while maintenance items pull in 10

percent. Johnson says that in a 12-month period, General Stores sells more than 138 million sheets of Xerox copy paper. That's 27,600 cases of paper delivered each year. "Being able to buy in volume allows General Stores to pass the savings on to campus departments."

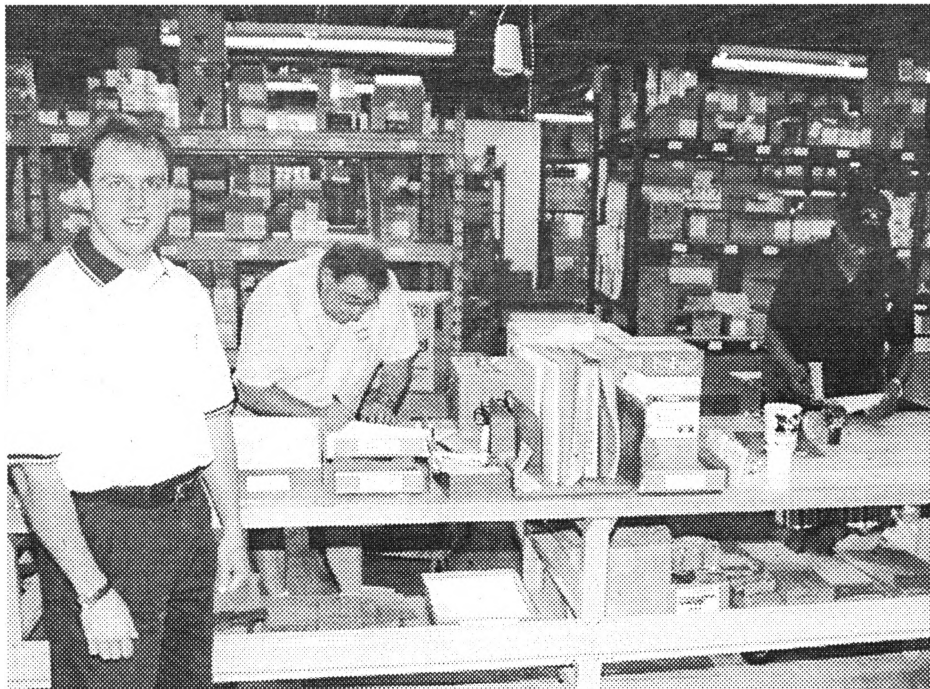
A list of other high-volume purchases in a year include: 181,000 standard 9-inch by 12-inch envelopes with a clasp, and 221,000 of the same envelopes without a clasp; 17,000 Post-it pads; 14,000 standard 60-watt bulbs; 2,500 dozen Bic ballpoint pens; 2,500 Pentel mechanical pencils; 7,400 gallons of paint; 20,000 cases of paper towels; 241,000 rolls of toilet paper; and 1,700,000 paper clips.

Johnson says one of the major challenges he faces is staying competitive. "It's a constant challenge to make sure we're buying something right," he says. "We can't do the campus any good if we're charging more."

Additionally, General Stores provides free delivery, even for one box of paper clips, and all products are guaranteed for 90 days. "If we don't stock something a department needs, we can special order it," Johnson says. "We're always open to new ideas and products, because we're here to serve the campus."

Jarin Wood, left, assistant manager, Lee Eckerle, center, and Donald Hill are part of MU's General Stores team that fills and delivers orders for hundreds of thousands of supplies to campus departments each year.

Steve Morse photo



A PAT ON THE BACK FOR UNITED WAY EFFORT

Members of the University community can give themselves a pat on the back — the University's 1999 United Way campaign has gone over the top. The campaign has garnered a total of \$397,090 — or 101 percent of the \$393,500 goal — according to the campaign report issued Nov. 10.



"Campaign co-chairs Dick Dowdy, Tom Freeman and I are extremely pleased by the support, participation and commitment on the part of many, many people on campus, by retirees, at the UM System and the Health Sciences Center, including Columbia Regional Hospital," says Gary Smith, this year's chair of the University United Way campaign. "We're so appreciative and so impressed that members of the University community participate in the manner in

which they do," says Smith, director of admissions and registrar. He points out that the University campaign makes up almost 20 percent of the Columbia area United Way campaign goal of \$2.1 million.

"That's why the University is so important to the campaign," Smith says. "Some of us had hoped to exceed the goal and raise a total of \$400,000, and I feel very certain we will." He stresses that there's still time to make a donation to United Way. Contributions will be counted in this year's campaign up through the deadline for the final report Nov. 18.

But, with the University's goal

reached, it might be time for some congratulations as well; the University will hold a victory celebration in early December. Smith has another observation about the University's United Way campaign success: "Although we are far from being one of the largest institutions in the Big 12, we rank right at the top of the pack in United Way contributions along with Texas A&M."

WHY SHOULD WE WORRY ABOUT Y2K?

Under the auspices of the President's Council on Year 2000 Conversion, the city of Columbia is hosting a town meeting, "Y2K Community Conversation," at 7 p.m. Nov. 23 in the City Council chambers. The event, which is open to the public, also will be broadcast live over the government access channel (Channel 13 on the AT&T Cable/formerly TCI and Channel 2 on Capital Cable). State and local government will be represented, along with MU, local financial institutions and service providers, among others.

'The Biggest City in America'

MU arts and science dean explores the 1950s through his autobiographical book.

Mixing playful anecdotes and social observation, a new book by MU's dean of arts and science highlights the continuity and contrast between our society today and in the 1950s. In *The Biggest City in America*, Richard Schwartz takes readers back to his 1950s youth. Through his story, he sheds light on the wrenching changes of the last 40 years.

In some ways, we were far freer then; in some ways, far less so. Unless we remember both tendencies of that period, we face greater difficulty in understanding and shaping the present.

He tells the story through his own life in Norwood, Ohio, a suburb of Cincinnati. One thing the memoirs make clear: the unformed interpretation of a child is more clear and consistent than the conditioned views of adults. As children, we might interpret the 1950s the same today as we would yesterday. But if we went back as

adults, would we be relieved or horrified? The question still matters; the answer often tells us the difference between conservative and liberal, black and white, and even male and female.

Schwartz seldom deals directly with these issues, traveling down the back roads of his personal journey. But he touches on them when he tells of his awakening to consumerism, class distinctions, the clashing demands of obligation and self expression, and his loss of innocence.

[The nuns] were all gone and with them their school, their convent, their shrines. . . , the IHS rings that they used to strike our cheeks and eyes, the notes they passed inviting our girlfriends to be brides of Jesus, and the host of techniques for instilling guilt, denying desire and bending youthful imaginations to the iron will of the repressed fanatic.

Although Schwartz writes an honest

account of his past — a remarkable feat for anyone — he does indeed seem to miss the 1950s. The era's limitations are more often inferred than explicitly denounced. The era's assumptions are retold with later analysis, but the impression of innocence, albeit strictly enforced, remains.

... and there was the one movie that was all about the trials of Oscar Wilde. I thought I might like it, because I really liked trial movies. This one didn't seem to make much sense, though. The previews said something about a sin that dared not speak its name. I didn't know what that sin could be, unless it was a sin against the Holy Ghost, which was one of those things we were warned about but never really had explained to us properly. All of the other sins had been spelled out in great detail.

The environmental aspects of growing up in the 1950s are a considerable

component of the book. It was when children could roam free in the woods, when many American families first discovered prosperity and franchise chains were only just beginning to undermine the corner store.

To me, these artifacts and events sometimes seem as distant as Upper Paleolithic cave paintings, despite the fact that I lived with them for a decade of my life, the pivotal developmental decade of adolescence. That distance is, in part, the story here, and the unwritten subtext concerns the nature of our own times, a story of what we can now take for granted and what we cannot.

Schwartz has edited five books and written seven, including *Daily Life in Johnson's London*, *After the Death of Literature* and *Frozen Stare*, a novel. *The Biggest City in America* is published by the University of Akron Press as part of its Ohio History and Culture Series.

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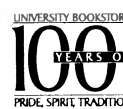
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E-beams battle E coli.

MU researchers develop weapon against harmful food bacterium.

In 1865, French chemist Louis Pasteur introduced the world to the process now known as pasteurization. By heating milk at 145 degrees for 30 minutes, rapidly cooling it and then storing it below 50 degrees, Pasteur discovered that harmful bacteria were destroyed without significantly changing the milk's composition, flavor or nutritional value.

Next year, U.S. consumers will be introduced to a new kind of pasteurization being developed by an interdisciplinary team of researchers at Mizzou, Iowa State University and Natick Army Laboratory. Like its 19th century forerunner, it destroys bacteria without significantly changing product composition, flavor or nutritional value.

However, this 21st century process, termed cold pasteurization, is much different. Using electron beam technology, it is fast, does not require heat and is designed to destroy one of the most feared bacterium in recent history - E. coli O157:H7.

"Today, you wouldn't even think of drinking milk that wasn't pasteurized," said Nan Unklesbay, professor of food science. "So we asked ourselves, 'Why aren't other foods, such as ground beef, pasteurized against dangerous bacteria like E. coli O157:H7?'"

Unklesbay has been the principal food scientist for the development of electron beam, or "E-beam," technology since 1995. That is when electrical engineering professor Randy Curry came to MU, bringing with him an accelerator. The high-powered accelerator is a type of cathode ray tube, similar to that found in a conventional television set.

In the 1980s, Curry developed similar devices for President Reagan's Strategic Defense Initiative, popularly known as "Star Wars." After "Star Wars" lost

funding, he continued to develop accelerator technologies for national defense, but on a different level.

Instead of defending against missile attacks, the accelerator defends against harmful microbes in food. Working together, Curry and engineering professors Kenneth Unklesbay and Tom Clevenger developed and refined the process. Their research was funded by a \$250,000 grant from the Electrical Power Research Institute.

"We focused on E. coli O157:H7 contamination of ground beef for two reasons," Nan Unklesbay said. "First, meat is the most common source of E. coli O157:H7 poisoning. Second, E. coli O157:H7 is the nastiest bacteria we know about. It can survive temperatures and acidic conditions that others cannot. Because of its resilience, it is considered to be an indicator organism. We know that if we can kill E. coli O157:H7, we can kill everything else too."

In essence, the process of cold pasteurization is relatively simple. Once the linear accelerator is activated, electrons are accelerated down a tube. With a flip of a switch, the accelerator then propels the electrons at high speeds, creating an "E-beam." When this invisible beam hits the E. coli, it interacts with the microbe's DNA, deactivating it.

"The whole process takes only a few seconds," Unklesbay said. "Though a number of variables, including fat content, thickness and state (fresh or frozen) of the meat, affect the duration and intensity of the process, the cold pasteurization occurs in the same way."

Consumers will see evidence of cold pasteurization as early as February. Two U.S. meat processors plan to offer frozen hamburger patties treated with "E-beams" to grocers and fast food restaurants. A cost increase of three to seven cents per pound is expected.

"At first, cold pasteurized products at

the grocery store will be labeled as 'irradiated,' but the term should not worry consumers. It is simply the term that the USDA requires," Unklesbay said. "The process is non-nuclear, and we're working to have cold pasteurized products labeled as such to avoid confusion." Curry believes new accelerators will make the process less expensive to commercialize.

As a food scientist, Unklesbay's responsibility has been to monitor the affects of cold pasteurization on products. She said the process does not alter the proteins, fats and carbohydrates in the meat, and that nutrient losses are less than traditional methods of preservation.

In addition, cold pasteurization does not significantly affect the color, texture or flavor of frozen ground beef, and only commercially allowing electron beams to be converted to X-rays for greater penetration into foods.

"This technology has a lot of potential beyond ground meat," she said. "Drs. Curry and Clevenger are developing a method for destroying cryptosporidium in drinking water, and we're considering it for fruits and vegetables." In time, Unklesbay said a minimal flavor change was evident in ground beef.

"The 'E-beams' do create minute levels of radiolytes, natural compounds created when meat tissue is heated," she said.

"These same non-carcinogenic compounds are created when meat is grilled or broiled."

Unklesbay also said that while "E-beams" effectively destroy E. coli and other microbes, they have some limitations. Presently, the process is limited to liquid and homogenized products of uniform shape that ensure even distribution of electrons. In time, the MU team hopes to improve the technology so that it may be used on items of varied shapes.

Researchers also are investigating the uses of X-rays instead of electron beams. New accelerator technologies are being introduced - cold pasteurization could be combined with sensitizers, a group of compounds that boost the efficiency of "E-beams."

"Right now, we're working with soluble polylactic acid, or SPLA," she said. "It reduces E. coli O157:H7 by creating intolerable acidic conditions, and we've seen significant results by combining the methods." Working with Unklesbay, Curry and Clevenger have developed other sensitizers that may be more effective than SPLA when combined with electron beam treatment.

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1:30 — 3:30 P.M.

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CALENDAR

Send calendar items by Campus Mail to
Mizzou Weekly Calendar, 407 Reynolds Center,
by noon Thursday the week before publication.
Events are free and open to the public unless otherwise noted.

Concerts and Plays

Saturday, November 13

UNIVERSITY CONCERT SERIES: David Rayl will conduct the MU Choral Union and Philharmonic Orchestra in *Avodath Hakodesh*, an evocative setting of the Jewish sabbath morning service, at 8 p.m. in Jesse Auditorium. The performance will include additional music from the Jewish tradition. For ticket information, call 882-3781.

Sunday, November 14

JAZZ SERIES: The Mark Elf Trio will perform at 3:30 and 7 p.m. at Murray's, 3107 Green Meadows Way. For ticket information, call 874-1944.

Tuesday, November 16

MISSOURI PLAYWRIGHTS WORKSHOP: New plays by MU theater students will be read at 7 p.m. in the Memorial Union's Stotler Lounge III. The audience is encouraged to critique the plays following the performance.

MSA POETRY PERFORMANCE: Jessica Care Moore will present her spoken-word performance at 7:30 p.m. in Reynolds Alumni Center Ballroom. An open-mike time will be offered for audience members to perform their works. Cost: \$3.

THEATER SERIES: *One Flew Over the Cuckoo's Nest* will be performed at 8 p.m. tonight, Nov. 17-18, Dec. 2-4 and Dec. 8-10, and at 2 p.m. Dec. 5 in the Corner Playhouse. For ticket information, call 882-PLAY.

Wednesday, November 17

UNIVERSITY CONCERT SERIES: *It's a Wonderful Life* will be performed by the Montana Repertory Theater at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

Friday, November 19

UNIVERSITY CONCERT SERIES: Flutist Eugenia Zukerman and harpist Yolanda Kondonassis will perform at 8 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

Conferences

Friday, November 12

ECONOMIC CONFERENCE: The Missouri Economic Outlook Conference will be held from 9:30 a.m.-3:00 p.m. in the Great Room at Reynolds Alumni Center. Patricia Polland, research officer with the St. Louis Federal Reserve Bank, will present "The International Outlook" at 10 a.m. Phillip Miller, associate research professor with the State and Regional Fiscal Studies Unit, will then present "The National Economic Outlook," Edward Robb, director of the B&PA Research Center, will follow with a presentation on "The State Economic Outlook." Following the lunch break, Peter Mueser, associate professor of economics, will present "Welfare Reform and Welfare to Work." Registration is required; call 882-5565 or akers@missouri.edu.

Courses

Tuesday, November 16

LIBRARY DATABASE WORKSHOP: "PsycoINFO Searching Workshop" will be held from 3:30-5 p.m. today and Dec. 6 in 126 Health Sciences Library. For more information, call 882-6141.

Wednesday, November 17

ACCOUNTING SERVICES TRAINING: "Travel Preparation and Reimbursement," with a prerequisite of Account Types and Subcodes, will be presented from 9 a.m.-noon today and Dec. 8 in the conference

room in Turner Parking Office. Registration required, call 882-3051.

INFANT CPR COURSE: A Red Cross certified training in infant and child CPR will be offered from 8:30 a.m.-2 p.m. today and Dec. 7 in the Environmental Health and Safety classroom in the Research Park Development Building. Registration required, call 882-7018.

INSTRUCTIONAL TECHNOLOGY CLASSES:

- "E-mail Grades to Your Students" will be presented from 2-4 p.m. in 215 Lee Hills Hall.
 - "Quizzing Your Students On-Line" will be presented from 2-4 p.m. in 305 Hill Hall. Registration is required for both classes; call 882-0645 or e-mail at irina@missouri.edu.
- NEW EMPLOYEE ORIENTATION:** Open to all new benefit-eligible staff from 1:30-5 p.m. today and Dec. 15, and from 8:30 a.m.-noon Dec. 1. All sessions will be held in S203 Memorial Union.

Thursday, November 18

LIBRARY DATABASE WORKSHOP: "Internet Searching Workshop" will be presented from 10-11:30 a.m. today and Dec. 1 in 126 Health Sciences Library. To register, call 882-6141.

Exhibits

MUSEUM OF ART AND ARCHAEOLOGY:

- Special Exhibits:
- "Fabrications: A Sampling of Multicultural Textiles" is on display through Dec. 19.
 - "Image and Imagination in African Art" is on display through 1999.
 - Jaguar's Realm: Ancient Art from Mexico and Peru" is on display through 1999.
 - "Los Caprichos" is on display through next April.

ART FOR LIFE: An exhibition of works by ceramic artist Joe Walls and photographer Chris Flinchbaugh are on display in the lobbies of University Hospital and Ellis Fischel Cancer Center through Jan. 5.

BINGHAM GALLERY: *Lar Crois/Fada Dan*, a sculpture by Michael Shaughnessy, is on display through Nov. 18 in the gallery, located in the Fine Arts Building. From 1:30-3:30 p.m. Nov. 18 there will be a relocation of the sculpture to another campus site and to Lee Elementary School in an event called "The Wren Day Parade" on Lowry Mall.

STATE HISTORICAL SOCIETY:

- Works in oil by Gary R. Lucy, a contemporary genre painter of 19th century Missouri river scenes, are on display in the gallery through Dec. 10. The gallery is open 8:30 a.m.-4 p.m. Monday to Friday.
- "Rare Maps from the Collection of the State Historical Society" is on display in the north-south corridor.
- "Decades: 18;99 to 1969, Editorial Cartoons" is on display in the east-west corridor.

Films

Thursday, November 11

MSA/GPC FILM SERIES: *Rush Hour* will be shown at 7 p.m. tonight in the Black Culture Center. Free with an MU ID.

Friday, November 12

MSA/GPC FILM SERIES: *Radiohead: Meeting People is Easy* will be shown tonight and tomorrow at 7 and 9:30 p.m. in Memorial Union Auditorium. Cost: \$1 with MU ID.

Wednesday, November 17

JAZZ FILM SERIES: *Anatomy of Murder* and *Theme from Anatomy of Murder* will be shown at 7 p.m. tonight at The Blue Note, 17 N. Ninth St.

Lectures and Seminars

Thursday, November 11

- ENVIRONMENTAL ENGINEERING LECTURE:** John Madras, planning chief for the Missouri Department of Natural Resources' water pollution control program, will present "Total Maximum Daily Load Program in Missouri" at 7:30 p.m. in N222/223 Memorial Union.
- INTERNATIONAL AFFAIRS SEMINAR:** Huaiyin Li, visiting assistant professor of history, will present "50 Years of the Peoples Republic of China: A Microhistorical" from noon-1 p.m. in S16 Memorial Union.
- NUTRITIONAL SCIENCES LECTURE:** Tzhy-Chang Hwang, assistant professor of physiology, will present "Cystic Fibrosis: What is Wrong and How Can We Help?" at 4 p.m. in 209 Gwynn Hall.

Friday, November 12

- CHEMISTRY COLLOQUIUM:** Dale Boger from the Scripps Research Institute will present "Five Natural Products and Five Solutions to the Sequence-Selective Recognition of DNA" at 4 p.m. in 103 Schlundt Hall.
- GEOGRAPHY LECTURE:** Karen Piper, assistant professor of English, will present "A Nazi But a Sportsman: Count Almasy and the Cartography of *The English Patient*" at 4 p.m. in 100 Stewart Hall.
- GEOLOGY LECTURE:** Carol Ward, associate professor of anthropology, will present "Newest Fossil Evidence for Human Origins" at 3 p.m. in 108 Geological Sciences Building.

Saturday, November 13

SURGERY GRAND ROUNDS: Alex Finkbeiner from the University of Arkansas-Little Rock will present "Urological Management of the Spinal Cord Injury Patient" from 9-10 a.m. in M105 Medical Sciences Building.

Tuesday, November 16

DIABETES NUTRITION LECTURE: Dietician Terri Jo Oetting will present "Diabetic Delights," a discussion of the latest diabetes dietary guidelines as well as holiday strategies for coping with the disease, at 10:30 a.m. in the Health Information Center in Columbia Mall.

Wednesday, November 17

ADMINISTRATIVE SYSTEMS PRIMER: "The Administrative Systems Project Primer — A Lunch and Learn Opportunity" is a new outreach for staff to understand the



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purpose of the Administrative Systems Project. Offered from noon-1 p.m. in Room 20 Academic Support Center. Registration required, call 884-1770.

MIDDAY GALLERY EVENT: Jill Raitt, professor of religious studies, and Russ Zguta, professor of history, will present "Liturgical Vestments" at 12:15 p.m. in the Museum of Art and Archeology.

Thursday, November 18
INTERNATIONAL AFFAIRS SEMINAR: Susan Flader, professor of history, will present "An Environmental Historian's Perceptions of Brazil" from noon-1 p.m. in S16 Memorial Union.

NUTRITIONAL SCIENCES LECTURE: Maurice Bennink from Michigan State University will present "Protective Effects of Dietary Soy Protein on Colon Cancer in Rats" at 4 p.m. in 209 Gwynn Hall.

Friday, November 19
CHEMISTRY COLLOQUIUM: Shashi Rao from Monsanto Co., will present "Molecular Modeling Studies on 3-D Pharmacophores of GPIIb/IIIa Antagonists" at 4 p.m. in 103 Schlundt Hall.

ECONOMICS LECTURE: Michael Dueker from the Federal Reserve Bank of St. Louis will present "Qualitative Response Models of Time Series" at 4 p.m. in 212 Middlebush Hall.

GEOLOGY LECTURE: Donna Whitney from the University of Minnesota will present "Vertical Tectonics in Magmatic Arcs and Collisional Mountain Belts" at 3 p.m. in 108 Geological Sciences Building.

Meetings

Thursday, November 11
STAFF ADVISORY COUNCIL MEETING: The Staff Advisory Council will meet at 1 p.m. in S206 Memorial Union.

Thursday, November 18
FACULTY COUNCIL MEETING: The Faculty Council will meet at 3:30 p.m. in S203 Memorial Union.

Special Events

Thursday, November 11
MUSEUM FLASHLIGHT TOUR: The Museum of Art and Archeology presents "Fabulous Fabrications," a flashlight tour for families with children between the ages of 8-12 from 6:30-7:30 p.m. at the museum.

Friday, November 12
FOOTBALL LUNCHEON: Coach Larry Smith will update faculty, staff and retirees on the Tigers' season at a luncheon at noon in the athletic dining hall in the Tom Taylor Building. Cost: \$5. Reservations required, call 882-2076.

GENERAL STORES OPEN HOUSE: The grand reopening and open house for General Stores will be held from 1:30-3:30 p.m. at their new location of 1400 Rock Quarry Center. A ribbon-cutting ceremony will take place at 2 p.m.

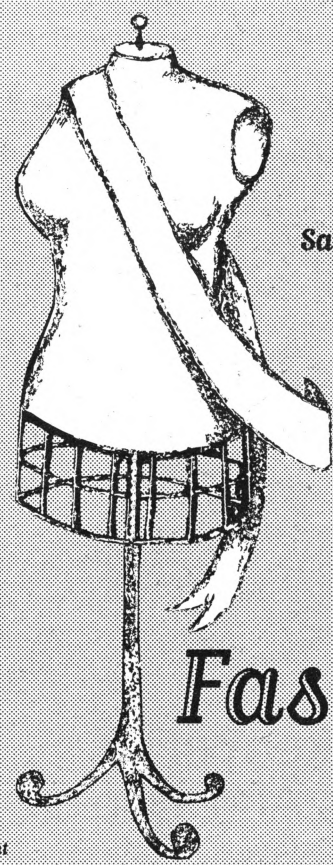
Saturday, November 13
BLATCHFORD SCHOLARSHIP POWWOW: The annual fundraiser for MU's only scholarship designated for Native-American students will feature traditional Native-American singing, dancing, arts and crafts from noon-8 p.m. in the Trowbridge Center today and noon-6 p.m. tomorrow. The grand entry will begin at 2 p.m. each day. Suggested donation: \$2.
INTERNATIONAL FASHION SHOW: International Students Organization will show modern and traditional outfits from their countries from 8-11 p.m. in the Memorial Union's Stotler Lounge.

Sunday, November 14
HEARNES CENTER CRAFT SHOW: The

Fall Art & Craft Show will be held today in the Hearnes Center from 11 a.m.-5 p.m. Cost: \$2 for adults, \$1 for 6-12, free for children 5 and under.

Monday, November 15
MINORITY GRADUATE EDUCATION EVENT: Darrell Johnson, manager of recruitment and retention for the National Consortium for Graduate Degrees for Minorities in Engineering and Science, will

meet with faculty and staff to discuss opportunities for enhancing minority participation in graduate education from 11:30 a.m.-12:15 p.m. in N222/223 Memorial Union, and through a lunch session from 12:15-1 p.m. Registration is required, call 882-7090 or e-mail lickliderl@missouri.edu



8:00 pm
Saturday November 13
Stotler Lounge
Memorial Union

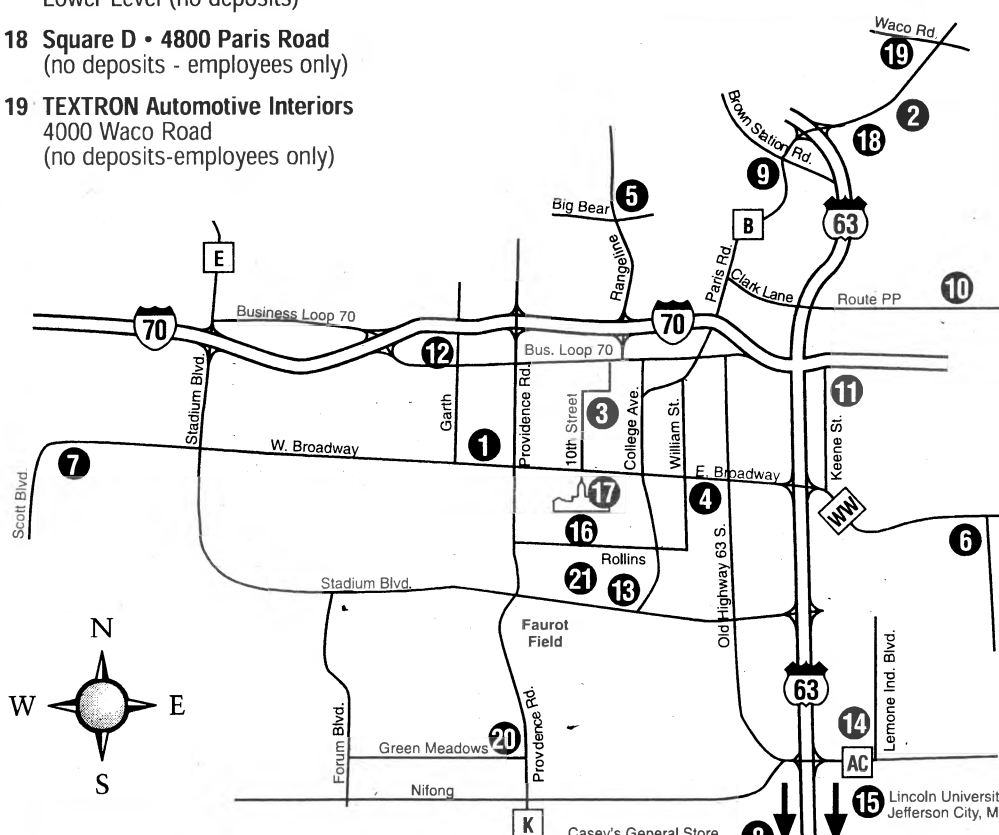
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-3209 Lemone Industrial Drive
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- Lincoln University**
Scruggs Center • Cafeteria Level
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- MU Campus • Brady Commons**
(north side) • Rollins Road
- MU Campus • Jesse Hall**
Lower Level (no deposits)
- Square D • 4800 Paris Road**
(no deposits - employees only)
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Classifieds

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Visiting Professor and spouse seek house/condo/apt to rent Jan-June, 2000. Prefer furnished. Call doug Randall, 882-4847; Rick Jagger 970-943-2086; e-mail rjagger@western.edu.

The Classified Advertising Section is open to faculty and staff members, and retirees.

A home phone number is required in all ads. Campus phone numbers will not be printed. No refunds will be given for cancelled ads. Ads must be typed.

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Mizzou Weekly Classifieds: Make your check payable to University of Missouri and send to Mizzou Weekly, 407 Reynolds Alumni Center, Columbia, Mo. 65211. Attention: Will Miller.



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'Resource Mothers' program helps pregnant teenagers

Sierra James approached her pregnancy with the gusto and enthusiasm of any expectant mother, but her ardor was tempered by the knowledge of challenges ahead. After all, James was just 17 years old when she gave birth to Joshua, now a plump and bright-eyed two-month-old.

"I was scared," James recalled. "I needed a lot of people there with me and a lot of support." That's exactly what she got. Her mom was present for the birth, and so was the baby's father. One of her biggest sources of support, though, came from a woman she'd never lain eyes on until well into her second trimester. Lania Knight is James' friend and confidant. The two met after James joined Resource Mothers, a program introduced to Boone County by MU Extension.

"Lania's someone I can really talk to on the same level — I don't have to feel shy," James said. "She's really interested in my life and helping me out, and we have a lot of the same ideas about raising children."

Resource Mothers pairs pregnant teenagers with older mentors — usually mothers themselves — who provide guidance and support through the pregnancy and first year of life. In fostering this relationship, the program aims to improve the health of the teen mother and her infant, reduce child abuse potential, reduce parenting stress and support positive decision making.

"Research shows that if mothers have healthy babies and if they are knowledgeable about parenting, they're less likely to feel stress," said Lynn Blinn Pike, an associate professor of human development and family studies and MU Extension state specialist who helped organize the pilot program in 1993.

In evaluating results of the pilot program, researchers found significantly reduced child abuse potential; significantly reduced feelings of distress

and social isolation; fewer hospital visits for infants; more commitment to breast feeding; and fewer repeat pregnancies.

"Many of these girls lack the social support they need during this transition in their lives," Pike said. "Some want a best friend. Others want a mother figure."

The mentoring relationship supplements the pregnant teen's natural social support network, which in many cases is dwindling or nonexistent. From doctor visits to attending monthly group meetings, the mentor's role is to encourage the young mother to make responsible decisions for the sake of her baby. Some mentors help determine a financial budget, others attend Lamaze classes with their younger partners.

"I know how incredibly hard it is," said Knight, a 30-year-old mother of two. "No one told me that, though. I thought everyone else was just breezing through, and I was struggling along. I wanted to be very honest with her about my experience."

For James, the program helped her keep sight of the future. Although she quit attending high school shortly after she learned she was pregnant, Knight helped James study for and pass the General Equivalency Diploma exam last June. In January, she'll begin working toward a degree in social work at MU.

"I'm really thankful that we had something like that to work on together," Knight said. "We had a task before us, but we were able to talk about the pregnancy in between math problems and studying."

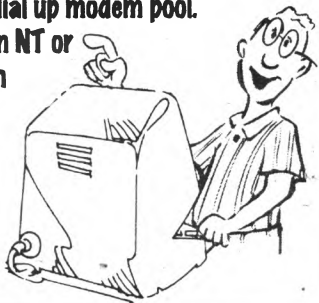
With 14 Missouri communities sponsoring outreach groups modeled after Resource Mothers, MU Extension no longer directly administers the program. MU Extension's role now is to disseminate information and training materials and provide technical support to communities interested in introducing a Resource Mothers program.

Geek Speak

What they say...

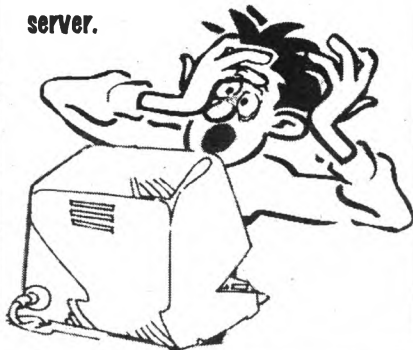
A single sign-on (SSO) ID is now required for faculty and staff for authentication to the no charge dial up modem pool.

You need to get an NT or Exchange ID which will authenticate you to Kerberos, NDS and NT which includes the Exchange server.



What we hear...

Blah blah modem blah blah blah exchange blah blah blah blah won't be able to blah blah blah blah blah server.



Translation: It's all the same.

PawPrint=SSO ID=Exchange ID=NT ID.

One ID & one password gives faculty and staff access to Exchange e-mail & calendar, WebCT, dialup modem use, computing sites. Show-me will be included later.

For clear explanations of hundreds of IT topics, check out the IAT Services KnowledgeBase at <https://iats.missouri.edu/kb/>

**iat
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This translation provided as a public service courtesy of IAT Services.

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ELLIS LIBRARY COPY CENTER'S SCHOLAR-ATHLETE OF THE WEEK

CHRISTINA SKOUBY

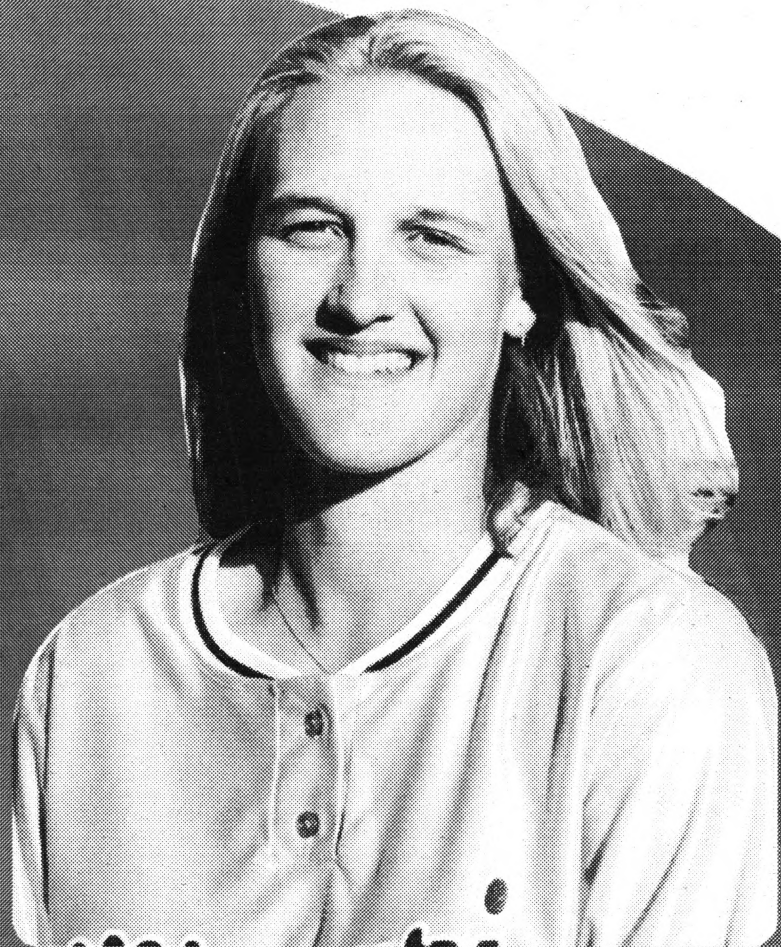
What is your idea of perfect happiness?

Coming home from a career you love to be surrounded by family and friends.

"If God had meant for today to be perfect, He wouldn't have invented tomorrow."

What is it that you most dislike?

Those who have great talents and abilities who throw them away when others would give anything for the same opportunities.



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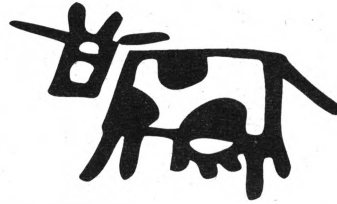
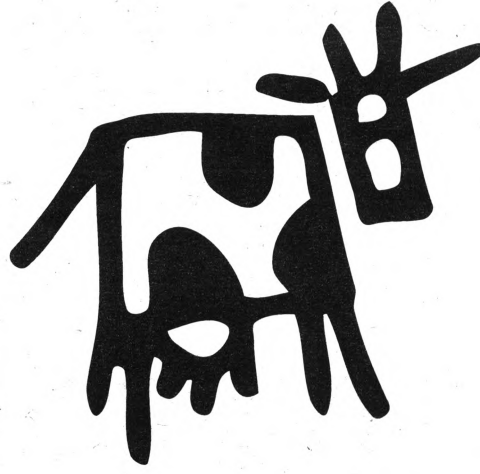
All Scholar-Athletes have a G.P.A. of 3.0 or higher.

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BE ADVISED:

For approximately two hours after the Mizzou vs. Texas A&M football game on November 13, all traffic on Hospital Drive will be running in two east-bound lanes. There will not be any west-bound traffic allowed on Hospital Drive during this time.



Moooove

your fingers through the Student, Faculty and Staff Telephone Directory's Yellow Pages to find the information you need. The new 1999-2000 directories were delivered to campus offices in early November.

With questions, call
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Source ID Duplicate copies University Archives weeded out
Notes Volume 21, Number 1, page 6 has a small piece of white paper
glued to the upper right corner that covers some text.

Capture information

Date captured July-December, 2022
Scanner manufacturer Plustek OpticBook
Scanner model A300 Plus
Scanning system software Book Pavilion
Optical resolution 600 dpi
Color settings 8 bit grayscale for majority of pages;
24 bit color for color illustrations/portraits/photographs
File types tiff
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