

THE MAGAZINE OF THE MU ALUMNI ASSOCIATION

MIZZOU

SPRING 2005 • VOLUME 93 • NUMBER 3

**Chowing Down
in a College Town 16**

Learning to Live With Autism 20

Science Goes Into Business 26

Pocket These 10 Must-know Mizzou Facts 30

Laugh Your Way to Better Health 32



**NOT PLANNING
FOR RETIREMENT
DOESN'T MAKE MUCH SENSE EITHER.**

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Edward Jones
MAKING SENSE OF INVESTING

MIZZOU

SPRING 2005 • VOLUME 93 • NUMBER 3

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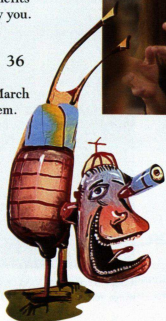
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COLUMBIA MISSOURIAN PHOTO
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FROM THE EDITOR

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WHAT'S TO EAT?

IT'S A FAIR QUESTION POSED BY YOUNGSTERS, especially hungry college students — some of whom are still growing. On those Sunday nights when you were in college and meals weren't served in the residence halls, where did you go? Pizza was my favorite. My boyfriend and future husband, Bob, and I would head downtown to a little place called Pizza Inn at Seventh and Broadway. Sausage, pepperoni and mushroom was our favorite combo. In John Beahler's trip down culinary lane on Page 16, he recounts favorite spaces and places of generations of college students. Pizza, burgers, tacos, steak — you name it. Columbia restaurateurs were, and are, happy to serve it.

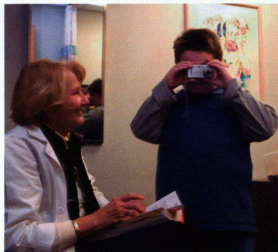
Things are cooking in Mizzou labs, too, where the fertile minds of researchers are at work. As they discover ideas, a new business incubator will help chart the course to bring those ideas and products to market. That, in turn, begets business, which begets jobs, which grow Missouri's economy. Good stuff. Chris Blose's story "Lab to Market" on Page 26 details how.

Mizzou's faculty members help in other ways, too. Judith Miles, co-director of the Center for Autistic Disorders at Children's Hospital, marshals Mizzou's experts in medicine, health professions, education and public policy to help families cope with autism. A list of those experts is included in "Reaching for Answers" on Page 20.

On the lighter side, alumna author, speaker and nurse Karyn Buxman decided some time back that humor is good medicine. Dale Smith's story "Ha Ha for Health" on Page 32 shares some of Buxman's strategies for finding fun in everyday trials and tribulations. Her main message? Lighten up. In the same vein, instructor Robin Hurst-March takes an unorthodox approach to teaching science to nonscience majors on Page 36.

As an MU graduate, are you in the know? We want you to be. On Page 30, find 10 short snippets of Mizzou facts. Clip them out and let 'em ride in your hip pocket. When the time seems right, pull them out and tell the world the things you know about this 166-year-old land-grant, research state university.

— Karen Flandermeyer
Worley, Bf '73



Autism expert Judith Miles enjoys seeing her patient, Elijah Wingo, focus his camera on MIZZOU photographer Rob Hill.

MISSOURI MAIL

A FRIENDLY TRUMAN

My wife and I certainly enjoyed reading the article about Richard Kirkendall's speech on Harry Truman ["Truman's Legacy Lives On," Association News, Winter 2005] at a Puget Sound Chapter meeting.

The article definitely represents the story about Harry Truman that evening. We both enjoyed Kirkendall's presentation and the personal contact he made with each of us. For us, there is a little bit of "the rest of the story." Kathleen McGrew Boeckstiegel's father served in the army with Harry Truman. She grew up hearing about Truman from her father.

Although we have lived in the Northwest since 1955, we visit Missouri often. The rest of the story is that we were able to visit with President Truman in the Truman Library with our children on one of our trips to Missouri. He welcomed us

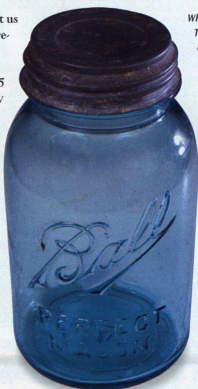
in his friendly manner and put us at ease immediately. This represents the nature of Truman that Kirkendall described.

LEE BOECKSTIEGEL, BS '55
KATHLEEN MCGREW
BOECKSTIEGEL,
BS '54, MA '55
SHORELINE, WASH.

SPECIAL TREAT FOR A 'BACKWARD' READER

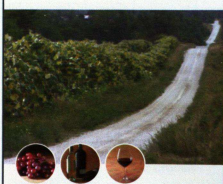
Always, I enjoy your magazine. But the Winter 2005 issue held a special treat for me. Usually, I read magazines from back to front, so when I was almost finished, I encountered the article about Marguerite Berwick Thompson ["Getting a Helping Hand," From

When Marguerite Berwick Thompson, featured in our Winter 2005 issue, was young, she and younger sister Alice received home canning tips from an MU Extension worker.



the Editor]. What a beautiful story. What a triumph! Marguerite and Alice touched my heart and brought tears to my eyes. They were brave and enterprising youngsters after their mother died,

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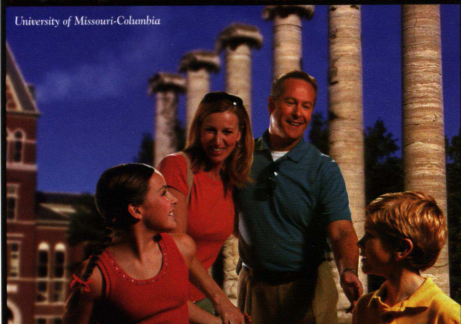


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SOMETIMES

GETTING AWAY FROM IT ALL MEANS GOING BACK WHERE



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IT ALL BEGAN

In Missouri, we like to think homecoming takes place year round. From state parks and amusement parks to campgrounds and aquariums, we offer countless places to reconnect with your family. You could win one of five Missouri vacations, or even a Ford Escape Hybrid. Register today, and take your little Tigers on an escape. Register online at VisitMO.com, or by calling 1-800-519-6300.



and I could not summon enough admiration for them.

What a great story you wrote. What a tribute to University Extension. What a pair of girls! Thank you for writing about the Berwicks and then the Thompsons' farming enterprise.

DR. LOIS SCHILLIE EIKLEBERRY
BS MED '51, LAKEWOOD, COLO.

STEREOTYPES AND SENSITIVITY

I am astonished that Mizzou would publish an article ["Living Off the Vine," Winter 2005] that is racially insensitive as demonstrated by the quote, "Other columns sound like they're written by middle-aged white guys who drink alone."

Substitute the word *black* for *white* and you would have outrage from your readers and the politically correct crowd, and rightly so. Dorothy Gaiter would likely lose her job. Any reference to race brings stereotypes that are not healthy for our society. The remark ruined an otherwise interesting article.

Dorothy Gaiter may be a writer for *The Wall Street Journal*, but she should keep her opinions of certain demographic segments of our society to herself. It seems inconsistent for a writer of her stature to be unaware of the impact a comment like this could have.

GEORGE FISHER, BS BA '76
PLANO, TEXAS

Response from Dorothy Gaiter, BJ '73: I'm sorry if any readers took offense. My comment was intended to be light-hearted and also a critique of the wine industry that historically has hurt its cause by promoting wine as something belonging to an exclusive enclave that is white, male, wealthy and cultured. As to the veracity of the stereotype, most wine writers are indeed white, middle-aged males.

LESSONS IN LANGUAGE

Thanks for the pictures of Spider Burke. I, along with other readers responding, fondly remember his high-powered

MIZZOU MAIL

delivery. I am sure he made a great U.S. Army officer.

When I was a freshman band member in the stands, Spider's "Yell like hell, damn it!" was my introduction to the kind of language we did not use in Lamar (Mo.) High School cheers. But I figured he was serious about it, so I complied. At halftime I tried to play my clarinet the same way, still fired up by Spider's rants. It was great!

Hurray Hurray, Mizzou, Mizzou; Tigers, Tigers, Tigers!
JOE PALEN, BS CHE '57
EUGENE, ORE.

ANYONE MISSING A YEARBOOK?

I have in my possession a 1921 *Savitar* with the following signature on the



inside of the front cover: Brutus Hamilton, Harrisonville, Mo.

I found this book in 1947 on my grandfather's farm near Steedman, Mo. (about 20 miles south of Fulton). I was a student at the University at the time, and, knowing of Hamilton's athletic reputation

[Hamilton stood out as both an MU and Olympic track star], I intended to offer it to the athletics department. Somehow, I lost track of it.

I recently came across it again while throwing out some old textbooks.

No one in my family ever had any connection with Brutus Hamilton. How it came to be on that farm is a complete mystery. Although several relatives were raised there early in the century, none that I know of ever went past grammar school.

I would like to send this book to any Alumnus Brutus Hamilton was an Olympic decathlete and pentathlete.

one who has an interest in it, perhaps a family member or someone associated with the University.

JAMES ESTES, BA '50
GLADSTONE, MO.

Editor's note: If you have information about this Savitar or are interested in it, please send an e-mail to mizzou@mizzou.edu.

MIZZOU magazine welcomes your letters, which may be edited for length, clarity and style. Please include your daytime telephone number, address and degree/year. Address: 407 Donald W. Reynolds Alumni and Visitor Center, Columbia, MO 65211, phone (573) 882-7357, fax (573) 882-7290, e-mail: mizzou@mizzou.edu

ALL FOR ONE MIZZOU!

Kansas City Black and Gold Tiger Ball

Hyatt Regency Crown Center. Special guest is Mort Walker. Honorary Co-Chairs are Larry Moore and Quin Snyder.

Benefiting the Kansas City Alumni Chapter scholarship program and the Tiger Scholarship Fund

Patrons' Party: 6 p.m.
Ball starts at 7:30 p.m.

For more information, call 1-816-916-8339.

Sponsored by the KC Chapter of the MU Alumni Association and the Tiger Club of KC.

St. Louis Tiger Romp ... at Rams Park

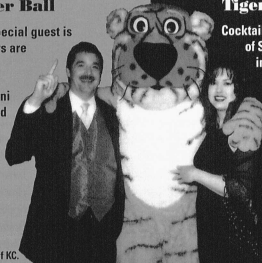
Cocktails, dinner, dancing and tours of St. Louis Rams Park. Special guests include John Anderson and Matt Winer of ESPN.

7 to 11 p.m.

Benefiting the St. Louis Alumni Chapter scholarship program and the Tiger Scholarship Fund

For more information about Tiger Romp, call 1-800-372-MUAA.

Sponsored by the St. Louis Chapter of the MU Alumni Association and the St. Louis Tiger Club.



ONE BIG NIGHT! TWO GREAT EVENTS! APRIL 22, 2005

AROUND THE COLUMNS

AN UNCOMMON SPACE

IN THE NEW JAMES B. NUTTER FAMILY Information Commons on the south side of Ellis Library, students can search electronic databases, check e-mail, write papers, work on group projects or just cozy up with a good book.

"We call this a collaborative learning environment," says Jim Cogswell, director of libraries. "Students just think of it as a cool place to study."

A \$1 million gift from James B. Nutter Sr., BS BA '49, and his family funded the renovation, which includes 25,000 square feet filled with more than 100 computers; electronic resources; traditional print resources such as encyclopedias, almanacs and indexes; and experienced staff to help students find what they're looking for.

The center of the commons features an airy, open space known as "the forest." Pillars embellished with wooden beams that stretch to the ceiling like tree

FOR ALL WE CALL

MIZZOU

Campaign Progress
(in millions)

Students \$119.73

Goal

(in millions)

\$115

Faculty \$36.52

\$97

Programs \$171.74

\$154

Facilities \$104.53

\$134

Private Grants \$92.3

\$100

TOTAL \$524.82

\$600

As of Jan. 31, the For All We Call Mizzou campaign has raised \$524.82 million, or 87.47 percent of its \$600 million goal.

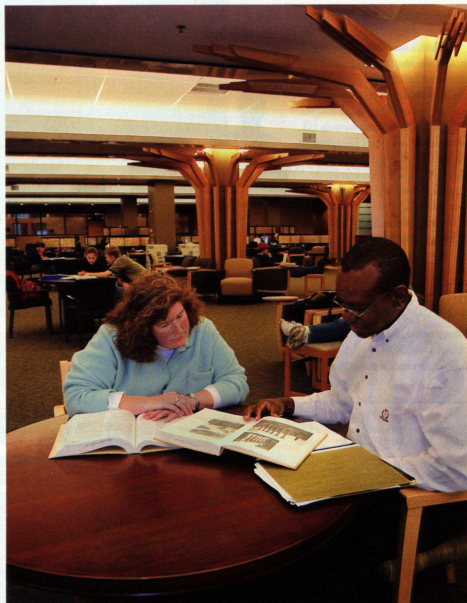


PHOTO BY STEVE MORSE

branches, scattered tables, comfortable chairs and plenty of natural light create a pleasant place for reading and research.

The commons also includes wireless Internet access for laptops, enclosed areas for seminars or study groups, and a series of glass partitions that display the names of literary figures from Missouri's past.

Results from informal head counts show that 37 percent more students use the space now than before the renovation.

During the For All We Call Mizzou campaign, dozens of library supporters

Social work students Angela Davis and Andrew Muriuki work together in Ellis Library's new James B. Nutter Family Information Commons.

have directed their gifts to the information commons, which offers naming opportunities for everything from furniture clusters to large study rooms. The main entrance to the commons, on the west side of Ellis Library, has also been renovated and is now the Richard L. Wallace Atrium, named in honor of Chancellor Emeritus Wallace.

Other recent gifts and pledges to the

AROUND THE COLUMNS

For All We Call Mizzou campaign include:

- \$7.5 million from Thomas Lafferre, BS ME '56, and Nell Lafferre, Arts '55, for planning and construction of engineering facilities. As a result of the donation, the University of Missouri System Board of Curators approved the renaming of Engineering Building East to Thomas and Nell Lafferre Hall.

- A \$2 million charitable lead trust from Hugh E. Stephenson Jr., BA, BS Med '43, and Sarah D. Stephenson of Columbia to create a deanship in the School of Medicine.

- An estate gift valued at more than \$1 million from Mr. and Mrs. Harold J. Hudson Jr., BS BA '45, JD '48, of Kansas City, Mo., for the study of dispute resolution in the School of Law.

- A \$1.8 million estate gift from Edward E. Vincent, BS BA '42, of St. Joseph, Mo., to create the William C. Vincent Family Endowment for financial aid for graduates of Central High School in St. Joseph, with preference for students who attend the College of Business.

- \$1 million from Ameren Corp. of St. Louis to provide undergraduate lab and student seminar equipment for the College of Engineering's electrical and computer engineering department.

MIZZOU IN THE CITY

WHEN ALPACHINO HOGUE walks into a public high school in urban St. Louis or Kansas City, he's not just another recruiter in a suit. He relaxes students by saying, "Call me Chino," and he reveals himself as a guy who was sitting where they are not so long ago.

Hogue, BJ '04, an admissions representative for MU in the newly created post of minority coordinator, graduated in December 2004 but has been working full time since January 2004.

His service as a Mizzou spokesman goes back even further. After graduating from

Soldan International Studies High School in St. Louis and coming to MU, Hogue started working with United Ambassadors, a minority student recruitment program. "I was loving Mizzou," Hogue says. "Why not tell other people about it?"

That attitude has led him to his current position, in which he focuses on urban areas in St. Louis and Kansas City. The goal is to recruit more students from those public school districts as part of a push to increase minority enrollment overall. St. Louis city schools are about 84 percent nonwhite, for example, and the district schools in Kansas City are about 85 percent nonwhite.

Hogue brings the credibility of someone who has shared the concerns kids in those schools have. He says one of their biggest hurdles is not knowing the right questions to ask about admissions. For those who are first-generation college students, as he was, the families haven't been through the process. Other concerns include college costs and meeting ACT requirements.

Hogue points students toward information on getting through the process and finding scholarships. In some cases, he suggests a summer trial admissions program. He pursues his work enthusiastically and thinks it's important to the future of recruitment. "As a state institution, our job is to serve all the constituents of the state," he says.



COLUMBIA MISSOURIAN PHOTO BY JULIENNE RENANOUR

Admissions representative Alpachino Hogue, standing, recruits in urban schools in St. Louis and Kansas City to increase minority enrollment at MU.

BRIEFLY

• Chancellor Brady Deaton and others honored victims of the Indian Ocean earthquake and tsunami at a service for the University community Jan. 25 on Francis Quadrangle. Afterward, the bell atop Switzler Hall tolled in memory of the tens of thousands of victims. Among the many faculty and students who mounted relief efforts, Syed Arshad Husain, chief of child and adolescent psychiatry, led a team of experts to south Asia, where they trained teachers and mental health workers to provide therapy to children who have been traumatized by the tsunami. More: international.missouri.edu/tsunami

• Researchers from engineering, health informatics and nursing will use \$2.2 million in federal grants to develop special monitoring technology at TigerPlace, a 33-unit apartment complex for the elderly in Columbia operated by the Sinclair School of Nursing and Americare Systems Inc. The technology will be able to record seniors' normal patterns and document changes that may signal health problems.

• Gov. Matt Blunt appointed three people to six-year terms on the University of Missouri System Board of Curators to replace those whose terms ended Jan. 1. The new curators are John Carnahan III, JD '74, of Springfield, Mo.; Doug Russell, BS BA '77, of Lebanon, Mo.; and David Wasinger, BS Acc '85, of St. Louis.

• FarmHouse, an international fraternity founded in 1905 at MU to exemplify agriculture and rural living, will celebrate its centennial on campus April 14 to 17. More: www.farmhouse.org



ON THE CUTTING EDGE

STEVE EUBANKS AND A NEW GENERATION of surgeons are using high-resolution television monitors, lasers, fiber optics and miniature video cameras to turn around traditional operating room techniques. Eubanks, Mizzou's new surgery department chair, is an expert in what is called laparoscopic surgery.

Just a few years ago, most gallbladder operations were done the traditional way: A surgeon cut into the patient's abdomen, removed the diseased organ and sewed up the incision. The patient spent as long as a week in the hospital. Because of the incision, recovery often was painful, and infections and other complications were dangerous possibilities.

Now, during a laparoscopic surgery, Eubanks makes a half-inch incision at the patient's bellybutton and threads a thin plastic tube into the abdomen. Through this tube, he inserts a small telescope, called a laparoscope, which is attached to a miniature camera that sends pictures from inside the patient's abdomen to a video monitor in the operating room. Eubanks can insert tiny surgical instruments through other small incisions to remove the gallbladder and other organs such as the adrenal gland or spleen.

Last year, U.S. surgeons performed nearly 800,000 laparoscopic gallbladder operations, and they're also using the technique in other surgical procedures, from hysterectomies to hernia repairs to pancreas surgeries. Many colon operations now are performed laparoscopically. It's called minimally invasive surgery because patients recover faster, with less pain and little scarring. They also go home sooner, usually in a day or two.

"This field of surgery did not evolve from a new invention but rather from a convergence of existing technologies," Eubanks says. "There have been improvements in surgical skills and techniques as we have become more adept at these



Working through a half-inch incision, Steve Eubanks, surgery department chair, performs laparoscopic surgeries that result in fewer medical complications and a speedier recovery for patients.

procedures." There also have been improvements in the technology that allows surgeons to look inside their patients' bodies and see precisely where they have to cut. Eubanks compares those advances to the difference between a fuzzy black-and-white TV and a high-definition plasma screen television.

His goal at MU is to build a center for minimally invasive surgery to train young surgeons and update established physicians in laparoscopic techniques. "This part of the country has lagged behind in

access to the most advanced of these procedures," Eubanks says. "We want to improve the overall health care of this region."

ALL'S WELL THAT ENDS WELL

FOR YEARS, PSYCHOLOGISTS USED the example of Shakespeare's *Romeo and Juliet* to summarize their thinking about parental influence over adolescent romances: Like the Montague and Capulet families' feud, parental disapproval of a romantic partner will drive a young couple closer together. Or so they thought. According to new research by Tamika Barkley, a senior psychology major from Cape

AROUND THE COLUMNS



PHOTO BY JOHN BUNCE

Girardeau, Mo., that theory may be much ado about nothing.

Through the Louis Stokes Missouri Alliance for Minority Participation program, Barkley administered written surveys to undergraduates about social support and relationships. Her faculty mentor was Colleen Sinclair, a resident instructor in psychology. Barkley's survey questions probed how much respondents' friends, family and society either supported or opposed respondents' sweethearts and how that influenced their feelings.

The results? Barkley's research takes down the *Romeo and Juliet* theory by suggesting that parents may be able to disapprove of their child's love interest

without pushing the young people into each other's arms. The key lies in the relationship between parent and child. If they are close and the parent disapproves, Barkley says, the romance is more likely to cool off. But when the family isn't close, that influence is slight to nonexistent.

Therefore, parents take heed. Stay close to your children, or all may not end as you like it.

MR. SMITH GOES TO LAW SCHOOL

ANTWAUN SMITH COULD HAVE GONE to law school anywhere. Smith, BA '98, is a Rhodes scholar and a former vice president of a global investment banking firm in China. He earned his master's degree in business administration from Oxford University and studied Chinese religion, history and language at Harvard. He had many open doors before him, and he chose to return to MU to attend law school.

The 29-year-old says his interest in politics and public service was one of the reasons he returned to Mizzou, which counts governors, members of the Missouri General Assembly, state Supreme Court justices and U.S. congressional representatives among its law school alumni.

"The law school here tries to cultivate that public interest side of the law," Smith says. "Not all law schools do that."

Smith has more than a casual interest in public service. He embarked on an unusual odyssey into national politics when he met former U.S. Sen. Gary Hart at Oxford.

Smith and a fellow student became convinced that Hart, a national security expert, should run for president in 2004. Smith even worked as a political and strategic adviser to Hart as they explored the idea. Although Hart never officially entered the race, Smith helped generate national media attention for his proposed presidential candidate.

"The Hart stuff was so exciting," Smith recalls somewhat wistfully, just days after the 2004 election. "It's more fun and energizing to be directly involved."

In law school, Smith will have many opportunities for direct involvement. For example, the school's externship program offers course credit to students working under the supervision of a lawyer or judge serving in government or a public or not-for-profit law office.

But for now, Smith says he is content to work on projects that promote constructive conversations between different political perspectives on campus: "That's one of the roles of an institution like Mizzou: to develop students into citizens."

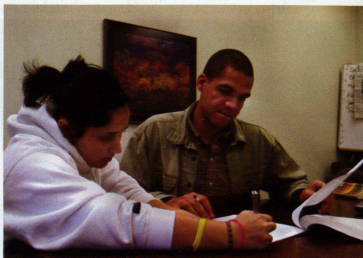


PHOTO BY ADAM MASLOSKI

When Rhodes scholar Antwaun Smith, right, is not busy with his own class work as a first-year law student, he tutors for the University's Writing Intensive Tutorial Services. Smith earned his bachelor's degree from MU in 1998 and returned in 2004 to attend law school.

BETTER NURSING HOMES

DURING HER CAREER IN HEALTH care, Jill Scott-Cawiezell has seen the care of the elderly as a nurse, hospital administrator and researcher, but that's not what really drives her desire to improve care in America's nursing homes. "First and foremost, I'm a granddaughter of someone in a nursing home," says Scott-Cawiezell, MS '94, PhD '98, a new faculty member in MU's Sinclair School of Nursing.

In her research, Scott-Cawiezell is among a small group of investigators exploring working conditions in nursing homes, which are besieged by quality concerns. She looked at how communication, relationships and leadership influence the quality of care that employees deliver to residents. Scott studied the organizational cultures of 32 nursing homes from small to large using on-site observation, interviews and surveys. She expected to find mainly rigid, top-down organizations that are good at making rules and following them. Such cultures often lack the flexibility to solve problems that front-line caregivers encounter, she says. As a result, these organizations

are better at maintaining the status quo than at making necessary improvements.

Although Scott-Cawiezell found plenty of top-down management, she was delighted that in most of the homes she also found the beginnings of a group-oriented approach in which managers and lower-level employees tackle problems together. "That's the message of hope in all this," Scott-Cawiezell says. "I see it in the eyes of the employees who come into my grandmother's room. Many of the certified nurse assistants may not have the education of other health care providers, but they have big hearts, and they've come together to serve the elderly. They are an informal power source, but they are a force. It's often the unsanctioned leaders that have the greatest impact. These elements are there; we just need to learn how to maximize them."

LICENSE TO DRINK?

FOR MANY TEENAGERS, A DRIVER'S license is a ticket to freedom — the freedom to go on a date without a chaperoning chauffeur, to change plans without finding a new ride and, perhaps, to escape Mom and Dad's supervision long enough to down a few beers.

Denis McCarthy, assistant professor of psychology, recently found that teenagers are, indeed, more likely to drink or smoke cigarettes or marijuana after they obtain their driver's licenses, but the association isn't as strong as one might think.

In a study published in the

Journal of Studies on Alcohol, McCarthy surveyed 2,865 high school students twice over the course of one year about their alcohol, cigarette and marijuana use; peers' substance use; and attitudes toward drinking and driving. Results showed that a new driver's license is associated with increased frequency of substance use but not with changes in quantity of substance use. Teenagers who occasionally have a beer before they get their driver's licenses might indulge more often afterward, but they're not necessarily going to become binge drinkers overnight.

McCarthy is intrigued by survey results that show new drivers are more concerned about the dangers of driving under the influence than experienced teen drivers or even younger nondrivers are. He calls the first few months of driving a "period of protection" and believes they could offer a valuable opportunity to reinforce warnings about the dangers of impaired driving.

As for parents who wonder if suspending driving privileges is an effective deterrent for teens caught drinking or doing drugs, McCarthy says his study doesn't indicate whether that penalty would curb such behavior. Still, he allows, "There is a relationship; it's not a random punishment."

In other words, more research is needed to determine whether losing a driver's license — and the intoxicating freedom that comes with it — truly is a buzzkill.

LOW BILLING, HIGH MARKS

START READING AT THE TOP OF THE résumé of Chris Hardin, associate professor of medical pharmacology and physiology. It'll be quite a while — past his education, teaching, research, publications and other professional activities — before the appearance of the heading "Other Mentoring (undergraduate students, others)." That low billing

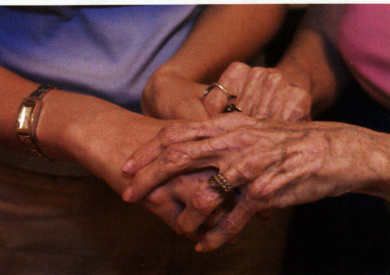


PHOTO BY STEVE MORSE

Jill Scott-Cawiezell, a new nurse-researcher at Mizzou, studies the working conditions of those whose hands provide care and control in nursing homes.

AROUND THE COLUMNS



PHOTO COURTESY OF CHRIS HARDIN

Among MU's life sciences faculty, Chris Hardin, third from left, has taken the most undergraduates to international meetings to present their work. In 1998, Hardin took students, from left, Tara Allen, PhD '00; Dorian Finder, BS Ag '98, MS '02; and Tina Roberts, BS Ag '93, MS '00, to Athens, Greece, for the World Congress for the International Society for Heart Research.

belies Hardin's large commitment to helping students master laboratory skills, write up their results and present them to others.

In some campus departments, this would be commendable but not remarkable. However, the School of Medicine, Hardin's academic home, doesn't even offer undergraduate degrees. Nor do its faculty members advise undergraduates. Still, Hardin has the distinction among life sciences faculty campuswide of having taken the most undergraduates to international meetings to present their work, much of it done through the Life Sciences Undergraduate Research Opportunity Program.

Why go to the extra trouble? "It's fun to have undergraduates around the lab," Hardin says. "The drive and raw talent they have is quite high. With bright and enthusiastic students,

teaching can't get much better."

Students learn a range of technical skills, depending on the project, but that's not all. "The most important things they learn are reasoning skills and the ability to dive into primary literature like a professional." For students contemplating graduate school, the experience gives them a taste of what they'd be signing up for. Premed majors will be better prepared as physicians to make treatment decisions based on the research studies they must read to keep up in their fields.

CHOWHOUNDS

AS AMERICA SUPER-SIZES ITS diet, veterinarians warn that our pets are waddling along with us on the way to an obesity epidemic. Some estimate that 25 percent to 40 percent of companion animals are overweight.

Robert Backus, assistant professor of veterinary medicine, says pooches are getting pudgier for some of the same reasons people are — too much food and too little

exercise. As director of MU's Nestle Purina Small Animal Nutrition Program, Backus studies the impact of diet on pets' health. He says overweight dogs and cats suffer some of the same health problems as hefty humans, including diabetes, heart disease, arthritis complications and cancer.

If your Labrador has developed love handles, the remedy probably is in the doggy dish. Cut back on the chow, Backus advises. "Pet food companies try to make their products more palatable. The food probably has better nutrition today, but our pets are just getting too much of it."

There are other reasons for the national bulge in pet obesity, Backus says. Cats and dogs are living longer now, and middle-aged animals typically are heavier than young animals. Also, more are spayed or neutered, which increases their body weight.

One of the mysteries in nutrition research is why some animals get fat and others don't. There are geographic differences in obesity rates and also variations between different breeds. Labs, cairn terriers and beagles are more likely than greyhounds or boxers to chow down too much.

Some things about pet obesity are not a mystery. "We do know that overweight dogs have overweight owners, and that presents a problem," Backus says. "To get a dog to lose weight, you have to change the lifestyle of the pet, which means you have to change the lifestyle of the owner."

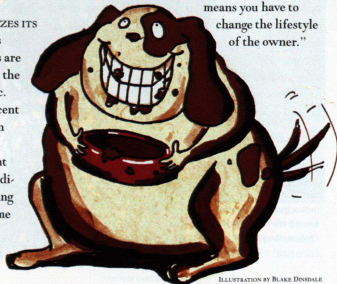


ILLUSTRATION BY BLAKE DINSDALE

AROUND THE COLUMNS

MANNEQUIN MONEYMAKER

THE MISSOURI HISTORIC COSTUME and Textile Collection in the College of Human Environmental Sciences includes more than 5,500 pieces from around the world that date from the 16th century to the present. Curator Laurel Wilson has Civil War uniforms, designer gowns, delicate tapestry fragments, homemade quilts and more. What she doesn't have is a place to put it all.

"Right now, we've got one small showcase with a few pieces on display in Gwynn Hall," Wilson says. "The rest of the collection is kept in two small storage rooms in Stanley Hall and in closets all over Gwynn."

In 2003, when a department store donated a set of 10 mannequins to the college, staffers saw a creative way to raise money for a new home for the historic collection. They asked ten local and alumni artists to give the unadorned mannequins some creative makeovers. Artists used glass, metal, paint, fabric and other materials to decorate the mannequins, which went on display at stores around downtown Columbia and were scheduled

Alumna Tootie Burns spent more than seven months cutting glass pieces by hand and arranging them on her mosaic mannequin. The mannequin was auctioned to benefit the Missouri Historic Costume and Textile Collection.

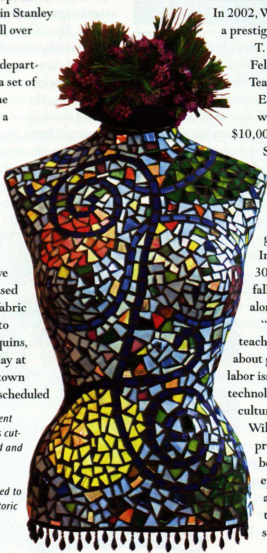


PHOTO BY ADAM MASLOSKI

for auction at a March 5 event called Mannequin Magic, held at the Tiger Hotel. Proceeds will support the renovation of three rooms that will become conservation, storage and display space for the historic costumes and textiles.

Tootie Burns, BS HES '88, of Columbia "dressed" her mannequin in a colorful mosaic of hand-cut glass. "I was eager to help the college," Burns says. "It's important to recognize that there is more to learning than what you get in a textbook."

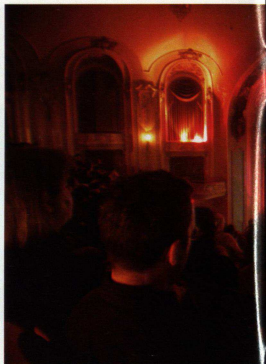
Wilson, an associate professor of textile and apparel management, says she uses pieces from the collection in her classes as often as possible.

In 2002, Wilson received a prestigious William

T. Kemper Fellowship for Teaching

Excellence, which includes a \$10,000 cash award. She donated her entire award to the historic collection, which she says grows every day. In fact, she added 300 pieces in the fall 2004 semester alone.

"The collection teaches students about global trade, labor issues, changing technology, economics, culture and history," Wilson says. "It provides a link between ephemeral ideas and knowledge that can be seen."



STRANGER THAN NONFICTION

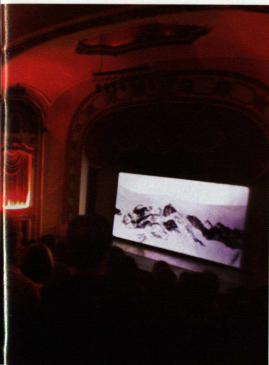
THANKS TO PIQUED PUBLIC interest and box office success, documentary films are no longer the exclusive domain of film geeks. Thanks to the political and polemical nature of many such films, people also are questioning the meaning of *nonfiction*.

It seems David Wilson and Paul Sturtz, founders of Columbia's Ragtag Cinemacafé, couldn't have picked a better time to hold the second True/False Film Festival (Feb. 25 to 27). They might even have been ahead of the trend when they brought 4,000 viewers to town in February 2004 for the first festival, which presented the idea of questioning truth in film.

"We wanted to sort of confront that tension head-on," Wilson says, "that tension between what's real and what's not real, which is something I feel should be in people's heads anytime they watch anything purporting to be a documentary."

With persistence and help from

AROUND THE COLUMNS



COLUMBIA DAILY TRIBUNE PHOTO BY ED PUELLER

Organizers of the True/False Film Festival hope to repeat the success they had in 2004's festival, which included a sold-out showing of the award-winning film *Touching the Void* at the Missouri Theatre.

friends and volunteers, Mizzou students among them, Wilson and Sturtz pulled together big-name documentaries in 2004. Films included Errol Morris' *The Fog of War*, which later won an Academy Award; *Control Room*, about the controversial Al Jazeera network; and *Touching the Void*, which mixes documentary and narrative film techniques. Director Kevin Macdonald presented the last to a sold-out Missouri Theatre a day before flying to England and winning the British equivalent of an Oscar.

With clout and momentum, this year's festival built on the trend, with regional, national and even North American premieres of some films. An example of the latter is *House of the Tiger King*, a film that blends documentary and fiction to portray a search for a lost Incan city. Other scheduled films included

Murderball, the opening night film about quadriplegic rugby players, plus a 10th anniversary showing of the award-winning *Hoop Dreams*. Filmmakers or subjects were scheduled to be in attendance for most of the films. Also scheduled were panel discussions, concerts, parties and a series of animated shorts produced by kids and adults at a November workshop.

Wilson says True/False's success comes in part from its clear focus; instead of being a catchall festival like so many others, it targets a popular niche. It also helps to hold it in Columbia's supportive environment, he says: "If you're willing to put everything into your project and put it out there for the community, they'll get behind it."

For more information, visit www.truefalse.org.

THE MANEATER HITS 50

OH, RAY HARTMANN COULD TELL you stories about his four-semester stint as editor in chief of *The Maneater*, MU's student-run newspaper, which turns 50 this year. Hartmann, BJ '74, founder of *Riverfront Times* and now co-owner of *St. Louis Magazine*, remembers the 80-hour weeks, for starters. And there was the time he worked all night preparing the paper for press and then fell asleep at the wheel on his way to the printer. And the semester he and Jeff Gluck, Arts '73 — Hartmann's *Maneater* business manager who later owned the *St. Louis Globe-Democrat* — skipped classes often but managed to score a grade point average of 2.9. "It was my 1.6 and his 1.3," Hartmann jokes. Kidding aside, he says, "It was my life."

The Maneater was founded in 1955 to advocate for students, says Sarah Larimer, current editor in chief. "It's a feisty paper with a lot of spunk and fire," she says. In part because *The Maneater* takes more chances, she prefers working

there to her stints at the *Columbia Missourian* for her courses at the School of Journalism. Larimer values her J-School courses, but editing *The Maneater* is what feeds her passion for her craft. "This is probably the best job I'll ever have in my life," she says.

Former editor in chief Julie Bykowicz, BJ '01, now a reporter at *The Baltimore Sun*, earned her journalistic sea legs at *The Maneater*. "It gave me the sense that I could be a reporter on my own, without the guidance of a professor," she says. "You find your own way, and it's not for a grade but for something you are making." Bykowicz says that journalism students are more likely to poke fun at the Greek system than to join in, and so she chuckles as she remembers the moment she realized that her *Maneater* staff had become as much a clan as any fraternity or sorority. "It was a lifestyle — that intensive involvement and commitment to your group," she says. "It defined my time at the University."

For information about *The Maneater* anniversary celebration Sept. 16 to 18, 2005, e-mail diehlb@missouri.edu.



MANEATER FILE PHOTO

Ray Hartmann edited *The Maneater* student newspaper in the early 1970s. As it has done to editors past and present, the job consumed his life.

AROUND THE COLUMNS

SHOOT FOR THE FUTURE

COACH STEVE PAXTON'S WHEELCHAIR basketball players display the kind of dedication you'd expect of big-time student athletes. They meet at 6 a.m. for three-hour practices. They lift weights. They shoot baskets, again and again.

That dedication is more impressive when you consider there are only two of them. The team's first-ever players, Steve Hathaway and Garrett French, can't exactly practice pick-and-roll plays or even scrimmage. They are working for the future, and they know it. Paxton, who came to MU in March 2004, and his players represent a whole new program.

Chuck Graham, former Missouri state representative and now a state senator, laid the foundation. As chair of the Appropriations-Education Committee, he added a \$200,000 annual appropriation for MU to start a disability sports and recreation program. Hiring Paxton to start the basketball team is the first step, but other sports may follow.

Graham, who has used a wheelchair since a car accident in 1981, had to leave his home state of Missouri so he could be a college athlete. He went to the University of Illinois, which had a well-established program. Now, he wants to make sure students can find the same thing without leaving Missouri.

"I'm glad I was able to be a catalyst in providing opportunities for students with disabilities to pursue more than just a degree from MU," Graham says.

Like Graham, Paxton uses a wheelchair and has played wheelchair basketball, which has similar rules to its counterpart. The court is the same length. The basket is the same height. The free-throw and three-point lines are the same distance from the basket. The minor differences come in dribbling rules (one dribble per two pushes of the chair) and getting an extra second in the lane.

Paxton has coached both wheelchair and able-bodied sports for more than 15 years. Now he's building a program from the ground up, which means getting the word out to potential players that MU can be a place to play. Guardedly optimistic, he hopes to have enough players to field a team in fall 2005. Doing so would make MU one of nine schools in the country with such a team.

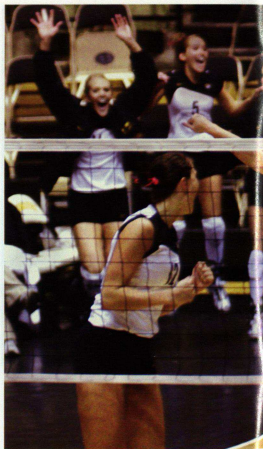
SETTING UP SUCCESS

THE LAUNDRY LIST OF ACCOMPLISHMENTS for the top-25 ranked Mizzou volleyball team in 2004 is reason enough to cheer: a 20-9 record and a fifth consecutive appearance in the NCAA tournament in December with a record-high 16th seed; one All-American, two All-Central Region and three All-Conference players; a tie for the most conference wins ever; and a team GPA of 3.27, the highest in program history, with seven of 12 players on the honor roll.

All that, and the team loses only one senior for next year. The future seems full of possibilities. "Year after year, we're continuing to build, and that's something we have to do to be a nationally competitive program," Coach Susan Kreklow says. "Looking ahead, gosh, it's exciting."

The team's one senior, Jenny Duitsman, was a major contributor, Kreklow says, with a .714 hitting average, the highest on the team. But the rest of the players will return in 2005, including the three who earned postseason honors.

Junior Lindsey Hunter, setter and an on-court leader, became the second All-American (second team) player in team history. Hunter's school record 14.43 assists per game was the highest average in the Big 12 and fourth highest in the nation. Sophomore Jessica Vander Kooi led the team in double-doubles and earned honorable mention All-Central Region and first-team All-Conference. Sophomore Shen Danru had the best kill average on



the team with 4.07 per game and earned honorable mention All-Conference.

The team's second-round NCAA loss to powerhouse Louisville was a disappointing season ender, but Kreklow says it might be a motivating factor for next season, when the Tigers hope to crack the Sweet 16 in the NCAA tournament. "I think the personality of this team is to say, 'OK, this is where we ended up. Now how do we go further?'"

SENIORS REACH FINISH

FOR SERENA RAMSEY AND JILL Petersen, leading MU's women's cross country team to an 11th place finish in the 2004 NCAA Championships was the culmination of four years of improvement. Those two, along with fellow senior Rachel Stollings, were a part of Coach Rebecca Wilmes' first recruiting class.

AROUND THE COLUMNS

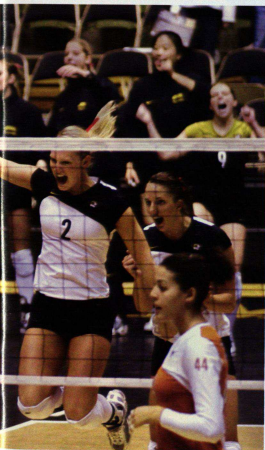


PHOTO BY ANNE MASTLORA

In 2004, Lindsey Hunter (No. 2) became the team's second-ever All-American, and she made the All-Central Region and All-Conference teams.

Four years ago, the team didn't qualify for the finals. A year later, it placed 16th. Another year later, it placed 12th. This year's finish marks the strongest since 1984, when the team placed seventh. Ramsey and Petersen placed 65th and 85th, respectively, on a muddy course Nov. 22 in Terre Haute, Ind. The course was so muddy, in fact, that Ramsey fell near the beginning before recovering for a strong finish. "It's almost like whoever was left standing at the end placed pretty well," Wilmes says.

Wilmes, who received Midwest Coach of the Year honors, hates to lose the seniors but loves to see what they were able to do. "As they got better, our team got better," she says. "If you get some kids

like that who are on a mission, it's kind of contagious. The other kids get on board and start believing in the cause."

Contagious success has led to depth on the team, too, exhibited when an unprecedented seven Missouri runners finished in the top 26 at the Big 12 Championships, where the team placed second to national champs Colorado. The team then won the NCAA Regionals for the fifth time in nine years.

As for losing those leaders, Wilmes knows the team's depth will help in their absence, with such standouts as redshirt junior Amanda Bales and juniors Valerie Lauver and Kristen Hansen, among others.

On the men's team, Tim Ross qualified for the National Championships and placed 233rd. Ross also placed sixth in the Big 12. The team placed fifth in the Big 12 and sixth in the NCAA Regionals.

MARY FAUROT, 1906–2004

CHILDREN, GRANDCHILDREN, great-grandchildren and friends gathered Dec. 11, 2004, to pay tribute to "Grand Mary," Mary Frances Davidson Faurot, BS Ed '26, the widow of former MU football coach Don Faurot, BS Ag '25, MA '27. She died Dec. 5 at age 98. Her husband preceded her in death Sept. 19, 1995.

Those gathered at Missouri United Methodist Church told great tales of the fun woman, who was an athlete in her own right as a swimmer, dancer and golfer. She started college at age 16, and she enjoyed traveling, playing bridge and, of course, following Tiger football. "Never give up" was her attitude. She had no enemies: "I don't dislike anyone. I just like some better than others."

She married Don in 1927 in Hannibal, Mo. They lived in Kirksville, Mo., until 1935, when he became MU football coach and athletic director. Before tailgating became popular, she fixed lunch for up to 30 family members

and friends before home games.

Don and Mary delighted family by taking them on trips. Mary had a favorite golf course in Hawaii. In recent years, when she couldn't sleep, she'd replay each hole by memory. She delighted in saying, "I had a very low score."

Daughter Jane Hazell, BJ '55, of Columbia, admired her mother's spunk. "Like a great Cabernet, she aged well." As she and two sisters, Mary Aileen Faurot Edwards, BS HE '58, and Julie Faurot Crum, BA '62, were growing up, there were a few rules, and Jane says, "We followed her rules because we didn't want to disappoint her."

Memorials may be sent to the Don and Mary Faurot Golf Scholarship, 302 Reynolds Alumni Center, c/o Gail Martin, University of Missouri-Columbia, Columbia, MO 65211.



COLUMBIA DAILY TRIBUNE PHOTO BY BRIAN KRATZER

Mary Faurot was delighted in October 1999 when a statue of Don Faurot was unveiled at Memorial Stadium. She died Dec. 5, 2004.



**IS COLLEGE CUISINE AN OXYMORON? FOR LEGIONS OF MU STUDENTS
OVER THE YEARS, THERE HAVE ALWAYS BEEN OFF-CAMPUS ALTERNATIVES
TO A DIET OF RAMEN NOODLES AND MICROWAVE POPCORN.**

**STORY BY
JOHN BEAHLER**

**PHOTO BY
ERNIE BLOCK**

Nothing lasts forever, especially in a college town like Columbia where fads and fashions rise and fall like blobs of wax in a lava lamp. What's all the rage for one generation of college students will likely be retro for the next.

But even in Columbia some things stand the test of time. One constant on the Columbia scene is a wide-ranging

menu of cafes and eateries that pop up near campus to help college students manage their munchies.

Ask Mizzou grads to recite some favorite memories and, along with recollections about all-nighters or a special professor, you're likely to hear a sigh or two for a favorite treat from a time when they didn't have a clue there could be both good and bad cholesterol. Forget

about Proust and his madeleines; MU alumni are more likely to remember a late-night run to The Bakery at 518 E. Broadway, where, in a run-down storefront, trays of hot-from-the-fryer doughnuts spiced the night air with the sweet essence of cinnamon and yeast.

Maybe they'll recall the cheap and gloriously greasy hamburgers from the Dine-A-Mite Drive-in, just north of

All-night diners such as Columbia's *Minute Inn* are an important link in the college town food chain. Now called the *Broadway Diner*, it specializes in "The Stretch," a chili-topped platter of eggs, cheese and hash browns.

campus on Ninth Street, or the Ku-Ku Drive-in at 18 N. Providence Road. A bagful of those burgers could ignite a gastric chain reaction and bust a gut without busting the bank. Then there were those plump burritos from Connie's El Sombrero, across from Peace Park at 209 S. Eighth St. In those pre-Taco Bell days, Mexican food was as exotic as hummingbird tongues to mid-Missouri palates.

All of those Columbia eateries bit the dust years ago, along with other culinary standbys, from familiar campus joints such as Gaebler's Black and Gold and the Topic Café to fancy-schmancy, white-tablecloth places such as Haden House and Breisch's. Restaurants have a high mortality rate, but a handful have made it over the long haul.

For some, the secret to success has been not to change a thing, like the bacon-and-eggs breakfast tradition at Ernie's Café and Steak House, downtown at 1005 E. Walnut St., or the sublime burgers served on squares of wax paper at Booche's Billiard Hall at 110 S. Ninth St.

For others, a location next to campus means that the same building has been home to a succession of eating spots. Take



Steve Pappas

Shakespeare's Pizza, for example. It's held down the corner of Ninth and Elm streets, across from the J-School, for nearly 30 years — so long that it might seem that Shake's has always been there.

Before it was Columbia's premier pizza palace, that building was home to a long list of campus eating spots: Max's Campus Snacks, Max's Ham and Egger, Poor Richard's Almanac and the Campus Edge, to name a few of the more recent.

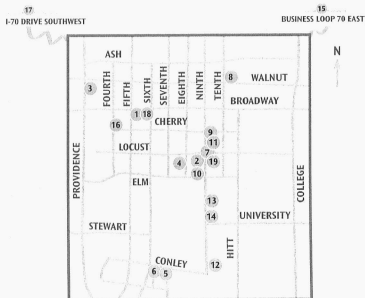
Today's students flock to a high-tech nightclub called Tonic at 122 S. Ninth St. That location has been a campus hangout since the 1920s, when students danced cheek to cheek at afternoon "tea dances" in what was then the Harris Café. In the

late 1960s, the same spot was home to G&D Steak House, a budget-friendly date destination where the holy trinity — a steak, baked potato and salad — cost only a few bucks. In the '80s and '90s, a venerable Chinese food emporium called the Peking Restaurant occupied the location.

In recent years, fast food has made inroads into what was once a world of mom-and-pop campus cafes. Generations of Mizzou students chowed down between classes at the M Bar on the ground floor of the Missouri Bookstore on a car-clogged Lowry Avenue. Today there's a McDonald's restaurant at the same spot, and Lowry Avenue has become a landscaped pedestrian mall.

Find Your Favorite Eateries, Present and Past

1. The Bakery 518 E. Broadway
2. Dine-A-Mite 219 S. Ninth St.
3. Ku-Ku Drive-In 18 N. Providence Road
4. Connie's El Sombrero 209 S. Eighth St.
5. Gaebler's Black and Gold Inn 706 Conley Ave.
6. Topic Café 702 Conley Ave.
7. Breisch's Restaurant 126 S. Ninth St.
8. Ernie's Café and Steak House 1005 E. Walnut St.
9. Booche's Billiard Hall 110 S. Ninth St.
10. Shakespeare's Pizza, Max's Campus Snacks, Max's Ham and Egger, Poor Richard's Almanac, Campus Edge 225 S. Ninth St.
11. Tonic, Peking Restaurant, G&D Steak House, Harris Café 122 S. Ninth St.
12. McDonald's, M Bar 909 Lowry St.
13. Chipotle, Ivanhoe, Romano's Pizza House, Henry J's 306 S. Ninth St.
14. Old Heidelberg, Ever Eat Café 410 S. Ninth St.
15. Jack's Gourmet Restaurant, The Coronado Club, Mel and Red's 1903 Business Loop 70 E.
16. Broadway Diner, Fran's Diner, Minute Inn 22 S. Fourth St. (new location)
17. Interstate Pancake House 1110 I-70 Drive S.W.
18. Lucy's Corner Café, Ron's Country Boy, Cornbread's Café, White House Café 522 E. Broadway
19. Long's Bar-B-Q 208 S. Ninth St.





COLUMBIA MEMORIAS PHOTO

Booeche's Billiard Hall has been a magnet for MU students for more than 100 years. USA Today rated Booeche's no-frills burgers — served on squares of wax paper — among the best in the country.

A building around the corner at 306 S. Ninth St., a block north of Middlebush Hall, has housed such student favorites as The Ivanhoe, Romano's Pizza House and Henry J's Italian restaurant. Now students flock there to grab a lunchtime burrito or taco at a fast-food Mexican place called Chipotle.

The granddaddy of all campus eateries has to be the Old Heidelberg Restaurant. The 'Berg, a student hangout since 1963, reopened this past September in a new building that replaced the original structure, gutted by fire in August 2003.

Beginning in 1930, long before the Heidelberg sold its first pitcher of beer, that spot at 410 S. Ninth St. was a family-run restaurant called the Ever Eat Café. Longtime owner Ralph Morris, Arts '34, once described the cafe as "an old farmer's-type place, with food that really stuck to your ribs."

It was nothing fancy, but the down-home food kept customers bellying up to the horseshoe-shaped counter. The low prices didn't hurt, either. During the height of the Depression, lunch specials went for 35 cents, small hamburgers were a nickel, and two bottles of Budweiser cost a quarter.

Students could buy meal tickets

from the Ever Eat at the beginning of the month — on credit, if necessary — to help them stick to their food budgets. Morris and his mother, Bessie "Mom" Morris, both now deceased, made their customers feel like members of the family.

A few longtime Columbia restaurants have survived by accommodating their customers' changing tastes and growing pocketbooks. Over the years, Jack's Gourmet Restaurant, 1903 Business Loop 70 E., has evolved from honky-tonk to haute cuisine. Mizzou students from the '30s and '40s might remember it as the Coronado Club or Mel and Red's. Back then, it was a drab cinder block beer hall and liquor store right on old Highway 40. Students hitchhiking home to St. Louis could stop in for a beer when rides were scarce.

Jack's current owner, Ken Applegate, is used to having MU graduates share their recollections about his restaurant's earlier days. "They come in and tell stories about when they used to be here and how they

courted their wife here," he says.

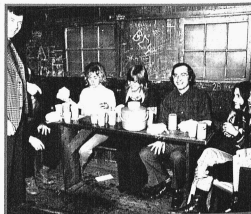
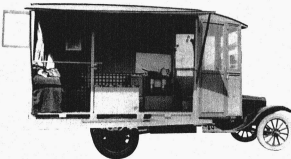
There's no telling how many nervous young men popped the big question while dining on chateaubriand and escargot in one of Jack's plush dark red booths. When they remodeled after a fire in 2002, Applegate and his wife, Melissa Naylor-Applegate, BS Ed '82, M Ed '92, were careful to maintain that atmosphere.

"After the fire, people would call us and say, 'You aren't going to take out the red booths, are you?' Well, we listened," Naylor-Applegate says. "Part of the romance of Jack's was the booths and the dark-paneled walls that looked very 'mafia.' It's an ambience that was special."

The Applegates heard other stories, too, about when couples jammed the sawdust dance floor and the Coronado Club was off-limits to Stephens College students. The restaurant went upscale in the late 1960s when Jack Crouch — the "Jack" in Jack's Gourmet — bought the place, gussied it up and started serving fine cuisine.

Like all college towns, Columbia has always had an appetite for after-hours eats, and all-night cafes have been there to fill that niche. The Broadway Diner has been slingin' hash since the 1940s in its earlier incarnations as the Minute Inn and Fran's Diner. After nearly a half-century at a

The Shack was never accused of putting on airs, even as tumbledown, graffiti-carved additions sprouted up around the original 1920s lunch wagon. Before the Shack burned in 1988, cook Donna Weston kept the crowds happy with her signature Shackburgers slathered with a secret barbecue-style "Shack sauce."



LEFT: PHOTO COURTESY OF JOE FRANKE

Broadway location just west of Providence Road, owner Ed Johnson's lease ran out, and he was forced to move the operation off-Broadway to its current home a few blocks away at 22 S. Fourth St.

Two wacky brothers named "Poor Ken" and "Lonesome Del" Gebhardt ruled the late-night roost on the west side of town during the 1970s. Their often- raucous, always-jammed Interstate Pancake House on I-70 Drive Southwest served up a respectable plate of hotcakes, but the dapper pair of entrepreneurs probably were better known for their lowbrow TV ads:

"Pie are square," Del would intone solemnly into the camera.

"No, Del," Ken would insist, "pie are round." Then he'd smack his partner in the face with a cream pie and giggle, adding, "Pie are messy." Cornball stuff, but it brought in the customers.

Corn was key to the success of another all-night eatery in the heart of downtown — Cornbread's Café at 522 E. Broadway. The place was named for its owner, Jim "Cornbread" Martin. Everyone knew

Cornbread Martin, BS Ed '58, as a bruising lineman for the Tigers, but he also dished up a mean breakfast. Ham and eggs with coffee and all the fixings went for \$1.25 during the cafe's heyday in the late 1960s.

When Martin and his partner, Jack Overton, BS BA '56, took over what had once been the White House Café, they expanded to 24-hour service and added more seating. "The place was always pretty busy, and there were a lot of sleepless nights," Martin says. "We served good food, and we ran a fairly strict place. We didn't allow any trouble."

For Overton, the restaurant trade was just a sideline to his home-building business. As an MU student working at the Harris Café and other student hangouts, he says he quickly learned that the restaurant business is the hardest work there is.

Overton also worked the late shift for several years at Long's Bar-B-Q on South Ninth Street, across from what is now Shakespeare's. A plate of toast and eggs cost 40 cents, ham or bacon added another 20 cents, and a side order of hash

browns brought the grand total to 80 cents. "And what a meal it was for 80 cents," Overton recalls.

Long's Bar-B-Q also exposed Overton to an enduring mantra of real estate: location, location, location. "The reason for most of those little restaurants' success was their proximity to the University," he says. "Kids would come out of their classes and come pouring across the street."

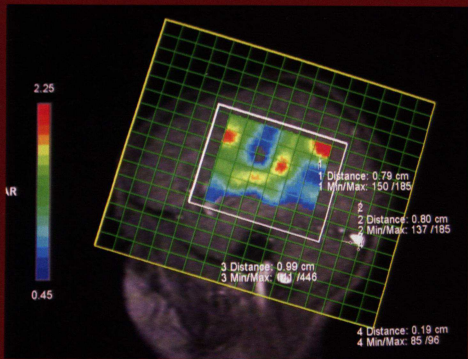
Sundays were especially busy, Overton recalls. "We would just get run over for the Sunday rush." On those evenings, Long's was thronged with hungry students. All 28 stools filled up, the milkshake mixer kept up a steady roar, and a line of students stood behind each stool, waiting for a vacancy. "The business was just incredible," he says.

Although restaurant work might be grueling, there's another surefire adage to explain Columbia's rich restaurant heritage, Overton says: "Everybody's gotta eat." ☼



Reaching for A

FROM STUDYING CAUSES TO TREATING CASES, MU'S AUTISM EXPERTS EXTEND THEIR KNOWLEDGE TO CHILDREN WITH THE DISORDER AND THE FAMILIES THAT CARE FOR THEM.



At MU's Center for Autistic Disorders, researchers study autism by examining brain structure and biochemistry to create subgroups within the broad spectrum of autistic disorders. They used two methods to study this 10-year-old boy with essential autism. Magnetic Resonance Spectroscopy (above) determines whether one side of the brain differs structurally from the other because autism is believed to be a left-hemisphere dysfunction syndrome, or one that causes deficits in language and analytical processing. Magnetic Resonance Imaging (right) helps researchers differentiate between essential and complex autism. Complex autism often involves an abnormal brain structure — usually an enlarged cerebellum — caused by a problem with early development. Children with essential autism, such as this boy, tend to have structurally normal brains; problems lie in brain chemistry and function.



Jonathan and Canyon Milligan are enjoying a quiet lunch of Fritos and hot dog bites. Four-year-old Jon drinks soy milk out of the yellow cup, while Canyon, his twin, has opted for water in the blue cup. "More Fritos," Jon demands. His mother corrects him: "I want more Fritos."

Answers

STORY BY SETH ASHLEY, MA '02

PHOTOS BY ROB HILL



When 4-year-old twins Canyon, left, and Jon Milligan ask for more food, their mother, Jennifer, insists they ask using complete sentences. This is still a challenge for them because of the impairment in communication their autism causes. MU therapists and doctors encourage Jennifer to elicit speech from the boys to help them develop normally.

"More Fritos," Jon continues, "more Fritos." Mom corrects him again. Jon is getting frustrated, but she insists. His hands flap in the air as he finally makes the words come rushing out: "I want more Fritos." Mom loads his plate with a handful of chips and praises his use of language.

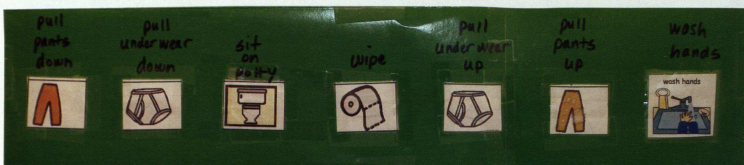
Forming a complete sentence is still a

challenge for the Milligan twins, who have autism. But it is important to their development that they be pushed to use the words they know, just as they must be encouraged to make choices about which beverage and cup they prefer rather than compulsively demanding the same combination at every meal.

These are big concerns for parents

who must act as full-time caregivers to children with autism. Fortunately, help is available. At MU, a host of pediatricians, geneticists, psychologists, psychiatrists, dietitians, nurses, educators, therapists and other experts work together to provide a one-stop shopping approach to autism evaluation and treatment.

The Milligan twins were diagnosed at



Therapists break down simple tasks such as using the toilet and brushing teeth into a sequence of steps to help keep Canyon, left, focused on the job at hand. Bill Schnell, BS '01, an occupational therapist from Boone Hospital Home Care, made the diagram above to help the twins learn how to use the toilet on their own.

MU when they were 29 months old. This compounded a slew of other health problems, including Jon's collapsed lung, that stem from their birth, premature by nine weeks. To parents Jennifer and David Milligan, the autism diagnosis explained, among other things, why Jon and Canyon had been so quiet and well-behaved at a birthday party they had recently attended. They had elicited compliments from the other parents, whose children yelled and threw food at each other. "We didn't know they just didn't care about what the other kids were doing," Jennifer says.

In the Genes?

Autism is a brain disorder, identifiable not by lab tests but by the presence of a collection of behavioral symptoms and treated not simply by a pill or a shot but by intensive therapy specially

designed for each patient.

The mysterious disorder was once an all-or-nothing condition diagnosed by psychiatrists who recognized only the most severe cases and sometimes blamed them on cold, unloving "refrigerator mothers" who caused their children to retreat from the outside world.

Today, doctors view autism as a spectrum disorder that sets in within the first three years of life with widely varying degrees of intensity. Although there is no known trigger for the disorder, doctors know that the only way a mother can "cause" it may be with her genes. Doctors agree that abnormalities in brain structure and function cause autism, and researchers are investigating a number of theories, including heredity, medical problems and environmental factors.

Judith Miles, MD '75, heads the

Center for Autistic Disorders at the Children's Hospital at Mizzou. A specialist in pediatrics and genetics, Miles conducts research on the genetic basis of autism. Studies with autistic twins — such as the Milligans, who come to MU from Fulton, Mo., for treatment — support the notion that genes contribute to autism, whether because of simple heredity or complex interactions. Ordinary siblings share half of their genes, and if one has autism, the odds are about 4 percent that the other one will, too. With fraternal twins, the risk rises to 9 percent. But for identical twins, such as the Milligans, who share all of their genes, that number shoots to between 60 percent and 80 percent. Miles and other geneticists are working to isolate the gene or cluster of genes that may lead to the development of autism.

Autism affects an estimated 1 in 250 births, and 1.5 million Americans are believed to have some form of the disorder. It affects males four times as frequently as females, and incidence of the disorder seems to be increasing. The U.S. Department of Education has noted a 10 percent to 17 percent increase each year, which appears to throw a wrench in Miles' theory of a genetic basis. "Even if we were in a nuclear holocaust, our genes wouldn't change that quickly," Miles admits. But the apparent rise over the past two decades probably has more to do with broader criteria now used to diagnose the disorder than an increase in actual cases.

Making a Diagnosis

Doctors use three core symptoms to diagnose autism. The first symptom is the hallmark of autism: abnormal social interaction. "These are kids who don't understand that you're a person when they look at you and aren't able to intuit that your mind works the same as theirs," Miles says. "Research using functional MRI scans shows that these kids look at somebody's face and use the part of their brain that you and I would use to look at a piece of furniture. We don't look at a chair the same way we look at a person. You don't get feedback from a chair, and kids with autism don't get that."

Because of this disconnect, children with autism are often affectionate only on their own terms. If they want to play with other children on the playground, they may just go up and hit them. "They don't know how to engage their peers," Miles says. This is true even for some "high-functioning" adults with autism who can't hold a job. As a result, many decide to keep their diagnosis of autism a secret.

The second symptom is an impairment in communication. Children with autism generally learn to talk late and have abnormal speech, or they lose their ability to talk or never learn at all. "There's a disconnect between what's going on in their brain and their ability to speak," Miles says.

The third core symptom of autism is a predilection for repetitive or compulsive behaviors. Children may demand to always drink from a certain color cup. They may rock back and forth while seated, spin in circles or flap their hands. These repetitive behaviors are self-calming, Miles says. She compares them to the behavior of someone who twirls

Physical therapist Jennifer Highbarger, BHS '92, from Boone Hospital Home Care, works with the Milligan twins, Canyon, front, and Jon, to improve their coordination. Children with autism require care from a battery of therapists, who work to set their patients on a path to normal development.

her hair while taking a test.

Miles follows the development of hundreds of patients of all ages from all across Missouri and helps to coordinate their treatment programs. Many patients start out at MU's Department of Health Psychology, where psychologists Janet Farmer, PhD '91, and Daniel Orme interview parents, observe child behaviors and conduct cognitive assessments to make a diagnosis. Miles' autism center, pediatricians and schools often refer patients to the psychologists, who collaborate with Miles and other physicians at Children's Hospital to ensure a solid diagnosis.

"If I see a child who I think is on the autism spectrum, the clinic does a work-up to make sure there isn't something medical going on," says Orme, a clinical associate professor in the Department of Health Psychology. Orme helped to diagnose Jon and Canyon Milligan, and he worked to get them treatment with the right speech and behavioral therapists.

"We try to collaborate so parents experience a seamless system of care," says

Farmer, director of the pediatric neuropsychology program. Farmer works to further unite the autism experts at MU. Faculty from across campus meet regularly to enhance service, research and training initiatives. With leadership provided by the College of Human Environmental Sciences and the School of Health Professions, the cross-campus consortium also seeks public and private funding to establish a nationally recognized autism program and to build a state-of-the-art child development facility for integrated teaching, research and services in one location.

Learning to Learn

Another important aspect of autism treatment is the behavioral therapy the College of Education's Assessment and Consultation Clinic provides. Matt Stoelb, PhD '04, a research specialist in the clinic, has helped the Milligan twins discover early intensive intervention programs, also known as applied behavioral analysis. Therapists work to turn complex tasks into simple sequences for their patients. "You have to break down





Elijah Wingo, 9, watches as Judith Miles, MD '75, checks his reflexes at MU's autism center. A patient of Miles' for more than five years, Elijah also gets care from MU dietitians who help manage his autism through a diet without oats, barley, wheat, rye or milk.

everything in these little pieces to get kids to stay focused and to teach them," Stoelb says.

For example, the Milligan twins, who meet with their occupational therapist three times a week, need extra help in learning to complete tasks such as brushing their teeth or using the toilet. Their occupational therapist, Bill Schnell, BS '01, from Boone Hospital Home Care, made an illustrated step-by-step diagram that hangs over the twins' kid-size toilet. For brushing their teeth, he took photos of each step — wetting the brush, applying toothpaste and so on.

This method, known as discrete trial teaching, creates a comfortably predictable routine for children with autism. Therapists such as Stoelb and Schnell use a similar approach to language therapy. They start by building a child's ability to reproduce sounds. "It's a long way from teaching a child to have a conversation," Stoelb says. Other successful tactics include peer modeling in schools and homes and teaching typically developing kids how to work with their autistic

peers to elicit language.

Therapists also advocate milieu teaching, which involves teaching parents to set up an environment that will encourage normal interactions for their autistic children. This includes putting favorite videos on a top shelf so children have to ask for the videos instead of getting them for themselves. Or, if a child is reading a book, "I might walk up and take the book away," Stoelb says. "It seems cruel, but it's important to create situations that get them to talk."

Pain and Gain

For some families, the strain of dealing with a child with autism can be too much to take. Elijah Wingo, now a patient at MU's autism center, once ate nothing but macaroni and cheese for 14 days straight. The 4-year-old would scream until he got what he wanted. "He was like a drug addict," says his mom, Michelle. "All he wanted was pasta and cheese, and after he ate it, he was like an animal." Back then, Elijah would spin in circles for hours without getting dizzy. He organ-

ized his toys in rows, walked around on his toes and never made eye contact with anyone. At his worst, he would bang his head on the floor and throw his body around the house until someone could stop him.

Elijah had developed quickly and normally until around 18 months of age when he suffered from a bad case of the flu. In the three months that followed, he stopped making the huge cognitive gains that are typical of a developing child. His pediatrician said he would evaluate him in six months, but in six months, "He was completely gone," Michelle says. "It seemed like things just completely stopped with him." Many children with autism reach an early plateau in their development, but others actually regress. After a child regresses as Elijah did, it often becomes harder to come back.

Elijah's retreat was painful for his parents. "He had no relationship with me whatsoever," Michelle says. "I was just an object that fed him." Elijah started behavioral therapy when he was 3. He learned to use sign language to communicate and got help from the Judevine Center for Autism, a nationally renowned treatment center based in St. Louis. But it seems the key to his success was something Michelle learned about from Miles at MU: a gluten- and casein-free diet, or one without oats, barley, wheat, rye or milk. Michelle threw away all the food in her house with these ingredients, and within two weeks of starting the diet, "Elijah sat down at the kitchen table and started talking to me," she says.

Severe food allergies were aggravating Elijah's symptoms of autism, and the strict diet put him on a path to normal development. "When he's on this diet, there's not anything he can't do,"

Autism Experts at MU

Center for Autistic Disorders, MU's Children's Hospital

Judith Miles and Richard Hillman co-direct the center with support from developmental pediatrician Tracy Stroud and nurse clinician Cyndy Jones. Miles and Hillman study the genetic causes of autism, and they have worked to define the two main autism subgroups. Complex autism results from some type of physical problem with early development, and the more common and more genetic essential autism appears to be primarily a brain disorder.

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Richard Hillman, hillmanr@health.missouri.edu
Tracy Stroud, stroudta@health.missouri.edu
Cyndy Jones, jonescs@health.missouri.edu
Center for Autistic Disorders, (573) 884-1871

Child Neuropsychology Clinic, Department of Health Psychology, School of Health Professions

Health psychologists Janet Farmer and Daniel Orme conduct pediatric neuropsychological evaluations at Rusk Rehabilitation Center. Their research focuses on children with special health care needs and health service delivery systems for children.

Janet Farmer, farmerje@health.missouri.edu, (573) 882-8847
Daniel Orme, ormed@health.missouri.edu, (573) 882-1561

Assessment and Consultation Clinic, College of Education

Research specialist Matt Stoelb conducts research in developmental therapy and uses behavioral therapy to help children with autism improve their communication skills. Greg Holliday directs the clinic, which also provides services for other developmental disorders.

Matt Stoelb, stoelbm@missouri.edu, (573) 882-0987
Greg Holliday, hollidayg@missouri.edu, (573) 882-8329

Department of Special Education, College of Education

Professors Rebecca McCathren and Janine Stichter study the use of intervention strategies in schools and communities for individuals of all ages with autism.

Rebecca McCathren, mccathrenr@missouri.edu, (573) 882-5764
Janine Stichter, stichterj@missouri.edu, (573) 884-9157

Center for Innovations in Education, College of Education

Phyllis Barks directs this grant-funded center that specializes in professional development for educators and families and keeps a large resource library to help parents and teachers.

Phyllis Barks, mocise@missouri.edu, (573) 884-7275

Department of Communication Sciences and Disorders, School of Health Professions

Phillip Dale, professor and department chair, studies intervention programs and language development assessment.

Phillip Dale, dalep@health.missouri.edu, (573) 882-1934

University Hospital

Barb Mitchell is a pediatric dietitian who helps autistic children maintain healthy diets when they must avoid certain food groups as part of their treatment.

Barb Mitchell, mitchellb@health.missouri.edu, (573) 882-9027

Institute of Public Policy, Truman School of Public Affairs

Dana Baker is conducting a survey of families of children with autism to examine the types of public services they use and the economic impact the disorder has on them.

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Michelle says. "He's just wonderful." Miles helps Elijah get the treatment he needs and works to keep his diet healthy and safe. "Luckily, the thing that autism has going for it," Miles says, "is it has some of the most devoted, energetic, committed and brightest parents who are in there fighting."

But the fighting was too much for Michelle's marriage. She and her husband divorced when Elijah was 7, and his

progress suffered. He went from a normal public school back to a special autism classroom in a St. Louis magnet school. Michelle and Elijah live with Michelle's parents now, and she uses her student loans to pay for Elijah's expensive ongoing treatment. But it's been worth it. "I see Elijah again," Michelle says. "I see the kid from before he developed autism. And now I don't think there's anything you can't do with them." ❁



Lab to Market

RESEARCH STARTS WITH A PROBLEM.
ENTREPRENEURSHIP STARTS WITH A NEED.
THROUGH TECHNOLOGY TRANSFER, THE
TWO COME TOGETHER TO CREATE
PRODUCTS THAT SOLVE PROBLEMS
AND FILL NEEDS.

STORY BY
CHRIS BLOSE

PHOTO
ILLUSTRATION BY
DORY COLBERT
AND ROB HILL

Baking soda is cheap, abundant, and probably sitting in your kitchen cabinet or refrigerator right now. It's useful, but it doesn't bring to mind lifesaving discoveries or inventions.

So what did it take to turn this plentiful powder into a product with medical applications and market potential? It took an observant and innovative mind, a healthy dose of serendipity, and the ability to recognize the moment a light bulb goes off in the brain.

Those factors came together for Jeffrey Phillips, an associate research professor of surgery and the researcher behind the new drug Zegerid™. The observation came in a clinical setting. Phillips saw a potential problem with proton pump inhibitors (PPIs), drugs used for acid reflux and gastrointestinal disorders such as ulcers. Critically ill patients and children sometimes had trouble taking those drugs in solid form.

Next came the innovation. A coating that protected the pills from stomach acid required them to be solid. Hoping for a powder form, Phillips decided to try using an antacid as a buffer instead of the protective coating. The antacid would neutralize the stomach acid and allow the drug's safe passage.

Serendipity came when testing revealed that the sodium bicarbonate (baking soda) he used as an antacid had an added benefit: It turned on the body's pumps that produce acid, which meant the drug could then turn them off more effectively and efficiently. Phillips realized he was onto something. About nine years later, in 2004, the FDA approved the first two forms of Zegerid™, powdered doses for liquid suspension. More forms of the drug are in trials.

Shepherding such discoveries into the market requires patience, diligence and business know-how. The University gradually has been developing an environment to support inventive faculty through the process, which is called technology

transfer. Staff members at the University of Missouri System's Office of Technology & Special Projects help with getting patent protection and even starting businesses. The University now has a space-lease policy for faculty startup companies. Plans are under way for a business incubator that will take that idea even further and support regional economic development, a priority set by Chancellor Brady Deaton.

Technology transfer in some ways requires a shift in academia. Jim Coleman, vice provost for research,

**'FOR LAND-GRANT INSTITUTIONS
IN PARTICULAR, OUR GOAL IS TO
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ONE OF THE WAYS YOU CAN MAKE
IT MEAN SOMETHING IS TO
PRODUCE USABLE PRODUCTS.'**

— JIM COLEMAN

points out that it deviates from the traditional openness of academic research. Critics point that out, too. Instead of immediately publishing the results for general consumption, researchers are delaying publication to first protect the work through the patent process.

But research and entrepreneurship do share common goals. Both start before the "idea," with either a problem to solve or a market niche to fill. If the University successfully puts the two together, technology transfer can meet the needs of both by bringing products to the marketplace while bringing money to inventors, the University, the region and the state.

The Entrepreneurial Push

The current focus on technology transfer

traces its roots back to 1980, when the Bayh-Dole Act went into law. There were earlier examples of commercialization, but the Bayh-Dole Act spurred the modern movement, Coleman says.

Before Bayh-Dole, universities had no legal rights to intellectual property developed through federal grants. The 1980 legislation made it possible for universities to assert ownership and obtain patent protection for faculty inventions and discoveries and help push them into the market.

With the mechanism in place, the question became one of why universities would want to become involved. "The one reason that everybody immediately thinks of is that it's a way to make money," Coleman says. "The reality is that it's generally not a big moneymaking operation unless you have a major hit." Gatorade at the University of Florida was a big hit. Zegerid™ could be.

But massively successful hits are rare. Beyond money, there must be other reasons. "For land-grant institutions in particular, our goal is to have our research mean something to the public, and one of the ways you can make it mean something is to produce usable products," Coleman says.

Phillips and other researchers share that sentiment. They want to see tangible results from their lives' work. If they also can make money in the process, so much the better. As Phillips puts it: "I didn't choose that market. I chose a problem to solve, and it happened to be that the market was very large."

MU had some successes in the past, with notable examples including Quadramet®, a cancer drug developed by researchers from several academic divisions. The University also has formed partnerships with business and industry, including external funding for research.

The technology transfer process gained a sharper focus with the arrival of Tom Sharpe six years ago. Sharpe, executive director of the Office of Technology & Special Projects, has made a more

active push for faculty entrepreneurship. In fiscal years 2001 through 2004, MU had 50 licensing agreements and took in \$10.9 million of licensing revenue from patented technology developed by faculty. That number may go up in the future; the University already has received more than \$8 million in licensing fees from Santarus, the company that's producing Zegerid™.

To Sharpe, this push is crucial for attracting the best and brightest faculty, especially those with entrepreneurial leanings. "Many times they want to know what our intellectual property policy is," Sharpe says, "particularly the younger ones." Also, because so much of the University's research funding comes from the federal government (including \$73.9 million, the most in the state, from the National Science Foundation from 2000 to 2004) there's even more incentive to give back to the public in some way. Useful products do that.

In addition to walking faculty through the rigorous patent process, Sharpe and his staff sift through the deluge of ideas coming from University research — no small task — to see what might be marketable. That means weeding through faculty invention disclosures to pick potential winners. It also means encouraging innovative faculty who may be less inclined toward entrepreneurship.

What's in it for faculty, beyond the satisfaction of their research becoming something practical and maybe widespread? Profit. When the University sells a license, the inventor receives a third of the income. After that, money goes to cover patent and other expenses incurred in the process. Of the remaining money, one third goes to the inventor's department, one third to the Office of Technology & Special Projects and one third to MU's Office of Research. Through these, money gets reinvested to keep the research cycle going.

Publish or Patent

When Phillips was first working with his

proton pump inhibitor drug innovation back in 1995, he didn't receive the kind of encouragement and support he might find today. At the time, people told him his idea wasn't marketable.

Instead of the traditional "publish or perish" motto of academia, Phillips faced a newer dilemma: publish or patent. Sharpe says it's a decision many faculty entrepreneurs have to think about and plan for. If they take the conventional route of publishing research results without first filing a patent application, they lose the rights to international patent protection, and they have only a year to file a patent application in the United States.

In 1996, Phillips chose the path of more resistance. Like any entrepreneur

IDEALLY, COMPANIES WILL
'GRADUATE' FROM THE
INCUBATOR, STAY IN THE
AREA AND EXPAND.

move, it was a risk. He knew that choosing to pursue patent protection could skew the traditional academic process of publishing. He knew that he could go through the arduous patent process and still not have commercial success. But after seeing how the drug could help seriously ill people, and still believing in its marketability, he made his choice. He scrounged for patent funding, which he got from his department.

Nine years later, it seems he made the right choice. He found support from Sharpe's office later on in the process. Together they found a company to produce and market Zegerid™, so a useful product has resulted from his work. He doesn't have tenure, but he's received his one-third share of licensing payments, the most recent being a \$5 million total "milestone" payment after FDA approval. Lori Franz, interim provost, says

patents represent an intellectual achievement and are therefore included in tenure

dossiers, but how they are considered varies. "Tenure is something that is voted on by the faculty in your department, and ultimately it is going to depend on how the department sees the contribution of entrepreneurial activity," Franz says. "So in one department a patent might be rewarded more than in another."

Coleman says that determining how to weigh entrepreneurial contributions is one of the challenges of embracing technology transfer. "University faculty's major metrics for understanding the quality of what they do have been publications and research grants," he says. "They now have to figure out how to evaluate a patent." The trick is to balance new ways of thinking about faculty contributions with traditional ones, neither at the expense of the other. Likewise, even as technology transfer becomes more prevalent and more advanced, basic research will remain at the foundation of the University's research work.

Hatching Economic Development

If a supportive environment is one of the keys to successful faculty entrepreneurship, MU seems to be creating one. For one thing, it has developed a policy that allows faculty startups to lease University space as available and appropriate. There are clear rules that govern that policy, as well as extensive procedures for identifying and managing conflicts of interest related to technology transfer.

These policies are steps toward something bigger: a business incubator that is already in the works. Jake Halliday, project leader for the incubator and head of the Missouri Innovation Center, the nonprofit organization that will run it, says the University and region have needed an incubator for years. Because of several factors, including the University's focus on life sciences and the push for technology transfer, the timing now seems right.

As the name indicates, a business incubator essentially grows small businesses.

In this case, the incubator will house companies either built on technology developed by MU researchers or built around their areas of expertise. Similar projects have been successful at the University of Texas and Stanford, for example. Overall, there are about 1,000 business incubators in North America, 25 percent of which are sponsored by academic institutions, according to the National Business Incubation Association.

The incubator's goal is to aid small companies through the vulnerable early years by providing business advice, leasing space for labs and offices, and connecting researchers with investors and business partners. Similar preincubator practices are already working for several faculty startup companies in fields from engineering to medicine to animal sciences. Peter Sutovsky, for example, built AndroLogika around his research on fertility and contraception in both animals and humans. Sutovsky says help from Sharpe's office and from the incubator in the future is crucial to his company as he seeks investors and clients for the services he hopes to offer one day. "They schooled me, you know," Sutovsky says. "I was totally naive about business, so that was very important."

There's a larger goal with the incubator, though. Ideally, companies will "graduate" from the incubator, stay in the area and expand. Halliday envisions a cluster of high-tech companies. Beyond just promoting faculty entrepreneurship, the incubator could boost local, regional and state economies. "Intellectual property has this intrinsic ability to attract capital," Halliday says.

Because of the incubator's focus on economic development and because it is a partnership between the University and the business community, the \$8.7 million needed to build it will come from a variety of sources, both public and private. Halliday and others have sought and expect to receive federal funds. The University has contributed land and

money, the latter appropriately coming from licensing fees (much of it from Zegerid™). Local companies, individuals and economic development agencies have contributed. Boone County and seven surrounding ones are running challenge campaigns. Though still in the fund-raising, planning and design phases, the incubator could be open by fall 2006. It will be located near the research reactor, south of Stadium Boulevard on Providence Road.

What the incubator means for the University remains to be seen, Coleman says. At minimum, it will serve as a partnership between business and academia and a place for student workers to learn how to integrate research with business entrepreneurship. At best, it could produce another hit technology and create companies, plus the local jobs that come with them. Realistically, Coleman says many universities have difficulty breaking even in technology transfer, and something as big as Zegerid™ rarely happens. Optimistically, he points out that having the right people in the right place with the right support systems greatly increases the chances of it happening again. MU already stands out among most universities by having a financially self-sustaining technology transfer business.

Starting the incubator fits within the University's goals. Chancellor Deaton would like to create at least two companies and an additional 500 jobs annually through technology transfer. Coleman and Sharpe both want to create a technology development fund, something that will use licensing fees to reinvest in innovative and inventive research. Also, the proposed Health Sciences Research Center could increase technology transfer in the medical field.

For Coleman, embracing technology transfer fits with the University's research mission. It's putting something visible and usable into the market. "If you do it right, it has a lot of academic integrity," he says. "You're making your research mean something to people." ❁

From Problem to Product

The process that resulted in Zegerid™, a drug for acid reflux and gastrointestinal disorders such as ulcers, took about nine years. That's quicker than many such processes because it built on an existing drug family, proton pump inhibitors (PPIs), and because the market for those drugs is large. Existing PPIs include Prilosec® and Nexium®.

1995: At MU, Jeffrey Phillips identifies a problem with existing solid PPIs: Seriously ill patients and children sometimes have trouble taking them. Phillips, an associate research professor, begins work on a solution: a powder form.

1996: Phillips' testing shows success in using sodium bicarbonate (baking soda) as a "suicide molecule," a buffer that neutralizes stomach acid and allows the PPI to reach its destination. The sodium bicarbonate also makes the drug more effective. The University files for the first patent based on Phillips' research and funded by the Department of Surgery. Major pharmaceutical companies reject the idea as impossible, he says.

1997, 1999, 2000: The University files subsequent patents on Phillips' work.

1998: Phillips starts consulting with the Office of Technology & Special Projects and its executive director, Tom Sharpe.

2001: Phillips and Sharpe start working with Santarus, the smaller company that will eventually license Zegerid™.

2004: The FDA approves the first form of Zegerid™, a 20-milligram powder for liquid suspension, in June. Santarus launches the drug in October. The FDA approves a 40-milligram dosage in December.

2005: Santarus expects to file new drug applications with the FDA for capsules and chewable tablet dosage forms.

Are You in the Know?

SAVVY GRADUATES WILL KEEP
THESE 10 NUGGETS ABOUT
MIZZOU IN A HIP POCKET.

STORY BY DALE SMITH
PHOTO ILLUSTRATION BY ROB HILL
AND DORY COLBERT

1. TWO SCHOOLS IN ONE

Many public universities emphasize teaching accomplishments while others focus on excellent scholarship and research. Mizzou has strengths in both areas. Mizzou is Missouri's only public member of the Association of American Universities, which recognizes excellence in undergraduate education and federally funded research. Mizzou's wide range of undergraduate, graduate and doctoral degree programs makes it the only public institution in Missouri to be classified as Doctoral/Research University-Extensive by the Carnegie Foundation for the Advancement of Teaching. The upshot: MU is the kind of place that attracts top faculty who create knowledge and students who learn from and conduct research alongside them.

2. GRAPES FOR HEALTH

Many people already take advantage of red wine's heart-healthy effects, and the grape just keeps on giving. MU researchers Grace and Albert Sun discovered that resveratrol, a compound in red wine and grapes, may help minimize brain damage in stroke victims. After a stroke, an influx of calcium generates oxygen free radicals, which can result in delayed cell death. Resveratrol minimizes damage by absorbing the free radicals.

3. NOBEL PRIZE WINNER

When it comes to the vaccine for polio, the history books hail Jonas Salk. But Frederick Robbins, BA '36, BS Med '38, DS '58, was one of the trio of researchers whose work paved the way for Salk. In 1954, Robbins and his teammates won a Nobel Prize for their breakthrough in developing a way to grow poliovirus in a test tube.

IN THE KNOW ABOUT MIZZOU

- 1. TWO SCHOOLS IN ONE** Mizzou is a rare university for its strengths in both teaching and research. Many schools emphasize one or the other.
- 2. GRAPES FOR HEALTH** MU researchers discovered that a compound in red wine and grapes may help minimize brain damage in stroke victims.
- 3. NOBEL PRIZE WINNER** Frederick Robbins, BA '36, BS Med '38, DS '58, was part of a research team that paved the way for the polio vaccine.
- 4. SUPPORT FOR EINSTEIN** MU physicist Sergei Kopeikin was part of the first team to support an Einstein theory by attempting to measure the speed of gravity.
- 5. SHARING INTELLECTUAL CAPITAL** Each year, extension programs offer more than a million people in many walks of life the latest information in their fields.

That call boosted attendance at Rollins Field to 10,000 and started Mizzou's Homecoming tradition, which was among the first in the nation. That first Homecoming match ended tied at 3.

8. GROWING RESEARCH DOLLARS
Having won large grants to study plant genomics and science and math education, MU led Missouri in money awarded by the National Science Foundation (NSF) from 2000 to 2004. NSF funds research and education in science and engineering through its awards to more than 2,000 institutions nationwide. Competition is fierce. Units across campus won \$73.9 million from the NSF during that period, compared with \$69.8 million at Washington University in St. Louis.

9. GET THE STORY
For students at MU's School of Journalism, the first in the world, almost anything in Columbia and around the world is a potential story topic. Newspaper and magazine students gain hands-on experience as they produce print and online publications, including three magazines — *Adelante!*, *IPI Global Journalist* and *Vox* — and the *Columbia Missourian* newspaper. Broadcast students train at KBI-A-FM, *Missouri Digital News* and KOMU-TV. Strategic communication students create advertising, public relations and marketing strategies for local and national clients.

10. THIS MINI PIGGY COULD SAVE A LIFE
The breakthrough made international science news headlines in 2002 when Randall Prather and other MU researchers, working with Immerge BioTherapeutics Inc., were the first to clone miniature swine that had a particular gene "knocked out" of their DNA. It was a key step toward the urgent task of making animal-to-human organ transplants a reality. Of the more than 87,000 Americans who await donor organs, 17 die each day. ☘

4. SUPPORT FOR EINSTEIN
In formulating his general theory of relativity, Albert Einstein assumed that gravity travels at the speed of light. But was he correct? Probably. In September 2002, MU physicist Sergei Kopeikin and astronomer Ed Fomalont of the National Radio Astronomy Observatory set out to measure the speed of gravity. They used an innovative technique and a rare alignment of celestial bodies. A prestigious journal published their results, which prompted debate in the scientific community and received worldwide attention.

5. SHARING INTELLECTUAL CAPITAL
Mizzou shares its research knowledge with all interested Missourians through University of Missouri Extension. Each year, extension efforts offer more than a million people — teachers, farmers, health care professionals, lawyers, firefighters, police officers and more — the latest information in their fields. MU Extension is also the gateway for online and other nontraditional courses and degree offerings.

6. BLAST FOR SAFER BUILDINGS
Sometimes it's the good guys who blow up buildings. Engineer Sam Kiger directs MU's National Center for Explosion Resistant Design, which researches explosions and the building designs that protect against them. The center's work ranges from writing computer programs that determine a wall's blast-resistant capacity to finding out through experiments that adding a few extra screws to steel studs can make them far stronger.

7. COME ON HOME
In 1911, when a new conference rule mandated that football games be played on campus, MU and KU abandoned the practice of competing in Kansas City. Concerned about attendance, MU Athletic Director Chester Brewer sent word for Mizzou graduates to come back home for the Tigers' big game.

6. BLAST FOR SAFER BUILDINGS MU's National Center for Explosion Resistant Design researches explosions and the designs that could minimize their impact.

7. COME ON HOME MU's Homecoming tradition — among the first — began in 1911, when many graduates returned for the Tigers' big game against Kansas.

8. GROWING RESEARCH DOLLARS With large grants in plant genomics and education, MU led Missouri in money awarded by the National Science Foundation from 2000 to 2004.

9. GET THE STORY To make the most of its city-sized laboratory, the J-School runs the *Columbia Missourian* newspaper, KBI-A-FM radio station and KOMU-TV.

10. THIS MINI PIGGY COULD SAVE A LIFE MU researchers working with Immerge BioTherapeutics Inc. cloned pigs lacking a particular gene, a key step toward animal-to-human organ transplants.



HA HA FOR HEALTH

A humor
therapist
reveals the
PHYSICAL and
EMOTIONAL
benefits of
laughter
and offers tips
for a more
HUMOROUSLY
healthy you!

Story by Dale Smith
Illustration by
Rick Sealock





hoohoo

HA HA

HARRRR

HARARA

heehaw


HE HA HA

ha

heehaw

HOORRR

SEALOC



It's infectious yet healthful, silly yet serious, aerobic yet effortless, priceless yet free for the taking. It's humor, says Karyn Buxman, an expert and a kind of dealer in that elemental human behavior. She's not a humorist who makes her living being funny; in fact, she can't even remember punch lines. Instead, she is a nurse who has studied the therapeutic uses of humor. A member of the Speakers Hall of Fame, Buxman has traveled the country since 1991 speaking to groups about how to lighten up for a happier, healthier and more productive life. Relax, says the nurse. This won't hurt a bit.

Martial and Medical

As a Hannibal, Mo., native and Mizzou graduate, Buxman, MSN '90, has one of the toughest possible acts to follow in honorary Mizzou graduate Mark Twain, DHL 1902. Twain once remarked that "The human race has one really effective weapon, and that is laughter." Buxman acknowledges that Twain could outgun her. "Luckily," she quips, "Mark is no longer taking engagements."

Humor may be a weapon, but it's also a treatment. Perhaps the most famous proponent of therapeutic humor was Norman Cousins, who claimed in the 1979 book *Anatomy of an Illness* to have laughed his way to a cure for the usually terminal disease ankylosing spondylitis, which causes chronic inflammation of the spine. Researchers have followed up on his lead and measured many of humor's benefits, Buxman says.

Experiencing or even anticipating humor can bolster the body's ability to stave off infection by boosting the immune system and by lowering levels

of stress hormones. Some of these improvements can last for weeks.

Humor's benefits extend to muscles, too. For instance, a belly laugh provides a mild aerobic workout, which can be a boon even for people bound to bed, wheelchair or home. "Anybody can laugh without buying a health club membership," Buxman says. "I'm not claiming that laughter cures anything, but it can be complementary to other treatments."

Take It Where You Find It

The key to making use of humor's benefits is not the ability to tell jokes, Buxman says. It's being alert to what's funny in everyday life. She calls it "seeing funny." Like the time she gave her own slapstick reading to the *Hannibal Courier-Post* headline, "Two Injured in Rear-End Collision." And there was the airport sign, "Terminal Luggage," which she figured is the place where old duffel bags go to die.

Although it's good to recognize humor, it's even better to search for it habitually, Buxman says. Perhaps the most committed strategy for this is to join a group that meets regularly with the sole purpose of laughing. In 1991 she co-founded World Laughter Tour, a collection of 100 laughter clubs. She and co-founder Steve Wilson have trained about 1,000 laugh leaders, who take their charges through a series of exercises beginning with forced laughs that soon turn into the real thing. Some businesses are offering laughter clubs to employees to boost morale and improve productivity.

Practice Makes Perfect

Beetle Bailey creator Mort Walker, BA '48, once said, "Seven days without laughter makes one weak." Buxman

might rephrase that in the affirmative: Practicing humor habitually prepares us to use it as a coping mechanism during tough times. Although Buxman has long preached that message as a professional speaker, she had the unfortunate luck of having to test it during her son's cancer treatment in 2003. David Buxman, then a junior majoring in sociology at MU, learned that he had a tumor in his chest in January of that year.

"This stuff really works," she says, recalling an inside joke she had with David, BA '04. "He had given himself the nickname Tonto, and during his 12 weeks of chemotherapy he started calling himself Chemo-sabe." But the crowning bit of good humor came in the form of a haircut.

"He had been asking me for years if he could have a mohawk, and I always told him, 'No,'" Karyn says. "Then when I realized his hair was going to fall out from the chemotherapy, I said, 'Let's go for it.'" She says the pictures of the mohawk were great comic relief. She even posted them on a Web site, where friends and family kept track of David's progress.

Mithridates, He Died Old

Legend has it that King Mithridates lived in a treacherous world where assassins used poison to do their dirty work. The king trained for just such a tragedy by taking small daily doses of many venoms. Then when his food was actually poisoned one day, he not only survived but also caught his attackers. Our world, however, is one of stress and other less tangible poisons, so Buxman prescribes her favorite antidote accordingly: Laugh often and well. ☼

HOW TO SELF-MEDICATE WITH HUMOR

Follow These Five Tips

1. It's a skill: Exaggerate until it's funny. "Humor is the ability to play with perceptions," says nurse and humor consultant Karyn Buxman. She teaches a step-by-step approach to "catastrophizing your icky moments." When in a difficult situation, exaggerate until it becomes absurd enough to put things in perspective. For instance, if you are nervous before giving a speech, try a pregnancy scenario: "It's not that bad, I could be pregnant. Or what's worse, I could be nine months pregnant. Or even worse than that, I could be leaking water in front of all these strangers." Buxman used to take this one step at a time, she says, "but now I just leap to the end."

2. Joke break: Register at a Web site that will e-mail a daily joke to you.

3. It's magic: Keep a toy handy to lighten your load. Buxman is partial to magic wands for days when the impossible demands just keep coming.

4. Nice outfit: Wear an oddball necktie, crazy socks or a funny pin. One of Buxman's pins reads, "Stop me before I become my mother!"

5. I've been a great audience: Don't wait for others to give you a pat on the back for good performance. Hop up and give yourself a standing ovation.

For more information, check out Buxman's Web site at humorx.com.

Nurse and humor consultant
Karyn Buxman advises
people to go poking
around for the
humor in
everyday life.

Perpetual

STORY BY SCOTT SPILKY

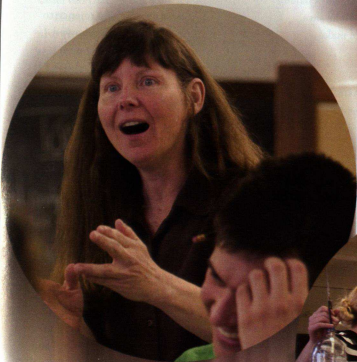
PHOTOS BY
ROB HILL AND STEVE MORSE

WITH AN UNORTHODOX
AND ENERGETIC APPROACH
TO SCIENCE EDUCATION,
KEMPER AWARD-WINNING
TEACHER ROBIN
HURST-MARCH INSPIRES
HER STUDENTS TO
UNDERSTAND THE WORLD
AROUND THEM.

Ten minutes before Robin Hurst-March's 9 a.m. environmental studies class, she stands at the head of the lecture hall in 112 Lefevre with chocolate bars and bags of matchsticks. On the board, she has drawn a chart that students will later fill in. As bleary-eyed students gradually file in, one looks at the empty chart and sighs. "Robin, is this an interactive class?" "Come on, honey" is Hurst-March's



Motion



Robin Hurst-March is a dynamo of a teacher. She specializes in making science interesting to nonscience majors, such as Katrina Wiedemann (not pictured), a sophomore education major who had a class with Hurst-March last fall. "She's great! She's up, outgoing and fun. This is the most nonboring class ever."

encouraging reply.

"It's early," moans the student.

Hurst-March, BS Ed '86, M Ed '94, PhD '97, is a 5-foot-3-inch dynamo with a loud, clear voice. During class, she sometimes ends her sentences with "y'all" and calls her students "little darlings." She races from one end of the lecture hall to the other, her gray-tinged brown hair flying around her round face, her wide-open blue eyes searching out students. Hurst-

March smiles, and it's clear she is in on the fun of her performance. Her shtick, as she calls it, helps students focus on subjects such as today's lesson on world population.

She divides the class into groups representing parts of the world: Africa, Asia, North America, Latin America and Europe. The chocolate bars represent gross national product, and the matches represent energy use. Hurst-March gives



the North America group the most chocolate and matches. After reviewing birth, death and population statistics, she asks a student from each group to fill the chart with statistics about their region. When one female student is reluctant to come to the front, Hurst-March urges her on, saying, "Go up there, my little lovebug."

Once all the information goes up on the board, the class reviews the work and utters a collective gasp upon discovering that in North America life expectancy is 77 years, but in Africa it's only 54 years.

"Whoa, 54 years! I would be on the slide," Hurst-March quips.

She lays out some more information about population growth rates and elicits another gasp: At the current rate, North America's population would double in 140 years, but Africa's would double in just 29 years. She pauses for a moment to let that sink in. The ensuing lively discussion brings class to an end, and students empty out of the room.

"Don't throw your gross national product waste on the floor," she says as they pass her, "or I'm gonna hurt you."

Hurst-March's teaching style is uncommon, and it's uncommonly effective. For her efforts, she won a \$10,000 William T. Kemper Fellowship for Teaching Excellence in April 2004. The awards program began in 1991 with a gift from the William T. Kemper Foundation of Kansas City, Mo., to honor 10 outstanding MU teachers annually. Kemper, BA '25, was a well-known civic leader who died in 1989.

Making Room for Great Teaching

In 2004, Hurst-March became one of the first teachers in a non-tenure-track position to win a Kemper Fellowship. John David, director of the Division of Biological Sciences, nominated her for the award. When Hurst-March was a graduate student, she taught biology courses for David, who recognized her talent. He used a special position called resident instruction assistant to retain Hurst-

March, who was the only graduate assistant in the division's history to score a perfect 5.0 for overall teaching effectiveness. And she did it twice. Hurst-March grades all the papers in her classes and memorizes the names of all her students, even though her Biology 1 course often has hundreds of students. "I just think it's a basic kindness to know someone's name, and it's not too much to ask," she says.

David says it's not easy to make

'I WANTED TO GIVE BACK TO MY STUDENTS WHAT I FELT LIKE I GOT. I WANTED TO TRY TO BE THE BEST AT WHAT I DID, AND I FELT LIKE THEY DESERVED THAT.'

— ROBIN HURST-MARCH

science appealing to nonscience majors, who must take nine hours of science. "Many of them are dragged kicking and screaming into a course on science," he says.

David has nominated six other teachers who have won Kemper. He says that although many instructors are well-liked, Hurst-March is one of the few who can build on that quality to teach students what they need to know.

"It's a special kind of challenge," he says, "and it takes a special kind of teacher."

In the nomination packet for Hurst-March's Kemper Fellowship, former student Peggy O'Connor writes: "When she is teaching, you not only love being her student, you cannot help but want to be like her — someone who so obviously loves what she does, and who makes students from all disciplines eagerly reach for *Scientific American* on the newsstands."

Teaching Methods for the Masses

Hurst-March often weaves mass media into her lessons to help make them relevant to her students. She uses programs on television and radio, articles in local and national newspapers and magazines, and even popular films. It's a time-consuming aspect of her work, but it's well worth the effort.

Once, for a class on teaching science to elementary school students, she showed the animated film *The Lion King* and explained to her class of aspiring educators how to use it to teach the stages of life, what animals eat and how they are socialized. "It was just a way for them to connect with their students," Hurst-March says. "I really enjoy it, and I think it's very effective."

Holland Newton, a student in Hurst-March's General Principles and Concepts of Biology class this past fall, says part of her gift is how well she understands her audience. "She has a doctorate, but she can still make references to what college students like. She gets on the same level as students and talks to you like a friend."

Hurst-March lives for seeing her students reach "Aha!" moments, such as the ones they experienced during the population lesson. "I love it when you see that in them," she says, beaming. "When you can be a part of them learning, and they go, 'Ooh, wow!' That's just too cool, and I get to do that every day."

What Really Matters

Growing up in a working-class family in Fulton, Mo., Hurst-March had good teachers, starting in kindergarten with Connie Sother. "She made me feel like I was smart," Hurst-March says. "She made me feel like I could do anything." From that point on, Hurst-March knew she was going to be a teacher. "Teachers can truly make your life," she says.

That was a message she took with her as she worked for seven years as an elementary school teacher in small

mid-Missouri towns similar to the one where she grew up. "I wanted to give back to my students what I felt like I got," she says. "I wanted to try to be the best at what I did, and I felt like they deserved that."

Hurst-March also gives of herself to animals. She lives on a 250-acre farm southwest of Columbia with her husband, Zac March, BS Ed '91, M Ed '96, and numerous animals, including 34 horses, 13 cats, six dogs, four rabbits and a guinea pig. She and Zac, director of information technology for the College of Veterinary Medicine, run a charity called Out 2 Pasture for lame or injured racehorses. It's a continuation of Hurst-March's lifelong habit of taking in stray animals. Together she and Zac saved some of the horses they now care for as the animals were on their way to slaughterhouses. "They come in, these horses in particular, physically and mentally damaged, most of them, from what they've been through on the race-tracks," Hurst-March says. "Earning their trust is just like getting up in front of a student that doesn't want to take science. You have to win that."

To earn that trust with students, Hurst-March finds out what appeals to each one. She says not everyone is intelligent in the same way. Whatever they are interested in — economics, literature, art, journalism, athletics — Hurst-March makes it her job to help them connect with her courses. All students may not be great at memorizing

the phases of cell division, she says, but that doesn't mean they aren't bright.

Those are lessons Hurst-March learned first from her kindergarten teacher, Sother, and later from two high school teachers in Fulton: Pat Simpson, who taught literature, and Bill Simpson, M Ed '75, who taught science.

"They made me feel so special. They did little things like asking me how I was, and they made me feel incredibly worthwhile as a person. They were fabulous in the classroom — very hands-on. They were very different from the norm of the lecture format. They were what I hoped I would be."

Judging by the kudos from her

Hurst-March and her husband, Zac March, operate a sort of animal orphanage called Out 2 Pasture. They take in lame or injured racehorses, some of which would otherwise be headed to a slaughterhouse.

students, colleagues and the Kemper awards committee, she has achieved her goal.

"It'd be great if students come to my class and learn something about science," she says. "But if they go out knowing that they are special and can make a difference, that's what really matters." ❁



ASSOCIATION NEWS



MEET KELLEY ROHLFLING MARCHBANKS

- **Position:** The new coordinator of legislative relations for the MU Alumni Association
- **Roots:** Reared on family farm in Howard County outside of Fayette, Mo.; state FFA officer as a freshman at Mizzou, where she graduated in 2002 with a bachelor's degree in agriculture
- **Goal:** To one day serve in the Missouri legislature
- **Political Experience:** Served as agriculture adviser to Lt. Gov. Joe Maxwell and as liaison between Missouri's Department of Agriculture and the

lieutenant governor's office

- **Belief:** "The right to govern ourselves is one of the highest rights that we have as Americans. Mizzou alumni understand how much the University offers our state, and they are the ones who need to share their stories."
- **Role:** "I provide the tools; alumni provide the power!"
- **Personal:** Married in January; resides in New Franklin with husband Aaron Marchbanks, BA '00
- **Contact:** (573) 882-3941, rohlflingk@missouri.edu

LINC VOLUNTEERS WORK FOR A BETTER UNIVERSITY

JOHAN ADAMS, PRESIDENT AND SIGNER of the U.S. Constitution, believed in using the political process to make progress. He once said that he studied politics so that his descendants could be free to study mathematics and philosophy: "My sons ought to study mathematics and philosophy, geography, natural history, naval architecture, navigation, commerce and agriculture in order to give their children a right to study painting, poetry, music, architecture, statuary, tapestry and porcelain."

The 1,545 members of the MU Alumni Association's Legislative Information Network Committee (LINC) share that attitude. LINC is a grass-roots group of committed and vocal alumni who volunteer to lobby government officials on issues and legislation related to the University. Like Adams, LINC members see their work as making a better future for the MU students and Missourians who come after them.

Each year, LINC publishes a legislative platform that guides its members. Major issues appear below. For more information, contact Kelley Rohlfling Marchbanks (see story at left) or visit www.mizzou.com.

Requests for a Better Budget

LINC supports the University of Missouri System's state budget request of \$481.1 million for fiscal year 2006. This figure would nearly match the 2002 state allocation, which plunged to \$388.7 million in 2004 from budget cuts. The operating budget supports MU's missions of teaching, research and service to Missourians. The System's request includes:

- \$38.4 million to defray inflationary cost increases of such expenses as employee benefits, which help attract and retain a strong faculty and staff.
- \$20 million for educating more health

care professionals. MU is a key provider of physicians, nurses and allied health professionals in Missouri, and this funding would help address the state's personnel shortages in these areas.

- \$10 million to be matched with private funds to endow need-based scholarships for more than 660 Missouri students whose household incomes are less than \$40,000.

- \$10 million to expand a successful state-private matching funds program that has attracted many top faculty members as endowed chairs.

Capital Improvements for Sciences

LINC supports a plan to build Missouri's economic future through a higher education capital package that includes \$81 million for a health sciences research center at MU and improvements at other UM System campuses. A health sciences research center could generate more than \$100 million in private and research support and strengthen MU's interdisciplinary life sciences focus that benefits current students and all Missourians.

Don't Change the Name

As of press time, the Missouri Senate had approved and sent to the House of Representatives a bill to rename Southwest Missouri State University as Missouri State University. The Senate version of the bill prohibited the renamed MSU from seeking land-grant status, from starting professional degree programs already offered by the University of Missouri System, or from offering engineering or doctoral degree programs except in cooperation with the System. The bill says the new name does not entitle MSU to more state funding. To become law, the bill must pass the House and Gov. Matt Blunt must sign it.

The MU Alumni Association Governing Board opposes use of the name MSU by another institution for several reasons:

- A name change would create a "third tier" of higher education in Missouri.

The missions and roles of all institutions should be reviewed.

- In a state that ranks near the bottom on per capita funding of higher education, a name change could increase demand for resources for a single institution.

- A name change could lead to duplication of programs.

- Missouri State University was the name of the University of Missouri in Columbia for many years. The name Mizzou is based on a contraction of Missouri State University (MSU).

RESOLVED: HELP THE DEBATE TEAM

KANSAS CITY CHAPTER PRESIDENT Phil Grubaugh, BA '72, JD '75, debated on scholarship for two years at Mizzou and has always believed that it made him a better lawyer. "So last fall when MU's volunteer debate coach, Chris Banks, made a fund-raising call to Grubaugh on behalf of his impoverished

team, he found a sympathetic ear.

Banks, a law student, had among his debaters the nation's leading parliamentary debate pair in Chris Shaw and Nick Dudley, but money was so tight that on road trips the team had to sleep eight to a room. The once-substantial debate budget Grubaugh knew, complete with scholarships and a paid coach, had dwindled to well under \$10,000. Some rival schools fund debate squads at \$100,000 or more, Banks says.

Grubaugh invited Banks to present his case to the chapter's board, which resolved to help. The board gave the debate team \$1,000 in chapter funds and agreed to match donations by individual chapter members. "Our board saw this as a way to help a bunch of kids who are busting their tails to be successful," Grubaugh says. "We feel like we're part of their success."

Soon that enthusiasm spread to the St. Louis Chapter, which also has pledged support. All told, the chapters have given the young debaters more than \$4,000.



At press time, junior Chris Shaw of Raymore, Mo., left, and sophomore Nick Dudley of Independence, Mo., were the nation's leading parliamentary debate team. MU Alumni Association chapters in Kansas City and St. Louis raised money to help this pair and the rest of the team compete.

ASSOCIATION NEWS

WE WANT TO KNOW . . .

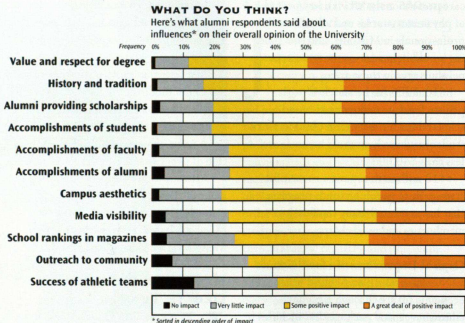
ALUMNI, HOW ARE WE DOING? The MU Alumni Association wants to know. In an effort to use research-based information to help chart its course, the association participated in the nationwide Alumni Attitude Study last November. Researchers e-mailed a survey to more than 150,000 alumni from more than 40 public and private universities nationwide.

The survey looked at demographics, loyalty to school, and respondents' perceptions of their college experiences, alumni and the University overall. The sample included 9,990 MU alumni, 17 percent (1,684) of whom filled out the survey. Of those, 62 percent contributed to MU, 18 percent planned to contribute and 20 percent were noncontributors.

Alumni generally gave the association and MU good marks for performance, says Todd McCubbin, the association's executive director. They also offered suggestions for improvements.

On the plus side, 98 percent of respondents said that their choice to attend MU was either good or excellent. A substantial 59 percent promote the University to others regularly or all the time, with another 39 percent talking up their alma mater at least occasionally. "That shows a strong affinity for the University," McCubbin says, "and that feeling extends to alumni who've never contributed money to MU." Alumni also said the association did a good job of organizing events surrounding athletic contests.

Where to improve? Young alumni spoke up loud and clear, McCubbin says. They want more help from the association when it comes to boosting their careers. These more recent alumni want to make the most of the alumni network and also receive mentoring from more experienced graduates. Luckily the older grads seemed willing to help as mentors. "We have underestimated the power and the percep-



tion of the Mizzou network," McCubbin says, "and younger alumni want our help in trying to access that network." Respondents also wanted more opportunities to give the University feedback on its performance, more nonsports options for association events and more chances to help recruit students.

The association participated in the same study in 2002, and the repetition lets McCubbin spot changes. In 2002, for instance, 52 percent said their overall experience as alumni was good. In 2004, that number kicked up to 57 percent.

McCubbin will use the research to adjust the association's programs so that MU benefits from getting more alumni engaged in the life of the University.

GOOD RIVALS, GOOD SPORTS

AT ABOUT THIS TIME LAST YEAR, you couldn't walk across campus without seeing one of the 1,000 Rivalry Week T-shirts students purchased sporting the slogan, "Go Mizzou, Beat KU." The Alumni Association Student Board sponsored the Rivalry Week spirit activities and T-shirts in anticipation of the MU vs. KU basketball game last March. For its work, the group won the 2004 Most Outstanding Program award from the Association of Student Advancement Programs.

"The idea is to build enthusiasm and encourage good sportsmanship," says Carin Huffman, BA '00, the association's coordinator of student programs and athletic events.

This year's Rivalry Week, slated for Feb. 28 to March 6, features a spirit rally, a pop-a-shot basketball competition and a car smash, in which students pay a dollar for the cathartic pleasure of bashing an old car with a sledgehammer. Huffman says the program also teaches students the

**GO MIZZOU
BEAT KU!**



sportsmanship guidelines that the alumni associations of the Big 12 support. Here's an excerpt about fan behavior:

- Develop an appreciation for fairness, openness and support of coaches and players.

- Avoid negative comments and gestures that dishonor the teams, their schools and the Big 12.

- Support and encourage university spirit teams, marching bands and mascots.

- Respect the athletic history and traditions of each opponent.

- Treat spectators, players, coaches and officials courteously, win or lose.

For a copy of the guidelines, e-mail Huffman at huffmanm@missouri.edu.

IN CHINA THEY SAY 'WO DE LAO HU' (MY TIGERS)

MOST TALK ABOUT TIGERS IN China has to do with how rare they are. However, with Michael Hart's help, the count of Mizzou Tigers may soon be on the rise in China. Hart, BS BA '96, recently launched the Beijing chapter with an event in December.

"I figured if alumni were working here, it made sense to formalize the MU link in Shanghai," says Hart, who directs research in north China for Jones Lang LaSalle, a corporate real estate firm.

"If you need someone to help you size up a city of 1.3 billion or a country of 1.3 billion people, surely someone who knows why Jayhawks are bad and Shakespeare's pizza is good can give you a few rules of thumb here as well."

Hart hopes the group will become a network for alumni living in China, a link for the alumni who travel through and a support base for programs that MU may pursue in China.

He started by contacting the 100 or so Mizzou graduates on a list that the association provided. "There are 10 listed for Shanghai, but I've already met a couple that weren't on the list," he says, "so I'm assum-

TWO FOR U

To show appreciation for new members, the MU Alumni Association has launched a new program that lasts the first two years of membership. The Two for U program offers special rewards and educates new and returning members on how to maximize their membership. To learn more, visit the membership services section at www.mizzou.com.

GOING FOR 37,000

Membership now matters more than ever. Last fall the association launched a yearlong campaign to raise membership to 37,000. To help out, please consider the following: Renew your annual membership early, upgrade to an endowed life membership and suggest to friends and peers that they join the association. For a list of the top 10 ways membership

ing we'll start small and then find those who are hidden here in the woodwork."

Here's a list of new and reactivated chapters from the past two years:

Beijing

Michael Hart
michael.hart@ap.joneslanglasalle.com

Gulf Coast (Fla., Ala., Miss.)

Jim Adkinson, jim_adkinson@yahoo.com

Indiana Mizzou Crew (Indianapolis)

Sherri Forrest Gallick
sgallick@mapleleafarms.com

Motor City Tigers (Detroit)

Rich Resa, enrbresa@msn.com

Northern California

Jennifer Conroy, jseeker@kdrv.com

supports MU, visit membership services at www.mizzou.com.

RECENT GRADS BENEFIT FROM MEMBERSHIP

Know any May 2005 graduates? Help them stay connected to their peers and academic units with reduced-rate gift memberships of \$30. That's 25 percent off the usual rate. Visit www.mizzou.com or call 1-800-573-6822.

MEMBER DISCOUNT

The Lawn Company, one of the many companies from which association members get discounts on products and services, offers organic solutions to lawn refurbishing and annual maintenance. Call Jeff Zimmerschied, BS '77, an endowed life member, at (573) 442-LAWN (5296) to discuss your needs.

Northwest Arkansas

Katie Holley
Katherine.Holley@kraft.com

San Francisco

Jayme Salinardi
jsalinardi@hotmail.com

Southeast Missouri

Ray Perez, jpercz2@ameren.com

Switzerland

Hoyt Ogilvie
Hoyt@receeandnichols.com

Tulsa

Jon M. Lawrence
jon.lawrence@magellanlp.com

10,000 Lakes (Minneapolis/St. Paul)

Ellie Miller, ellendmiller@hotmail.com

LOW-ENERGY LEGACY

MICHAEL HOLSINGER remembers all the gnashing teeth and sweating palms in the early 1990s as workers built Florida House Learning Center, a model home that demonstrates sustainable housing design and landscaping. "We started the project without enough money to finish it," Holsinger says with a laugh.

But Holsinger, BA '59, BS Ag '81, MS '83, was on a mission. After his first graduation from MU, he worked 20 years in public affairs for the U.S. Air Force and retired young enough to launch a second career. "Everyone wants to try to do something that is meaningful," he says, "especially when you get to go around the second time. We have an obligation to our kids to leave things as good or better than we found them."

So Holsinger armed himself with degrees in horticulture. In 1985 he moved to Sarasota, Fla., where he joined the faculty of the University of Florida as an extension agent. For five years, he taught individuals and groups about sustainable living. But he was frustrated. "They forgot most of it — it's human nature. I was getting the same questions over and over, sometimes from the same people." Around that time he came up with the idea for Florida House. Holsinger thought his lessons might sink in if people could walk through a medium-priced house and yard that showed them how to live in sustainable ways. He became county extension director in 1990 and pulled together



like-minded people from government and industry, started raising money, and was off and running.

Since opening in 1994, Florida House has educated more than 100,000 visitors. During house tours and strolls around the grounds, they learn a number of lessons: Create shade with trees and overhangs; move air around the house to keep energy bills down; where possible, build with recycled materials such as bamboo flooring milled to look like hardwood and porch tiles made with junked auto glass; and plant a landscape with drought-tolerant native plants that require little water, fertilizer or pesticides. (For more information, visit sarasota.extension.ufl.edu/FHLC/flahouse.html.)

In Sarasota County, Fla., people call Michael Holsinger the Father of Sustainability. In 2004, he won the county's Lifetime Achievement Award.

If some of those ideas sound familiar, it's partly because Holsinger has helped move them into mainstream thinking. Groups in Salt Lake City; Charleston, S.C.; and Baton Rouge, La., have followed his lead and constructed their own versions of Florida House.

For his environmental education work, Holsinger won the U.S. Department of Agriculture's Honor Award in 1994 and Sarasota County's Lifetime Achievement Award in 2004. That same year he retired for the second time, having made good on his goal to leave the world a little better than he found it. — Dale Smith

THE THIRTIES

•**John Cooper**, BA '34, MA '37, EdD '46, of Bloomington, Ind., was honored by Indiana University with the naming of the Dr. John M. Cooper Graduate Program in Kinesiology.

•**John Cockrell**, BA '39, MA, BS Med '41, of Eugene, Ore., retired after practicing obstetrics and gynecology for 35 years.

THE FORTIES

•**Sabra Tull Meyer**, BA '49, MA '79, MFA '82, of Columbia completed a bronze bust of Sen. Kit Bond for the MU Life Sciences Center. She also completed a bronze bust of George Washington for Washington, Mo.; a sculpture of Marlin Perkins for the St. Louis Zoo; and a veterans memorial for Boonville, Mo.

THE FIFTIES

•**Marilyn Cummins Holman**, BS HE '54, MS '57, and husband •**John Holman Jr.**, BS Ag, DVM '56, of Potomac, Md., celebrated their 50th wedding anniversary Aug. 15.

•**Ronald Miller Jr.**, BA '57, of Hollister, Mo., received the first Missouri Korean War Medal from former Gov. Bob Holden.

CLASS NOTES

FARE OF FLYING

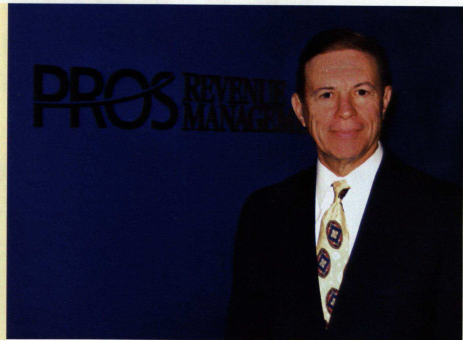
EVER WONDER WHY TICKET prices can vary by hundreds of dollars between two airline passengers sitting across the aisle from each other?

One reason for those price differences is a relatively new science called demand forecasting and revenue optimization. Many airlines now use sophisticated computer programs, such as those Bert Winemiller uses, to tell them how many seats they're likely to fill on a given flight at a certain cost.

That helps them answer important questions, such as how many seats they should hold back for higher-paying business travelers and how many they should try to fill with bargain-conscious vacationers who book months in advance. If an airline makes the wrong choice, a flight might take off half empty.

Winemiller's company, Houston-based PROS Revenue Management, helps airlines take the gamble out of those business decisions. "You apply all kinds of statistical analyses in business every day. What our company does is statistical forecasting of demand," says Winemiller, BS '64, MS '65, the firm's chair and chief executive officer. "We help them get the right equipment to the right place at the right time."

Airline studies show that in the



dogfight for passengers, 6 percent to 8 percent of revenue is tied to statistical forecasting, Winemiller says. He describes PROS as a pioneer and, with 80 percent of the market, a global leader in developing computer models that make that number crunching possible.

"After 9/11 and the SARS scare, much of our airline business went away, and we had to start over," Winemiller says. "The airline industry was really the founder and inventor of this market segmentation and pricing, but now all

Bert Winemiller uses his MU statistics training to help airlines predict how many passengers each flight will have and set ticket prices accordingly.

industries realize they need to do it." PROS is applying its statistical expertise to help other industries such as health care, car rentals, oil, natural gas, cruise lines, resorts and distribution.

"Life is ultimately unpredictable," Winemiller says. "If you can reduce some of that uncertainty, you'll just make better decisions."

— John Beahler

David Duncan, BA '58, MD '63, of Wentzville, Mo., is retired from practicing obstetrics and gynecology.

• **Philip Lombardo**, BA '58, of Bronxville, N.Y., is joint board chairman of the National Association of Broadcasters Board of Directors.

• **Conrad Meier**, Arts '59, of Columbia retired as managing editor of *Health Care News*. Meier is a senior fellow in health policy at The Heartland Institute.

THE SIXTIES

• **Maurice Graham**, BA '60, JD '62, of

St. Louis received the 2004 Foundation Award from the St. Louis Bar Foundation.

• **Beverly Allen**, BA '61, of Marietta, Ga., is a member of the National Museum and Library Services Board.

• **Harry Clark**, MA '61, and wife

• **Yvonne Murray Clark**, BGS '76, of Columbia celebrated their 50th wedding anniversary June 6.

• **Harry Highstreet**, BJ '61, MA '68, of Saint Clair, Mich., wrote *Tall Tales of the Maine Coast* and *An Uneven Dozen*, both published by AuthorHouse.

• **Willie Lewis Adelstein**, BSN '62, of

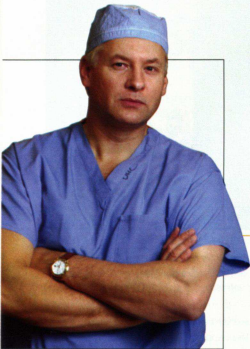
Columbia is owner of University Avenue Bed & Breakfast, which was named one of the "Top 15 Bed & Breakfasts Near a College or University" by *Arrington's 2005 Book of Lists*.

• **Jerry Hitzhusen**, BS Ed '63, MS '72, of Columbia received the 2004 C. Brice Ratchford Memorial Fellowship Award from MU for his work with people who are disabled.

• **Dale Howard**, BS Ag, DVM '65, of Prescott, Ariz., wrote *Sojourners: A Tale of Truth*, published by iUniverse.

• **Valerie Williams Goodin**, BS Ed '67,

missouri's
great
health care university



TALENT AND TECHNOLOGY

Dr. Steve Eubanks, MU's new chair of surgery from Duke University, is an internationally recognized leader in laparoscopic surgery. Not only is Dr. Eubanks recruiting other top surgeons for MU Health Care, but he also is building one of the country's best centers for minimally invasive surgery and sharing his expertise with medical students at Mizzou.



QUALITY CARE AND EDUCATION

As the leading provider of physicians for the state of Missouri, Mizzou's School of Medicine has a lasting impact. Dr. Linda Headrick, BA '77, professor of internal medicine and senior associate dean for medical education and faculty development, is a national expert in improving both physician education and patient care. Dr. Headrick is incorporating new clinical quality measures into the School of Medicine's curriculum.



CRUCIAL RESEARCH

Dr. James Sowers, MD '71, above left, directs MU's Center for Diabetes and Cardiovascular Health, one of the few centers focused on severing the deadly link between diabetes and cardiovascular disease. Dr. Sowers' research is part of a legacy of medical excellence that includes distinguished Mizzou alumnus and Nobel Laureate Dr. Frederick Robbins, BA '36, BS Med '38, DS '58, whose research helped pave the way for the polio vaccine.

Please share these pride points with family, friends, legislators, community leaders and high school students. For a free Mizzou static window sticker, just give us your name and address by going to our Web site at greatstateu.missouri.edu.



University of Missouri-Columbia
Missouri's Great State University

CLASS NOTES

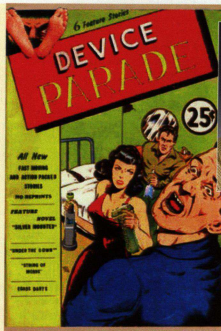
GLANCE, GRIN AND GRIMACE

ON A PULP MAGAZINE COVER, A man twists his head in horror as a dangerous dame and another bad guy approach. One would normally expect to find guns in their hands, but in this case they hold something no less threatening: menacing medical devices.

It's not a real pulp magazine. It's a joke about the fear men have of what happens at urologists' offices. Kim Garretson, BJ '73, of Minneapolis created it as part of his nonprofit MansGland campaign, which uses humor to inform men about the importance of monitoring prostate health.

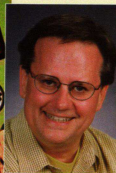
He calls it the "glance, grin and grimace" method. He wants visitors to his Web site to glance at the modified pulp posters and other images, grin at the wit, and then grimace at their own lack of knowledge about the prostate. Why is this important to Garretson? Because in December 2001, he learned he had prostate cancer.

"At that moment, I realized that I had been probably typically foolish, lazy and cavalier about my own health," he says. He had ignored warning signals, such as overly frequent urination, and he had been ignorant about the prostate-



specific antigen test (PSA) used in monitoring prostate health.

After his treatment and surgery, Garretson, a marketing executive for Best Buy, is healthier than expected at the time of his diagnosis. He wrote a book about his experiences (manuscript available at pinata.blogspot.com), but friends pushed him to aim for a larger audience. Garretson thought a Web site (www.mansgland.com), complete with humorous graphics plus information



Using fake pulp posters and other humor, Kim Garretson hopes to inform people about prostate health issues and get a laugh at the same time.

about the PSA test and other topics, would be the best way to reach men

— especially young ones — who are equally foolish, lazy and cavalier about their own health. He also started 1-800-PSA-TEST, a hotline that uses comedy to inform listeners about the test.

Elements of Garretson's story have appeared in articles for *Time* magazine and the *Los Angeles Times*, and he hopes to hit the women's magazine market, too. Just as his wife, Carla, knew about the PSA test when he didn't, other women could play a critical role in pressuring the men in their lives to monitor their health more closely, Garretson believes.

If that doesn't work, Garretson might just create a costumed Gland Man character to appear at sporting events and the like. What better way to appeal to young men than a prostate superhero?

— Chris Blase

M Ed '75, of Columbia earned the 2004 Chapter Service Award from the Boone County Chapter of the MU Alumni Association. She is the association's senior director of alumni activities and chapter development.
George Kastler, BS Ag '69, MS '80, of Jefferson City, Mo., received a Masterpiece Award for his outstanding service in Missouri State Parks.

THE SEVENTIES

David Rosen, MD '70, of College Station, Texas, co-wrote *The Healing Spirit of Haiku*, published by North Atlantic Books.

Michael Conger, BJ '71, of Kansas City, Mo., was named among the "Best of the Bar" by the *Kansas City Business Journal*. Conger is a partner with Polsinelli, Shalton, Welte and Suelthaus PC.

•**Michael Wyatt**, MD '71, of Santa Maria, Calif., has been practicing obstetrics and gynecology for more than 27 years.

Wayne Baltz, BS Ed '72, and wife Terry of Red Feather Lakes, Colo., wrote *Fierce Blessing: A Journey into Alzheimer's, Compassion, and the Joy of Being*, published by Prairie Divide Productions. *Fierce Blessing* was named a finalist honoree at the Colorado Book Awards.

Milton Garber, PhD '72, JD '79, of

Jefferson City, Mo., wrote *The Almighty Formula* and developed Adjusted Reward/Risk Value Indicator, a computer program that computes "top picks" from 6,000 stocks.

Mary Kay Siebert McKinstry, BA '72, and husband **Bruce McKinstry**, BA '78, of DeSoto, Mo., celebrated their 30th wedding anniversary Dec. 21.

Kathleen Keller Passanisi, BHS '72, of Lake Saint Louis, Mo., received the Council of Peers Award for Excellence from the National Speakers Association.

•**Steve Toler**, BS BA '74, of Bahama, N.C., retired as vice president of public affairs for Verizon after 30 years of service

CLASS NOTES

NEW SQUIRES

Five MU alumni have been elected to the Missouri Academy of Squires for their accomplishments in the community, state or nation: Sam Hamra Jr., BS BA '54, JD '59, of Springfield, Mo., chair and chief executive officer of Hamra Enterprises and a governmental relations attorney for the cities of Branson, Mo., and St. Robert, Mo.; Charles McClain, M Ed '57, EdD '61, of Columbia, interim head of the Columbia Independent School; John Dillingham, BA '61, MS '62, of Kansas City, Mo., president and director of JoDill Inc. and Dillingham Enterprises Inc.; Dick Dunn, MSW '61, of Springfield, Mo., director of the Missouri Department of Health and Senior Services; and Sheryl Crow, BS Ed '84, of Santa Monica, Calif., a Grammy Award-winning musician.

and started a public affairs consulting practice, Steve Toler LLC.

Stephen Vitale, MD '75, of Santa Fe, N.M., is president of the Southwestern Dermatological Society.

William Daughton, PhD '76, of Rolla, Mo., is professor and chair of the engineering management and systems

engineering department at the University of Missouri-Rolla.

Vicki Keller Panhuise, MS '76, PhD '79, of Scottsdale, Ariz., received the 2004 Upward Mobility Award from the Society of Women Engineers. Panhuise is vice president of program management for Honeywell Aerospace Electronic Systems.

Nancy Conradi Pearson, MD '76, of Southold, N.Y., is an assistant professor in the department of pediatrics at Stony Brook University.

Greg Wood, BS Ag '76, and wife **Danita Allen**, BS Ag '77, MA '93, of Fayette, Mo., publish *MissouriLife* magazine, which received the Bronze Award for Overall Art Direction and an Award of Merit in the Reader Service Article category from the International Regional Magazine Association. *MissouriLife* staff include managing editor **Martha Everett**, MA '94, and art director **Andrew Barton**, BJ '00, both of Columbia. Freelance writer **Greg Laslo**, BA, BJ '94, of Kansas City, Mo., wrote the story that won the Award of Merit.

Jeff Hirsh, MA '77, of Cincinnati received the Sigma Delta Chi Award from the Society of Professional Journalists for Best Television Documentary in the United States for *Finding Family*, a doc-

umentary following a Holocaust survivor back to Auschwitz, where his mother was killed, and to the Netherlands, for an emotional reunion with descendants of the family that hid him during World War II. Hirsh is a reporter at WKRC-TV.

WITH EIGHT GRADUATES IN ONE GENERATION, THIS SURE IS A MISSOURI FAMILY: MARY KAY BACKER, BSN '72, OF ST. LOUIS; MARILYN BACKER PARKER, BS Ed '74, OF BLUE SPRINGS, MO.; MARY LOUISE BACKER BARRETT, BSW '76, MSW '77, OF SANNAMISH, WASH.; ROBERT BACKER, BA '77, OF CHESTERFIELD, MO.; MARY SUSAN BACKER, BS Ed '80, OF BALLWIN, MO.; MARY CAROL BACKER MILLER, BS BA '80, OF COLUMBIA; MARY PATRICE BACKER, BS '82, OF BALLWIN, MO.; AND JOSEPH BACKER, BA '84, OF BLUE SPRINGS, MO.

Gayle Keck, BJ '77, of Arlington, Va., wrote "Onionskin," a short story that was chosen to be included in *Best Travelers' Tales 2004*. Keck is a freelance writer who contributes to *The*

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CLASS NOTES

LIEUTENANT COLONEL OF CREATIVITY

IN HIGH SCHOOL, LT. COL. FRANK C. Budd enjoyed *The Bob Newhart Show*. He liked watching Newhart's character, psychologist Robert Hartley, work with people. Every client posed a different challenge, and every session allowed Hartley to exercise his creativity. Budd, who hates routine, thought a career like Hartley's would suit him well.

Eighteen years as an Air Force psychologist have proved Budd, MA '83, PhD '88, right.

In fact, Budd has done so well as a psychologist that in 2003 he earned the American Psychological Association's Award for Distinguished Contributions to Practice in the Public Sector. His work as a community educator helped secure him the honor.

Instead of counseling full time, Budd has dedicated much of his career to prevention and community education. He has written newspaper articles and conducted seminars covering a range of psychological dangers, from marital disputes to suicide, to help people gain



Lt. Col. Frank Budd, an award-winning military psychologist, found his niche in the Air Force.

skills to avoid crises. The writing and lecturing require Budd to apply his education differently than do his sessions with patients, and he delights in the variety. "I don't want to sit and do one thing all day," he says. "I'll go insane."

Budd began his military career while finishing his doctorate at Mizzou.

Although he had not previously considered the military, Budd soon realized he had found the perfect employer. "Every base I went to, I was able to do some-

thing a little different based on my interests at the time," he says, "so there was room for a lot of creativity."

Budd has used his creativity to develop nationally recognized training materials for other Air Force psychologists and write two book chapters on military psychology. In his current position at Kirtland Air Force Base, N.M., he works in the areas of leadership development, employee team building and emotional intelligence for supervisors.

In the past, while serving in the prestigious and influential position of clinical psychology consultant to the Air Combat Command Surgeon General, he created seminal manuals on workplace violence, suicide awareness, critical incident stress management and mental health programs. In another role, he helped develop training materials that every Air Force base in the world will use to improve communication with commanders. Those materials include a video for which Budd acted and wrote scripts.

"Most psychologists don't write movie scripts," he says. "I enjoy being creative and doing things people typically don't do." — Anita Neal Harrison

Washington Post and *Los Angeles Times* travel sections.

Kimberly French, BJ '79, of Middleborough, Mass., wrote *Perkins School for the Blind*, published by Arcadia Publishing.

J. Steven Lambert, BA '79, MD '83, of Penfield, N.Y., received the 2004 Arnold L. van Ameringen Award in Psychiatric Rehabilitation from the American Psychiatric Association. Lambert is associate chair of clinical programs in the University of Rochester Medical Center's Psychiatry Department.

THE EIGHTIES

John Spaar, BJ '80, of Lee's Summit, Mo., is 2005 president of the Missouri Press Association.

Cmdr. Ben Ernst, BA '81, of Corpus Christi, Texas, returned from a second tour in Iraq as commanding officer of the Bravo Surgical Company, a combat hospital in Fallujah. He is director for administration at the Naval Hospital in Corpus Christi.

Heather Heidelbaugh, BA, BA '81, JD '84, of Pittsburgh was reappointed to the civil procedural rules committee of the Pennsylvania Supreme Court. She is a litigation shareholder with Babst, Calland, Clements and Zomnir PC.

Terry Killian, MD '82, and wife Becky of Williamsville, Ill., announce the birth of Teddy on Sept. 20.

Terry Stanton, BJ '82, of Oak Park, Ill., is managing editor of *HedgeWorld*. **Judy Cumber Alexander**, BS Acc '83, of St. Louis is president and chief execu-

tive officer of Emmaus Homes Inc., a not-for-profit organization that provides services to mentally and developmentally disabled adults.

Sarah Luthens, BA, BA '83, of Seattle is a community organizer for Lambda Legal to advocate for marriage equality and domestic-partner benefits. Luthens is national treasurer of Pride At Work.

Mary Rhodes Russell, JD '83, of Jefferson City, Mo., is a judge of the Supreme Court of Missouri.

José Gutiérrez, BS Acc '84, M Acc '85, of Dallas is president of industry markets for SBC Communications.

Cindy Deiters Mize, BA '84, JD '88, and husband Robert of Memphis, Tenn., announce the birth of William Joseph on Feb. 16, 2004.

CLASS NOTES

SHATTERING THE GLASS CEILING

FRESH OUT OF COLLEGE IN Columbia in 1989, Zim Schwartz learned quickly that office work was not for her. She was too easily bored and felt trapped in a cubicle. For excitement, she started to go on night-shift ride-alongs with police officers, including her future husband, Officer Jay Bramblett. The action, the interaction and the bizarre occurrences she witnessed revealed a new career path, one that could hold her attention.

Now she's the first woman to reach the rank of captain in the Columbia Police Department. Schwartz, BS '89, MPA '03, worked her way up through the ranks: community service aide, then officer, then sergeant, and captain since January 2003. She got to that point in the only way a police officer can: by putting in the hours, making the arrests and steadily building a strong record.

Asked about her ascent in a typically male-dominated field, Schwartz responds with humor. "The old stigma is not the way it used to be, and we've broken through that glass ceiling that's supposedly up there," she says. "I like to say I just freakin' shattered it."

Of course, if you're a woman in that position, it helps to be tough. And Schwartz is tough. She's had her jaw dislocated and foot broken on the TV battle show *American Gladiators*.

She's chased down criminals and caught burglars, including one in her own home. She's survived some scary times — including a search for a crazily laughing suspect in pitch-black woods



Capt. Zim Schwartz became interested in police work after riding along with officers on the night shift. "There's always something different going on, and usually something unusual," she says.

— and seen plenty of homicide scenes.

As captain now, that action has slowed down a bit and given way to administrative duties. Still, there are moments of which to be proud, including her many years of working with Special Olympics Missouri, a big cause for law enforcement agencies. She also has promoted community policing and served as the face of the department on "Crimestoppers" TV segments for almost seven years.

That's not to say that Schwartz doesn't get excited about occasional tastes of street police work. After all, those adrenaline-pumping situations pulled her into the career in the first place.

"I have to admit that I do miss being out there and chasing people down," she says. — *Chris Bloss*

•**Patricia Rough Porterfield**, MS '84, of St. Charles, Mo., received a doctorate in educational leadership and policy studies from the University of Missouri-St. Louis in May and received the Outstanding Doctoral Student Award for the division.

Porterfield is dean of the math, science and health division at St. Charles Community College in St. Peters, Mo.

•**Mike Taylor**, BJ '85, of Denver is managing editor of *ColoradoBiz* magazine.

•**Brian Bartsch**, BA '86, of Highlands

Ranch, Colo., is director of network planning for ICG Communications.

•**Hana Solomon**, MD '86, of Columbia created the Nasopure Nasal Wash Bottle, which received patent approval from the U.S. Patent and Trademark Office on Sept. 14.

•**Ron Holbrook**, BJ '65, of Mexico, Mo., **Victi Stein**, BJ '75, of Roswell, N.M., and **Kristen Hickman**, BJ '84, of Harrison, Ark., completed tours with the Coalition Provisional Authority's Office of Strategic Communications in Baghdad, Iraq, directing the startup of Iraq's interim government and constitution.

•**Mark Thomas**, MS '86, of Birmingham, Ala., is president of Forestry/Wildlife Integration LLC, a wildlife management and habitat enhancement specialties company.

•**Nancy Zelfiff**, MEd '86, PhD '93, of Skidmore, Mo., received the 2004 Dean's Faculty Award for Service from Northwest Missouri State University's Booth College of Business and Professional Studies.

•**Linda Lorelle**, MA '87, an evening news anchor at KPRC-TV of Houston received a 2004 Emmy for "Beyond Brown vs. Board: The Journey Continues" and a 2004 Gracie Award for individual achievement—best reporter/correspondent for "Goodbye Felicia Moon."

•**Margot Ford McMillen**, MA '87, of Fulton, Mo., and **Heather Roberson**, Arts '97, of Columbia wrote *Into the Spotlight: Four Missouri Women*, published by University of Missouri Press.

•**Chris Schaefer**, BA '87, of Wentzville, Mo., is owner and president of St. Louis Casualty Claims LLC.

•**Sara Keltner Ellis**, HES '88, and husband Jeff of Phoenix announce the birth of Hudson Raymond on Sept. 14. **Lynne Flocke**, PhD '88, of Fayetteville, N.Y., is associate dean for academic affairs for the S.I. Newhouse School of Public Communications at Syracuse University.

•**Monica Hopkins Stahlschmidt**, BA '88, and husband Ron of Scottsdale, Ariz., announce the birth of Charles Edward Burke on Aug. 7.

THE SACRED RIGHT OF VOTING

MARIA DIXON HAD SPENT YEARS immersed in religion at Emory University's divinity school, so when she decided to enter a doctoral program and perform scholarly research on communication in religious groups, some friends voiced concerns. They feared that she was putting her head where her heart ought to be.

Not to worry. A brief conversation with Dixon, PhD '04, reveals both heart and head fully engaged in communication topics both worldly and religious. In September, *The Chronicle of Higher Education* highlighted Dixon in a story about four rising academic stars chosen from across the nation. Her professors at MU call her a dynamic speaker, strong writer and excellent teacher. Dixon is now putting all of those abilities to work as a faculty member in the corporate communications and public affairs department at Southern Methodist University in Dallas.

Dixon's dissertation takes up the timely topic of religion's influence in American politics. She looks at how Southern Baptists started using the pulpit to send political messages between 1979 and 1989. "Most people consider sermons happy talk about God



PHOTO COURTESY OF SOUTHERN METHODIST UNIVERSITY

The Chronicle of Higher Education selected Maria Dixon, PhD '04, as one of four rising academic stars in the United States. The communications graduate joined the faculty at Southern Methodist University in fall 2004.

and the afterlife, but sermons also enact political and organizational goals," Dixon says. Ministers who preached during the period of her study started stressing personal morality and casting their messages partly in political language, she says.

The trend continues: "There was media coverage that indicated that

before the 2004 presidential election, a lot of ministers gave sermons on what it meant to be a good citizen and a good voter and said, 'Here are voter registration cards, and here's who to vote for.' "

She says that although moderate and liberal politicians do the same thing, their supporters are often not as passionate. "The conservatives believe that, 'If we don't do this, we're all going to hell. This is our call to make a difference in people's lives.' They believe that their way of life is disappearing before them."

Moderates and liberals might sway more religion-based voters, she says, by persuading them that it's just as proper for Christians to be concerned with societal issues such as poverty, education and health care as it is to vote based on matters of personal piety. "They need to convince people that making sure that children and their parents have access to the health care, child care and an above-average educational system necessary to sustain a healthy and productive life is as important and as essential to Christian life as are the pro-life movement's efforts to reduce the number of abortions that occur each day. Personal piety is great, but it is never to be emphasized more than the active, non-judgmental care of our neighbor."

— Dale Smith

•**David Shepherd**, BS ME '89, MS '90, and wife Bilye of Raleigh, N.C., announce the birth of Jack David on Sept. 29.

•**Jude Yahn Jr.**, BS ME '89, and wife Erica of Tulsa, Okla., announce the birth of Ayden Jude on May 25.

THE NINETIES

•**Maria Evans**, MD '91, of Greentop, Mo., received the 2004 A.T. Still University of Health Sciences Staff Award for Teaching Excellence. She is an associate professor of pathology at A.T. Still University in Kirksville, Mo., and co-owner of Chariton Labs.

Todd Natenberg, BJ '91, of Chicago produced *How to Double Your Sales in 1/2 the Time: Sell How You Want to Buy*, a home-study interactive CD series.

•**Marcus Taylor**, BA '91, and wife Jennifer of Kansas City, Mo., announce the birth of Ryland Keith on Aug. 24.

•**Lucille Salerno**, PhD '92, of Columbia received the Governor's Humanities Community Heritage Award from the Missouri Humanities Council for contribution to a community's understanding of its heritage.

Dana Golden Igoe, BS HES '93, and husband Christopher of Kansas City, Mo., announce the birth of Preston

Christopher on Nov. 26, 2003.

•**Susan Waters Rhode**, BS '93, of Gower, Mo., manages communications in the corporate planning and communications department of HNTB Cos.

•**Rich Sipes**, BS, BA '93, MD '98, and wife Ashley of Shreveport, La., announce the birth of Emma Margaret on Sept. 20.

Ernest Ferguson, PhD '94, of Maryville, Mo., received the 2004 Dean's Faculty Award for Research from Northwest Missouri State University's Booth College of Business and Professional Studies.

Steve Finch, DVM '94, and wife Maureen of St. Louis announce the birth of Samantha Kristine on May 22.

CLASS NOTES

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- Bob N., Kansas City, MO

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THE LODGE OF FOUR SEASONS
ANOTHER FOUR SEASONS EXPERIENCE

Cavanaugh Noce, BA '94, JD '98, and wife **Cindy Neagle**, JD '97, of Columbia announce the birth of Peter Emerson on Nov. 5.

Melanie Epstein O'Donnell, BJ '94, and husband Mike of Peoria, Ill., announce the birth of Kayla Macie on Aug. 24.

Dean Riley, MA '94, of Houston celebrated 10 years with Houston Baptist University. Riley is an associate professor of library science.

Alisha Fairhurst Rychnovsky, BS BA '94, MBA '02, and husband Thomas of Columbia announce the birth of Jack Michael on Nov. 3.

Christe Boen, BA '95, of Ellisville, Mo., supports American troops with care packages provided by her patients at Boen Chiropractic.

Kara Lierheimer Cabezas, BS '95, BSN '04, of Flintstone, Ga., is a staff nurse in Erlanger Medical Center's heart management unit.

Travis Crabtree, BJ '95, and wife Karla of Bellaire, Texas, announce the birth of Ann Katherine on Oct. 18.

Paulette Bealmear Farmer, BS HES '95, and husband Bill of Columbia announce the birth of Blake William and Brooke Elizabeth on Sept. 18.

Cheri Hall Marks, BA '95, and husband **Patrick Marks**, BS '96, of Columbia announce the birth of Krista Lynne on Aug. 24.

Greg Matthews, BJ '95, and wife **Sherrie Voss Matthews**, BJ '95, of Springfield, Mo., announce the birth of Caroline Elise on Sept. 5. Sherrie is assistant director of University Communications at Drury University.

Brenda LeVan Vandeginste, BS BA '95, and husband **David Vandeginste**, JD '97, of Parkville, Mo., announce the birth of Maximilian "Max" David on Feb. 26, 2004.

Patrick Brueggeman, BS Acc '96, and wife **Melissa Capes Brueggeman**, BS Acc '96, of Chesterfield, Mo., announce the birth of Ben on Aug. 25.

Rosalinda Doty, DVM '96, and husband Jason of Fort Riley, Kan., announce the

birth of Alexandria on Oct. 26, 2003.

Raymond Gee, MA '96, of Detroit wrote *A Jeweler's Case*, published by PublishAmerica.

Matthew Joseph, BA '96, of Brookfield, Ill., is finance chair of the Brookfield Playground and Recreation Board.

Jacqueline Hamra Mesa, JD '96, and husband Carlos of Bethesda, Md., announce the birth of Andrew Carlos on Aug. 26.

Greg Reser, MD '96, and wife Heather of Scottsdale, Ariz., announce the birth of Emma Noelle on Dec. 4.

Brian Cisel, BSN '97, and wife **Kimberly Helms Cisel**, BS Ed '00, M Ed '01, of St. Charles, Mo., announce the birth of Rylan Claire on Dec. 17, 2003.

Thurston Cromwell, BJ, BA '97, JD '01, and wife **Tanya White Cromwell**, BJ '98, JD '01, of Fairway, Kan., announce the birth of Isaac Kennamer on Dec. 27, 2003.

Danielle Walker Douglas, BJ '97, and husband Jackson of LaVergne, Tenn., announce the birth of Kathryn Elizabeth Saige on April 14, 2004. Danielle is senior publicist for Nelson Bibles and Nelson Reference and Electronic.

Tim Fredrick, BA '97, of Long Island City, N.Y., was named a MetLife Fellow with the Teachers Network Leadership Institute. Fredrick is a ninth-grade English teacher at Thurgood Marshall Academy.

Michelle Herrera Mulligan, BA, BJ '97, of Brooklyn, N.Y., co-edited *Border-Line Personalities: A New Generation of Latinas Dish on Sex, Sass, and Cultural Shifting*, published by Rayo.

Bob Nack, DVM '97, and wife **Michelle Nack**, DVM '97, of St. Louis announce the birth of Benjamin Michael on July 14.

Valerie Batchelder Stange, JD '97, and husband Chris of Nixa, Mo., announce the birth of daughter Wren Darnell on June 21.

Bradley White, DVM '97, and wife **Christine Mathews White**, DVM '97, of Mathiston, Miss., announce the birth of Nicholas Hayden on Sept. 26.

CLASS NOTES

BOTH SIDES OF THE LENS

FOR HUSBAND AND WIFE STEFAN Zaklin and Stephanie Kuykendal, the family trade involves danger. As photographers in Iraq, including time spent embedded on the front line in Fallujah, they were used to wearing bulletproof vests and helmets. They were used to not going out alone on the streets, where they'd be targets for insurgents. They were used to taking photographs in which the only things that changed in the caption were the place, date and death toll.

That didn't prepare them for the day Kuykendal, BJ '01, became a part of the story. Embedded with a marine unit, she was sitting in the back of a light armored vehicle on Nov. 4 as it approached a narrow point in the road near Fallujah. The vehicle ahead of hers cleared the point with no problem. Hers tripped an explosive. The blast under her seat sent the vehicle off track, with shrapnel flying everywhere. Kuykendal was knocked around and knocked out. Two marines also were wounded.

A Fox News crew working at the medical center at Camp Fallujah called the press center to say Kuykendal had come in for treatment. Zaklin, an MU master's candidate who will graduate in May, was there to hear the news. He rushed to the medical center, where a guard almost stopped him but quickly got out of the way upon hearing his wife was there.

As a war photographer, Zaklin had seen some grisly scenes, but it was especially unsettling to see his wife — soaked in diesel fuel and spattered with blood on her face — sitting in a dentist's chair as doctors worked to put her teeth back in the right place. He held her hand and let her know he was there.

While being treated, Kuykendal still clutched her cameras, which she didn't know were broken. In fact, she made a

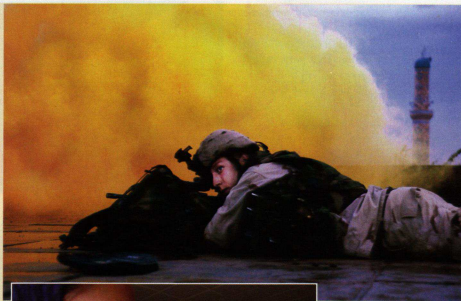


PHOTO BY STEFAN ZAKLIN

Sgt. Randy Laird, above, waits for yellow smoke to spread and cover his retreat in Fallujah on Nov. 9, 2004, in this combat photo by Stefan Zaklin. In Iraq, Zaklin's wife and fellow photographer, Stephanie Kuykendal, focused on issues specific to women, including Dalia Hassan, left, a police cadet at the Baghdad Police Academy.



PHOTO BY STEPHANIE KUYKENDAL

shutter-clicking motion with her hand, indicating she wanted him to take pictures of her. He resisted; she insisted. He ran to get a camera. He started to shoot in what he calls "photographing-horror mode," when what you are photographing is so horrible all you can do is focus on the technical details.

Kuykendal would be fine, remarkably. She would feel lucky that it hadn't been much worse and that her husband had been right there. But still, the photographer's instinct would drive both of them forward. Zaklin would continue to

shoot in Fallujah. Despite feeling lucky, Kuykendal couldn't help feeling let down. She wrote in an e-mail to friends, "The battle hasn't even started and I'm out of the game."

Back in the United States for now, the two are uncertain what the next assignment will bring, but they're unlikely to be deterred from doing the job. It's a part of the competitive nature of the business, Zaklin says: "It's amazing. People are clamoring to put themselves in the most dangerous position possible."

—Chris Blöse

•**Scott Brokaw**, BA '98, and wife
•**Julie Dyer Brokaw**, BHS '98, of
Raymore, Mo., announce the birth of

Andrew Philip on Nov. 17.
•**Toby Stock**, BS BA '98, of Chicago is
director of MBA counseling for Brody

Admissions, which was featured in "A
Hired Gun For MBA Applicants" in the
Nov. 29 issue of *BusinessWeek*.

BOVINE BEAUTY

JUSTIN MCCURRY IS THE MAN BEHIND beauty champions that wow judges with their temperament and appearance. He helps them with their diets. He stands at the ready with hair products. But his champions don't compete in ordinary beauty pageants. Where McCurry works, you can call a contestant a real cow without inciting a beauty queen brawl.

McCurry, BA '03, works some weekends as a cattle fitter. He gets cattle ready for competitions and then helps present them. With five generations of farming behind this Mount Hope, Kan., native, he came to the business naturally, starting as a freshman in high school. "I was forced into it, more or less," McCurry says. "Now I love it."

Part of that affinity might come from what the cow-fitting business did for McCurry: It put him through college. While at MU, McCurry tried to schedule his classes for Monday through Thursday, thereby freeing him on weekends to travel to the nationwide cattle competitions that helped fund his education.

Now that he's a graduate with a "real job" as a graphic designer in Wichita, Kan., he doesn't work as a fitter nearly as often. He will work for clients who helped put him through school, though, and for family. In fact, McCurry handled a special client at the North American Livestock Exposition in Louisville, Ky., this past fall: a family-owned national champion heifer.

The job usually takes a full weekend, starting with preparing the animals for competition. In addition to dodging painful kicks from ornery animals, McCurry makes sure the cattle eat the right food to look their best. He uses hair clippers, special paint and adhesives — though less than in the past, as rules have changed — to get the fur looking right and to make the animals appear as sturdy as possible. For example, some



PHOTO BY CRESH DETREK

glue holding up fur on the legs can make them look stouter, a detail the judges look for.

Trade secrets and money aside, the biggest reason McCurry still comes out of retirement for the occasional job is his competitive nature. The other cattle fitters he sees at competitions are the same; they form a competitive yet friendly subculture that keeps him

With sharp hair clippers, special adhesives and paint, Justin McCurry gets his cattle clients looking their best for cattle competitions. A graphic designer by day, McCurry occasionally works as a cattle fitter on weekends.

coming back for more.

"I try to get it out of my system," McCurry says, "but I can't."

—Chris Blose

CLASS NOTES

CORPS VALUES

TWENTY-FIVE-YEAR-OLD ANDREA Meyer was the first Peace Corps volunteer to visit the tiny Honduran village of Mercedes, high in the mountains of Ceraque.

"When I got there, I was a little intimidated," says Meyer, BSF '03. "They thought I was going to save the world: 'The *gringa* is here to save everything!' But change is slow."

Peace Corps volunteers serve their 27-month assignments in a variety of ways — everything from teaching computer skills to promoting AIDS awareness to nurturing small businesses — but Meyer is the kind of volunteer most people imagine. She lives alone in a remote, rural corner of the world and works to help people raise their quality of life.

With her supervisor more than nine hours away by bus, Meyer is largely independent, listening to the people of her community and choosing projects to meet their needs.

"They teach you a lot of stuff in training," she says, "but until you get to where you're going, you don't know what you need to know."

When Meyer learned, for example, that many villagers were relying on expensive, potentially harmful products bought in a nearby town, she ran a soap-making workshop for a local women's group and taught a class on natural



fertilizer for a group of men.

Meyer arrived in Mercedes in October 2003, but fitting into the foreign culture is still difficult sometimes. Traditional gender divisions make friendships with men tricky, and most women her age already have husbands and young children — a situation to which she can't relate. Meyer says it's easiest to befriend an entire family. She has come to love the intergenerational socializing so common in traditional Honduran society.

Meyer works extensively with local women's groups, and one of her ongoing projects is to bring safer, more efficient wood-burning stoves to their homes.

Andrea Meyer, first row, second from right, is a Peace Corps volunteer in a small mountain village in Honduras. Here she stands behind a model stove at a workshop teaching how to construct a safer, more efficient wood-burning stove.

The chimneyless stoves most villagers use can cause respiratory ailments, particularly among women who spend the day in their smoky kitchens. The new stoves, which require only half as much firewood as the old ones, will feature chimneys and ovens.

"It's something so basic, but it will be a big improvement," Meyer says. She might not be able to save the world, but she's found a good place to start.

— Mary Beth Constant

• **Leslie Jett**, BS, BS '99, M Ed '01, of Columbia participated in the U.S. Navy's Adopt-a-Ship program, which sends professional chefs to provide culinary training for Navy culinary specialists and food service attendants in support of the Navy's quality-of-life objectives.

• **Mark Keersemaeker**, JD '99, of St. Louis formed The Keersemaeker Law Firm with a focus on civil litigation, including personal injury, workers' compensation and employment discrimination.

• **Jennifer Smith Kingston**, JD '99, and husband John of St. Louis announce the birth of Amelia "Ellie" Jeanne on April 12.

• **Daniel Nelson**, BJ '99, of Kansas City, Mo., is an assistant U.S. attorney with the U.S. Attorney's Office.

• **Nicholas Ranson**, MD '99, of Spokane, Wash., is in private ophthalmology practice.

• **Chris Rayburn**, BS '99, and wife

• **Karmen Coulter Rayburn**, BS Acc, M Acc '00, of St. Charles, Mo., announce

the birth of Annabelle Marie on Nov. 9.

THE 2000S

• **Christy Young Mein**, JD '00, and husband Philip of Shawnee, Kan., announce the birth of Seth Jacob on June 23.

• **Jason Salinardi**, BS Acc, M Acc '00, JD '03, of Chesterfield, Mo., is an attorney with Danna McKittrick, where he focuses on the areas of business transactional law, taxation and estate planning.

• **Lt. j.g. Michael Brown**, BS BA '01, of

CLASS NOTES

Forstell, Mo., graduated from the Surface Warfare Officer School's damage control assistant course.

Nathan Plumb, BS, BS '01, of St. Louis is an associate with Stinson Morrison Hecker LLP in the business litigation practice.

Seaman Gary Kopf Jr., BS FW '03, of Kansas City, Mo., completed U.S. Navy basic training at Recruit Training Command in Great Lakes, Ill.

Sara Linsin, BS HES '03, of Fenton, Mo., is a project associate with Gray Design Group.

Ryan McClure, BJ '03, of St. Louis is an assistant account executive in the public affairs practice at Fleishman-Hillard.

Michelle Mirzoian, BA '02, of Troy, Mich., works in the strategic communications department of the Detroit Pistons and oversees the organization's overall communication strategy and relationship with the metro Detroit community. She is a founding member of the Motor City

Tigers, the MU Alumni Association's metro Detroit chapter.

Dan Chilton, BA '03, and wife **Nicole Voss Chilton**, BJ '03, of Springfield, Mo., own Moxie Cinema, an art-house theater.

Andrew Branstetter, BS '04, of Rolla, Mo., is assistant project director of the Missouri Enterprise Business Assistance Center.

Ryan Vacca, JD '04, of St. Louis is an associate with Stinson Morrison Hecker LLP in the business litigation practice and intellectual property practice areas.

FRIEND OF THE UNIVERSITY

Phyllis Moore of Columbia was named Outstanding Advisor by the Missouri Academic Advising Association. Moore is an academic adviser with MU's College of Business.

FACULTY DEATHS

Donald Duncan, professor emeritus of

forestry, Sept. 16 at age 88 in Arden Hills, Minn. Memorials may be sent to the University of Missouri-Columbia Donald P. Duncan Scholarship Fund, College of Agriculture, Food and Natural Resources Office of Advancement, 2-4 Agriculture Building, Columbia, MO 65211.

William "B.W." Harrison, BS Ag '36, professor emeritus of extension education, Sept. 13 at age 94 in Cape Girardeau, Mo.

Steven Lamphear, associate professor emeritus of parks, recreation and tourism, Sept. 5 at age 68 in St. Augustine, Fla.

Margaret Mangel, dean emeritus of home economics and professor emerita of human nutrition and foods, Sept. 16 at age 92 in Columbia.

Glenn Pierce, former professor of Italian studies, Oct. 5 at age 64 in Milan, Italy. Memorials may be sent to the Department of Romance Languages and Literatures, 143 Arts and Science Building, Columbia, MO 65211.

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CLASS NOTES

C.V. Ross, BS Ag '38, MA '48, professor emeritus of animal science, Sept. 30 at age 90 in Columbia.

Warren Thompson, PhD '66, professor emeritus of health service management, Sept. 7 at age 77 in Columbia.

Lester Wolcott, former professor of physical medicine and rehabilitation, Sept. 21 at age 81 in Lubbock, Texas.

DEATHS

Mary Davidson Faurot, BS Ed '26, of Columbia at age 98. A member of Kappa Kappa Gamma, she co-founded the Missouri Senior Golf Association and was active in MU events. Memorials may be sent to the Don and Mary Faurot Golf Scholarship, 302 Reynolds Alumni Center, c/o Gail Martin, University of Missouri-Columbia, Columbia, MO 65211. See story on Page 15.

Marion Duncan, Ag '27, of Kahoka, Mo., Feb. 21 at age 92. He retired as an

MFA Insurance agent.

Ida Spaht Friedman, BS Ed '30, of Fort Smith, Ark., Sept. 18 at age 94. A member of Delta Delta Delta, she was a firm manager.

Leona Malloy Allman, BS HE '32, of Dallas April 23 at age 92. She retired as a consumer consultant for the U.S. Food and Drug Administration.

Pocahontas "Pokie" Thompson Barnett, BS Ed '33, of Columbia Sept. 29 at age 93. A member of Pi Beta Phi, she was a member of the board of directors for the People's Bank of Cuba, Mo.

Charles "Scotty" Guletz, BJ '35, of Jackson, Calif., July 11 at age 94. He owned a writing, publishing and import business in Hawaii and was a realtor in Jackson.

Lee Starr, BS Ed '35, of Peoria, Ariz., Dec. 11, 2003, at age 94. He retired as director of the New York City Parks Department, and he founded and competed with the Sun City, Ariz., Master's Swim

Team until age 91.

The Rev. Clarendon Hyde, BA '37, of Columbia Sept. 7 at age 89. He retired from MU Libraries after 28 years of service.

Carey Weaver Judah, BA '37, of Columbia July 11 at age 88. She was a costume curator for the Missouri Historical Society.

Mary Ruth Choplin Doll, BS Ed '38, of Jefferson City, Mo., Nov. 12 at age 92. She was a homemaker and community volunteer.

Shirley Drew Hardwicke, BS Ed '38, of Columbia July 23 at age 88. She retired as director of equestrian science at Stephens College after more than 33 years of service.

Wilbur "Bill" Daniels, JD '39, of Columbia Sept. 9 at age 91. He practiced law for 60 years.

Jeannette de Wyl Kassebaum, BA '39, of Jefferson City, Mo., June 26 at age 86. A member of Kappa Alpha Theta, she was active in many educational and historical



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—William Butler Yeats

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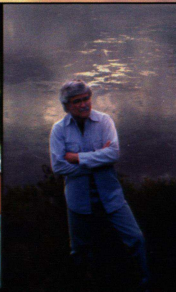
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Development Office, 104 Ellis Library, Columbia, MO 65201-5149.*



Melissa Heapes
MU Student
Journalism Major
Junior



William Trogdon
(William Least Heat-Moon)
Author
Ellis Library Benefactor
1961 Arts & Science (BA)
1962 (MA), 1973 (PhD)
1978 Journalism (BJ)



Diane Glancy
Author
1964 Arts & Science (BA)
Professor of English
at Macalester College in
St. Paul, Minnesota



Bill Stauffer
Retired Executive of
Northwestern Bell and
Blue Cross/Blue Shield of Iowa
Co-Chair of the For All We Call
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community groups and served eight years on the Jefferson City Public School Board.

Reba Staggs, MA '39, of Springfield, Mo., Oct. 16 at age 92. She was director of the Department of Home Economics with the National Livestock and Meat Board for 39 years.

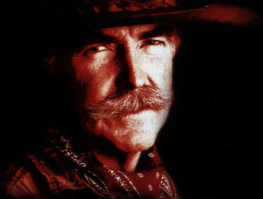
Ellen Stine Fulkerson, BS Ed '40, of Sonoma, Calif., Aug. 24 at age 86. She was an active community member and retired from teaching hearing-impaired children in Iowa.

Helen Trippe Ball, BS HE '41, of Traverse City, Mich., July 11 at age 84. She was a homemaker and taught nutrition in Missouri.

Marifrances Schell Matkin, BS Ed '41, of Kansas City, Mo., Nov. 20 at age 86. A member of Delta Delta, she was a homemaker.

Jean Dearing Cronan, BS HE '42, of Vandalia, Mo., Dec. 7, 2003, at age 83.

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CLASS NOTES

She and her husband owned and operated an IGA Foodliner.

Robert Seelen, BS ChE '42, of Sedalia, Mo., July 4 at age 84. He retired as vice president and general manager of Pepsi-Cola Bottling Co. of Sedalia.

John Wall, BS Med '46, of Boone, Iowa, Dec. 20, 2003, at age 79. He retired as a family practice doctor

after 39 years of service.

James "Bill" Adams, BS BA '47, of Murfreesboro, Tenn., April 24, 2004, at age 81. He was a history teacher.

Kenneth Backues, BS Ag '47, of Columbia Nov. 20 at age 85. He retired from Shelter Insurance. Memorials may be sent to Eldercare Center, 137 Clark Hall, Columbia, MO 65211.

Neilan Hart, BS Ag '48, of Columbia Dec. 11, 2003, at age 81. He operated Farmway Service Cooperative and was interim director of the Columbia Country Club.

Albert Flischel, BS BA '49, of Columbia Oct. 25 at age 83. He retired as assistant director of the physical plant department at MU after 31 years of service.

Charlotte Johnson, BA '49, of Independence, Mo., March 20, 2004, at age 76. She was a school psychologist for the Columbia Public School District.

Robert Ramsey, BA '49, BS Med, MA '52, of St. Louis June 24 at age 77. He practiced internal medicine and rheumatology for 40 years.

Dan Bryson, BS PA '50, of Oklahoma City Dec. 10 at age 79. He was pastor at First Baptist Church congregations in Kentucky.

Holman "Mac" McLoad, BS Ag '50, of Columbia March 9, 2004, at age 79. He retired from management at MU's Printing Services.

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CLASS NOTES

C.B. Price III, BS Ag '50, of Harrisonville, Mo., Oct. 13 at age 79. He was the Cass County, Mo., health inspector and was administrator of the Adrian Manor Nursing Home in Adrian, Mo.

Paul Minor, BS Ag '51, of Columbia July 9 at age 78. He retired as a soil scientist with the U.S. Department of Agriculture after 34 years of service.

Zada Walden Tate, BS BA '51, of Vista, Calif., Dec. 30 at age 74. She was a clerical claims supervisor for Kemper National Insurance in Overland Park, Kan.

John Bullock, BS Ag '53, MS '57, of Kansas City, Mo., Jan. 14, 2004, at age 73. He retired as an agronomist from Farmland Industries and worked as a landscaper at Worlds of Fun.

Ron Pfost, BS Ag '55, of Lee's Summit, Mo., May 12 at age 71. A member of FarmHouse, he was chairman of the board of Franklin Realty Company Corp.

Carl Winegardner, BS Ag '55, of Auburn, Neb., June 27 at age 72. He worked in dairy manufacturing and owned Winegardner's Hardware.

Emma Turner, M Ed '57, of Columbia

Dec. 2 at age 89. A member of Delta Sigma Theta, she retired from teaching after 38 years of service.

Mary Williamson Schuster, BS '60, of Scottsdale, Ariz., Nov. 20 at age 65. She was a chemical analyst for Motorola Inc.

Ann Crowe Essig, BSN '71, of Stafford, Va., Aug. 25 at age 56. She was a registered nurse and business manager of her husband's oncology practice.

Kenneth Maassen, BJ '75, of Plattsmouth, Neb., Oct. 27 at age 51. He was a military intelligence analyst at Offutt Air Force Base for the U.S. Department of Defense, where he worked for 27 years.

Carol Again Hunter, BJ '80, of Columbia Nov. 12 at age 45. She was an associate editor of MIZZOU magazine and an active community member.

Vernon Krueger, BS Ag '74, M Ed '77, of Mount Union, Iowa, June 27, 2003, at age 49. He taught economics and science at Mt. Pleasant, Iowa, Senior High School and was a basketball and volleyball referee for the Southeast Iowa Athletic Association.

Patricia K. Ives of Columbia, a member of the MU Alumni Association, Jan. 5 at age 62. She was special assistant to the vice chancellor for development at MU,

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CLASS NOTES

where she worked for 34 years. Memorials may be sent to the Patricia K. Ives Development Staff Recognition Endowment, 306 Reynolds Alumni Center, Columbia, MO 65211, or the Patricia K. Ives Library Endowment, MU Libraries, 104 Ellis Library, Columbia, MO 65201-5149.
Albert Onofrio, of Tempe, Ariz., a member

of the MU Alumni Association, Nov. 5 at age 83. He was football coach at MU from 1971-77 and was inducted into the Missouri Intercollegiate Athletics Hall of Fame.

WEDDINGS

• **Linda Russell**, BS Ed '72, M Ed '87, and Joe Whitworth of Columbia June 11.

• **Kevin Ross**, BJ '87, and Janet Ogletree of Sherman Oaks, Calif., Sept. 18.
Lisa Jackson, BS '92, MD '96, and John Simmons of Coralville, Iowa, July 31.
 • **Kara Lierheimer**, BS '95, BSN '04, and Xavier Cabezas of Flintstone, Ga., Aug. 21.

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Bill Giddings, BS Ed '67, MA '68, and his wife, Linda, BS Ed '69, M Ed '89, have enjoyed living in Columbia for nearly 36 years.

Coming Next Issue

- Surgeon Hugh Stephenson led the fight to establish MU's four-year medical program in 1952 and became one of the school's first professors. To his thousands of former students, he'll always be Mr. Mizzou Medicine.
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- Anthony Luscri, BS Che '95, and Nancy Jabbour of San Francisco Oct. 30.
- Faran Fagen, BJ '97, and Kara Jacobs of Tamarac, Fla., Dec. 11.
- Holly Burns, BS HES '98, and David Weaver of Hallsville, Mo., May 15.
- Andrea "Rea" McLelland, BS Ed '99, and Hans Dochtermann of Savannah, Ga., Oct. 23.
- Kristen Bowman, BS Acc, M Acc '00, and Jade Hoekman of Columbia July 26.
- Jena Epperson, BS '00, and Robert Sowers, Ag '00, of Lee's Summit, Mo., Sept. 17.
- Tiffany Norman, BJ '00, and Jeff Ontiveros of Pflugerville, Texas, Nov. 27.
- Sarah Smith, BA '00, MPA '04, and Chris Seris, BA '00, of Columbia July 10.
- Emily Wilson, BS HES '00, and Collin Little, BS '01, of Springfield, Mo., April 10, 2004.
- Mary Ann Clark, BS '01, and Greg Rotery, Ag '99, of Columbia Oct. 9.
- Mary Federhofer, BS '01, and Timothy Byrne, BS BA '99, of Chicago Sept. 25.
- Melissa Lane, BS HES '01, and Joe

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- Valenciano, BA '95, of Overland Park, Kan., June 26.
- Justin Willett, BJ '01, and Melissa Engle of Fayetteville, N.C., Oct. 2.
- Jennifer Fessler, BS '03, and Matthew McClure, BS '01, of Columbia Aug. 7.
- Lisa Weidemann, BA, BS BA '02, and Keith Grote, BS '01, of Edwardsville, Ill., April 24, 2004.

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- Margaret Fuenmeler, BA '03, and Darren Day, BS '03, of Columbia June 12.
- Jennifer Roseberry, BSN '03, and Matthew Bronson, BS '03, of Columbia May 15.
- Julie Kirkman, BHS, MPT '04, and Ben Anderson, BS BA, BS BA '01, of Lee's Summit, Mo., June 5.
- Lindsay Schrimpf, BA '04, and Kurt Probst, BS HES '02, of Columbia Sept. 18.

SEMPER MIZZOU



UNIVERSITY ARCHIVES PHOTO C:1/J41/8 BOX 2FF 96

This circa 1901 photograph shows a summer course on plants in one of Missouri's greenhouses. In the inset photo, students collecting seeds in one of the sixth-floor greenhouses at the new Life Sciences Center are, from left, Beth Placek, Dawn Stocker, Sarah Violand, Njabulo Ngwenyama, Timothy Durret and Charlie Cooper.



PHOTO BY STEVE MORSE

THE THEN AND NOW OF GREENHOUSES

AT THE TIME OF THE CIRCA 1901 PHOTO ABOVE, in which students examine maize seedlings, a greenhouse was little more than a glass building, says Ed Coe, an internationally renowned U.S. Department of Agriculture employee and MU professor of agronomy. Coe, who retired from the USDA in January after 50 years on the job in Columbia, counts pioneering work on mapping the maize genome among his career achievements.

"Those old greenhouses weren't very sophisticated," Coe says. "In fact, it's only recently that they contained more than a bench with pots or a bed on the ground." People labored to water plants, arrange shade cloth on too-sunny days and flip light switches at appointed times. Infestations of pests could and too often did ravage one experiment and then move on to destroy others.

Now, Coe says, greenhouses such as those on the sixth floor of MU's new Life Sciences Center, inset photo, are not only far more secure against red spiders, sucking insects and other pests, but they are also sophisticated in other ways. "In modern greenhouses, we can very readily control temperature, humidity, light, light intensity and light quality," he says.

"We can even specify how much ultraviolet light the plants receive. We have the ability to shade the plants automatically rather than have someone come in and pull the shade cloth over them." Still, students and researchers do plenty of hand work, such as collecting seeds from *Arabidopsis thaliana*, a plant in the mustard family, as in the photo above.

Of course, the research itself has changed quite a bit. For instance, students a century ago had no textbooks that described DNA. Their professors were still working out the effects of various lighting and nutrient regimens on plants. But students these days can peruse the entire genome of *Arabidopsis thaliana*.



Ed Coe

PHOTO BY DORIS PULASKA

One more difference: money. In 2004 alone, MU secured \$15 million from the National Science Foundation for plant genomics studies, the most of any university nationwide. But in the straw-hat days of 1901, federal funding for the Missouri Agricultural Experiment Station, which conducted most ag research at MU, was just \$15,000. — Dale Smith




Charles R. and Shirley Bowden Brown have each spent more than 30 years serving public education. Charles, BS Ed '67, is assistant commissioner of teacher quality and urban education for the Missouri Department of Elementary and Secondary Education. Shirley, BS Ed '65, a retired administrator for the St. Louis Public Schools, is an educational consultant.

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