

MIZZOU

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Alexander Cartwright is Mizzou's new chancellor. | 18

Homecoming To-do List

Tailgate, see parade, beat Idaho | 46

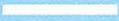
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Research reactor tackles topics from cancer to archaeology. | 34

Championship Generator

Sparks fly when three-time NCAA champion Karissa Schweizer takes to the track. Will the third-generation collegiate runner become Mizzou's next Olympian? | 30





FIRST LOOK

FOR MUCH OF SUMMER 2017, workers tended to the Columns behind a massive scrim that must've been the envy of thespians at Rhysburger Theatre. Lit from the back, as in this photo, the summer scene on Francis Quadrangle was a grand shadow play as preservationists performed a face-lift, replacing 80-year-old grout, securing certain segments of the hallowed stone and replacing others altogether. Prism-shaped monitors, one set atop each Column and scarcely visible from the ground, now relay the slightest twinge of movement to caretakers in Campus Facilities. The Columns aren't going anywhere, rest assured. But Mizzou is on the move. While the Columns were hidden, UM System President Mun Choi unveiled a bold new budget (Page 6). And as if to make campus ready for company, the scrim came down just before the arrival of MU's new chancellor, Alexander Cartwright (Page 18).



A MIZZOU GIFT ANNUITY

FOR A MIZZOU COUPLE

Tom Schultz, BJ '56, and Nancy Schultz, BS HE '69, have devoted years of their careers, volunteer time and energy to Mizzou.

Now they are building upon their MU legacy through a Mizzou Charitable Gift Annuity that gives back income during their lifetimes and provides a charitable deduction.

You can give the gift that gives back during your lifetime.

Learn how you can receive guaranteed lifetime income, a great income tax deduction and estate tax advantages. Call 1-800-970-9977 for a free illustration that will show you how a Mizzou Charitable Gift Annuity can benefit you; or email giftplanning@missouri.edu.

Sample Rate Chart: \$10,000 Single Life Gift Annuity

Donor's Age	60	65	70	75	80	85	90
Annuity Rate	4.4%	4.7%	5.1%	5.8%	6.8%	7.8%	9.0%
Annual Payout	\$440	\$470	\$510	\$580	\$680	\$780	\$900
Deduction	\$2,909	\$3,490	\$4,099	\$4,577	\$5,020	\$5,660	\$6,295
Tax-free Income	\$294	\$327	\$371	\$437	\$530	\$638	\$756

*Deductions will vary slightly with changes in the IRS discount rate. Assumed rate is 2.4%. PLEASE NOTE: These examples are for illustration purposes only and are not intended as legal or tax advice. Consult your own legal and tax advisors prior to making any material decisions based on this data.



FROM THE PUBLISHER



Hope Springs Eternal

In the rhythm of a university, fall is always a fresh start, a clean slate. And sure enough, thousands of new students began their Mizzou experience with a tradition — Tiger Walk through our beloved Columns (See inside front cover for news of MU's best-known landmark). Beyond living out that fine tradition, Mizzou is dealing with a whole lot of "new" this fall.

Leadership is a key theme. University of Missouri System President Mun Choi (See Page 6) started March 1 and has been hard at work making the four-campus system run as efficiently as possible for the benefit of Missourians. On campus, we are excited to welcome Chancellor Alexander Cartwright (Page 18), who started work Aug. 1 and is thrilled to return to the Midwest. In the academic units, we have new deans for the School of Law and the College of Agriculture, Food and Natural Resources, as well as a new director for the Truman School of Public Affairs. These leaders take the reins at a critical time for Mizzou and higher education nationwide.

In July, alumni may have noticed MU's swift and decisive response to a *New York Times* article about campus enrollment. We felt compelled to share it with all alumni via email. The response was clear that Mizzou is moving forward, which squares with the question alumni ask me most, "What can I do to help Mizzou?"

I often encourage alumni to do three things — send us great students, advocate for Mizzou and visit campus. It's easy to get caught up in what various media are saying about us. But I've found that alumni who spend time on campus develop their own, more accurate sense of who we are as an institution. Each fall, alumni look forward to the football season and all that comes with it — Homecoming (Page 46), the fellowship of tailgate parties (Page 48) or perhaps Saturdays in downtown Columbia. Whatever it is that calls to you about Mizzou, I invite you back to discover for yourself what all the new is about. I think you'll like what you see. — *Todd McCubbin, M Ed '95*

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Statements of Purpose

The Mizzou Alumni Association proudly supports the best interests and traditions of Missouri's flagship university and its alumni worldwide. Lifelong relationships are the foundation of our support.

These relationships are enhanced through advocacy, communication and volunteerism.

MIZZOU magazine reports credible and engaging news about the University of Missouri community to a global audience.

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Rhythm of the Roar: Homecoming, sponsored by the Mizzou Alumni Association, is Columbia's biggest and arguably best celebration every year. Although the parade and football game take place Oct. 21, a week of activities precedes those events. Events include a talent show, blood drive and spirit rally. See Page 46 for more on the parade and other Homecoming happenings.

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About the cover

Karissa Schweizer of Urbandale, Iowa, was born into a family of runners and running coaches. Already an All-American and three-time NCAA champ, she enters her senior year as a collegiate powerhouse with sights set on the international stage (Page 30). Schweizer is pictured in front of a gas-powered generator at the MU Power Plant, which won the International District Energy Association's System of the Year Award for 2017. Photo by Nicholas Benner

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Preservationists labored over the Columns during most of summer 2017.

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Tigers interpret the buzzing of bees, say thanks for scholarships, advise investors and look good in print. They win teaching awards, engage the state and analyze human fossils.



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As a physician, Tommy Macdonnell, BS Med '49, delivered more than 4,500 babies in Marshfield, Missouri. As a legislator, his work made Missouri smoke-free.



Flip this corner to see Karissa Schweizer race to the finish line!

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† Can civility reach the top of political discourse? Leaders at MU's Kinder Institute on Constitutional Democracy show the way.

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Finding the Fit

For Mizzou's new chancellor, Alexander Cartwright, the quest to develop human potential is a personal one.

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"We The People ..."

At the Kinder Institute on Constitutional Democracy, students and faculty across disciplines and viewpoints put the "thought" in American political thought and history.

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Brooks Scholarship Turns 30

The George C. Brooks Scholarship has helped remake Mizzou's student body and transform the lives of more than a thousand students.

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Championship Generator

All-American distance runner Karissa Schweizer is burning up NCAA cross-country courses and igniting the Mizzou track and field program.

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Rather than producing power, the Missouri Research Reactor creates knowledge to catch uranium smugglers, save cancer patients' lives, fend off crop-killing pests and reveal ancient Rome's mysteries.

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This season, Mizzou celebrates the 10th anniversary of the 2007 squad that reinvigorated a fan base and returned Tiger football to center stage.

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Homecoming 2017

See a stylish tailgate party, find a schedule of events and meet the trio of students who lead planning for Homecoming 2017.

MARK SMITH



BECOMING STRONGER BY BEING STRATEGIC

Despite reductions in state support and enrollment declines, Mizzou makes investments to strengthen its teaching, research and engagement programs.

† What's the bird's-eye view of the future of Missouri higher education? A renewed focus on MU's core missions of teaching, research and outreach.

The year 2017 will rank as one of the most challenging fiscal periods in Mizzou's 178-year history. To grow the programs of academic excellence, UM System President Mun Choi and Mizzou leaders went beyond the targets required to merely balance the budget. "We focused on prioritizing and being strategic in the solutions that we pursued," Choi says. "By reallocating resources, we invested in key areas, including translational precision medicine, interdisciplinary plant sciences and media of the future."

Each unit submitted a budget-reduction plan. Academic programs were evaluated on research

funding, number of graduates per faculty member, or the number of journal citations faculty received. Choi made the final decision. At MU, total cuts were \$59.8 million, with \$22.9 million of that reinvested in key programs. More than 340 positions, including 42 high-level leaders, were cut through layoffs and eliminating vacant jobs. The biggest contributors came from:

- Reserves and other one-time cost savings, accounting for \$24 million,
- Administrative streamlining, which eliminated 184 positions and saved \$15.4 million, and
- Academic program restructuring, which cut



150 positions and saved \$12 million.

High-profile rescissions included eliminating the International Institute of Nano and Molecular Medicine, and winding down the agricultural journalism program. “It was difficult to implement these cuts, but they were necessary given the magnitude of the challenges that confronted us,” Choi says.

Navigating today’s challenges requires keeping an eye on the future, the new president says. “We will come through this as a stronger, leaner university that focuses on the core values of a public land-grant university: breakthrough research and creative works, and quality education at an affordable price for our students.”

The \$22.9 million in reinvestment will increase teaching and learning resources not only to improve graduation rates and reduce the average time it takes to earn a degree but also to hire faculty in areas of strength for teaching and research.

A Mizzou that is strong in research is good for the state, Choi says. “Our focus on research that has an impact locally, regionally and internationally is key. The work we’re doing now can be elevated to a higher degree if our researchers have access to greater resources. In animal science that means better support for Missouri’s dairy farmers; in medicine it means the ability to create new treatments through translational precision medicine.”

Stepping into the budget situation midstream is Chancellor Alexander Cartwright [See profile on Page 18], who started work Aug. 1. Despite Mizzou’s challenges in enrolling new students since the 2015 protests (retention remains near all-time highs), Cartwright sees plenty of reason for optimism. “Talk to any alumnus and you feel that Mizzou is a special place,” Cartwright says. “They have a connection to the institution that you don’t see many places. They want the institution to be successful.”

Cartwright knows how to implement big changes. In 2016, as provost for the State University of New York system, he introduced a comprehensive policy designed to boost recruitment and retention of students and faculty while maximizing diversity, inclusion and equity. The sweeping changes included installing a chief diversity officer at each campus, broadening the candidate pools for new hires and implementing cultural competency training.

An engineer by training, Cartwright approaches leadership with a problem-solution mindset. Although he never sought leadership per se, since childhood he has stepped up to meet needs. “My mom used to say to us, ‘Don’t complain about something unless you’re willing to do something



↑ Since starting work March 1, University of Missouri System President Mun Choi has led budget planning that deals with shortfalls and plans for growth.

‘We will come through this as a stronger, leaner university that focuses on the core values of a public land-grant university: breakthrough research and creative works, and quality education at an affordable price for our students.’

— **UM System President Mun Choi**

about it,’” he says.

Cartwright enjoys creating innovations and removing obstacles to help people succeed. To that end, he will listen to faculty, students and the public about where Mizzou’s strengths lie and what they want the institution to be.

“Mizzou is intended to be integral to the state, to all the things Missouri is trying to do,” he says. “We need to figure out ways we can use all that we have here to help Missouri continue to move forward.” — *Erik Potter*



I'd Like to Thank the SEC

James Birchler's teaching style is, shall we say, dramatic. For instance, he's been known to dress in monk's robes and enter his classroom to the sound of a Gregorian chant while playing the character of pioneering geneticist Gregor Mendel. But teacherly theatrics are just part of the reason that, in 2017, the Southeastern Conference gave Birchler, Curators Distinguished Professor of Biological Sciences, its Professor of the Year Award. The honor goes annually to a faculty member with a distinguished record of teaching, research and scholarship.

Birchler, a world-renowned geneticist who studies the structure and function of cells, has spent years researching and developing cutting-edge technology. He created a technique that allows scientists to break down and engineer small parts of chromosomes, and he developed a widely-used technology that visualizes features of genes and chromosomes. He also cofounded the "gene balance hypothesis," which predicts how genes interact to determine genetic traits.

Since joining MU's faculty (1991), Birchler has been named a fellow of the American Association for the Advancement of Science (2002), a National Academy of Sciences member (2011), a fellow of

the National Academy of Inventors for developing the first engineered synthetic plant chromosome and a method for visualizing chromosomes in plants (2014), and a fellow of the American Society of Plant Biologists (2017).

Of the SEC award, Birchler says: "University professors devote their lives to creating and educating for the benefit of the state, nation and world, so I am humbled to be singled out among them."

EXTRA-EXCEPTIONAL GRADUATE

While sporting a résumé already bursting with scholarly publications, MU graduate student Alice Cheng won one of the highly selective 2016 Chinese Government Awards for Outstanding Self-financed Students Abroad. The award recognizes 501 top Chinese doctoral students studying internationally without government funding. Of that group, Cheng, MBA, PhD '17, was one of 10 selected as "extra-outstanding." She specializes in corporate PR disasters and what corporations say and do in their wake. That's crisis communications: What were the reactions of the company, its customers, news media and social media? How do these players affect one another's thinking? How can companies mitigate damage? And how does one measure these complicated relationships in a useful way?



Attitude of Gratitude

College-bound high schoolers always appreciate scholarship money. But the connection is special when the generosity extends from Tigers who came before them. That's the case with the Mizzou Alumni Association's Mizzou Alumni Scholars Program, which in 2016-17 awarded more than \$500,000 in scholarships.

"All four of my grandparents attended Mizzou, some of my aunts and uncles, cousins, and my mother," says Maridan Chaney, a scholarship recipient from Springfield, Missouri. "My one wish is to repay [scholarship donors] in some form throughout my lifetime."

Sarah Fisher, a scholarship recipient from Lake Ozark, Missouri, agrees. "When I toured the campus, I loved the environment and the people I met, and I wanted to call this place home for the next four years," she says. "Without scholarships, I would not be able to attend college at all."



DATA

Fueling Innovation in 2016

Mizzou is a hotbed of research and innovation. In fiscal year 2016, MU spent \$248 million on research, 80 percent of which was federally funded. Some of that work served the public directly when researchers transformed it into new products, businesses and jobs. This commitment to economic development is one of Mizzou's four pillars, along with teaching, research and service. Here are the fruits of that commitment in 2016.

104

INVENTION DISCLOSURES FILED

When MU researchers discover or invent something that could be patented, they file a new-invention disclosure form.

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U.S. PATENT APPLICATIONS FILED

Mizzou reviews the invention disclosures and files patent applications for the most promising ideas.

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U.S. PATENTS ISSUED TO MIZZOU

Not all patent applications are approved, and successful ones endure a rigorous process lasting an average of more than two years. Mizzou ranked in the top 12 percent of universities nationwide for utility patents approved in 2016.

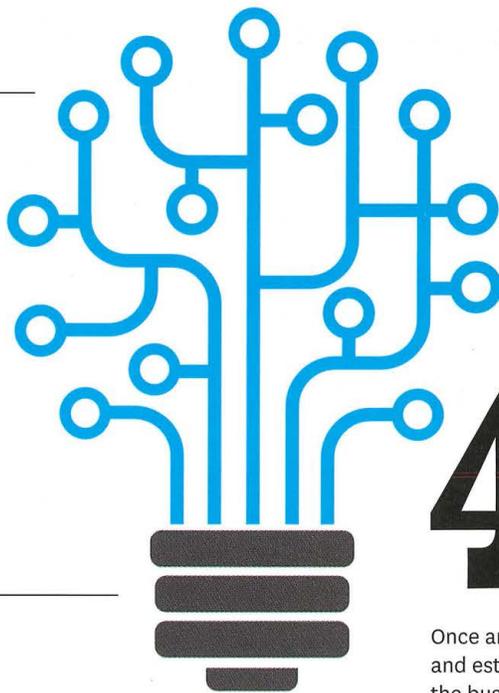
New patent granted: Jimi Cook, DVM '94, PhD '98, director of the Orthopaedic Research Division at MU, developed a tissue-preservation system that allows human tissue destined for transplant to be preserved at room temperature, and it triples the time it is viable for use.



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MIZZOU'S NATIONAL RANKING FOR TURNING BASIC RESEARCH INTO NEW TECHNOLOGIES

The ranking, issued by the Milken Institute, puts MU in the top 20 percent in the country.



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TECHNOLOGIES LICENSED

Once an idea receives a patent, it is marketed to startups and established businesses. When an agreement is reached, the business pays the university an annual licensing fee to use the patented product or process. Mizzou has 162 active licensing agreements.

3

NEW STARTUP COMPANIES

Sometimes, MU researchers would rather create their own businesses to take their innovations to market.

Columbia startup MedSocket grew out of the work of Karl Kochendorfer, former director of clinical informatics in the Department of Family and Community Medicine. MedSocket improves health care decision-making by allowing doctors to quickly locate specialized medical information at the point of care.



\$15 million

LICENSING REVENUE EARNED

The annual licensing fee that companies pay is distributed to the MU inventors and the university. The five-year average is \$9.3 million.

Marilyn Rantz, an MU nursing professor, and Marjorie Skubic, an engineering professor, developed a suite of monitoring technologies for seniors. Wireless sensors monitor changes in heart and respiratory rate, bed restlessness and walking gait, which can be early signs of illness and functional decline. They licensed the technology to Foresite Healthcare in St. Louis.





Serving Missouri

Soon after Marshall Stewart came to Mizzou as vice chancellor for extension and engagement, he visited northwest Missouri residents in Hamilton and posed a question: “How many of you can tell me what MU Extension did for you today?” Every hand shot up.

Then he asked how many could say what the University of Missouri had done for them today. No one moved.

That response captured what Stewart learned during his first year on the job: Missourians love Mizzou, but few know how faculty and programs across campus benefit their communities. “We’re kind of like the Caped Crusader — we’re doing a lot of good, but nobody knows it’s us,” Stewart says.

To make the university’s work more visible and accessible, Stewart’s team has been compiling an inventory of Mizzou’s engagement efforts. When the project launches, internal and external stakeholders will be able to search the database online by project type, such as youth or agriculture, and by geography, such as municipality or county.

Stewart believes that organizing the information will make it easier to link programs and collaborate. For example, across Missouri, MU Extension runs 4-H programs, the College of Education is at work in every school district, and the College of Arts and Science helps strengthen instruction in science education. “All of those end results go to young people, but those efforts have not been aligned, coordinated or communicated to maximize the impact of Mizzou,” Stewart says.

Other efforts are underway to make Mizzou’s expertise more visible by developing a knowledge center. For instance, county health directors planning programs to fight the opioid epidemic could consult the database to learn whether Mizzou already has such a project and who the local partners are.

It’s all part of the land-grant mission, Stewart says: “We are here to serve Missourians.” — *Erik Potter*

MAKING MO DOCTORS

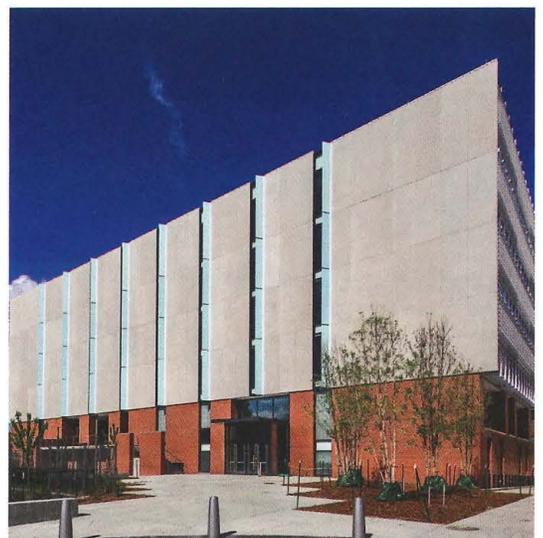
The MU School of Medicine celebrated the official opening of its \$42.5 million, 98,888-square-foot, Patient-Centered Care Learning Center July 28. The medical-education facility “marks the fulfillment of a vision shared by MU, CoxHealth and Mercy Springfield that began eight years ago when the three organizations started working together to train patient-centered care physicians to work in Missouri and beyond,” says UM System President Mun Choi.

The partnership has allowed the school to expand class sizes from 96 to 128 students. In addition to educating hundreds of additional physicians for Missouri, the expansion will add more than \$390 million annually to the state’s economy and create 3,500 new jobs.

More than 90 percent of Missouri’s counties lack adequate access to health-care professionals. At the same time, Missouri ranks among the top 20 states with residents older than 65, who require more medical care. The number of elderly people with multiple chronic diseases likely will double by 2030.

“This new learning environment will explicitly focus the students’ attention on the people they are preparing to serve,” says Weldon Webb, BA ’69, MA ’72, associate dean for the Springfield Clinical Campus implementation at MU.

When it comes to medical research, Choi’s near-term priorities include a \$250 million MU Research and Education Strategic Redevelopment/Translational Precision Medicine Complex. The complex will increase high-level laboratory facilities for interdisciplinary collaboration that foster leading-edge discoveries in precision medicine. This emerging field — which approaches disease treatment and prevention through individual variability in genes, environment and lifestyle — promises medical outcomes barely imaginable today.



STEWART: MU EXTENSION; LEARNING CENTER: JUSTIN KELLEY



Briefly

• The **Fiske Guide to Colleges** lists Mizzou as a “Best Buy” for 2018, referring to the university as a “school on the rise.” The guide’s designation considers MU’s cost, academic programs, college life and graduation rate — 69 percent over six years.

• MU’s School of Law, Harry S Truman School of Public Affairs, and College of Agriculture, Food and Natural Resources welcome new leaders. Law Dean **Lyrissa Barnett Lidsky** comes to MU from the University of Florida. **Lael Keiser**, professor of public policy and administration at MU, will direct the Truman school and coordinate a strategic plan to create opportunities for research, education and outreach in public affairs. Agriculture Dean **Christopher R. Daubert**, who hails from North Carolina State University, will serve as vice chancellor and dean of agriculture.

In 2017, **Gov. Eric Greitens** appointed three Missourians to the University of Missouri System Board of Curators, which governs campuses in Columbia, Kansas City, Rolla and St. Louis. Curators serve 6-year terms: **Darryl M. Chatman**, BS ’97, MS ’01, MS ’07, JD ’08, of O’Fallon is general counsel for the Missouri Department of Agriculture. **Jamie L. Farmer**, BS BA ’07, of Jefferson City is president of Capital Sand Proppants. **Jeffrey L. Layman** of Springfield is Principal of BKD Wealth Advisors.

Engineering Student Success

When freshman Conner Schmid decided to go to Mizzou and major in engineering, his father had some advice for him. Conner’s dad, Tom Schmid, earned a bachelor’s in mechanical engineering from Mizzou in 1997. He credits his academic success to the group-study habit he developed as a freshman and then honed informally as a sophomore helping freshmen in his residence hall.

In 1995, Tom’s junior year, he jumped at the chance to formalize that role when MU’s Department of Residential Life launched a learning community called Freshman Interest Groups (FIGs). The program puts “peer advisers” and 15 to 20 students with similar interests near each other in a residence hall. The students take classes together and a seminar given by the peer adviser and a fac-

†Ah, dorm life in the '90s. Tom Schmid, BS ME '97, was a peer adviser in the Freshman Interest Group (FIG) program the year it launched. His son Conner Schmid, a freshman, is joining a FIG this fall.

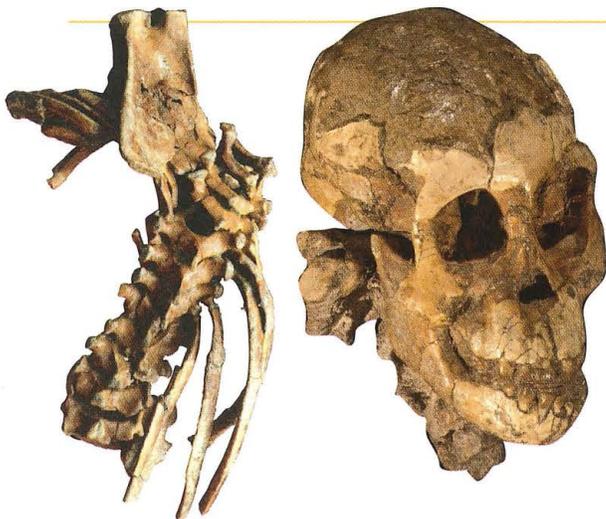
ulty member or staff instructor.

The program, which has been shown to improve students’ GPA, has grown from 225 students in 21 FIGs to as many as 2,000 students in 115 FIGs. U.S. News & World Report regularly lists this model among the best learning communities in the country. Not surprisingly, Tom’s advice to Conner was that he check it out.

And sure enough, this fall, Conner Schmid is continuing another MU family legacy. He joined an engineering FIG.

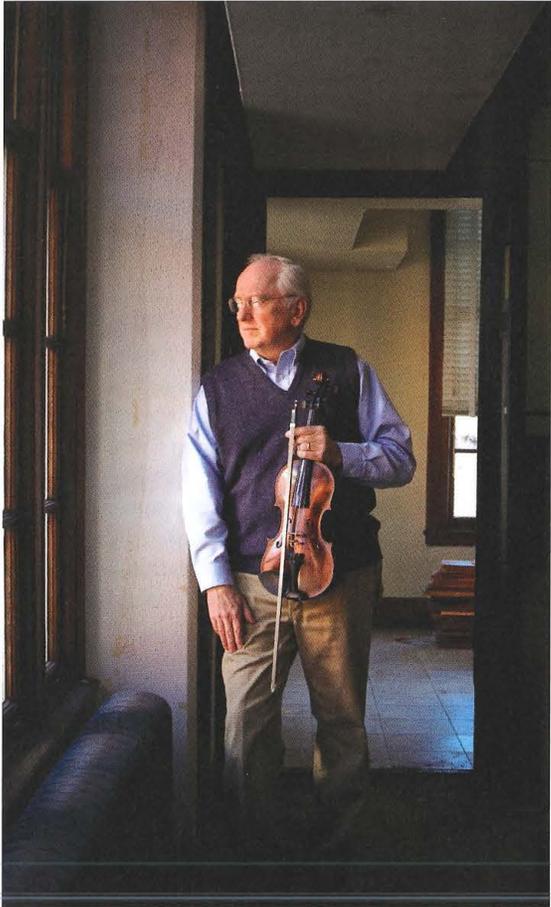
EARLIEST HUMAN-LIKE SPINE

About 3.3 million years ago, a toddler now known as Selam walked — upright on two legs — in what is today Ethiopia. Carol Ward, professor of pathology and anatomical sciences at MU, helped analyze this remarkably well-preserved fossil of a human ancestor. Scans of Selam’s spine showed the characteristic rib-to-lower back joint transition found in other ancient human relatives. However, this fossil is the first to show that our earliest ancestors had just twelve thoracic vertebrae and twelve pairs of ribs, which is fewer than in most apes, she says. “Selam has provided us the first glimpse into how our early ancestors’ spines were organized.”



SCHMID: COURTESY TOM SCHMID; FOSSILS: ZERAY ALEMSEGED, UNIVERSITY OF CHICAGO

Keeping the Dream Alive



↑ Author and Professor Emeritus Howard Marshall is one in a long line of fiddlers associated with Mizzou.

In 1830, nine years before the University of Missouri was founded, folklorist Howard Marshall's ancestors settled in mid-Missouri. Ever since, at least one fiddler has come along in every generation. Marshall, BA '70, is one such musician. The professor emeritus of art history and archaeology not only performs hundreds of tunes by heart, he recently published a second volume of musical history, *Fiddler's Dream: Old-Time, Swing and Bluegrass Fiddling in Twentieth-Century Missouri* (University of Missouri Press, 2017).

As the title implies, traditional fiddling isn't static but rather evolves as fiddlers pick up ideas from other styles. Even Mizzou played its part in the cross pollination, Marshall says. "Fiddlers around Columbia had a unique opportunity to hang out with faculty from the music school, as well as jazz and swing musicians." Since the 1920s, those influences have manifested themselves in the playing of local old-time fiddlers, including some great ones who labored with their hands on campus.

"Mizzou had probably the most famous custodian of the 1940s and '50s, Cleo Persinger," Marshall says. In 1964, he became Missouri's first national champion fiddler. "Cleo was a handsome man and a magnetic character." He was the sort of person who attended concerts of classical violinists such as Albert Spalding and met them to pay his respects. "A lot of people remembered Cleo as a custodian," Marshall says, "and never knew he played the fiddle."

KEMPER WINNER

Billie Cunningham is one of five recipients of a 2017 William T. Kemper Fellowship for Teaching Excellence. The School of Accountancy teaching professor is one of the first faculty members students encounter, and her course in principles of accounting lays the foundation upon which students build their careers. For more than 20 years, Cunningham has taught classes of approximately 400 students. She was among the first teachers to use clickers, an audience response system, to motivate student learning, maintain their interest and identify areas where they don't fully understand a topic. She also maintains a high level of energy in the classroom by using educational videos, in-class demonstrations of business practices and real-world examples. "The Kemper," established by the William T. Kemper Foundation in 1991 with a \$500,000 gift to honor outstanding teachers, comes with a \$10,000 award.



READ ALL ABOUT IT!

Mizzou researchers headline major media outlets

THE STAR, KansasCity.com

Ten lives for cats? Mizzou maps feline genomes, identifies source of illnesses

HOUSTON CHRONICLE

Bad CEO behavior can cost shareholders: A scandal will immediately shave 1.6 percent off of stock value

UPI

Study: Increased food benefits for poor could reduce ER visits

Daily Mail

Experts spot big rise in older adults choosing 'living apart together' and keeping their own homes

YAHOO! BEAUTY

This promising new technique may be a safer, less painful way to remove birthmarks and tattoos

USNews & WORLD REPORT

Young adults with autism need help managing money

More: missouri.edu



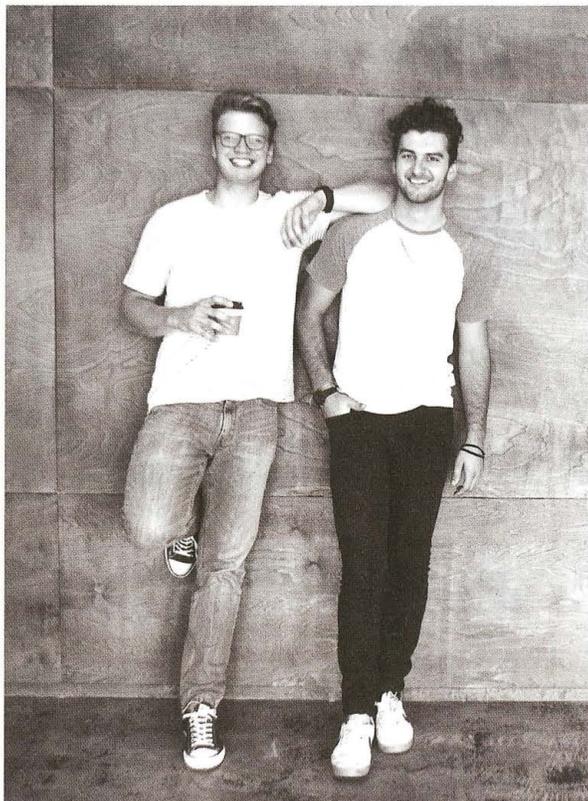
The Buzz?

Worldwide, bee shortages threaten the pollination of more than 85 percent of flowering plants and 75 percent of agricultural crops. In response, MU researchers developed an inexpensive acoustic listening system using small microphones in the field to monitor bees in flight. Using data from the microphones, they identified and quantified the number of bee buzzes in each location of a research plot. Then they compared that data to the team's visual surveys of the same plots. In almost every instance, the acoustic surveys were better at picking up buzzing bees. "Eavesdropping on the acoustic signatures of bee flights tells the story of bee activity and pollination services," says Candace Galen, professor of biological sciences. "Farmers may be able to use these methods to monitor pollination of their orchards and vegetable crops and head off pollination deficits. Also, 'citizen scientists' could get involved, monitoring bees in their backyards." The team is developing a smartphone app that can record buzzing and document bees in photographs.



↑ Measuring bees' buzzing could help farmers ensure crops are properly pollinated.

ENTREPRENEURIAL SERVICE



Typically, adults take the lead helping students learn entrepreneurship skills. But in 2016, then-freshmen Blaine Thomas and Drew Rogers had ideas of their own when they heard about rent-free retail space in the MU Student Center. They soon co-founded The Bridge through the Missouri Student Unions Entrepreneurial Program. Their idea: establish a one-stop shop for student and alumni creatives who make things — T-shirts, hats, jewelry, stickers, books, greeting cards, etc. In its first year, The Bridge provided shelf space on consignment for a portion of the sale price (30 percent). In just three months, it posted \$23,000 in sales and established Thomas and Rogers as leaders on the student entrepreneurial scene. Their larger mission — to empower the creatives — has led to a second phase, dubbed Relevant Youth. Scheduled to start in Fall 2017, they will offer the creatives free advice, including marketing, finances and business strategy.

↑ Blaine Thomas, left, and Drew Rogers founded The Bridge, a shop for student entrepreneurs, artists and artisans, in the MU Student Center as part of the Missouri Student Unions Entrepreneurial Program.

The New Diversification

When investing for retirement, the old rule of thumb was that younger people with lower incomes should invest in post-tax programs, such as Roth IRAs, while older people with higher incomes did best with tax-deferred programs such as 401(k) and IRAs. New research by Michael O'Doherty of MU's Trulaske College of Business suggests most people should do both. "For retirement contributions, a good rule of thumb is to invest 20 percent plus your age into traditional, tax-deferred accounts. So, a single 40-year-old investor with at least \$40,000 of taxable income would put 60 percent of their retirement contributions in a traditional IRA or 401(k)-type plan."



A Passion for Plates

As if Merryck Tann-Dickerson didn't have enough to do during her last semester before graduating, she started a catering business. She calls it College Kitchen (CK), but it just as easily could have been dubbed Food, Friends and Family.

Launch day, March 21, was nerve-wracking: Success would require the help of every diner she served that evening. Until then, Dickerson, BA '17, had cooked many Sunday dinners for family and, later, for close friends at Mizzou. Those evenings were always warm and cordial — a sort of emotional comfort food. But everything had to be perfect for this invitation-only event.

Dickerson had transformed her apartment into a restaurant, renting tables and chairs, and setting out wine bottles as flower vases. She even hired a videographer. The guest list was strictly exclusive. She had invited athletes she met in South Hall (where she lived as a freshman), members of Greek Life, and prominent student makeup artists and hairstylists.

Once Dickerson's guests were seated and the food was ready, she shared the news: "I'm starting a business, and I want you all to post about it on social media!" Dickerson had CK-branded social media accounts ready to go. If these well-connected students liked her food, they could send out the news to thousands of followers instantly.

It worked. The orders started coming. Soon, Dickerson enlisted the help of former MU student Taylor Garner as sous chef, and communications major Sierra Mckie as operations manager. As the semester progressed, the trio developed its own following and catered two to three events a month.

Dickerson, now a newly minted graduate, has returned to her native Los Angeles, where she is re-launching College Kitchen with a West-Coast flair.

— *Brittany King*

† Merryck Tann-Dickerson preps desserts and cocktails for one of College Kitchen's many catering gigs. Her dishes come from family recipes, Instagram posts and experiments.

CoMo's NEW CLASSICS

Been a while since you've made it back to Columbia? Our hometown was ranked No. 9 on *Business Insider's* most recent top-20 list of college towns. Here are some can't-miss stops if you're planning to visit your alma mater this fall.

1 The "New" Shakespeare's Pizza

On the outside, Columbia's signature college hangout looks different from the one-story, red-brick building of yesteryear, but step inside and it feels familiar. Reopened in September 2016, the iconic pizza parlor went to great lengths to bring back ceiling tiles, wood panels, retro metal signs and other details that preserve the old aura. Student housing occupies the five stories above the restaurant, and a yellow-brick road guides you toward arcade games, party space and restrooms in the back.



2 North Village Arts District

This lively neighborhood northeast of 10th and Walnut has something for everyone. Enter through Artlandish Gallery and discover the Catacombs, an unexpected subterranean arts and crafts bazaar. Fretboard Coffee offers specialty roasts and a variety of brewing techniques. Visit with artists onsite at Orr Street Studios and grab a cocktail concocted with craft spirits at Dogmaster Distillery.



3 Logboat

Co-founded by Mizzou alumnus Tyson Hunt, BS BA '02, Logboat Brewing Co.'s 4,500-square-foot warehouse, brewery and tasting room also features a lush lawn for concerts, picnics and games. The creative brewmasters release seasonal suds throughout the year, and favorites such as Snapper India pale ale and Mamoot English-mild style ale have become popular throughout the Show-Me State.



Reynolds Alumni Center

The handsome home of the Mizzou Alumni Association, among other MU departments, turned 25 in April. It remains your Homecoming headquarters for campus information, free refreshments, spirit rallies and giveaways. See Page 47 for a list of activities.





Leaps Inbounds

Two-time SEC volleyball Coach of the Year Wayne Kreklow leads a squad fresh off its second conference championship in four seasons. Maintaining that level of quality is the next challenge, Kreklow says.

For the Tigers to build on last season's NCAA Sweet 16 run, they'll rely on All-American outside hitter Melanie Crow (Wildwood, Missouri). The preseason All-SEC selection was SEC Offensive Player of the Week three times in 2016 and ranked in the top 30 nationally in aces per set, total aces and points per set.

"When Melanie arrived, things fell into place," Kreklow says of the redshirt senior who transferred from Ole Miss. "She gave us a dynamic that we hadn't had in terms of an elite-level attacker."

Missouri returns five seniors, including Kira Larson (Fargo, North Dakota) opposite Crow at the net. Senior setter Courtney Eckenrode (The Woodlands, Texas) and junior middle blocker

Alyssa Munlyn, another preseason All-SEC selection, bring energy to their respective positions.

Mizzou recruits come from far and wide. The roster features student-athletes from seven states including Missouri and a pair from Puerto Rico. "The SEC (TV) Network has been a blessing," Kreklow says. "Because of exposure around the country, we have been able to get in on some really high-level players."

Kreklow sees his squad in the SEC's upper echelon, alongside Florida, Kentucky and Texas A&M. To reach the next level — Elite Eight and beyond — the Tigers must continue to grind away.

"When you hit the (top) and you kind of plateau, sometimes it's a frustrating place to be because you're thinking, 'What do we have to do to take that next step?'" Kreklow says. "It always involves incremental improvement." — *Marcus Wilkins*

†Mizzou volleyball, winners of two SEC titles in four years, finished 2016 ranked No. 16 in the final poll.

Scoreboard

33 — Mizzou's ranking in the **Learfield Directors' Cup**, which measures the cumulative success of intercollegiate athletics programs. Top 10 finishes in wrestling, women's indoor track and field, and men's swimming and diving fueled the school-record mark.

27.63 — Mizzou swimmer **Hannah Stevens's** winning backstroke time, a championship meet record, at the NCAA Championships June 29 in Indianapolis.

\$50.4 million — Record fundraising total for Mizzou Athletics in 2016-17. This beats the previous record of \$45.7 million raised in 2011-12, Mizzou's first year in the Southeastern Conference.



26 — Former Tiger sports stars who participated in the Mizzou basketball alumni game, June 22, at Mizzou Arena. Hosted by **Laurence Bowers**, BA '12, M Ed '13, the fundraising event benefiting the Boys & Girls Clubs of Columbia included **Melvin Booker**, Bus '95; **Kareem Rush**, AFNR '02; **Rickey Paulding**, BA '04; and **DeMarre Carroll**, BGS '08.

Mizzou: Our

The Year in Giving

In 2017, Mizzou's moment is one of change and new beginnings. Sensing the possibilities, Mizzou alumni and friends continue to lead the way. The Mizzou family donated more than \$121 million in cash gifts during fiscal year 2017, a new record. Overall, including pledges, the university raised nearly \$152 million, the fourth-highest total in university history. The strong fundraising year brings the Mizzou: Our Time to Lead campaign total to \$905 million — more than two-thirds to the \$1.3 billion goal announced at the campaign's launch in October 2015.

Every donor and every dollar strengthen Mizzou. This year's highlights include the following:



1 With Honors

The Panda Charitable Foundation gave \$1.5 million to the **MU Honors College**. The foundation is led by Andrew and Peggy Cherng, University of Missouri alumni and founders of the Panda Restaurant Group, Inc. Their gift promotes the college's growth and development by providing students with opportunities to study abroad or to engage in summer programs on research or the arts.

"The education we received from Mizzou was instrumental in preparing us for the future," the Cherngs said in a statement. "We hope this gift will give the Honors College additional tools to recruit the best students in the state and nation, and to provide educational and career opportunities for MU's best and brightest students."

2 #Mizzou-GivingDay

The first-ever **Mizzou Giving Day**, March 15, was a smashing success. The Mizzou family exceeded expectations by making **3,591 gifts totaling \$8,295,842**. Schools, colleges and units engaged in friendly competition and received bonus prizes for finishing with the most dollars raised or gifts received. The College of Veterinary Medicine raised the most (\$2,042,039), and the Division of Student Affairs garnered the most donations (733).

3 Giving Thanks

To thank donors for the roles they play, the University of Missouri invited hundreds of its most devoted supporters to campus for **Donor Recognition Weekend** in April. Through a range of events, including the 47th Annual Jefferson Club Dinner and gatherings across campus, donors saw first-hand how their generosity makes a difference to students and faculty.



M I Z Z O U
OUR TIME TO
LEAD

Time to Lead

CAMPAIGN UPDATE

BY THE NUMBERS

Overall Campaign Progress



Campaign Progress
(In Millions)



Donor Type

Alumni	19,908
Friends	18,259
Corporations	1,966
Parents	1,056
Faculty/Staff	801
Students	668
Organizations	313
Foundations	130

Top Priorities

The Mizzou: Our Time to Lead campaign seeks to raise \$1.3 billion for the university. The question isn't whether the Mizzou family will meet the goal but how far we will run past it. To make the best use of this remarkable generosity, the campaign focuses on three priorities:

1 Endowment — Building our endowment to compete with other institutions will enhance our ability to attract and retain stellar students and faculty.
\$925M of \$1.2B goal

2 Signature Centers and Institutes — Interdisciplinary centers and institutes will be an engine of research growth by attracting additional funding and raising our profile in the Association of American Universities.
\$66.7M of \$100M goal

3 Campus Renaissance — New and renovated facilities will propel Mizzou to global leadership in education and research.
\$168M of \$250M

Taken as a whole, these priorities represent the path to securing Mizzou's standing as one of the nation's elite public universities. To learn more about the Mizzou: Our Time to Lead campaign and the role of philanthropy on campus, visit giving.missouri.edu.

Finding the Fit

For Mizzou's new chancellor, Alexander Cartwright, the quest to develop human potential is a personal one. Story by Erik Potter * Photo by Shane Epping

One evening in 1985, while working on a factory floor, a young Alexander Cartwright got what turned out to be a fateful call: The owner wanted to see him in his office.

Cartwright was working at HWH Corp. in the small town of Moscow, Iowa, making hydraulic jacks for recreational vehicles. With this job and earlier ones cleaning hog confinement buildings and working at a Stuckey's, he had put himself through his GED certificate and community college coursework. Now, the factory job was paying for tuition at the University of Iowa, where he was a business major. Because he was good at math, he had decided to become an accountant.

Wondering why he'd been summoned, Cartwright climbed the steps to the office of Paul Hanser, the company founder and president. It wasn't admonition that awaited him but rather advice. "I've heard you're doing really well in school," Cartwright remembers the older man telling him. "Why are you going into accounting when you're so good with your hands? Do you really think you can spend the rest of your life behind a desk?" Instead, Hanser suggested that he major in engineering.

Cartwright was an immigrant — he and his mother had moved to Iowa from the Bahamas just two years before — and a first-generation college student. Higher education's possibilities were mysterious to him. "I didn't know what engineering was," Cartwright says. "I didn't know what engineers did." Although Cartwright had quickly learned how to operate almost every machine in the factory after starting as a custodian, he'd never considered engineering as a career. "I thought about his advice for a long time and talked to people in engineering at the University of Iowa," he

says. "And he was right."

Cartwright switched his major and never looked back. Having built a distinguished career in academia as a researcher and administrator, he started Aug. 1 as the University of Missouri's 23rd chancellor. He is a fellow in the American Association for the Advancement of Science, the National Academy of Inventors, and SPIE, the international society for optics and photonics. Not too bad for someone who might never have chosen engineering without that call from Hanser.

The fact that Cartwright's life turned on one person's offer of guidance shapes his view of universities' human development and service missions. He feels that almost every major decision in his life was shaped by a few key individuals' advice at the right time. He likes the economics idea of "opportunity cost" — that the cost of something is not just what you paid for it but what else you could have done with the money. "We have an opportunity cost with people," Cartwright says. For lack of knowledge, some people might skip college or choose to study something they understand — accounting — while missing out on something they would love — engineering.

"Not everybody is privileged to be exposed to multiple careers at a young age and be able to say, 'This is what I like or don't like,'" Cartwright says. "We might have Einsteins out there who should go into physics, but they don't know what physics is." Universities must show students where they can be exceptional.

Cartwright sees Mizzou's role as helping students and the state become the best version of themselves. "If we can do that, we'll win back people who doubt what Mizzou is about." **M**

For more on Mizzou's next steps, see Page 6.

The background

Bachelor's degree: electrical and computer engineering, University of Iowa

Doctorate: electrical and computer engineering, University of Iowa

First faculty job: assistant professor of engineering at the University at Buffalo, State University of New York

Most recent job: chief academic officer for the 64-campus State University of New York system

Research: optical materials and sensors

Publications: 150

Patents: 4

Patent licenses to private companies: 3



+ MU's new chancellor, Alexander Cartwright, was born in the Bahamas and raised in the Midwest. His up-by-the-bootstraps life story includes earning a GED, attending community college and eventually winning patents as an engineering researcher. As a college administrator, Cartwright led academics at a 64-campus system in New York. When it comes to accessibility and affordability, he says, "I know firsthand how truly transformative public higher education can be, no matter your socioeconomic background."





“WWE

THE PEOPLE ...”

At the Kinder Institute on Constitutional Democracy, Mizzou students and faculty from various disciplines and viewpoints put the “thought” in “American political thought and history.” Story by Eric Ferguson ✪ Illustration by Mark Smith

 As he sits modeled in bronze on Francis Quadrangle, a thoughtful Thomas Jefferson appears to gaze placidly beyond today’s political polarization and incivility. But Jefferson would recognize our current climate all too well. His own time was rife with discord, and he cautioned his contemporaries against partisan bickering in his first inaugural address. “Every difference of opinion is not a difference of principle,” he said.

The sentiment, succinct enough for contemporary political discourse via Twitter, offers insight into the history of our political institutions and traditions. Launched in 2015 with an eye toward drawing connections between our political past and present, MU’s Kinder Institute on Constitutional Democracy provides a venue where Mizzou students and faculty across disciplines can build a more united future.

“History is a great teacher,” says Rich Kinder,

BA ’66, JD ’68, executive chairman of Kinder Morgan Inc. and the institute’s eponym. “It’s useful in understanding the issues that confront you in business or anything else in life to have some kind of understanding of how people in circumstances throughout history have handled problems. To me, that’s worth a lot more than the how-to-do-business books or self-help books.”

When Kinder, long a generous supporter of Mizzou, began thinking about making another gift to the university, he had a clear goal in mind. “We have to make certain that each generation understands the foundations of America. It’s not a matter of political persuasion — it’s just understanding what the Founding Fathers really did, how the Constitution was formed and how the government was formed. I don’t think you can be an intelligent voter, or a leader in a democracy, if you don’t have that kind of understanding.”



† Rich Kinder, BA '66, JD '68, and wife, Nancy, are, respectively, chair and president of the Kinder Foundation, which funded MU's Kinder Institute on Constitutional Democracy.

To help foster that insight in generations of MU students, the Kinder Foundation, founded by Rich and his wife, Nancy, gave \$25 million to Mizzou to create the institute. The unit encourages interdisciplinary study and discussion of American political thought and history. Guided by an advisory board that includes Alan Atterbury, BA '65, JD '69, and Sara Scholes Morgan, BA '66, the institute features undergraduate programs such as the Society of Fellows, a Washington, D.C., internship program; an academic minor and certificate program in American Constitutional Democracy; graduate and postdoctoral fellowships; study abroad opportunities; publication of the undergraduate *Journal on Constitutional Democracy*; and the Missouri Summer Teachers Academy for high school teachers across the state. Taken as a whole, the institute's scope ranges from the intellectual (What have been the ramifications of the U.S. single-member district electoral system?) to the practical (How does an undergraduate intern in Washington, D.C., get to Nationals Park from Capitol Hill without a car?).

As with any worthy endeavor, the institute's success starts with people, says Justin Dyer, professor of political science and the institute's director.

Kinder agrees. "It's not every day you get somebody to come from Oxford [Jay Sexton, chair in constitutional democracy] to the University of Missouri, but we did. Now we've got one coming from Yale [Alyssa Reichardt,

assistant professor] and one from the University of Virginia [Christa Dierksheide, assistant professor]. We're something unique, and that's part of the reason we're able to attract these people."

The institute welcomes faculty and students from across the political spectrum. Although polarization and partisanship characterize American politics, the institute cultivates exchanges of ideas that are far more civil than those found on Twitter or cable TV. "We have discussions," says Jeffrey L. Pasley, professor of history and journalism and associate director of the institute. "People *make* arguments, but we don't really *have* arguments. A lot of the students haven't seen that before."

Although many of the program's students study political science or history, the institute welcomes all disciplines. "It's not meant to just be future politicians," Pasley says.

Peyton Rosencrants, BJ '17, says the institute gave her more interaction with those across the proverbial aisle. "The faculty were always open and willing to have conversations, and a lot of times they came about just because people were loitering after an event," she says. "You got to be with a lot of people from a lot of different areas of campus. There was someone who interned for [U.S. Sen.] Roy Blunt and someone who interned for [former Missouri Rep.] Stephen Weber, JD '13, and [former Missouri Secretary of State] Jason Kander."

Spencer Tauchen, a junior triple major in philosophy, political science

"IT'S AN INTELLECTUALLY AND IDEOLOGICALLY DIVERSE GROUP OF PROFESSORS AND STUDENTS WHO SHAKE YOU OUT OF THE RUT OF TALKING TO THE SAME SORT OF PEOPLE ABOUT THE SAME SORT OF THINGS."

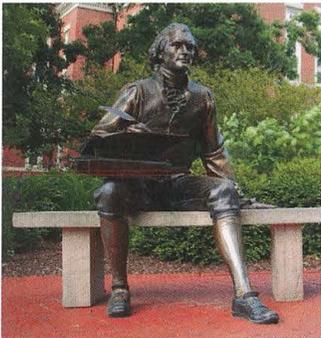


and sociology, appreciates how the institute challenges him to think harder. “It’s an intellectually and ideologically diverse group of professors and students who shake you out of the rut of talking to the same sort of people about the same sort of things.”

Decades after his time at MU, Kinder echoes these sentiments. “I still think a high percentage of the value you get out of the college experience is just going away from home and, in essence, being forced to live with other people and get along with other people.”

The institute’s core intellectual challenge — Dyer calls it learning how to “disagree well” — grapples at times with Jefferson’s legacy: How could the revered founding father who called slavery a “moral depravity” have owned hundreds of slaves in his lifetime? In October 2015, the Jefferson statue symbolized this debate, when students attached Post-It notes — both positive and negative — to the bronze figure. A recent institute colloquium with Jefferson scholars Annette Gordon-Reed and Peter Onuf, titled “Jefferson and His Legacies,” gathered people with opposing views to discuss the issue without resorting to personal animus. “We had Jefferson scholars sitting down next to [a graduate student] who put Post-Its on Jefferson’s statue,” Pasley says. “They didn’t agree. But they took a selfie at the end.”

Kinder likes to say he has made more mistakes by dreaming too small than by dreaming too big. Two years after its creation, the Kinder Institute on Constitutional Democracy continues to dream big about what it can be and how it can help educate future generations of citizens. “Getting the American student body to have a better grasp of what this country is based on will pay long-term dividends,” Kinder says, “not just for the University of Missouri or the state of Missouri but for the whole nation.” **M**



THE KINDER INSTITUTE’S FOUNDING FATHER

“My parents bought a World Book Encyclopedia set when I was about 6 years old,” Kinder says. “They say I sat down on the floor and went through the whole set. I don’t quite remember it that way.”

Regardless of how voraciously Kinder devoured that set of encyclopedias, the Cape Girardeau, Missouri, native has maintained a lifelong passion for history and biography. His interests led him to study at the University of Missouri, where he earned a bachelor’s degree in history and a juris doctor degree.

“The biggest thing that I learned at MU was how to think on my feet, how to analyze problems and hopefully solve them,” Kinder says.

After graduating from MU, Kinder served as a captain in the U.S. Army in Vietnam before embarking on a career in business. As executive chairman of Kinder Morgan Inc., he directs one of the country’s largest energy infrastructure companies, which he co-founded in 1997 with fellow Mizzou alumnus Bill Morgan, BA ’65, JD ’67. Kinder received the Morningstar CEO of the Year award; chairs the Kinder Foundation; serves as a life trustee and chairs the board of the Museum of Fine Arts in Houston; and serves as a member of numerous corporate and non-profit boards.

Despite Kinder’s many commitments, he doesn’t simply make time to attend the institute’s activities and follow its scholarship. He is passionate about the subject. “If you send him a book, he reads it and asks you questions about it,” Pasley says. “Not like he’s cross-examining you — he just wants to talk about it.”



SIGNATURE CENTERS AND INSTITUTES

The \$1.3 billion, Mizzou: Our Time to Lead campaign seeks to establish Mizzou as a destination university for the world’s best students and faculty. A top priority is to create more signature centers and institutes like the Kinder Institute. These will fuel interdisciplinary research, attract additional funding and raise MU’s profile in the Association of American Universities. Existing centers and institutes include the Donald W. Reynolds Journalism Institute and the Thompson Center for Autism and Neurodevelopmental Disorders.

More: giving.missouri.edu/campaign.

See Page 16 to learn about the campaign’s progress.

DORIS KEARNS GOODWIN GIVES KINDER INSTITUTE DISTINGUISHED LECTURE

“The university is a place where people can get together and explore ideas — and not just students and faculty but everybody in the community,” says Carli Conklin, associate professor of law. In keeping with that theme, the Kinder Institute on Constitutional Democracy’s Distinguished Lecture series will host world-renowned presidential historian Doris Kearns Goodwin.

7 p.m., Nov. 6, Jesse Auditorium

Free and open to the public

More: democracy.missouri.edu



Brooks Scholarship Turns 30

During the past 30 years, the George C. Brooks Scholarship has helped remake Mizzou's student body and transform the lives of more than 1,000 students. Story by Erik Potter * Photos by Rob Hill

† George C. Brooks directed MU's financial aid office from 1972 to 1988.

It took George C. Brooks six months of soul searching before he accepted the job as an assistant director of financial aid at MU. Brooks had grown up in Columbia during segregation, when African-Americans stayed clear of campus after dark for fear of being harassed. Thirty years later, in 1964, those memories still gave him pause. But Brooks, M Ed '58, took the plunge and ended up spending 25 years at Mizzou, including 17 years as director of financial aid. During that time, he started the university's work-study program and helped recruit the university's first black faculty member, Arvarh Strickland.

In 1987, the year before Brooks retired, the university named the George C. Brooks Scholarship in his honor. The university, recognizing the educational benefits of a varied student body, launched the scholarship to improve recruitment and retention of students from underrepresented racial and ethnic groups. In the intervening 30 years, Mizzou has welcomed more than one thousand Brooks

Scholars — about three dozen each fall. At first, the \$5,000 scholarship represented a full-ride: room, board, books, tuition — everything. Later the award increased to \$8,500, and it now sits at \$7,500, which covers about 70 percent of tuition and fees.

It's impossible to say exactly how much credit the scholarship deserves for creating greater diversity on campus. But it certainly contributed to a large change. The year before the scholarship began, Mizzou's African-American enrollment was 3.3 percent, and Hispanic enrollment was 0.7 percent. Since then, the percentage of African-Americans has more than doubled to 7 percent, and the percentage of Hispanics has more than quintupled to 3.6 percent. Despite those improvements, however, African-Americans and Hispanics are still underrepresented on campus.

To celebrate the 30th anniversary of the Brooks Scholarship, MIZZOU magazine caught up with a member of the founding class, LeAnn Stroupe, BS HES '91, MPA '98.



“I’m listening to this person offering me this scholarship, and I’m thinking, ‘Who’s pranking me? Is this for real? A scholarship?’ ”

You Want to Give Me a What?

LeAnn Stroupe was a senior in high school, trying to figure out where she should go to college — a place neither of her parents had ever been. Her folks made enough money to support their four children in a lower-middle class life but hadn’t saved for school. Her mother, who had a high school diploma, was a food service manager. Her dad, who had quit school after the seventh grade to support his 10 younger siblings, had one of the good-paying, blue-collar jobs still prevalent in the 1980s.

Her parents had moved the family out to suburban Kansas City, Missouri, where Stroupe attended a high school for high performers. “I assumed I was going to college,” she says. “My parents assumed they would figure a way to send me.”

Unsure how to conduct a college search, Stroupe narrowed her choices to schools within a two-hour drive of home. Kansas State was a top pick simply because purple was her favorite color. But tuition costs quickly narrowed her focus to in-state public colleges, which lifted Mizzou to the top of her list.

In fact, she had already chosen Mizzou when the home telephone rang one summer day in 1987. Her mom answered it. “LeAnn, somebody from Mizzou is on the phone,” she called out.

Stroupe doesn’t remember who was on the other end of the call; she just remembers waiting for the punch line. “I’m listening to this person offering me this scholarship, and I’m thinking, ‘Who’s pranking me? Is this for real? A scholarship? How much is the scholarship?’ ”

Stroupe hadn’t even applied for a scholarship — she didn’t know how or even that she ought to. But it was the first year for the Brooks, and no formal application process yet existed. Someone at Mizzou had simply found her university application and put her name in for consideration.

Stroupe was floored. Her mom hadn’t stuck around to hear the conversation; she was downstairs doing laundry. So, after Stroupe hung up, she called down to her, “They’re giving me a scholarship! It’s not going to cost us anything!”

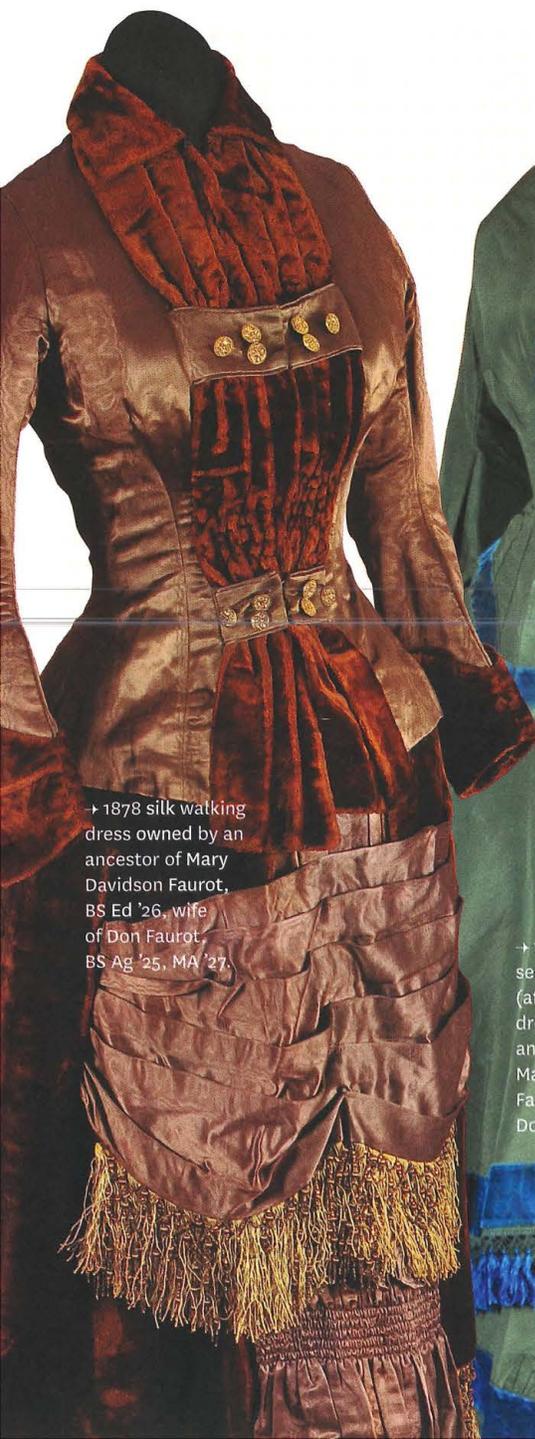
These days, Stroupe manages MU’s Office of Visitor Relations, overseeing a team of more than 100 student workers who give campus tours to prospective students. Looking back, she sees getting the Brooks Scholarship as a turning point.

“That changed the trajectory of my life,” she says. “It took away some of the stress and worry about my parents paying my tuition. It let me not work, join clubs and connect to Mizzou — something I’ve seen a lot of African-Americans not be able to experience. I felt blessed.” **M**

† Left: LeAnn Stroupe was in the inaugural group of Brooks Scholarship recipients. She is now the director of MU’s Office of Visitor Relations.

Right: Brooks, center, and former Chancellor Haskell Monroe, far right, honor Kansas City recipients of the Brooks Scholarship in 1988. Recipients, from left to right, include Kevin Roberts, BS BA ’92; LeSandra Pearl Morrison, BA ’92, JD ’95; Leslie Lapsley; Sharon Combs Leber, BS HES ’97; Richonia Freeman, BS Che ’93; and Leigh Williams, BA ’92.

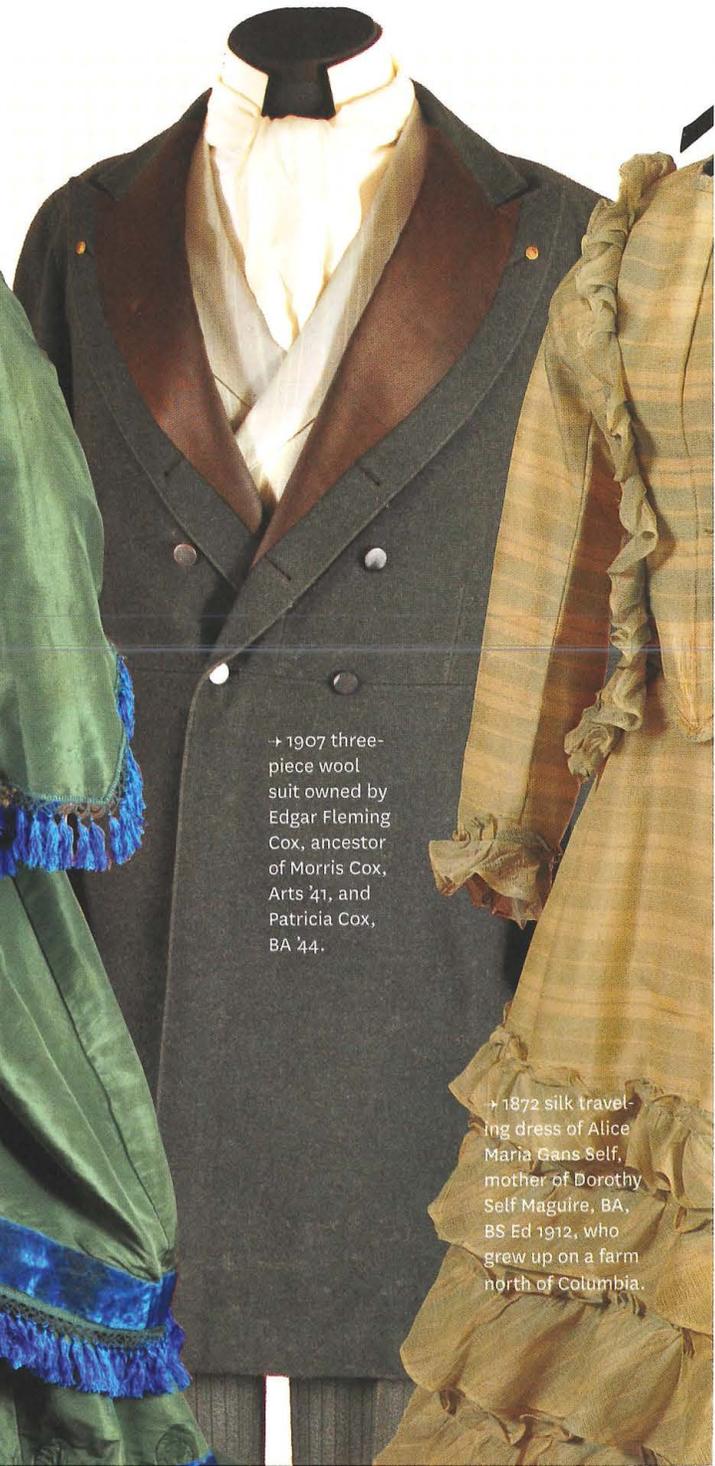
Time & Attire



→ 1878 silk walking dress owned by an ancestor of Mary Davidson Faurot, BS Ed '26, wife of Don Faurot, BS Ag '25, MA '27.



→ 1868 silk second-day (after wedding) dress owned by an ancestor of Mary Davidson Faurot, wife of Don Faurot.



→ 1907 three-piece wool suit owned by Edgar Fleming Cox, ancestor of Morris Cox, Arts '41, and Patricia Cox, BA '44.

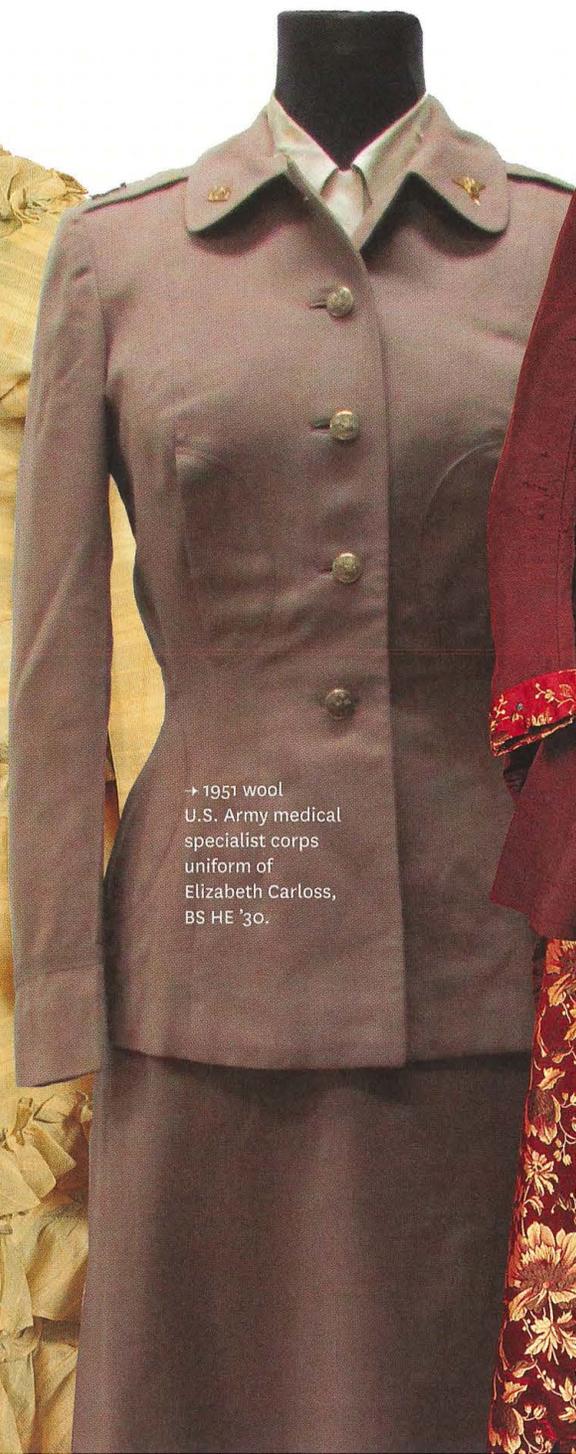
→ 1872 silk traveling dress of Alice Maria Gans Self, mother of Dorothy Self Maguire, BA, BS Ed 1912, who grew up on a farm north of Columbia.



Much more than a throwback to MU letter sweaters and freshman beanies, a campus collection of apparel, now 50 years old, weaves together academic disciplines.

Story by Dale Smith

MIZZOU * Fall 2017 * p. 27



→ 1951 wool
U.S. Army medical
specialist corps
uniform of
Elizabeth Carloss,
BS HE '30.

→ 1974 wool
dress from
Vogue pattern
handmade in
TAM course
by Linda Tim-
mons Bonnett,
BS HE '76.

→ 1884 silk day
dress owned
by ancestor
of Morris Cox,
Arts '41, and
Patricia Cox,
BA '44.

GALLERY

A

↓ The collection's oldest artifacts: 1828 silk dress with leg-of-mutton sleeves used a century later as a wedding dress in Columbia; and 1805 cotton work bonnet.

At first glance, an exhibit of the Missouri Historic Costume and Textile Collection might resemble a museum setup, one where guards ensure that patrons keep their distance from the art. But MU's collection, 50 years old in 2017 and numbering above 6,000 artifacts, is more library than museum, says Jean Parsons, collection curator and associate professor of textile and apparel management (TAM) in the College of Human Environmental Sciences. The collection's items not only serve as research subjects but also make their way into classrooms where students examine them up close. That access gives students a concrete sense of materials, manufacture and aesthetics, as well as providing them inspiration for new designs, says Nicole Johnston, collection manager and TAM instructor. The \$1.2 trillion global clothing

industry touches on numerous majors, she says, and students from across campus who take TAM courses learn from the collection. "Technology causes the most change in dress, not to mention influences such as trade, communication, politics, arts, aesthetics and chemistry. Students in all these fields find aspects of apparel they can relate to," says Johnston, BA '97, MS '10. But studying clothing is more than an intellectual exercise, Johnston adds. "When we see a garment for the first time, it's human nature to imagine wearing it, and that's an intimate connection." Clothing may be mute, she says, but it nonetheless tells a story about its owner and its time. Most of the pieces shown here have a connection to MU beyond their presence in the collection. For more, visit tam.missouri.edu/MHCTC. **M**



PHOTOS COURTESY THE SAVITAR AND MISSOURI HISTORIC COSTUME AND TEXTILE COLLECTION



↑ 1981 formal uniform of MU ROTC Director Richard Campbell Rice, shown with wife Donna.



↑ 1931 silk wedding gown of Peggy Rhynsburger, wife of MU theater professor Donovan, eponym of Rhynsburger Theatre.



→ 1906 letter sweater of football Tiger Carl Hoff, shown with the squad.



↑ 1920s Whiting and Davis metal mesh purse belonging to grandmother of Laveta Anderson, BS HES '55.



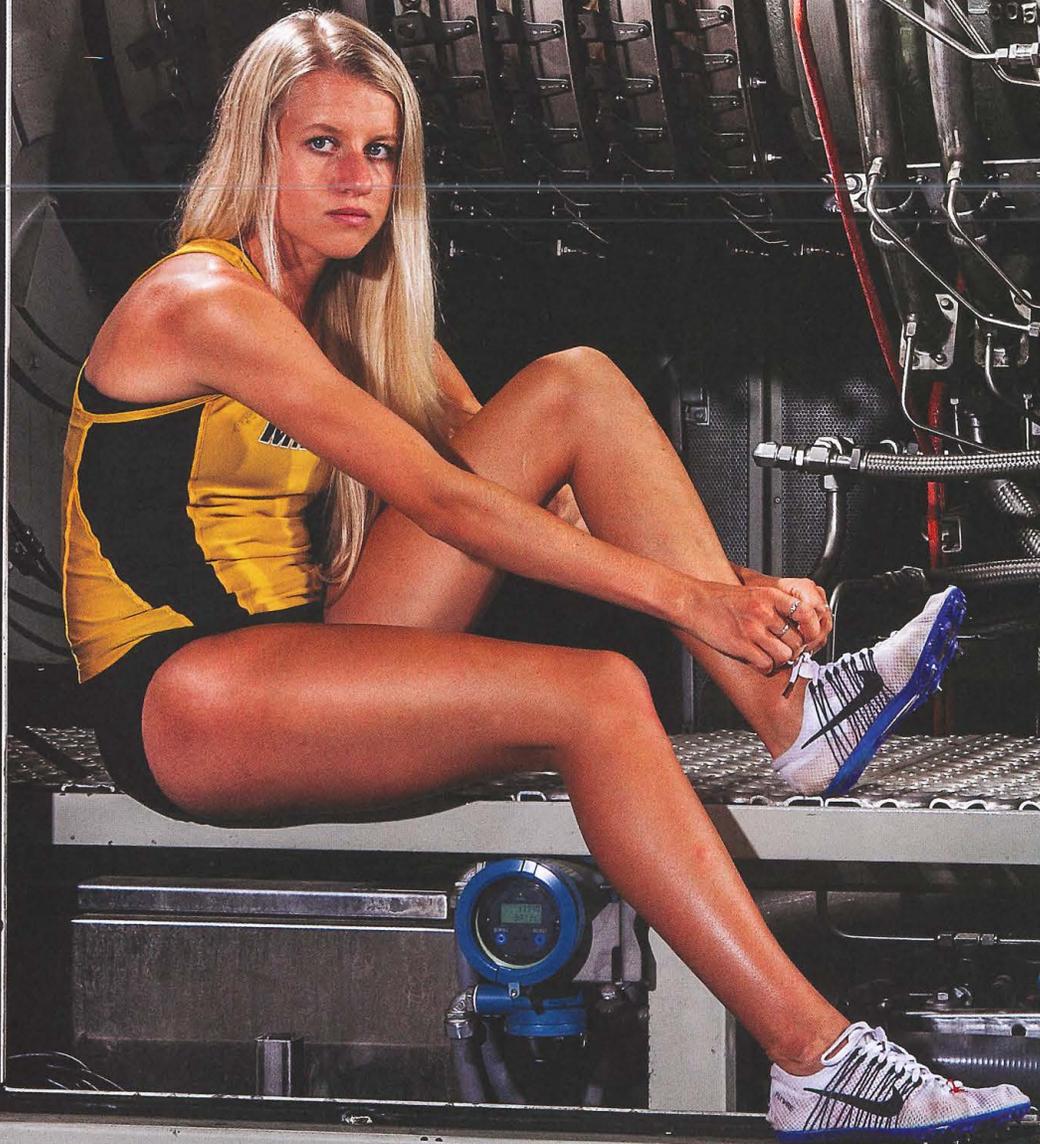
↑ 1930s freshman beanie belonging to Walter Dudley Smith; similar cap shown on unnamed model in 1932 Savitar.



↑ 1960s evening gown and pant ensemble worn by Betty Hearnese, BS Ed '52, as first lady of Missouri; late 20th century silk Korean hanboks given to former MU Chancellor Brady Deaton and wife Anne; 1970s cotton wedding dress of Anne Marie Weiss, BS Ed '67, MA '68. She was born in 1947 to Gilbert, BS Ag '49, and Angela Weiss, BSN '53, while the family lived in a trailer on MU's Dairy Lawn. Anne is shown with husband Ma'Amun Armush, BS CIE '66, MBA '71.

MIZZOU
FALL
2017

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CHAMPIONSHIP GENERATOR

ALL-AMERICAN DISTANCE RUNNER **KARISSA SCHWEIZER** IS BURNING UP NCAA CROSS-COUNTRY COURSES AND IGNITING THE **MIZZOU TRACK AND FIELD PROGRAM**. IN 2017-18, SHE PLANS TO KICK IT INTO OVERDRIVE. ➔ MARCUS WILKINS 📷 NICHOLAS BENNER

It was a moment of realization, followed by one of determination, acceleration and jubilation. † Karissa Schweizer, Mizzou’s nascent distance-running superstar, had her sights set on a top five finish at the NCAA Women’s Cross Country Championship Nov. 19, 2016, in Terre Haute, Indiana. Nearing the home stretch, she overtook Kansas runner Sharon Lokedi for third place, and it dawned on Schweizer: She should aim higher.

† Karissa Schweizer, shown here in her triumphant moment at the NCAA Women’s Cross Country Championship, is the only female athlete in Mizzou history to win multiple NCAA titles.

“I was gaining on the leaders, and they kept looking back at me,” says Schweizer, who shot to the front with a late burst of speed known as a “kick.” “When I finally passed [leader Erin Finn of Michigan], I thought, ‘Is this really happening? Is this one of my dreams?’ It still gives me goosebumps.”

The win, the first individual national cross

country title in Mizzou history, forced Schweizer to adjust her goals yet again. For an encore, she won a pair of 2017 national championships in the indoor and outdoor 5,000-meter events, joining wrestler J’den Cox as the only MU athletes with three NCAA titles.

Schweizer’s success has put the program in the national spotlight. Now, heading into her senior season, she is poised to smash SEC records and collect more hardware as one of the nation’s premier runners.

“Karissa has opened recruiting doors for us,” says Marc Burns, coach of the men’s and women’s cross-country teams. “There was a time when the top Missouri kids wouldn’t consider coming to Mizzou on the distance side. Now we are talking to all the top kids in Missouri.”

It Runs in the Family

As All-American distance runners at Minnesota State University, Mankato, Schweizer’s father and grandfather, Mike and Frank, know what it means to push themselves. Frank is a legendary track coach in Iowa, where his career spanned 47 years. Karissa’s mother, Kathy, was also an accomplished middle-distance runner in Minnesota.





The Schweizers, however, didn't push Karissa onto the track. She came to love running of her own accord.

"She was always a little timid when it came to physical contact in volleyball, basketball or soccer," says Frank, who still talks to his granddaughter the night before every race. "At her first track practice in the fifth grade, the coaches put Karissa about six rows back in a group of 50 or 60 boys and girls. The race started and she shoved her way up front (to win). That's when I realized she *does* have an aggressive side; she just had to find the right outlet. The track was that place."

Competition was just as fierce at the family's Urbandale, Iowa, home. Younger brother Ryan, now a runner at Notre Dame University, younger sister Kelsey, a track athlete at Dowling Catholic High School, and Karissa were always teasing and challenging each other — albeit (usually) good-naturedly.

"Karissa is really strong-willed," says Kelsey, who anchored a championship 4x800 relay squad in May at the Drake Relays in Des Moines, Iowa. "She has taught me not to give up when you want to. Only give up when you have to."

At the Honda Cup Sports Award ceremony in Los Angeles, where Karissa was a finalist for national female athlete of the year, she summed up her personality in three words: competitive, determined and a little sassy.

"For someone as good as she is, she's very humble," says MU's Burns. "She's a polite, Midwestern kid from Iowa, but underneath it all, she's a competitive beast."

The Next Gear

Schweizer's hereditary edge and natural determination alone would probably be enough to make her one of the nation's best distance runners. Mix in an injury-free career — virtually unheard of for a college runner entering her senior season — and the advantage is tremendous. Fortune has smiled on Schweizer, to be sure, but she is also dedicated to nutrition and self-care, and she possesses a keen awareness of her body's limits.

"Any time I get a little knee or hip pain, I go to the trainers right away and tell them what's up," says Schweizer, who hopes to pursue a career in physical training or nutrition. "And this year, I started going to bed a little earlier than normal."

The next phase? Ramping up her killer instinct. Before the NCAA Championships in Eu-

gene, Oregon, where Schweizer won her third national title, Burns urged her to assert control early and to dictate the pace of the race. Schweizer was reluctant at first, being used to hanging back and relying on that signature kick. "I said, 'I think you're at the level where you should just go out there and destroy everybody,'" Burns says. "We know when you drop the hammer, there's no one who can hang with you. The night before the race, she finally said, 'Yeah, you're right.'"

Burns says that, after college, Schweizer can push herself to another training level and increase her mileage. Professional distance runners don't have to pace themselves through the NCAA's three-pronged cross-country, indoor and outdoor seasons.

Schweizer also proved she can compete with the sport's elite when she finished fourth in a field loaded with American record holders and Olympians at the USA Track and Field Championships June 24 in Sacramento, California. She bested one Olympian and might have finished higher, had she not made a tactical error attempting to pass a more experienced runner on the inside. She cut off Schweizer and forced her around the pack.

Schweizer, now the face of the Mizzou cross-country program, will be running with a proverbial target on her back while SEC opponents try to catch up in 2017-18. She'll also be leading the pack for one of the nation's up-and-coming programs.

"I enjoy the whole process of the race, not just the running," Schweizer says. "I am motivated by a desire to be the best I can be, to show that all of the hard work has paid off and to see how much more I can do." **M**

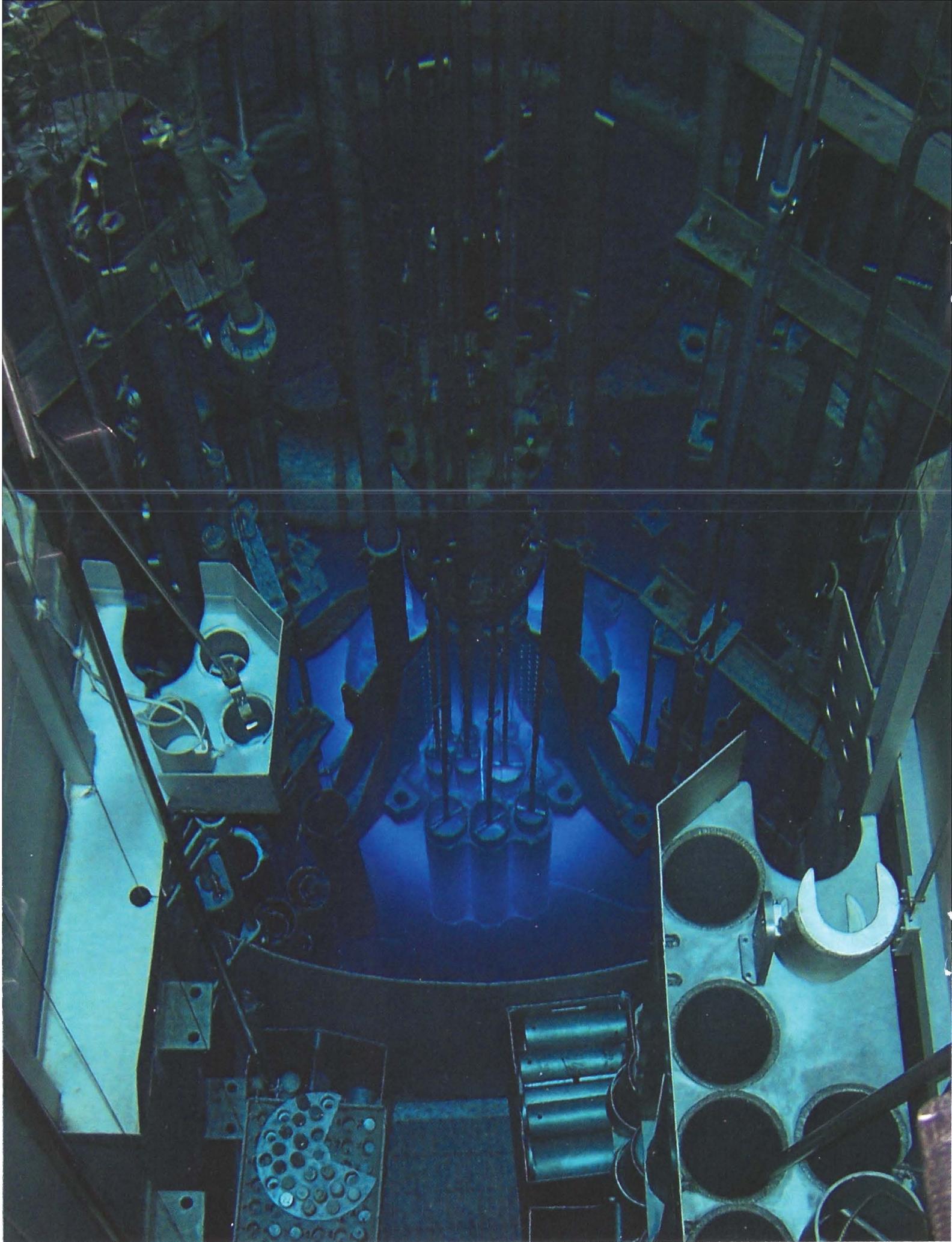
Catch Them If You Can



Running comes naturally to Karissa Schweizer's family. Clockwise from top: Grandpa Frank was an All-American at Minnesota State University, Mankato. Mom, Kathy, ran 800s and 1500s in college. Younger sister, Kelsey, is just getting warmed up in high school. Brother, Ryan, runs for Notre Dame University, and dad, Mike, followed in his father's cleat steps as an All-American at Mankato.



→ Karissa Schweizer dominates competition during day four of the NCAA Outdoor Championships, June 10, in Eugene, Oregon.





Core Skills

At 10 megawatts, the University of Missouri Research Reactor (MURR) is the most powerful university-based research reactor in the nation. Rather than generating electricity, the facility produces knowledge across a surprising range of disciplines. New findings can help save lives of cancer patients, catch smugglers, fend off crop-killing pests and reveal ancient Rome's mysteries through its pottery. ✂ Story by Dale Smith

Eeny, meeny, miny, moe

There is no shortage of ripped-from-the-headlines reasons to know who has been exposed to radiation (not to mention how much, what kind and how long ago). But the traditional urine test for nuclear plant workers, which detects radiation exposure up to 48 hours in the past, can't handle many modern scenarios.

In response, MURR researcher John Brockman, PhD '06, and colleagues developed a new test that answers pressing questions about radiation exposure going back up to one year. The scenarios are the stuff of spy novels and international news:

- After nuclear accidents like those at Three Mile Island or Fukushima, how can people be tested accurately for exposure? Or,

- When inspectors examine nuclear plants, how can they be sure the facility has been making only the types of uranium that cannot be used for weapons? Or,

- What if police in Eastern Europe arrest a man trying to sell a jar of black-market uranium — the enriched kind suitable for weapons. "There's more uranium on the move around the world than you might think," says MURR researcher John Brockman. Law enforcement officers want to know: Is this man just a driver? Did he also perform the chemistry to make the uranium? How long has he been dealing with the material?

In contrast to the 48-hour urine test, Brockman's new approach detects exposure to special nuclear material that accumulates in toenails and hair. Like urine, these structures take up uranium and plutonium. Unlike urine, toenails and hair are slow-growing body parts that retain signs of exposure for months.

Using expertise and equipment at MURR, Brockman developed a noninvasive test that turns

around results in two days. The test also reveals the types of uranium to which subjects have been exposed. "We were able to identify exposure to enriched uranium, which is used to make both nuclear fuel and weapons, and U-236 which is suggestive of nuclear fuel reprocessing."

So, how do you nab a uranium trafficker?

Eeny, meeny, miny, moe, catch a smuggler by the toe.

Doubling up on Cancer

Twins fascinate, whether, identical, fraternal or evil. Considering arsenic's reputation as a stealthy poison, you might assume that the element's twin radioactive isotopes, 72 and 77, would fall into the "evil" category. But radiochemist Silvia Jurisson has uncovered their higher qualities for cancer care.

For decades, Jurisson has worked to refine nuclear medicine approaches to diagnosis and treatment: A drug containing a diagnostic radioisotope gathers in certain tumors and lights up on, say, a PET scan. Afterward, the same drug containing a therapeutic isotope carries medicine into the body in search of those tumors.

Unfortunately, diagnostic and therapeutic isotopes may not move around the body in the same ways. As a result, therapeutic isotopes often don't home in on tumors that the diagnostic isotope has pinpointed. Thus, chemotherapy medicines can land in healthy tissues and cause devastating collateral damage. For instance, when medicine meant for a pancreatic tumor lands in the kidney, it can shut down that vital organ.

Jurisson's team has discovered that arsenic's twin isotopes move around the body identically, which could be a boon to cancer diagnosis and treatment. When injected into the body in miniscule quantities, arsenic is not poisonous. The

+ Opened in 1966 at 5 megawatts and upgraded to 10 megawatts in 1974, the University of Missouri Research Reactor is not only the largest facility of its kind in the United States but also one of the most reliable such resources serving students, scientists, engineers and industry representatives worldwide.

Arsenic-72 isotope, when incorporated into a particular peptide or antibody, acts as a spotter for tumors of the prostate, pancreas and breast as well as small-cell cancers. The researchers are incorporating the twin isotope, Arsenic-77 — the healer — to carry medicines or antibodies only to the tumors.

Early results are positive. Stay tuned for animal studies and, if those go well, human trials.

Root (Worm) of the Problem

Although Richard Ferrieri conducts high-flying agricultural research at MURR, his sense of mission grounds him. “Global hunger is a problem of today, not tomorrow,” says Ferrieri, who collaborates with scientists in MU’s Interdisciplinary Plant Group and the University of Saskatchewan’s Global Institute for Food Security. With the world’s population growing toward an estimated 9 billion by 2050, and corn serving as a staple crop across the globe, Ferrieri’s research lays the groundwork for new plant varieties and farming practices that can help crops tolerate climate extremes and resist pests and diseases. One bug in particular, the Western corn rootworm, aka the billion-dollar pest, has troubled farmers for a century at least.

The rootworm is voracious, Ferrieri says. “Their larvae hatch in the soil during late spring and immediately begin feeding on the crop’s root system. Mild damage to the root system can hinder water and nutrient uptake, threatening plant fitness, while more severe damage can result in the plant falling over.”

Pesticides can’t solve the problem, and breeding new rootworm-resistant corn varieties could take years. So, in a recent series of studies, Ferrieri and his team have been studying why some plants can resist attacks. They used radioisotopes to trace essential nutrients and hormones as they moved through live corn plants, then compared the responses of healthy and rootworm-infested plants. “For some time, we’ve known that auxin, a powerful plant hormone, is involved in stimulating new root growth,” Ferrieri says. By tagging auxin with a radioactive tracer, the researchers were able to use a medical diagnostic imaging tool called positron emission tomography to watch auxin move through living plant roots in real time. The study revealed that auxin biosynthesis is vital to root regrowth and crops’ pest tolerance. Such resistance, scientists say, involves biochemical pathways influenced by the rootworm and triggered by glutamine metabolism. Plant breeders can use the study’s results to more quickly cultivate corn varieties that resist the rootworm.

In related work, Ferrieri is exploring how certain soil bacteria make auxin and transfer it to corn plants, thereby building natural resistance to the pest.

How to read an ancient pot

For 30 years, MURR researcher Michael Glascock has conducted archaeometry analysis on ancient artifacts from all over the world. His tally is about 150,000 artifacts, which is roughly one-half of all such items ever studied using neutron activation analysis, or NAA. In contrast to radiocarbon dating, which estimates an artifact’s age, NAA determines its origin. One of his recent projects involves tracking the origin of heretofore unstudied clay pots from ancient Rome. The black-gloss pottery is part of 100,000 ancient artifacts unearthed during construction in Italy’s capital city during the late 19th and early 20th centuries. They’ve since been stored, largely untouched, in the Capitoline Museums, one the world’s main repositories of ancient Roman artifacts.

The backlog of unstudied antiquities is a widespread problem, says Alex Barker, director of MU’s Museum of Art and Archaeology. In 2014, Italy made the rare move of sharing such artifacts with collaborators who will ease the backlog, generate new knowledge of ancient Rome and start databases to which scholars worldwide will contribute. The Capitoline chose MU as its first international collaborator because it possesses faculty with expertise in cultural history, an accredited museum with a strong antiquities collection and a nuclear reactor that can make highly specialized measurements.

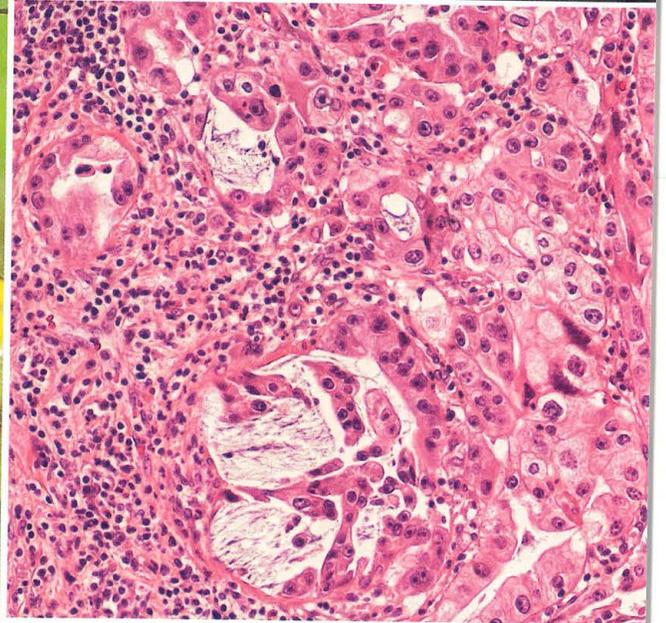
To analyze the pots, Glascock drills into the broken edge of a shard. This allows him to extract clay powder while preserving the sample’s surface. He uses neutrons to irradiate the powder and then measures its gamma-ray emissions. For each pot, that gives him more than 30 of the clay’s elements — its chemical fingerprint. Of the 65 Roman pots analyzed so far, Glascock has identified three chemical fingerprints that are similar, and two others that are distinct, indicating the clays may come from multiple areas. Few museums permit such tests, but it’s the only way to reliably document the chemical “fingerprint” of an object, and thereby determine where it was made.

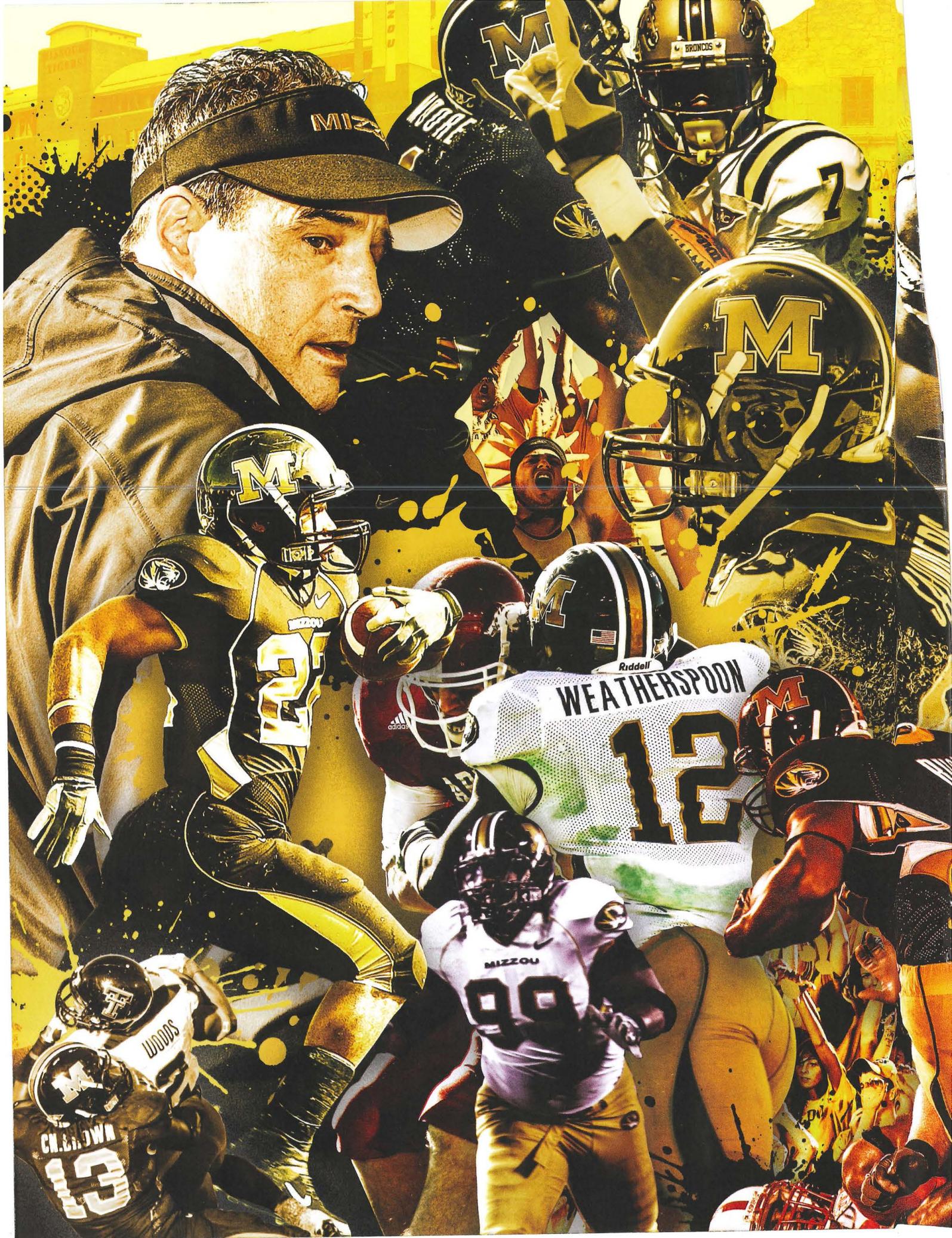
Clay pots were — and still are — part of everyday living. “We can watch the pulse of life through pots,” says Susan Langdon, professor and chair of the Department of Art History and Archaeology. “Pottery is durable, people make it constantly, and everyone needs it for cooking, serving and storage.” Ancient Romans used certain pot types in households and others in graves or shrines. “So, once we understand the shapes, pots can tell a lot about what’s going on in an archaeological site.” **M**

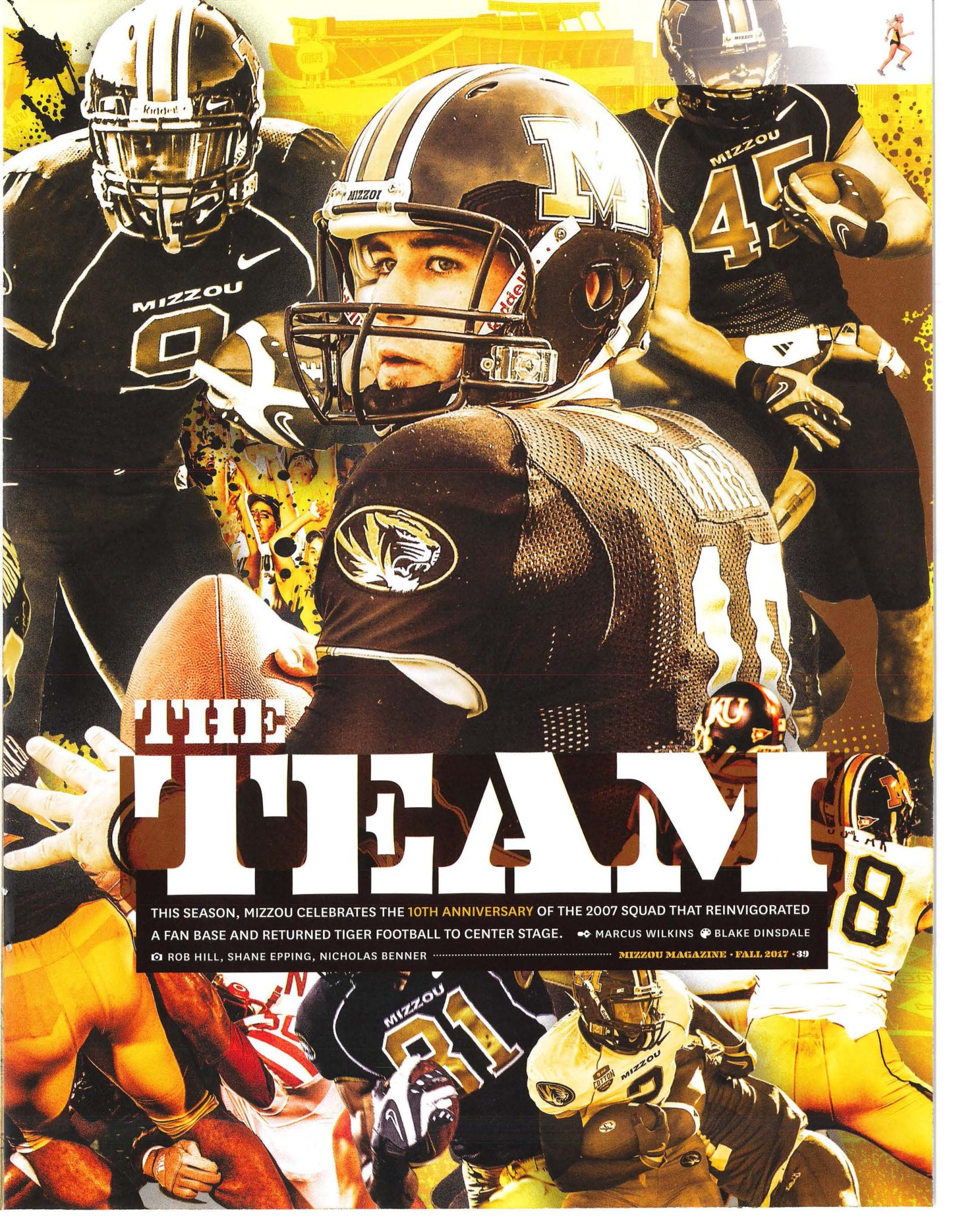


† The government of Italy has taken the rare step of allowing artifacts out of the country for analysis. The capabilities of MU’s research reactor helped prompt the decision.

→ Opposite, clockwise from top left: To get clay samples for analysis while preserving the exterior of an ancient Roman pot, researchers drill into the edge of a shard; by detecting exposure to nuclear material that accumulates in toenails and hair, which retain signs of exposure for months, police could nab smugglers of nuclear material; twin isotopes of Arsenic could not only detect but also treat cancers, including those of the pancreas; the University of Missouri Research Reactor (MURR), located on Providence Road, collaborates on research with units across campus; MURR research on the corn rootworm, a devastating crop pest (shown here in its adult beetle stage), could help plant breeders develop resistant varieties.







THE TEAM

THIS SEASON, MIZZOU CELEBRATES THE 10TH ANNIVERSARY OF THE 2007 SQUAD THAT REINVIGORATED A FAN BASE AND RETURNED TIGER FOOTBALL TO CENTER STAGE. ➤ MARCUS WILKINS 🐾 BLAKE DINSDALE
📷 ROB HILL, SHANE EPPING, NICHOLAS BENNER MIZZOU MAGAZINE • FALL 2017 • 39

We're No. 1!

You hear it bandied about college football bleachers and broadcasts regardless of the proclamation's veracity. But when the 2007 Tigers defeated archrival Kansas to win the Big 12 North division and a shot at the conference championship, the statement was as true as every True Son's happy heart: Missouri sat atop the BCS poll.

The storied season's prelude, however, begins in the west-Texas desert at the end of 2006. Mizzou had dropped a 39-38 heart-breaker to Oregon State in the Sun Bowl after a late, controversial two-point conversion. The team's destiny was uncertain.

"We didn't stay to finish that game," says retired Mizzou head Coach Gary Pinkel. "It looked like we were still trying to figure out how to win at a higher level."

Reaching new heights would greatly depend on the team's returning roster. Players began to persuade teammates who were on the fence about entering the NFL draft to stay another year.

"[Freshman wide receiver] Jeremy Maclin and I were both injured, watching Rihanna perform during the Sun Bowl half time show," says then junior wide receiver Will Franklin, BGS '16. "He said, 'Man, we really got something special here at Mizzou. I just hope everybody comes back.' And he looked at me."

As the team began to coalesce that spring, two words would come to define the talent-laden football squad: leadership and accountability.

"The juniors and seniors got together and said, 'We understand how much ability we have, but we have to go out and show it on a weekly basis,'" says quarterback Chase Daniel, BS BA '09. "The leaders really took hold of the team."

Although they fell short of their ultimate conference- and national-championship goal, the 2007 Tigers captured black-and-gold hearts in a way few teams ever had.

Read on as players, coaches and commentators share highlights, in their own words, of an unforgettable season.

Sept. 1, 2007, Edward Jones Dome, St. Louis
 **Mizzou 40, Illinois 34**

Chase Daniel threw for 359 yards and three touchdowns as the Tigers continued their dominance over Illinois. The game also featured a breakout performance from Maclin and a 100-yard fumble return for a touchdown by defensive back Cornelius "Pig" Brown.

Gary Pinkel



Illinois was really coming after us because we had been playing well against them. We went into that matchup a few years before as the hunter. Now we were the hunted.



Stryker Sulak, defensive end

That was my first time playing in a dome. The thing that stands out in my mind, and probably everyone's mind, was Pig Brown's intensity. After that fumble return, it seemed like he was barely out of breath.



Chase Daniel

The game was a springboard for J-Mac [Jeremy Maclin]. He had torn his ACL in 2006 and worked so hard to get back. It was his coming-out party.

Sept. 8, 2007, Oxford, Mississippi
 **Mizzou 38, Mississippi 25**

Sept. 15, 2007, Memorial Stadium
 **Mizzou 52, Western Michigan 24**

Sept. 22, 2007, Memorial Stadium
 **No. 25 Mizzou 38, Illinois State 17**

Oct. 6, 2007, Memorial Stadium
 **No. 17 Mizzou 41, No. 25 Nebraska 6**

The poll-ascending Tigers hammered the Cornhuskers in Missouri's most lopsided defeat of Nebraska since 1947. The nationally televised "Gold Rush" game featured a then-record Memorial Stadium crowd of 70,049.



Lorenzo Williams, defensive end

I remember going into the Nebraska game really confident. We had an emotional team meeting the night before; I punched a hole in a marker board and Ruck (tight end Martin Rucker) kicked it. We couldn't do anything wrong against the Huskers. The popcorn was popping and the nacho cheese was flowing.



Will Franklin

(Defensive back) William Moore put a huge hit on (Nebraska running back) Marlon Lucky in the first half. It made everybody on the sideline jump up and want to play defense.



Martin Rucker

My brother went to Nebraska and won three national championships, so I'm partial to beating them. I scored on a fake field goal (on a shovel pass from wideout Tommy Saunders) to put the nail in the coffin in the fourth quarter.



Chase Daniel

I'll always remember the game because of the atmosphere. It was my 21st birthday that night, so it was a fun day all around.

× Mizzou's 41-6 victory over Nebraska was the first time the Cornhuskers did not score a touchdown against the Tigers since 1961.



Oct. 13, 2007, Norman, Oklahoma

🏈 No. 6 Oklahoma 41, 🏈 No. 11 Mizzou 31

A confident, undefeated Tiger squad (5-0) visited Norman expecting to score an upset but left with their first defeat of the season.



Gary Pinkel

We were coming off an emotional win, and playing back-to-back, playoff-type games at that level is difficult. My coaches will tell you we did everything we could have done, but I should have done more.



Stryker Sulak

I had never beaten Oklahoma — in fact, no one on the team had ever beaten Oklahoma — but we went down there without a doubt in our minds that we were going to win. That game was rough. Some of us thought the season was over.



Lorenzo Williams

Coach Pinkel never talks about the future. He hung his hat on that. But after that loss he gathered everyone around him, took off his hat and glasses and said, 'You're never going hear me do this again, but we *cannot* lose another football game. Kansas is not going to lose, and if we do, we lose our chance to win the Big 12 North title.'

Oct. 20, 2007, Memorial Stadium

🏈 No. 15 Mizzou 41, 🏈 No. 22 Texas Tech 10

Oct. 27, 2007, Memorial Stadium

🏈 No. 13 Mizzou 42, 🏈 Iowa State 28

Nov. 3, 2007, Boulder, Colorado

🏈 No. 9 Mizzou 55, 🏈 Colorado 10

Colorado found the end zone early after intercepting a tipped pass, but the Tigers roared back and the Buffaloes didn't score another touchdown. Missouri ended a four-game Folsom Field losing streak and moved to 8-1 for the first time since 1969.



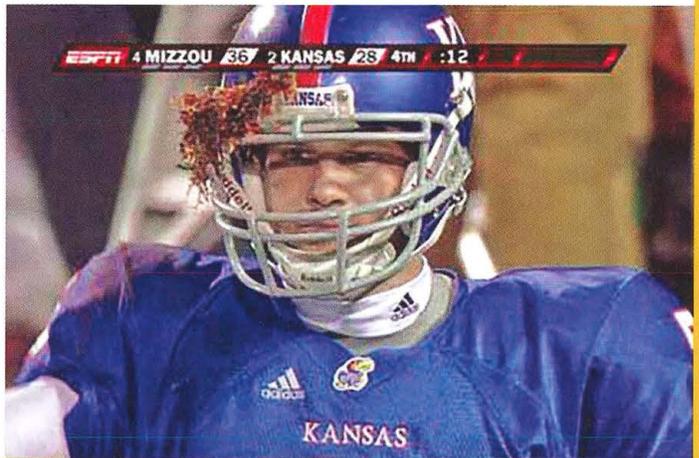
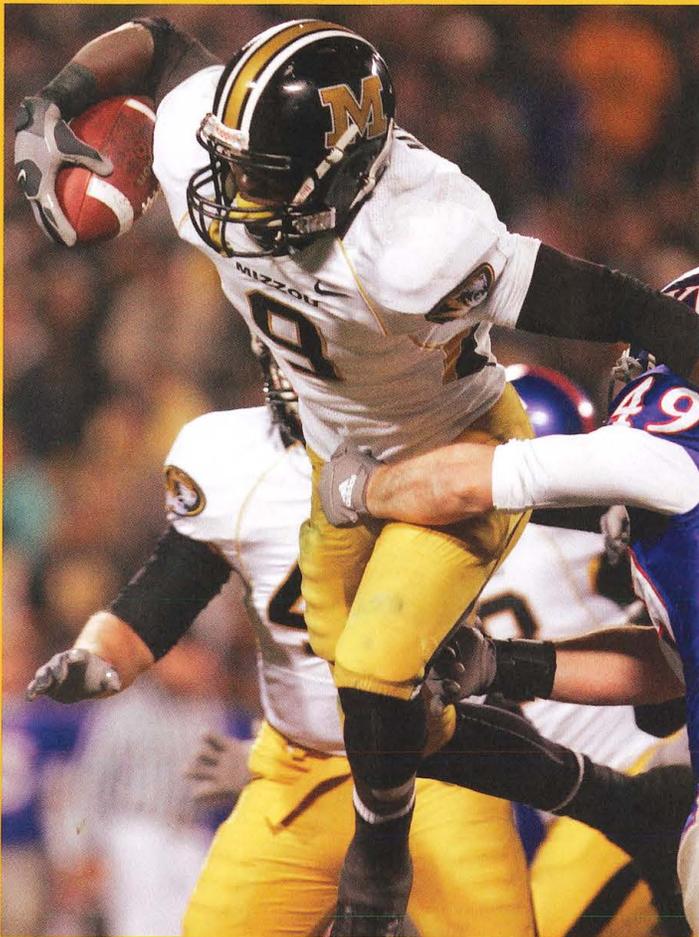
Gary Pinkel

Going into Colorado, people kept telling me about the altitude. I told my players, 'If I hear one more person tell me about the stinkin' altitude ...'



Lorenzo Williams

We used an altitude-training module that (former Mizzou strength and conditioning coach) Pat Ivey put together for us. We had to run on the treadmill with a mask every day leading up to the Colorado game. We were the guinea pigs for a lot of the stuff that he ended up being famous for.



† Clockwise from left: Jeremy Maclin, currently a wide receiver with the NFL's Baltimore Ravens, finished the 2007 season with 1,055 receiving yards, 16 touchdowns and 2,776 all-purpose yards, a Division-I freshman record. Kansas and Missouri battled in 33-degree weather at Arrowhead Stadium in Kansas City. The game's deciding play came with 12 seconds left as Mizzou's Lorenzo Williams sacked the Jayhawks' Todd Reesing for a safety, lodging a chunk of turf in the quarterback's facemask in the process.



Chase Coffman

They were running man-to-man and you just can't do that against that many talented receivers with Chase Daniel throwing the ball. I remember catching a touchdown pass in the back of the end zone that everyone thinks was one-handed. I used two hands, then let go with one so I could get my balance and tap down.

Nov. 10, 2007, Memorial Stadium

No. 7 Mizzou 40, Texas A&M 26

Nov. 17, 2007, Manhattan, Kansas

No. 6 Mizzou 49, Kansas State 32

Nov. 24, 2007, Arrowhead Stadium, Kansas City, Missouri

No. 4 Mizzou 36, No. 2 Kansas 28

The biggest game in the rivalry's 116-year history attracted ESPN's College GameDay and drew big TV ratings. The Missouri victory also spoiled the Jayhawks' perfect season, gave Mizzou its school-record 11th win and solidified Daniel's Heisman Trophy candidacy.



Martin Rucker

This was the perfect showdown. It was like God wrote the script and dropped it on us. We got out to a 21-0 lead and then kind of took a breath waiting for Kansas to turn back into a pumpkin. It was much more exciting than it should have been. I'll just say we were trying to keep the ratings up.



Lorenzo Williams

The night before, a guy came up to me at the hotel and asked if I was Lorenzo Williams. I said yeah, and he said, 'I have a present for you' and gave me a box. It was an ice cream cake that said 'Go Jayhawks! Beat the Tigers!' I took it to the players meeting and Spoon (linebacker Sean Weather-spoon) jumped over three rows of chairs and elbow-slammed the cake into the ground.



Gary Pinkel

It was one of the greatest college environments I have ever experienced, and I've coached in three Rose Bowls. Driving through our fans as they beat on the side of the bus. Peo-

NICHOLAS BENNER; SHANE EPPING; BROADCAST: COURTESY ESPN



ple standing for the entire game. I get chills thinking about it.



Chase Daniel

It was scoreless through the first quarter, and then we just started dinking and dunking. Some of our playmakers made big plays. Our running game got going with Tony Temple, (wide receiver) Danario Alexander had a heck of a catch for a touchdown and (running back) Derrick Washington had a touchdown catch.



Stryker Sulak

The game came down to a fourth down (deep in Kansas territory on the Jayhawks' final possession) and you knew they were going to pass. I got to (KU quarterback Todd) Reesing first. I felt Lorenzo charge up and kind of do a butt check and completely knock me off of him.



Lorenzo Williams

(Linebackers coach) Dave Steckel called 'fire,' which is a designed blitz. We didn't want to blitz; we wanted to run a straight rush. I said to Spoon, 'We're not running fire. Just put your hands up in the air like you can't hear. Here, I'll do it,' and I motioned to the sideline. The coaches laugh about it now, but at the time they were mad. Afterward they couldn't be mad because we got a sack and a safety.



Mike Kelly, radio broadcaster

It was a spectacular game that came down to who was going to make the last play. Missouri's defense did. My call was 'Sack. Safety. Ball game. Bingo!'

Dec. 1, 2007, San Antonio, Texas

No. 9, Oklahoma 38, **No. 1 Mizzou 17**

Jan. 1, 2008, Cotton Bowl, Dallas

No. 7 Mizzou 38, **Arkansas 7**

The Tigers fell short in the Big 12 Championship against Oklahoma but rebounded New Year's Day to trounce the Razorbacks behind Tony Temple's Cotton Bowl-record 281 rushing yards.



Gary Pinkel

When we learned we weren't going to the Orange Bowl (Kansas was selected over Missouri to play in the BCS bowl), I told the guys we are not going to complain about anything. We're going to one of the most prestigious bowls in history.



Stryker Sulak

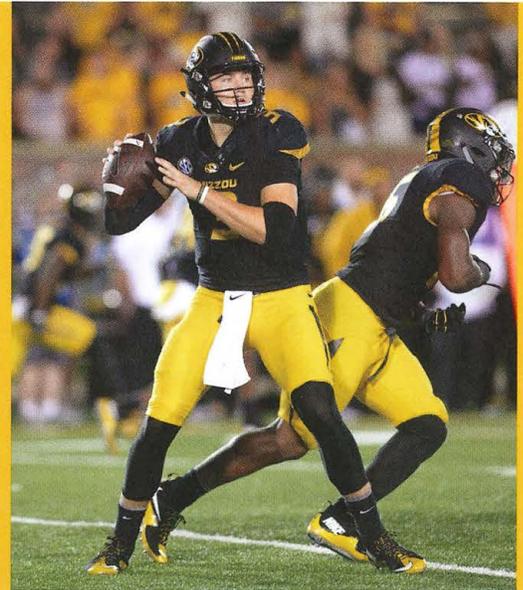
Lorenzo spoke before the game. He was so excited to play in the Cotton Bowl. Being from Oklahoma, it was a dream come true for him — and for me being from Texas. We had so many family and friends in the stands.



Mike Kelly

During the luncheon before the Cotton Bowl, they asked the two quarterbacks to throw a football to someone in the crowd. The Arkansas quarterback's throw was a bit errant. Chase Daniel reared back and threw the football right

FOOTBALL 2017



Locked and Loaded

Second-year Coach Barry Odom's Tigers enter the 2017 campaign determined to surprise pundits and opponents after back-to-back losing seasons.

Junior Drew Lock (Lee's Summit, Missouri), who enters the season as the SEC's most experienced quarterback, steers an offense that finished second in the conference in passing and total offense.

"You get a ton of confidence from being the older guy," says Lock. "You come out here, and you know you're going to see things you've seen before. It makes everything easier for you."

The offense returns all but one starter and features senior standouts Ish Witter (running back, Tampa, Fla.) and J'Mon Moore (wide receiver, Missouri City, Texas), sophomore running back Damarea Crockett (Little Rock, Arkansas) coming off a sensational freshman effort, and sophomore wide receivers Johnathon Johnson (Memphis, Tennessee) and Dimetrios Mason (Loganville, Georgia).

Last season's underperforming defense was an anomaly for an Odom squad, but the Tigers have enough returning players to get things back on track. The annual parade of high-level defensive linemen continues with junior Terry Beckner (East St. Louis, Illinois), who returns from a season-ending knee injury suffered on Homecoming 2016, and senior Marcell Frazier (Portland, Oregon).

"I like the senior leadership on this team," Odom says. "I like the opportunity for those guys to continue to put their stamp on who we're going to be."

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9.16 

9.23 

10.21 

11.4 

11.11 

9.2 

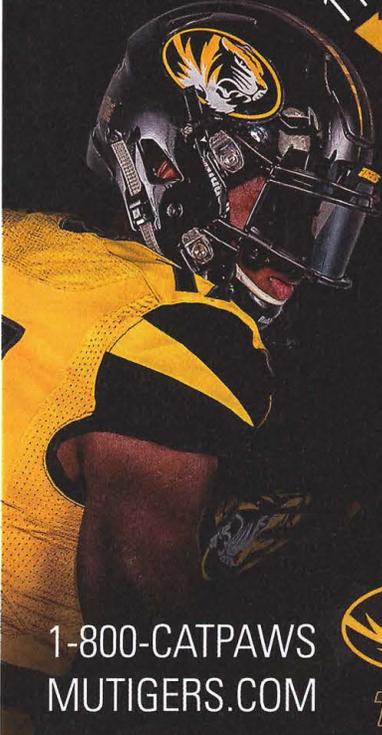
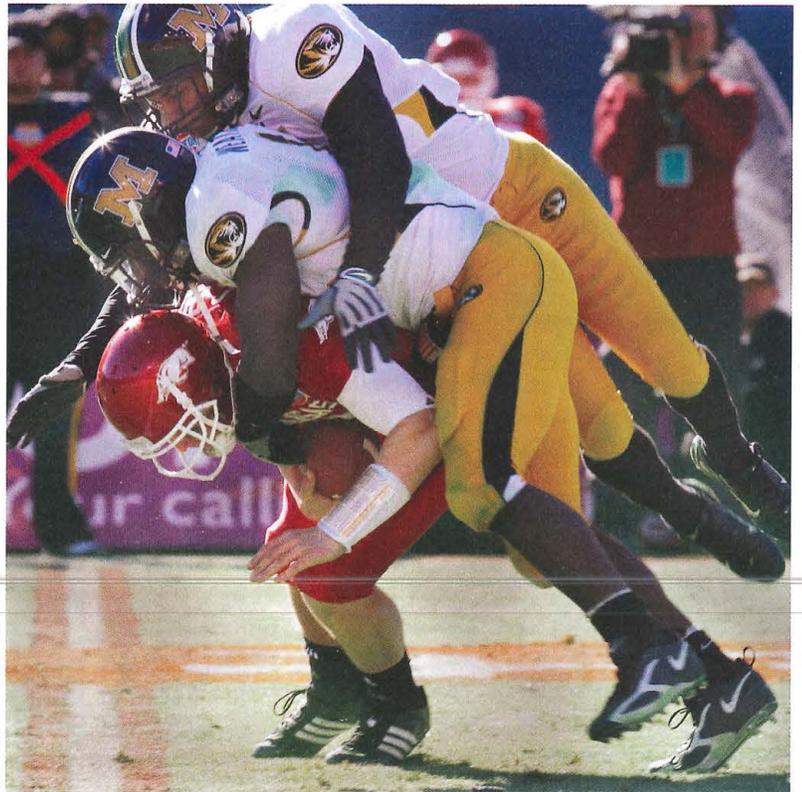
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9.23 

1-800-CATPAWS
MUTIGERS.COM



↑ The Tigers' 38-7 drubbing of Arkansas at the 2008 Cotton Bowl in Dallas was the largest margin of victory in Mizzou bowl game history.

on a dime to where the guy who was seated out in the crowd barely had to move at all.



Will Franklin

On offense, we were thinking, 'Let's go out there and do what we do.' But we didn't know Tony Temple was going to do what he did. I remember looking across the field, and I could see the quit in that team's eyes.



Chase Coffman

Arkansas kept talking about how they had three high-profile running backs. Well, we've got a guy, too.



Mike Kelly

There were two games working alongside the late John (color commentator known as "Mr. Mizzou") Kadlec (BS Ed '51, M Ed '52) when I looked over and saw a tear in my friend's eye. Once was in 1997 when Missouri beat Colorado to end a streak of 13 consecutive losing seasons. As we watched the Cotton Bowl unfold that day, I could see the sense of pride overcome Coach Kadlec. It was *his* program. All that time as a former player, former coach, former administrator and now as a broadcaster.



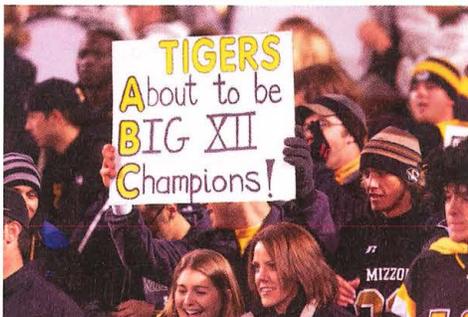
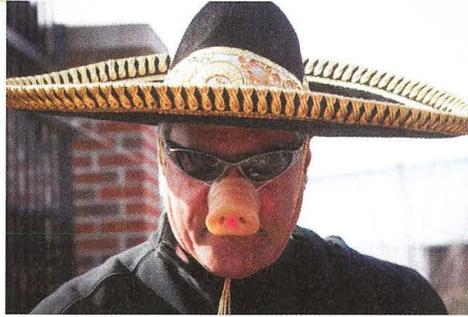
Martin Rucker

The 2007 Tigers had playmakers. We had talented guys on both sides of ball. But another thing that made us successful was that we all bought in to everything we were doing. We had great leaders, and everything came together at the right time. **M**



Fantastic Fanatics

Mizzou fans in 2007 were treated to a wild regular season starting in St. Louis, finishing in Kansas City and leading to a New Year's Day date with Arkansas in the Cotton Bowl in Dallas. Fans had multiple chances to show their school spirit on national TV, as the Tigers climbed the BCS poll and wowed audiences with star-studded performances.



SHANE EPPING, ROB HILL, NICHOLAS BENNER

Rhythm of the Roar

For 106 years, Mizzou's Homecoming traditions have been favorites of alumni and students alike. The Mizzou Alumni Association's 36-student Homecoming Steering Committee (Steerco, for short) spends months planning the week's events, scheduled for Oct. 15–22. Meet the three dedicated Tigers who lead the group.



Baylee Francka
Major: Psychology
Class year: Senior
Hometown: Jefferson City, Missouri

What the Homecoming theme, Rhythm of the Roar, means to you: It is the idea that there is a diverse collection of layers that comprise what we love about Mizzou. Each member of the family makes a contribution with a slightly different beat, collectively forming our unified roar that is uniquely Mizzou.

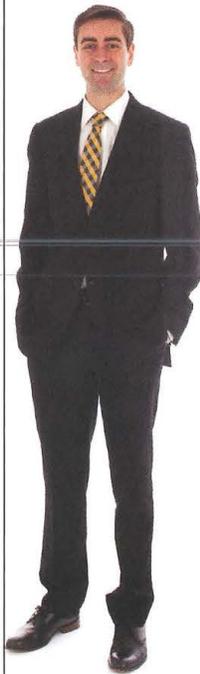
Best part of Steerco: Getting to know Mizzou on such a deep level. It is an amazing feeling to be decked out in official black and gold Homecoming gear and be surrounded by thousands of excited faces enjoying the product of our hard work.

Favorite campus spot: The top of the Virginia Avenue Parking Garage. My days on campus start and end here with a view overlooking all the places where my friendships and memories are being made.

Favorite professor: Nicole Campione-Barr, BA '99, has invested in me during my time in her research lab more than I could ever ask or expect. She continually exposes me to amazing opportunities.

Dream job: To open my own treatment center providing therapeutic services for patients and families with eating disorders.

Who inspires you: My grandpa is the most humble, sincere person I know. He can make a best friend standing in line at the grocery store.



Cole Edwards
Major: Agricultural economics
Class year: Senior
Hometown: Salisbury, Missouri

Your goal for Homecoming: To continue making it more accessible and inclusive for all Tigers. Homecoming is already an electric time on campus and throughout Columbia. I can only imagine what it will be like when more organizations are able to participate!

Favorite Mizzou memory: After the 2014 Arkansas game, when we won the SEC East and stormed the field for a second consecutive year

Favorite weekend activity: Game day! Nothing beats a fall day with friends, going to the football game and yelling "M-I-Z!"

Why you chose Mizzou: I grew up in a Mizzou alumni family and have been yelling "M-I-Z" since I could talk.

Will miss most about Mizzou: The people. There are so many bright, ambitious, genuine people here that will go on to change our country and world.

Dream job: President of the United States — no joke. I've been enamored of the presidency for as long as I can remember!

Favorite campus spot: Francis Quadrangle, near the Thomas Jefferson statue. You can see Jesse Hall, the Columns and the entire quad. I have always loved history, politics and American presidents, and all three are connected to Mizzou in that spot.



Brooke Novinger
Major: Biochemistry
Class year: Senior
Hometown: Kirksville, Missouri

Childhood Mizzou memory: Skipping around campus in my Mizzou cheerleader uniform and listening to my father tell stories of his time as a student.

Upon learning you'd be a tridirector: I cried a ton. I'm a crier. Combine that with last year's tridirectors telling me I was going to spend the next year of my life doing a job I'd been dreaming of and you get an abundance of happy tears.

Favorite Mizzou tradition: Walking through the Columns at the beginning and end of one's time here. I love the symbolism of entering and exiting the monumental time in an individual's life.

Favorite dining hall meal: Anything involving Dobbs potato chips.

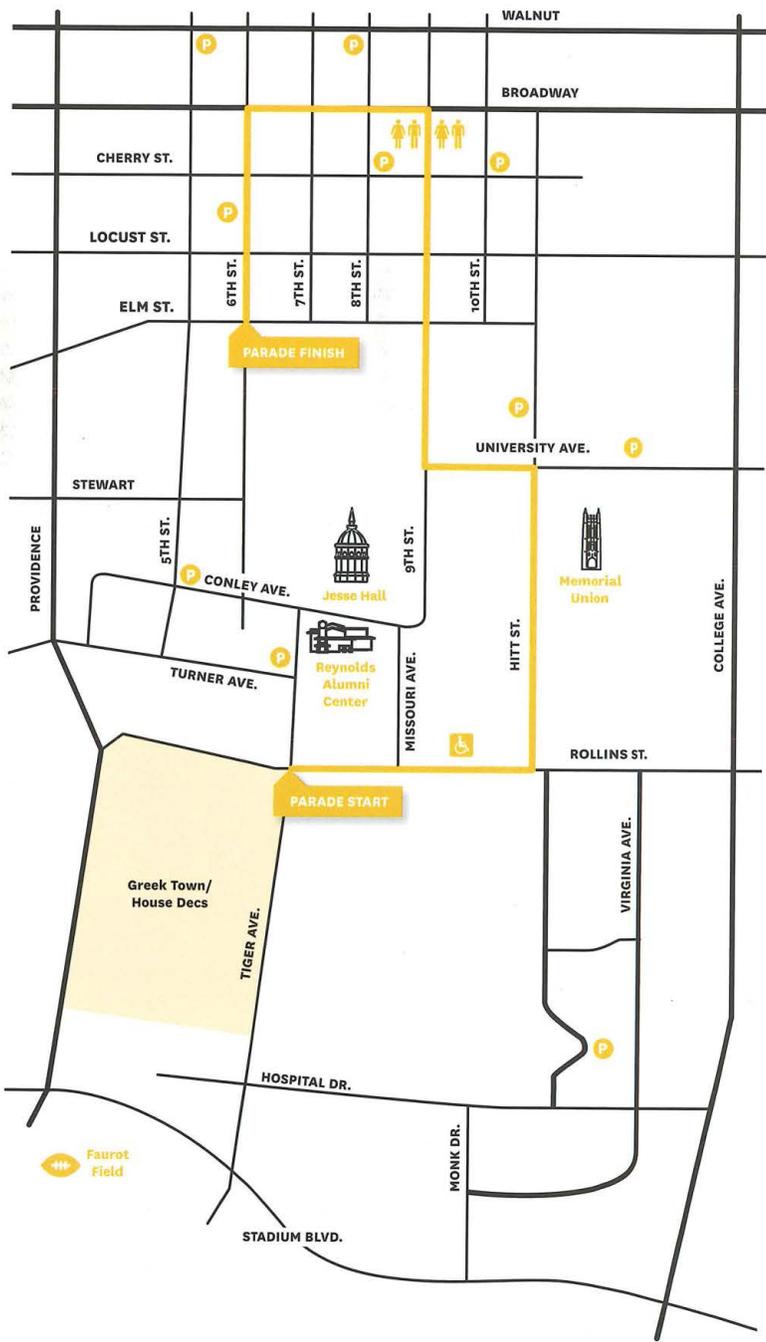
Why you chose Mizzou: Coming to Mizzou Homecoming as a child sparked my interest in becoming a Tiger. As I grew older, I realized the infectiousness and unparalleled love Mizzou's students and faculty have for the university.

Dream job: Becoming a Christian-music artist or singing full time with a worship team like Hillsong.

Who inspires you: Steerco adviser Aly Friend, BS '12. She is a phenomenal example of leadership, kindness and integrity.



2017 Parade Route



KEY

- PARKING
- RESTROOMS
- ACCESSIBLE SEATING

Homecoming Events

Check mizzou.com/homecoming for details and updates.

Oct. 8
Homecoming 5K Run
 Visit mizzou.com/homecoming for details.

alumni (must be 21 or older). Reconnect, celebrate and learn how to get involved.

Oct. 9-12
Homecoming Blood Drive
 11 a.m. - 7 p.m., Hearn Center
 This event is one of the largest college-based blood drives in the nation. Donate at Mizzou in October, or visit mizzou.com to donate at a partnering location.

Campus Decorations
 6-9 p.m., Greektown
 Stroll through Greektown to see fraternities' and sororities' take on the theme, Truman's Traditions.

Oct. 16-18
Talent Show
 6:30 p.m., Jesse Auditorium
 Mizzou's got talent! Watch students sing, dance and joke on stage. Can't make it to the show? Watch live at mizzou.com.

Spirit Rally
 8 p.m., Traditions Plaza
 Rev up for the big game with Truman the Tiger, Mizzou Spirit Squads and Marching Mizzou.

Oct. 19
Legion of Black Collegians Homecoming Ball
 Location TBD
 Take part in a tradition dating to the 1980s. Enjoy food and fellowship as the 2017 Legion of Black Collegians Homecoming Court is revealed.

Stroll Off
 8 p.m., Jesse Auditorium
 National Panhellenic Council organizations face off to see who can stroll and step the best.

Oct. 20
LGBTQ Social
 4 p.m. - 7 p.m., Top Ten Wines
 Mizzou's LGBTQ Resource Center holds its first Homecoming social to welcome friends and

Oct. 21
Parade
 Campus and Downtown Columbia
 Get pumped up and show your Tiger pride as the parade tramps through campus and downtown Columbia. The parade features floats, bands from across the state and candy for the kids.

Football Game
 Memorial Stadium
 Cheer on your Tigers as they take on the Idaho Vandals, and stick around during halftime to find out who becomes the 2017 Homecoming King and Queen.

MISSOURI
TIGERS

ZOU



ZOU-TOPIA About two hours before the game, gather with fans on the east side of Memorial Stadium for the pregame Tiger Walk. Cheer players and coaches as they walk along Mick Deaver Memorial Drive toward Truman's Landing and into the locker room.

GO FOR THE GEAR

In the market for black-and-gold gear like this plush tiger or foldable furniture? The Mizzou Store located in the MU Student Center has you covered from argyles to zipper hoodies. Or visit themizzoustore.com.

MAKING A TOP TAILGATE

Share your top tailgate recipe or favorite memory of Mizzou tailgating for a chance to win some of the Mizzou merchandise featured here. Enter before Sept. 30, 2017, at mizzou.com/tailgate.

ICE, ICE, BABY

Mizzou's first four home games are in September, so be sure to stock up on ice. Local supplier Tiger Ice sells an average of 70,000 pounds on game days.

INCOMING!

Think you've mastered cornhole, washers or ladder toss? Challenge yourself by holding a beverage during play. But watch out for errant footballs bouncing into your turf.





ANATOMY OF A TAILGATE

SHANE EPPING

BENGAL BUS To do it big, you need a rig. Many Mizzou fans cruise to tailgate locations in busses and RVs decked out in black and gold. You might see Doug Whitworth, BS BA '92, of Emery Sapp and Sons Inc., at the wheel of this party wagon.

Pre- and post-game revelry is a college football tradition dating back to the sport's sepia-toned origins. Over the years, however, tailgating has evolved into a culinary, technological and recreational extravaganza. Follow that charcoal aroma to Memorial Stadium's Lot C, where Truman and friends celebrate a Tiger victory with a rip-roaring pigskin shindig. — *Marcus Wilkins*

GRILLMASTER

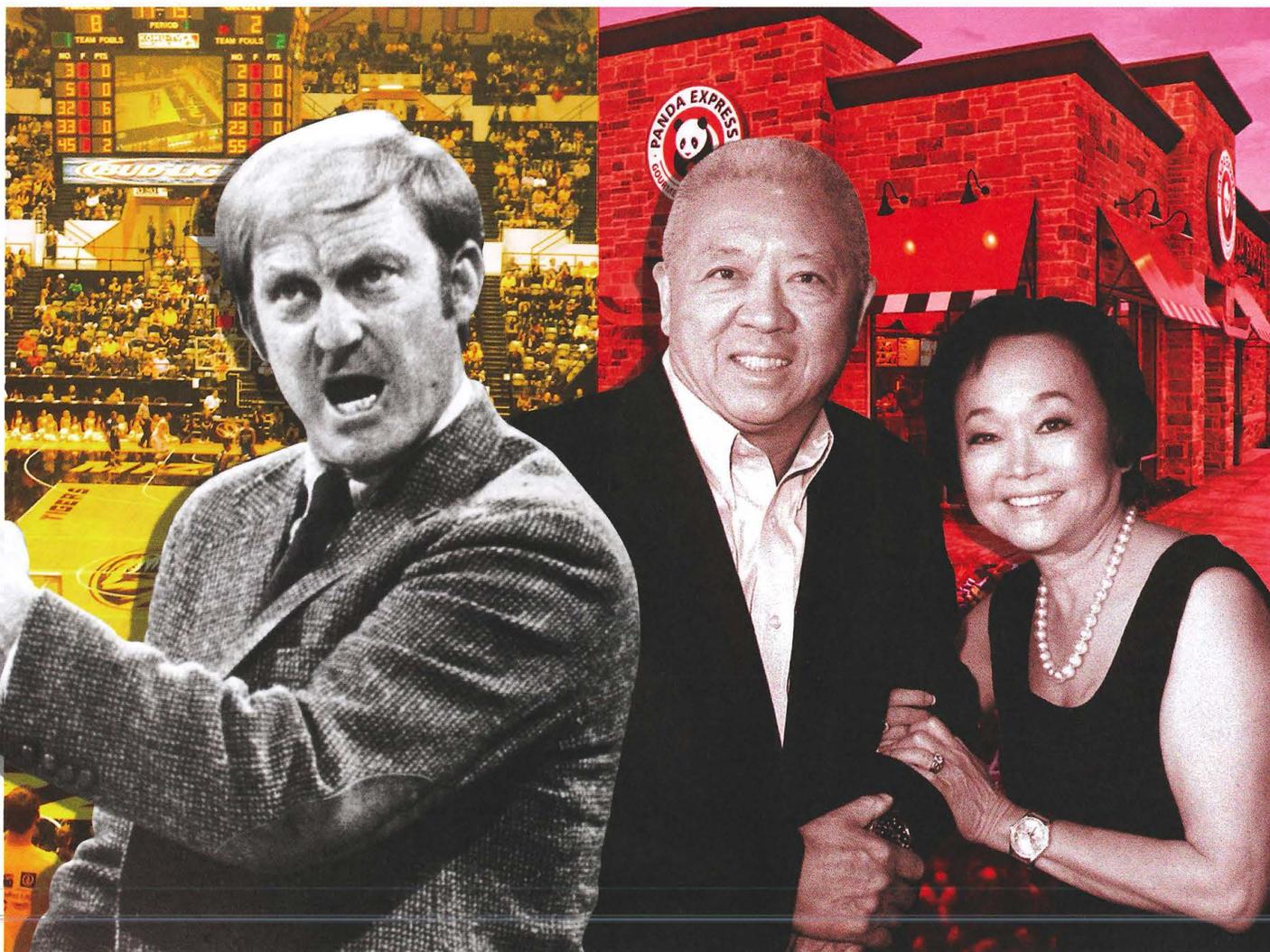
Truman is handy around open flames. Perhaps that's why he arrives at football games in a 1950s-vintage Boone County fire truck known as Truman's Taxi.

TURN IT UP Crank up "Fight Tiger" and "Every True Son" just before kickoff to get the crowd pumped.

TIGER STRIPES OR GRILL MARKS?

Deep-fried turkey, wood-fired pizza, succulent sushi spreads or traditional brats and burgers — you'll find all of the above at a Tiger tailgate. Fanatical foodies prep on Fridays for Saturday's feast.

←SUPERFANS From left: Luke Dinsdale, Lauren Karr, BJ '07, Stephanie Angerer, BS '05, JD '08, Kennedy Karr, Aaric Doyle-Wright, Randy Angerer, BS '05, Hampton Angerer, Geoff Karr, BS '06, Truman, Kenny Douglas, Ryan Gavin, BJ '07.



Their High Fame Shall Last

The Mizzou Homecoming Hall of Fame's newest inductees include a coaching icon and restaurant giants.

When 5,606 newly minted MU graduates walked across the stage in May, they joined the ranks of more than 305,000 living Mizzou alumni worldwide. The Mizzou Homecoming Hall of Fame annually honors a select few high-achieving alumni who have demonstrated a lifelong commitment to excellence in their chosen field. During Homecoming weekend, the Mizzou Alumni Association inducts the new hall of fame class members, who serve as Homecoming grand marshals. "This year's honorees embody the spirit of the Homecoming Hall of Fame and serve as inspiring examples of how Tigers go on

to change the world after they leave campus," says Todd McCubbin, executive director of the Mizzou Alumni Association. Meet the 2017 class:

Norm Stewart, BS Ed '56, M Ed '60

Norm Stewart's place in Mizzou sports lore would be secure even if he never set foot on campus after graduation. The pride of Shelbyville, Missouri, lettered in basketball and baseball from 1954-56 and pitched for the 1954 MU baseball team that won the NCAA College World Series. After playing in the Bal-



timore Orioles' farm system and suiting up for the St. Louis Hawks of the NBA, Stewart got his first coaching job at the State College of Iowa before returning to his alma mater in 1967 to coach the men's basketball team. During his 32-year head coaching tenure (634-333 overall), "Stormin' Norman" led MU to eight Big Eight Conference championships, six Big Eight tournament titles and 16 NCAA Tournament appearances, including two trips to the Elite Eight. To this day, Stewart remains synonymous with Mizzou hoops; the Tigers play on Mizzou Arena's Norm Stewart Court.

Andrew Cherng, MS '72, and Peggy Cherng, MS '71, PhD '74

Mizzou students come from across the country and around the world. Born in China, Andrew Cherng lived in Taiwan and Japan before earning a bachelor's degree from Baker University in Kansas. His wife, Peggy, was born in Myanmar and raised in Hong Kong before attending Baker, where the couple met. The pair then earned graduate degrees at Mizzou. Andrew and Peggy married shortly afterward and in 1983 founded Panda Restaurant Group, which operates the Panda Express chain of more than 1,900 restaurants. Known for its quick-service Asian cuisine, as well as its commitment to employees' personal development, Forbes named Panda Restaurant Group one of America's best employers. The Cherngs also are members of the National Restaurant Association's Hall of Fame. With a Panda Express restaurant just minutes from Jesse Hall at 91 Conley Road, the Cherngs' spirit is never far from campus. — *Eric Ferguson*

HALL OF FAME HIGHLIGHTS

1954 - Norm Stewart plays on MU's College World Series champion baseball team.

1956 - Stewart graduates from MU.

1967 - Stewart becomes Mizzou's head men's basketball coach.

1971 - Peggy Cherng earns master's degree at Mizzou.

1972 - Andrew Cherng earns master's degree at Mizzou.

1974 - Peggy Cherng earns doctorate at Mizzou.

1975 - Andrew and Peggy Cherng marry.

1976 - Stewart wins first of eight Big Eight regular-season championships.

1978 - Stewart wins first of six Big Eight tournament championships.

1983 - The Cherngs open the first Panda Express.

1994 - Stewart leads Tigers to 14-0 record in the Big Eight, a conference title and an Elite Eight appearance.

1999 - Stewart retires as head men's basketball coach with a 634-333 MU record.

2007 - Stewart inducted into the National Collegiate Basketball Hall of Fame.

2011 - Panda Express opens its first global restaurant in Mexico City.

2017 - Mizzou Alumni Association induct Cherngs and Stewart into Mizzou Homecoming Hall of Fame.



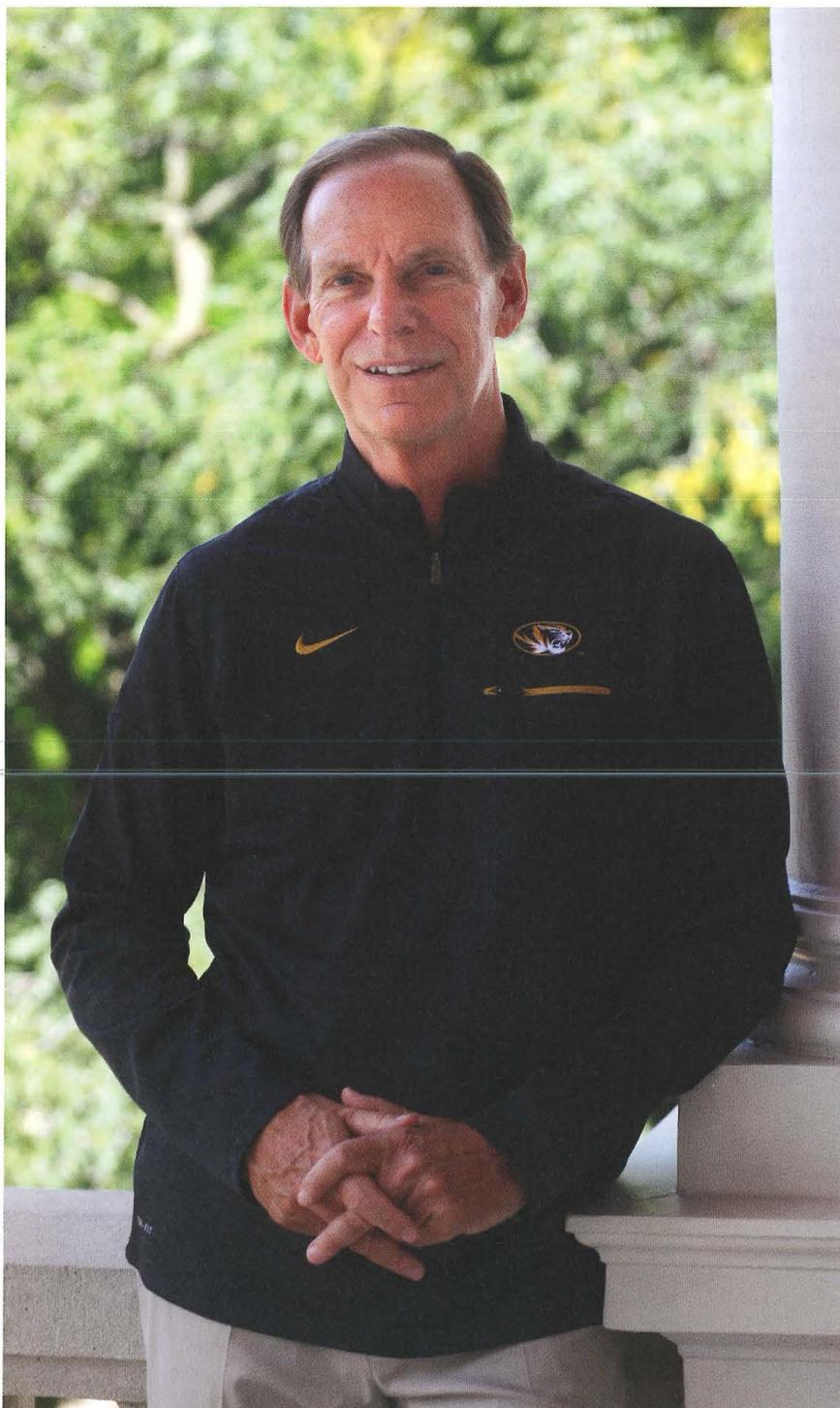
Join Tigers from the St. Louis area for the Mizzou Fight Tiger Run!

Sunday, Oct. 29, 2017
Race Time: 9 a.m.
Tower Grove Park

Tigers of all ages and abilities are invited to show their stripes by participating in one of the race options. This year we are offering 5K and 10K, plus a 1-mile fun run/walk! Registrants for each race receive an event shirt, finisher medal, plus other Mizzou treats and surprises.

REGISTER AT MIZZOU.COM/STLRUN

Making His Mark



† Bruce McKinney, BS BA '74, recently retired vice president for Hallmark Cards Inc., serves as Mizzou Alumni Association president.

New Mizzou Alumni Association President Bruce McKinney, BS BA '74, made several life-changing discoveries as a Mizzou student.

First, he discovered that his intended major wasn't quite for him. "I was halfway decent in math and science," McKinney says. "But I was always concerned that aptitude tests would say one of my weaknesses was spatial relations — and I was in civil engineering."

Thankfully, McKinney discovered a love of business early on. Through his fraternity, both as recruitment chair and president, he practiced business skills such as sales, management and leadership. Before long, he changed his major to business administration.

On a personal level, McKinney, who is from a family of Tigers, met his future wife, Teresa Keith McKinney, BS Ed '75.

Mizzou also proved to be a launch pad. It gave McKinney the skills to undertake a master's of business administration at Northwestern University. At MU, he formed a management philosophy that served him throughout a 40-year career in corporate and nonprofit finance: It's not just what you do but how you do it.

McKinney's career took him first to Marathon Oil, in Houston; then to Kansas City at Marion Merrell Dow (now Sanofi-Aventis), Hallmark Cards Inc. and the Community Blood Center of Greater Kansas City, where he recently retired as vice president and chief financial officer.

As an alumnus, McKinney has served on the MAA Governing Board and the Intercollegiate Athletics Committee. And now, as MAA president, the Overland Park, Kansas, resident wants to help MAA chapters engage with a broader set of alumni through career networking and chapter-based community volunteerism. He'll also listen to alumni concerns and advocate for them in a way that builds credibility with other alumni and MU's administration.

"There's a whole new university leadership team coming in; it's a phenomenal opportunity for MAA," McKinney says. "It's our chance to shine." — Erik Potter



Class Notes

1950

★**Don Wedewer, BS Ed '50, MA '52**, of Charleston, S.C., is the subject of *The Bravest Guy: A True Story of Overcoming Impossible Odds* (CreateSpace, 2016) by his son Harry Wedewer.

★**Lawrence Lewis, BA '54, MA '55**, of Osceola, Mo., wrote *Osceola: A Town on the Border* (CreateSpace, 2016).

1960

★**Carolyn Mulford, MA '62**, of Columbia wrote *Show Me the Sinister Snowman* (Cave Hollow Press, 2017).

★**John Logsdon, BS PA '63**, of Tampa, Fla., lectured on miscegenation laws in the U.S. from 1691-1967 at the University of South Florida.

★**Homer Wampler, BS BA '63, JD '65**, of Springfield,

Mo., wrote *The Gun Law Handbook* (Self Published, 2017).

★**David Potts, BA '66, and Janet Nichols Potts, BS Ed '66**, of Mexico, Mo., celebrated their 50th wedding anniversary July 16, 2017.

★**H. Roger Grant, MA '67, PhD '70**, of Central, S.C., wrote *Electric Interurbans and the American People* (Indiana University Press, 2016).

★**Alois Kertz, BS Ag '67**, of St. Louis received the Missouri Dairy Hall of Honors Meritorious Service Award.

★**Marjorie Slankard, BA '67**, of La Jolla, Calif., retired from Columbia University as professor of medicine.

★**Conrad Deneault, BS Ed '68**, of St. Petersburg, Fla.,

a former Mizzou football and baseball player, was inducted into the Tabor Academy (Marion, Mass.) Sports Hall of Fame.

★**Larry Moore, MA '68**, of Belton, Mo., an anchor, editor and reporter with KMBC-TV for 40-plus years, was inducted into the Missouri Broadcasters Hall of Fame.

1970

★**★Howard Marshall, BA '70**, of Fulton, Mo., wrote *Fiddler's Dream: Old-Time, Swing, and Bluegrass Fiddling in Twentieth-Century Missouri* (University of Missouri Press, 2017).

★**★Larry Randa, BJ '70**, of Lemont, Ill., retired after 47 years in print, broadcasting and public relations in Michigan and Illinois. During his career, he received three Peter Lisagor awards from the Chicago Headline Club

and served as president of Suburban Newspapers of America.

★**Stephen Turner, BJ '73**, of Chesterfield, Mo., co-owns Solomon Turner Public Relations, which was named one of the top PR firms in St. Louis by *St. Louis Small Business Monthly*.

★**Oline Cogdill, BJ '74**, of Plantation, Fla., is managing editor of Nova Southeastern University's *Horizons* magazine, which took first place in the trade/specialty category in the Sunshine State Awards journalism competition.

★**Glenn Berry, M Ed '76, EdD '86**, of Lee's Summit, Mo., wrestling coach at Rock Bridge High School for 13 years and Blue Springs High School for seven years, was inducted into the Missouri Wrestling Association Hall of Fame.

MAA Goes Mobile

The Mizzou Alumni Association app puts the benefits of MAA membership in your pocket. The new, free app for iOS and Android allows you to track and redeem benefits; receive alerts about exclusive opportunities; see a calendar of association events; test your Mizzou IQ to win prizes; find old friends with the alumni directory; and capture and share your MU experience. Download the app from Google Play or the App Store.



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CHICAGO

DALLAS

DENVER

UNITED AIRLINES

★**Lewis Diuguid, BJ '77**, of Kansas City, Mo., wrote *Our Fathers: Making Black Men* (Universal-Publishers, 2017).

Ken Smith, BA '78, of South Bend, Ind., is serving a two-year term as faculty president at Indiana University South Bend.

1980

Edward Cassiere, BJ '81, of Metairie, La., assistant athletics director for communications at Xavier University of Louisiana, received a 25-year award from the College Sports Information Directors of America and a Grant Burger Media Award from the American Volleyball Coaches Association.

Paul Brunner, BA '82, of Eolia, Mo., is executive director of Options for Women Pregnancy Resource Center in Bowling Green, Mo.

★★**Jackie Woodward, BJ '83**, of Pinehurst, N.C., senior vice president and chief marketing officer for Krispy Kreme Doughnuts, serves on the board for

Craft Brew Alliance Inc.

Karlin Linhardt, BJ '84, of Humboldt, Minn., is senior vice president for marketing, North America, for the Subway restaurant chain.

Lee Tuveson, BS BA '89, of Dardenne Prairie, Mo., is CEO of New Directions Behavioral Health.

1990

★★**Ron Sammons, BA, BJ '95**, of Maitland, Fla., is director of communications and public relations for the Florida Veterinary Medical Association board.

John Heithaus, BA '97, of Glencoe, Mo., under the name of John Herrick, wrote *Beautiful Mess* (Segue Blue Publishing, 2017).

David Kruger, MA '98, of Laramie, Wyo., wrote *J. C. Penney: The Man, the Store, and American Agriculture* (University of Oklahoma Press, 2017).

Cicely Miederhoff Lubben, BS '98, of St. Louis is an attorney in Tucker Ellis LLP's mass tort and prod-

uct liability practice.

Christa Westerberg, BA '98, of Stoughton, Wis., is a partner at Pines Bach LLP.

★**Michael Hodge, BS Ed, BS Ed '99**, of St. Charles, Mo., an adjunct professor at St. Louis University, is on the World Pediatric Project board.

Nikole Potulsky, BA '99, of Portland, Ore., released her debut album *You Want to Know About Me* (Wish Bird Records, 2017).

2000

Lee Kravetz, BJ '00, of San Mateo, Calif., wrote *Strange Contagion* (Harper Wave, 2017).

Christian Henley, BS BA '01, of Chesterfield, Mo., a wealth management adviser for Northwestern Mutual, is a member of the Million Dollar Roundtable, an association of life insurance producers.

Terrence O'Toole, BA '01, of St. Louis, an attorney at Williams Venker & Sanders LLC, received the Lon O.

Hocker Award for exemplifying professionalism, high ethical conduct and demonstrated proficiency in the art of trial advocacy.

Ian Guerin, BJ '04, of Myrtle Beach, S.C., wrote *The Beach Ball Classic: Premier High School Hoops on the Grand Strand* (The History Press, 2016).

Rachel Holtzman, BJ '04, of Hawthorn Woods, Ill., an author who co-writes cookbooks and lifestyle books with well-known chefs and celebrities, was named to the Double Chai in the Chi: 36 Under 36, a list of young Jewish movers and shakers in Chicago.

2010

★**Alexandra Olgin, BJ '13**, of Princeton Junction, N.J., is a reporter for WFAE 90.7 FM, a non-profit public radio station in Charlotte, N.C.

Lucas Peterson, BS '16, of Springfield, Mo., joined AmeriCorps St. Louis and is helping the recovery in Sevier County, Tennessee, following a wildfire.

Weddings

Justin Napier, BA '09, and ★**Amy Kluber, BJ '11, MA '13**, of Woodbridge, Va., May 26, 2017.

Faculty Deaths

★★**William Stringer, PhD '63**, of Rocheport, Mo., June 22, 2017, at 84. He served the MU College of Agriculture, Food and Natural Resources in multiple capacities, including professor, department chair and associate dean.

Deaths

★**Betty Boylan Brown, BJ '40**, of Rockville, Md., Nov. 4, 2016, at 98. She was director of public relations for the National College of Education and later worked for the National Bureau of Standards Laboratories.

★**Margery Rosen Mendelsohn, BJ '42**, of Austin, Texas, May 31, 2017, at 96. She was an Alpha Epsilon Phi member.

★**Shirley Evans Kircher, BS HE '45**, of Colorado Springs, Colo., May 19, 2017, at 92. She was an adult education teacher



BECOME A FRIEND OF *Mizzou Botanic Garden*

- Help keep our campus beautiful.
- Annual membership, \$25
- Lifetime membership, \$1,000
- Tribute Tree, \$2,500 or more
- Tribute Bench, \$5,000 or more

Gifts are tax deductible to the extent allowed by law.



Mizzou Botanic Garden
University of Missouri

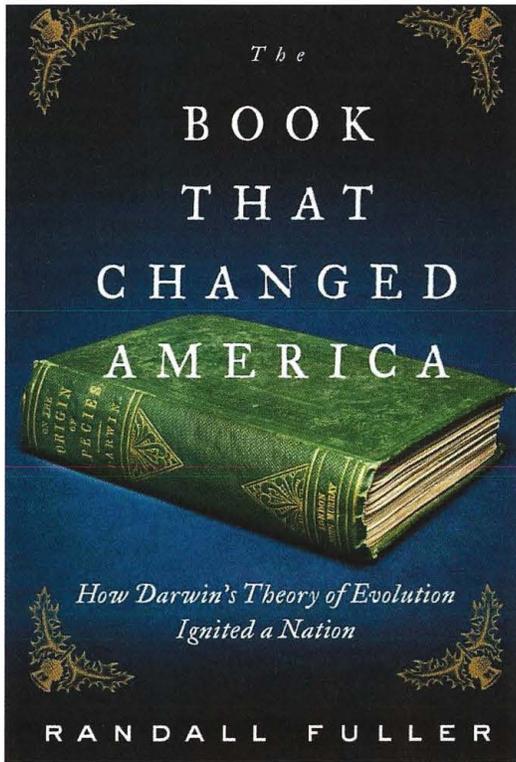
For more information: (573) 882-1830 or gardens.missouri.edu



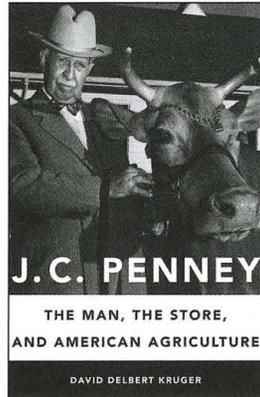
ALUMNI BOOKSHELF

Mizzou Alumni Writers Rack Up New Titles

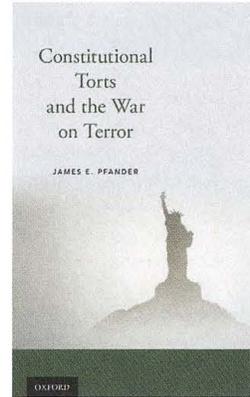
Authors hailing from departments across campus keep the printed word prominent. Spanning genres from history to fiction, this new crop of volumes comes out of academic and popular presses.



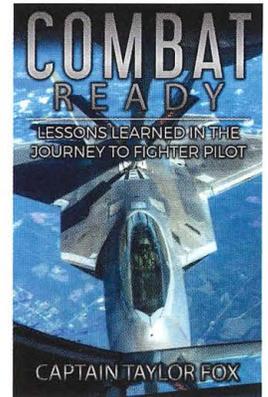
The Book That Changed America: How Darwin's Theory of Evolution Ignited a Nation by Randall Fuller, BA '86 (Viking, 2017)



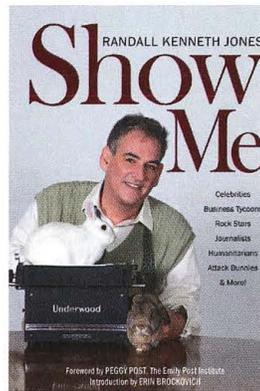
J.C. Penney: The Man, the Store, and American Agriculture by David Delbert Kruger, MA '98 (University of Oklahoma Press, 2017)



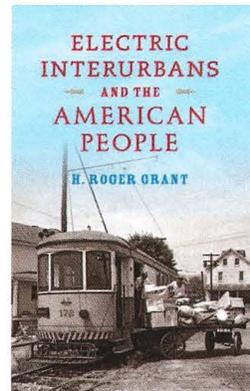
Constitutional Torts and the War on Terror by James E. Pfander, BA '78 (Oxford University Press, 2017)



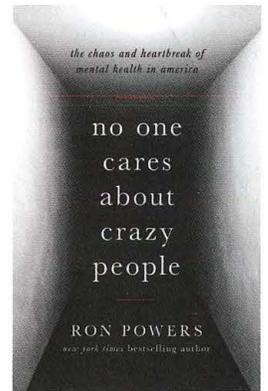
Combat Ready: Lessons Learned in the Journey to Fighter Pilot by Taylor Fox, BS BA '09, MBA '10 (Taylor Fox, 2016)



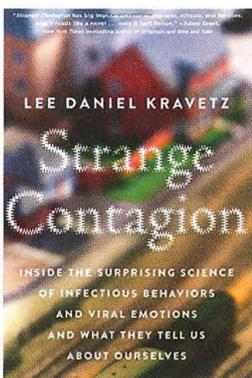
Show Me: Celebrities, Business Tycoons, Rock Stars, Journalists, Humanitarians, Attack Bunnies & More! by Randall Kenneth Jones, BA '84 (Smart Business Books, 2016)



Electric Interurbans and the American People by H. Roger Grant, MA '67, PhD '70 (Indiana University Press, 2016)



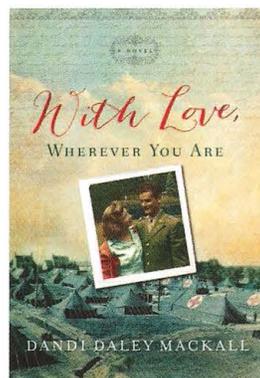
No One Cares About Crazy People: The Chaos and Heartbreak of Mental Health in America, by Ron Powers, BJ '63 (Hachette Books, 2017)



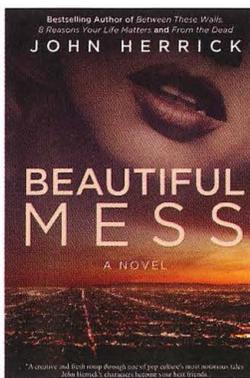
Strange Contagion by Lee Daniel Kravetz, BJ '00 (Harper Wave, 2017)



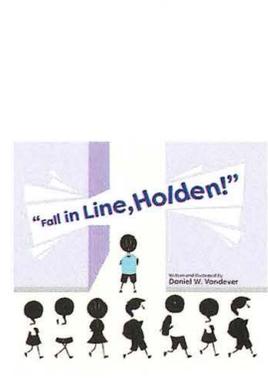
Another Man's Ground by Claire Booth, BJ '96 (Minotaur, 2017)



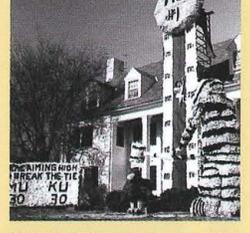
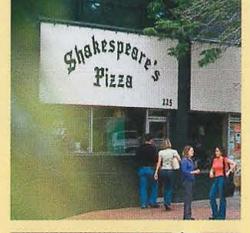
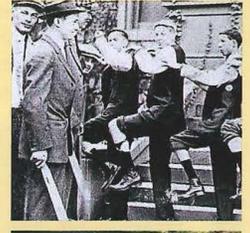
With Love, Wherever You Are by Dandi Daley Mackall, BA '71 (Tyndale House Publishers, 2017)



Beautiful Mess by John Herrick, BA '97 (Segue Blue Publishing, 2017)



"Fall in Line, Holden!" by Daniel Vandever, BJ '09 (Salina Bookshelf, 2017)



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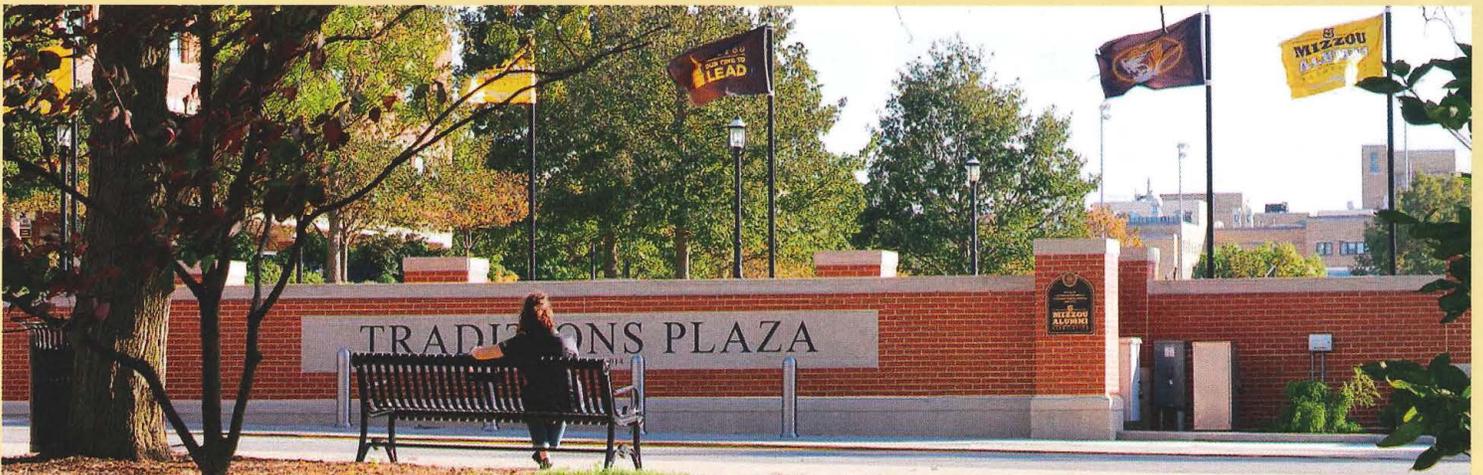
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Reaching While Staying Grounded

Wendy Zoog isn't trying to be funny when she says she has "a leg up" on other Kansas City-area yoga teachers.

After suffering through arthritic hips in her 30s, she underwent her first replacement surgery at the age of 41. She had her second 14 weeks later. The experience could have been catastrophic for someone as active as Zoog, BSN '95.

"I knew what to expect because of my nursing experience around post-operative patients with hip replacements," says Zoog, a nurse in several fields before founding Wendy Zoog Yoga. "I understood the foundation, the anatomy and the physiology. But once I had my hips replaced, I thought, yoga could be a gift I could share."

Zoog has always been naturally athletic. During her days as a Delta Delta Delta member living in a Broadway loft with seven sorority sisters, she rode her bike to campus and to the Columbia Athletic Club, where she taught aerobics classes.

She comes by it honestly. Her dad, Jim Whittaker, BA '67, MA '71, was a standout defensive back for Dan Devine's 1966 Sugar Bowl team.

"The first time I tried yoga, it forced me to slow down," says Zoog, who describes her yoga style as "deliciously well balanced" between invigorating and meditative. "When we exercise, sometimes we get to moving so quickly we don't think, 'Gosh, this feels funny in my shoulder,' or 'This feels good and I'm going to stay like this longer.'"

Zoog teaches at multiple studios in and around Kansas City. Her calendar is available at wendyzoog.com.

"We have a tendency to grab the racket or grab the club and just go," Zoog says. "You only get one shot with your body. You've got to take good care of it."

— *Marcus Wilkins*

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and director.

★**Helen Proctor, BA '46**, of Moberly, Mo., June 17, 2017, at 95.

★**William Kennedy, BJ '49**, of Woodsboro, Texas, May 7, 2017, at 91. A World War II veteran, he was a sports writer, editor of six newspapers and the Woodsboro postmaster.

★**Willie Stockton, BS BA '49**, of Toledo, Ohio, March 31, 2017, at 91. A World War II veteran, he worked at IBM and later owned a small business.

★**Everett Terry, BJ '49**, of Denver May 31, 2017, at 99. A U.S. Army World War II veteran, he was a magazine editor in New York.

★**Claire Weaver Cox,**

BS Ed '50, of Leawood, Kan., May 27, 2017, at 89.

★**Guy Erb, BS BA, BJ '50**, of Memphis, Tenn., May 30, 2017, at 92. A Sigma Alpha Epsilon member and a U.S. Army Air Corps World War II veteran, he was a home builder and Realtor.

★**Monty Kisslinger, BS BA '50**, of Manchester,

Mo., March 6, 2017, at 90.

★**Robert Raisch, BSF '50**, of Bradenton, Fla., April 10, 2017, at 90. He was a U.S. Navy World War II veteran.

★**D.W. Calvert, BS CiE '52**, of Hideaway, Texas, April 1, 2017, at 90. A U.S. Army World War II veteran, he was executive president and director of the Williams Companies.

★**Kenneth Wilson, BS Ed '52**, of Allison Park, Pa., May 25, 2017, at 86. A U.S. Army veteran, he was an executive for Westinghouse and a financial adviser for the Pittsburgh Pirates.

★**Glenn Froning, BS Ag '53**, of Lincoln, Neb., Jan. 29, 2017, at 86. He served in the poultry science, animal science, and food science and technology departments at the University of Nebraska.

★**Stanley Stern, BA '53**, of Springfield, Ill., June 10, 2017, at 85. He owned and operated furniture stores and a real estate business.

★**Georger Hutton, BS CiE '54**, of Honolulu June 12, 2017, at 84. A U.S. Army veteran, he was a founding member of Charles Pankow Inc., a construction firm.

★**Harold Roberts, BS BA '55**, of Houston May 25, 2017, at 87. A U.S. Army Korean War veteran, he worked for Mitchell Energy Development Corp.

★**Donald Cohagan, BA '56, MD '60**, of Bentonville, Ark., March 16, 2017, at 82. He practiced family medicine for 45 years.

★**Duncan Matteson, BS BA '56**, of Palo Alto, Calif., May 12, 2017, at 82. A Sigma Chi member and U.S. Air Force veteran, he

Events

September

9, Tiger football at home vs. South Carolina
mutigers.com

21, MAA Governing Board meeting
mizzou.com

22-23, Leaders Weekend
mizzou.com

October

14, Tiger Tailgate, Athens, Georgia
mizzou.com

16-24, Tourin' Tigers, Normandy
mizzou.com/travel

20, Homecoming Hall of Fame awards
mizzou.com/homecoming

21, Homecoming
mizzou.com/homecoming

27-28, Griffiths Leadership Society conference
mizzou.com

29, Mizzou Fight Tiger Run, St. Louis
mizzou.com/stlrun

November

3, 50th Faculty-Alumni awards
mizzou.com

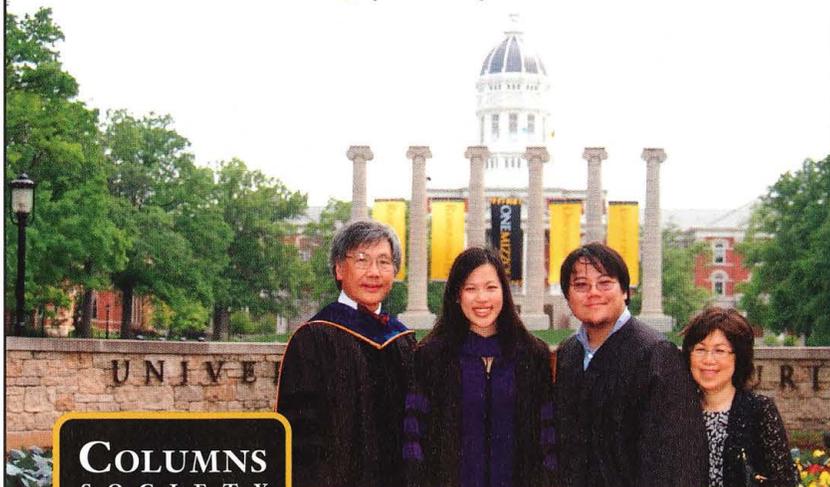
10, MAA Governing Board meeting
mizzou.com

18, Tiger Tailgate, Nashville
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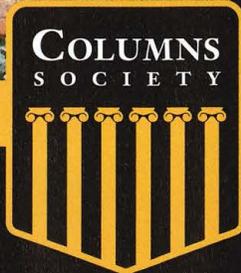
I said I would give it one year.

JAMES LIU
BS '73, MS '76, PhD '81

When Hong Kong native James Liu arrived on the MU campus in August 1971, the heat and humidity proved a shock. Forty-six years later, James not only holds three degrees from Mizzou, but he also is the proud father of two Tigers and is a Columns Society member who proudly supports MU year after year.



LEFT TO RIGHT: JAMES LIU, BS '73, MS '76, PHD '81; DAUGHTER STEPHANIE, JD '13; SON PHILLIP, MBA '16; AND WIFE MELANIE.



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Woman of the Cloth

† Elsa Hennings, BS ME '82, right, and colleague Rob Sinclair take a break from installing parachutes that Hennings engineered for use on the Orion spacecraft.

Elsa Hennings, BS ME '82, has spent her career designing parachutes for Navy aircraft and NASA spacecraft. You can find her work on Mars, where it landed with the Mars Pathfinder and Exploration Rover missions.

But Hennings's proudest achievement float-

ed down to Earth when, in 2010, a Navy plane caught fire, and the crew bailed out safely using her parachutes. She tried to reach crew members to learn how the parachutes performed and how they might be improved, but she never could make contact.

A few years later, Hennings, the Navy's chief engineer for parachute systems, gave a presentation of her group's work to aviators visiting the base in China Lake, California. Afterward, a man in his 30s walked up, took her hand, and, with tears in his eyes, thanked her.

"No problem," she said, confused. "I give presentations all the time."

"No, I want to thank you for saving my life," he said. He was one of the men from the plane.

Hennings stood there, shaken, thinking, "Here's a man with a family he got to go home to because of what I did." In that moment, she knew she'd spent her career in the best possible way.

Her colleagues agree.

In 2017, Hennings's peers gave her the biannual Theodor W. Knacke Aerodynamic Decelerator Systems Award. Since its inception 38 years ago, 23 people have won it. Hennings is the first woman and the first recipient from the Navy.

—Erik Potter

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co-founded Stanford Financial Co. and Matteson Investment Corp.

★**Allan Rohman, BS BA '56**, of Lee's Summit, Mo., May 20, 2017, at 82.

★**Samuel Sayers, BA '56**, of Southern Pines, N.C., May 28, 2017, at 83. A member of Mizzou's 1954 NCAA champion baseball team and a Vietnam War veteran, he was a flight instructor in the U.S. Navy.

★**Kenneth Gumper, BS BA '57**, of Weldon Spring, Mo., Dec. 6, 2016, at 81. He worked at McDonnell Douglas Corp.

★**John Reid, BS BA '57**, of Sugar Mountain, N.C., June 10, 2017, at 81. A Phi Gamma Delta member and a Vietnam War veteran, he spent 20 years in the U.S. Air Force before working at a brokerage firm that eventually became Wachovia Securities.

★**Henry Curry, BS ME '58**, of Miramar Beach, Fla., Nov. 15, 2016, at 81.

★**Vincent Tyndall, BA '58, JD '60**, of Springfield, Mo., June 13, 2017, at 82. He taught business law at MU before joining Citizens (now Commerce) Bank and later joining Miller, Fairman, Sanford, Carr & Lowther, where he practiced in the areas of trusts and estate planning.

★★**Lyle Hedges, BS Ed '59, M Ed '65**, of Columbia May 31, 2017, at 80. A U.S. Navy veteran, he was a supervisor with the Missouri Department of Elementary and Secondary Education.

★**Malcolm Robertson, BA '60, JD '63**, of Joplin, Mo., May 13, 2017, at 79.

★**Donald Wilson, BA '60, JD '64**, of Chicago May

11, 2017, at 78. He was a lawyer in St. Louis, Zurich and Chicago.

★**Guner Eruren, BS CIE '61**, of Little Rock, Ark., June 19, 2017, at 85. He was a U.S. Army veteran.

★**Gerald Hancock, BS Ag '61**, of Sedalia, Mo., June 17, 2017, at 80. A U.S. Navy veteran, he was a banker and a farmer.

★**Justin Holt, BS Ag '61**, of Gallatin, Mo., May 25, 2017, at 86.

★★**Homer Maassen, BS BA '61**, of Linn, Mo., May 20, 2017, at 83. A U.S. Army Korean War veteran, he was a banker.

★★**Susan Sudholt Finley, BS Ed '62**, of Des Peres, Mo., June 1, 2017, at 76. She was a Zeta Tau Alpha member.

★**Richard Hearnese, BS CIE '62**, of Kirkwood, Mo., May 12, 2017, at 78. He was a civil engineer.

Ann Richardson Kuhlman, BS Ed '63, of Apex, N.C., May 21, 2017, at 77.

★**Michael Pfefferkorn, M Ed '63**, of St. Louis May 11, 2017, at 77. He was a high school teacher.

★**William Bayer, BS Ed '64, M Ed '66**, of Columbia June 2, 2017, at 81. He was an investment broker.

★**Richard Burns, M Ed '64**, of Springfield, Mo., May 17, 2017, at 78. He supervised the special education program for Springfield Public Schools.

★**Larry Nolte, BS Ed '64, M Ed '70**, of Fulton, Mo., June 11, 2017, at 75. He was an elementary school principal.

★**Thomas Ringkob, MS**

'64, of Reno, Nev., May 25, 2017, at 77. He was an Alpha Gamma Rho member and a World War II veteran.

Loren Zehr, MD '64, of Harrisonburg, Va., March 19, 2017, at 83. He practiced medicine in Youngstown, Ohio; and Sarasota, Fla.

★**Ronald Bottini, MA '66**, of San Jose, Calif., May 23, 2017, at 74. He was director of public information and marketing communications at De Anza College and later director of the news bureau at Santa Clara University.

★★**Ronald Shadwick, BS EE '66**, of Chesterfield, Mo., June 6, 2017, at 72.

★**Joe Winkelmann, BS BA '66**, of Newport Beach, Calif., May 29, 2017, at 73. A Phi Kappa Theta member, he was an advertising executive.

★**Joe Bell, BA '70**, of Blue Springs, Mo., Dec. 9, 2016, at 68. He was a U.S. Marine Corps veteran.

★**Burt Stoerker, BS ME '70**, of Ten Mile, Tenn., June 2, 2017, at 68. He worked for Tennessee Valley Authority and Bechtel Corp.

★**John Dieckhaus, BS Ed '72**, of Washington, Mo., May 17, 2017, at 67. He taught PE, coached and was the athletic director for Washington High School.

Linda White Bigby, M Ed '76, of Lee's Summit, Mo., June 30, 2017, at 67. She was director of special services in the Lee's Summit School District and a professor of education at the University of Central Missouri.

★**Nancy Lingafelter**

West, BS Ed '77, of Monroe, La., June 6, 2017, at 62. A Kappa Alpha Theta member and a Mizzou basketball player, she was an entrepreneur who operated multiple business ventures.

★**Joseph Musick, PhD '80**, of Monticello, Ark., Feb. 27, 2017, at 80. He was head of the Louisiana State University Rice Research Station.

★**Barbara Whitacre Rudolph, BS Ed '80**, of Bella Vista, Ark., June 16, 2017, at 84. She was a Kappa Alpha Theta member.

★**John Matteson, BS Ag '81**, of Columbus, Neb., May 21, 2017, at 58. He worked for Red Country International, Beller & Backes, Osecola Implement and Strobel Manufacturing.

Barbara Molette, PhD '89, of Atlanta March 9, 2017, at 77. She was an award-winning playwright

and professor for more than 50 years at Spelman College, Texas Southern University, Morgan State University, Baltimore City Community College and Eastern Connecticut State University.

★**Christopher Myers, BS '91**, of Osage Beach, Mo., May 11, 2017, at 86. A Phi Kappa Theta member, he was a partner at Lewis and Myers Investments Inc., and he owned Myers One-Hour Photo, Amante Pizza and Myers Conoco Bait and Tackle.

Samantha Crall, BA '14, of St. Louis Sept. 17, 2016, at 25.

★**Sarah Huber Foster, BS FW '14, MNR '16**, of Jamestown, Mo., May 1, 2017, at 25. She was an environmental and natural resources specialist for MU Extension 4-H.

★**James Larsen, BA '14**, of Libertyville, Ill., June 3, 2017, at 27.

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Dr. Tommy's Life and Times

† Starting in the 1950s, Tommy Macdonnell delivered thousands of babies in Marshfield, Missouri. In 1986, he joined the Missouri legislature and within a few years delivered a law guaranteeing smoke-free air in public places. Read more about "Dr. Tommy" at ozarksalive.com.

Tommy Macdonnell, BS Med '49, has long been in the business of bringing life into the world. And preserving it. As a beloved obstetrician, Macdonnell's smile was the first to welcome more than 4,500 babies born in Marshfield, Missouri. He founded a maternity hospital and modern clinic for local residents, but there's much more to the 94-year-old, whom locals affectionately refer to as Dr. Tommy.

Growing up in Marshfield, Macdonnell had always planned to follow in the footsteps of his father, also an obstetrician. But he was moved to enlist in the Army after the Japanese attacked Pearl Harbor in 1941. During World War II, he fought in the Battle of the Bulge and the D-Day invasion. Upon returning home, having earned a Silver Star and two Purple Hearts, he completed undergraduate coursework at MU and went on to medical school. After his residency at Kansas City General Hospital, he moved back home in the early 1950s to practice medicine.

Then, as now, tobacco use was a public health problem physicians couldn't ignore. By the 1980s, after more than 30 years of watching tobacco ravage his patients and neighbors, Macdonnell felt

he had to act. Instead of helping one patient at a time, he would protect their health through public policy. So, in 1986, he won a seat in the Missouri House of Representatives. Macdonnell was ahead of his time in preaching against the health threat of secondhand tobacco smoke.

In 1988, Macdonnell proposed the Clean Indoor Air Act, which would have barred smoking in public spaces and limited tobacco sales to minors. He not only had to educate the public and fellow legislators on the issues, he also had to battle the well-funded tobacco lobby. Macdonnell's first attempt failed, so he brought it back the next year. And the next. And the next, until 1991, when the proposal made it through the House and Senate. Alas, no final vote was taken.

In 1992, Macdonnell tried yet again, vowing to reporters: "I'm ready for them this time. I'm not going to be so nice." Despite tobacco industry lobbyists spending an estimated \$200,000 campaigning against the legislation, Macdonnell prevailed.

But winning wasn't the best part, Dr. Tommy says. "Truthfully, [the legislation] has saved thousands of lives." — *Kaitlyn McConnell*

A man in military camouflage gear is climbing a thick rope. He is wearing a tan t-shirt, camouflage pants, and brown boots. The background is dark, and the rope is a thick, braided brown rope.

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