

# mosaics



meet the future



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The College gratefully thanks the A&S Alumni Organization for financial assistance with the production of Mosaics magazine.

ON THE COVER: Pictured from the top, left to right, are Anne Holden, Ken Segelhorst, Kyle Gustafson, Holly Huelskamp, Alicia Miles, Laura Jennings and Justin McCurry. As they make a place for themselves in the real world, these national achievers are making the world a better place. Page 16. Cover photos by Rob Hill, Chris Detrick, Dan Glover and Don Guillot.



Working for a living doesn't get much better than serving as the CEO of a nationally known zoo. Alumnus Jeffrey Bonner enjoys interacting with the critters he oversees. Page 34.



PARTS OF A GREAT STORY

By Dean Richard B. Schwartz

Each year we review the accomplishments of our students, faculty and alumni with pride. While we are mindful of the aphorist Mason Cooley's injunction to "Boast quietly, with decorum," it is not always easy to be quiet about the impressive achievements of the members of the College family. As the principal college in a great university we carry many responsibilities: for the development of new knowledge, for the education of students who participate directly in the development of new knowledge, and for service and outreach to our community, country and world.

Mosaics chronicles our successes in meeting those responsibilities, and this year's successes are truly exceptional. Our only regret is our constant regret — namely, that we are constrained by page space and cannot record every event and every accomplishment that has marked the most recent year in our long history. What you read in these pages is indicative of the activities of the College; we cannot begin to recount all of the events of 2002-03: another record year for external research support, another year in which the College's faculty garnered the tiger's share of campus and system awards, including the highly coveted Kemper teaching awards, and another record-setting year in development support received from our family and friends.

In assessing our progress in securing external grant support, we measure ourselves against our colleagues, public universities in the Association of American Universities, the most distinguished group of educational institutions in the country. Our support has grown at nothing less than double the AAU-Publics' average. In measuring the success of our faculty — which regularly secures one-half or more of the MU and UM System awards for teaching, research and advising — we remind ourselves that we have only slightly more than one-fourth of the campus faculty. As we look at our successes in development we remind ourselves that the first year in which the College received more than \$1 million in support was 1997-98. In 2002-03 we received slightly more than \$8 million in cash and expectancies.

Mosaics provides the reasons behind these successes, the accounts of the students, faculty, alumni and friends who make all of these exciting statistics both possible and real. We are delighted to share them with you and invite you to join us in our pride in the contributions and accomplishments of the members of the College's extended family.

Thus we send along parts of a great story. Enjoy them all and stay tuned for next year's, when we open our new Life Sciences Center, a collaborative project in which we join with our sister schools and colleges to create the space in which we will accelerate our efforts to help feed the world, cure disease and protect our environment. All the best.

mosaics is published annually for alumni and friends of the College of Arts and Science at the University of Missouri-Columbia. EDITOR Nancy Moen, 317 Lowry Hall, Columbia, MO 65211, (573) 882-2209. E-mail: moenn@missouri.edu PHOTOGRAPHERS Rob Hill, Chris Detrick, Dan Glover ART DIRECTOR Blake Dinsdale



PHOTO BY CHRIS DETRICK

FOOD FOR THOUGHT

DO YOU TAKE DIETARY SUPPLEMENTS to improve your memory or reduce the risk of catching a cold?

An MU nuclear chemist and his undergraduate research assistant have found that in addition to your herbal remedy, you could be ingesting something unexpected. Lead.

Research led by Professor Dave Robertson and conducted by senior biology major Ethan Balkin discovered that some such products contain lead at levels especially dangerous to children and pregnant women.

Balkin tested the 20 most popular dietary supplements — such as St. John's wort, ginkgo biloba and echinacea — in their raw form and in processed forms available as 92 product brands. He purchased as many different brands as possible in the Columbia, Mo., retail market.

"We were surprised at the number of

Professor Dave Robertson and biology student Ethan Balkin conducted tests on 92 brands of the 20 most popular dietary supplements. The results convinced these researchers to avoid taking the nutraceuticals.

the most popular supplements with a high lead content," Balkin says. He expected to find five to 10 contaminated samples, but instead the research produced 35.

The researchers ground several samples of each product into powder, shaped it into a large pellet and subjected it to X-rays at MU's Research Reactor to determine what elements were present. They were looking for 72 elements, including lead, nickel, mercury, copper and arsenic. Only lead exceeded the federal safety standard.

"Our hypothesis is that the lead contamination we're observing is not coming from the active ingredient but from the binders that hold the ingredients together as a pill," Robertson says.

Product names will be released when the research is published in late 2003. The

research is funded in part by the National Science Foundation.

The study began in 2001 and was repeated in 2003. "In 2003, we're finding a lower lead content," Robertson says. "It appears that the industry is doing a pretty good job of policing itself. As researchers, we're happy to see that."

Balkin, who is a licensed pharmacy technician, was a perfect choice to do the research. He served as a volunteer in a hospital pharmacy as early as age 14 and now works in a local pharmacy. That background helped him interpret the labels and locate a variety of producers.

It's interesting that neither Robertson nor Balkin takes dietary supplements. "I don't take them because I'm concerned about contamination," Robertson says. "I'm concerned about their efficacy."

There are other studies on nutraceuticals in progress at MU, some led by Dennis Lubahn in molecular biology. Robertson experienced a "senior moment" as he struggled to think of Lubahn's name.

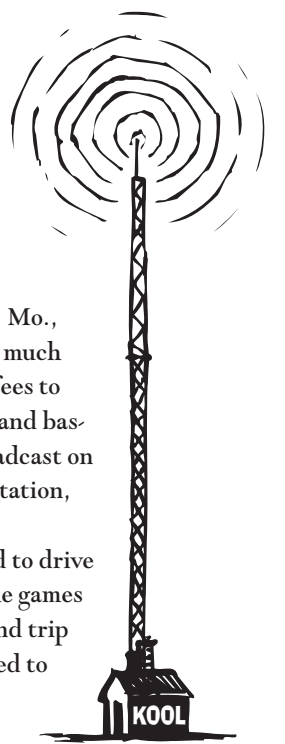
"Maybe I need some St. John's wort," he joked.

WAY KOOL

JUDITH Wangelin Scott and Joe

Poplar Bluff, Mo., love Mizzou — so much that they pay the fees to have MU football and basketball games broadcast on their home radio station, KOOL, 96.7.

The Scotts used to drive to Columbia for the games — nine hours round trip — but then decided to share the experience with Mizzou







fans in Poplar Bluff, Sikeston, Dexter, Doniphan, Kennett, New Madrid and other points in southeastern Missouri. With several businesses, the Scotts purchase airtime and donate the commercial minutes to MU to promote academics.

“Because we couldn’t get the games down here, it was either pay or drive,” Judith says. “It’s fun to go up to Columbia once in a while, and when our son was in law school, it was a good excuse to go. But it’s an outrageously long drive.”

Radio is the answer. Listeners tell the Scotts that they are “thrilled” to receive the broadcasts, and the College of Arts and Science enjoys the bonus of the free on-air commercials.

The only stipulation Judith gave for the commercials was that in some form they say: “Y’all go to Mizzou now.”

The couple has a great reason for nurturing an affection for Mizzou: They met at the University. “I fell in love with Joe Scott and MU at the same time,” Judith says. “And he still makes my heart stop.”

Joe, BS Ed ’61, JD ’66, was a senior on the basketball team in 1961 when Judith watched him score 46 points against Nebraska. That’s still a single-game scoring record, and it was made at a time when there were no three-pointers.

These days, Joe scores his points through his law practice. He and son John, BA ’94 political science, JD ’97, have their own firm in Poplar Bluff.

Judith, BA ’65 English, is executive director of college advancement and chair of humanities and the performing arts at Three Rivers Community College in Poplar Bluff. She has been a teacher for more than 32 years and was honored with a 1994 Governor’s Award for Excellence in Teaching.

A quick sense of humor earned her the honor of presiding as emcee for the annual Arts and Science Week banquet in February. In addition to providing the amusing banquet commentary, she is a

2001 recipient of an A&S Distinguished Alumni Award, which she calls her “most meaningful award.”

Y’all go to Mizzou now.

### ROBES, REGALIA AND RED CARPETS

**I**N EUROPE WHEN HONORARY DEGREES are conferred upon distinguished scholars, the whole town celebrates. Two A&S professors who experienced the formality of receiving honorary doctorates in the spring returned with unusual stories to tell.

The University of Helsinki in Finland honored psychology Professor Nelson Cowan; the University of Caen in conjunction with the French Ministry of Foreign Affairs lauded Spanish Professor Marvin Lewis.

Cowan’s conferral ran for three days and included the official ceremony in a splendid hall, a boat trip, a parade, a tunnel of swords, a ball and a cathedral service.

“Overwhelming” was his description of emerging from the ceremony on a red carpet in the town square with cathedral bells ringing and several hundred people marching and singing in the streets of Helsinki. It went on until sunrise.

The Finnish ceremony dates back to 1643 and for centuries was the only festive event in the country that the general public could enjoy. People came from the countryside and expected a festival lasting several days.

Cowan is noted for his research in human information processing, especially attention and memory. He investigates the processing of verbal and nonverbal material in adults and children.

Lewis received a *Doctorat Honoris Causa* for significant research on Afro-Romance literature, an area of study that makes MU a national leader. He directs MU’s Afro-Romance Institute for

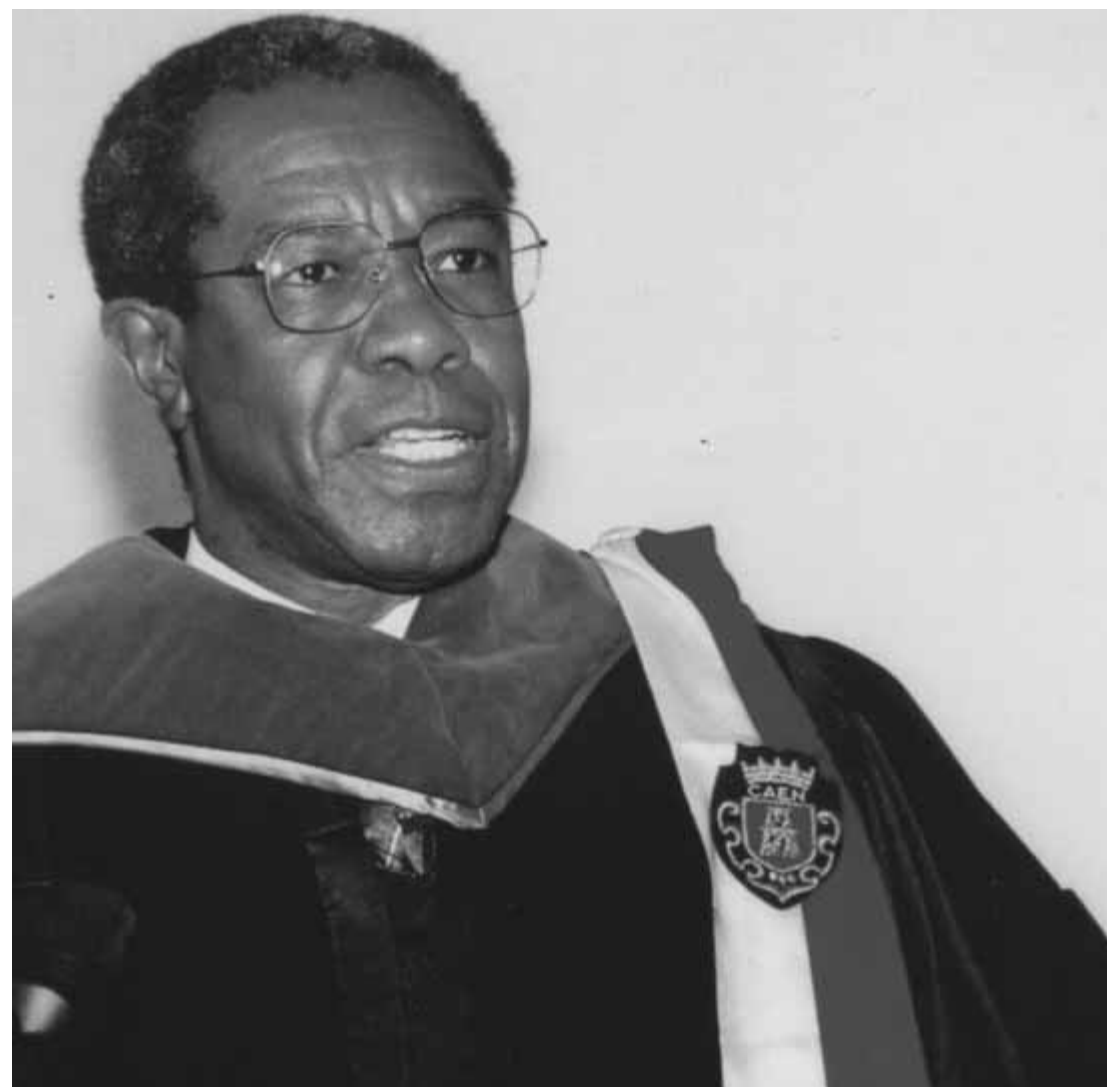


PHOTO BY CHRIS DETRICK

*The University of Caen in France conferred an honorary degree on Marvin Lewis, above, for developing MU’s Afro-Romance Institute, the only one of its kind in North America. Nelson Cowan, at right in lower photo with a University of Helsinki official, received an honorary degree from the University of Helsinki in Finland for research in human information processing.*

Languages and Literature of the African Diaspora — the only one of its kind in the nation — and edits a similarly unique scholarly journal devoted to that subject.

“I never expected such an honor,” Lewis says. “The award is a culminating point in my academic career.”

For years he has researched the litera-



ture of Argentina, Uruguay, Peru, Equatorial Guinea, Columbia, Venezuela, the Dominican Republic and Haiti. A reviewer praised one of his books, on Afro-Hispanic poetry, for recognizing “what has been neglected and undervalued.”

The University of Caen preserves the prestige of the honor by awarding the honorary degrees once every seven years. Only four other scholars, from the United States, Norway and Hungary, received the 2003 titles.

### TAKE NOTE AND TAKE NOTES

**S**TUDENTS OF HISTORY READ A LOT OF books about important people. For role models, they can look to the history faculty, whose work gathers national and international attention.

Associate Professor Lawrence Okamura, a specialist in ancient Roman history, will perform national public service for the next six years as a member of the advisory board of the National Endowment for the Humanities. Okamura emerged from a rigorous approval process for the National Council by collecting endorsements from three U.S. Senate committees and the Senate itself.

After 10 years of research, Professor Kerby Miller wrote and co-edited *Irish Immigrants in the Land of Canaan: Letters and Memoirs from Colonial and Revolutionary America, 1765-1815*. The book is a major reinterpretation of early Irish and Scots-Irish immigration and identity. Miller is also the author of *Out of Ireland*, a prize-winning book that was the basis for a PBS documentary by the same name. For that film, he served as chief consultant, wrote early versions of the script and was the narrator.

Jonathan Sperber now holds the title of Curators’ Professor, which demonstrates the respect his work gathers. The title is

the highest University of Missouri System designation for research achievements. Specializing in modern German history, Sperber has published six books on 19th and early 20th century Germany and has won three prestigious prizes for his work. His research attracts support from such agencies as the Guggenheim Foundation and the National Endowment for the Humanities.

Associate Professor Ian Worthington, who teaches ancient Greek history, published *Alexander the Great: A Reader*. On that topic, Terry Jones, host of the BBC Radio 4 program *Heroes and Villains*, interviewed Worthington for a show that will air in January 2004.

In the popular vein, Professor John Bullion, a recent MU Faculty-Alumni Award winner and prolific author, snagged some interesting publicity when his teaching reputation came up for discussion on ESPN’s *SportsCenter*. John Anderson, BJ ’87, who covers football for ESPN, said Bullion had the most influence on him when Anderson was a student in the mid-1980s.

“Great lectures. You just sort of sat there rapt, forgetting to take notes,” he told the national audience. Bullion teaches American colonial history and, ESPN aside, still suggests that history students take notes.

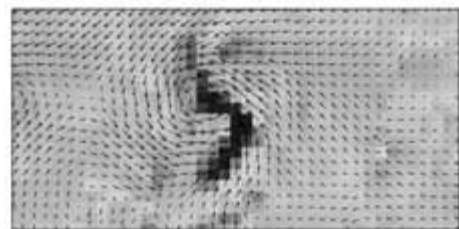
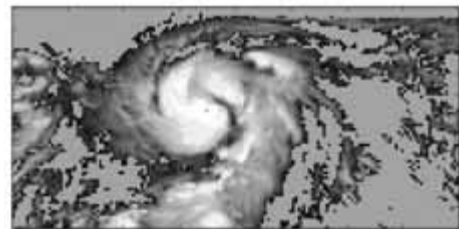
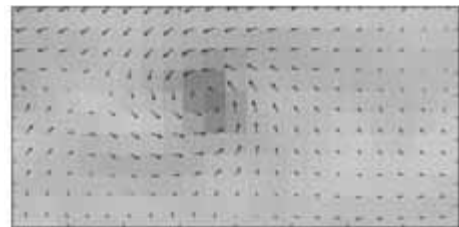
### WEATHER WISE

**W**HEN THE TORNADO SIREN blows in your neighborhood, do you head for the basement, or do you go outside to look for funnel clouds?

The work of Associate Professor of statistics Chris Wikle may help you take those weather warnings and predictions more seriously.

“We are starting to account for the uncertainty in weather forecasts, so that someday soon when you get a forecast that





Graphs of divergence and wind, cloud top temperatures and a blend of wind with temperatures assist Wikle in the study of tornado prediction.

calls for a 40 percent chance of rain, you can believe it," he says.

Wikle expects even long-term predictions to become more precise and thus more helpful to farmers in planning for drought conditions or to communities preparing for tornado emergencies.

By using complicated math models that account for uncertainties, statisticians are able to improve the accuracy of weather forecasts. "We have a clear understanding of when we know something and when we don't," Wikle says.

In their research on the frequency of tornados, Wikle and his team of students must account for bias and uncertainty. The bias in building a model on tornado reporting is that only tornados spotted by

people are counted; the uncertainty is how many tornados were not seen or counted. Wikle compares this method of handling the undercount to one used by the United States Census Bureau to handle its uncounted citizens.

Among the students participating in the tornado frequency study is senior Mark Giganti of Springfield, Ill.

"As my first exposure to research, Dr. Wikle's tornado frequency work allowed me to jump out of the textbooks and see statistics applied to real-life problems," he says. Partly because of that experience, Giganti plans to pursue a career in biostatistical research.

With statisticians from Ohio State, Wikle is collaborating on a project to predict the weather effects of El Niño six months in advance. In separate studies, he is examining rising sea surface temperatures, unusual rain patterns, frequency of tornados and migration patterns of waterfowl.

The research on migrating waterfowl is indicating that ducks and other migrating birds may overfly their usual destinations for reasons such as drought that might be related to El Niño. "We can start to predict up to a year in advance how many birds will be in an area," Wikle says. That information will be available to conservation agencies.

In a previous study, Wikle helped forecast winds in the Sydney, Australia, harbor for the 2000 Olympic games. Using data on nearby wind stations, wind activity in the higher atmosphere, temperature changes with height and other meteorological variables, he and colleagues built a statistical model to predict the intensity of sea breezes that would affect yacht racing.

With all these studies, at least one thing is certain in forecasting: weather prediction is more sophisticated than when Wikle worked in radio as a weather forecaster during his student days.

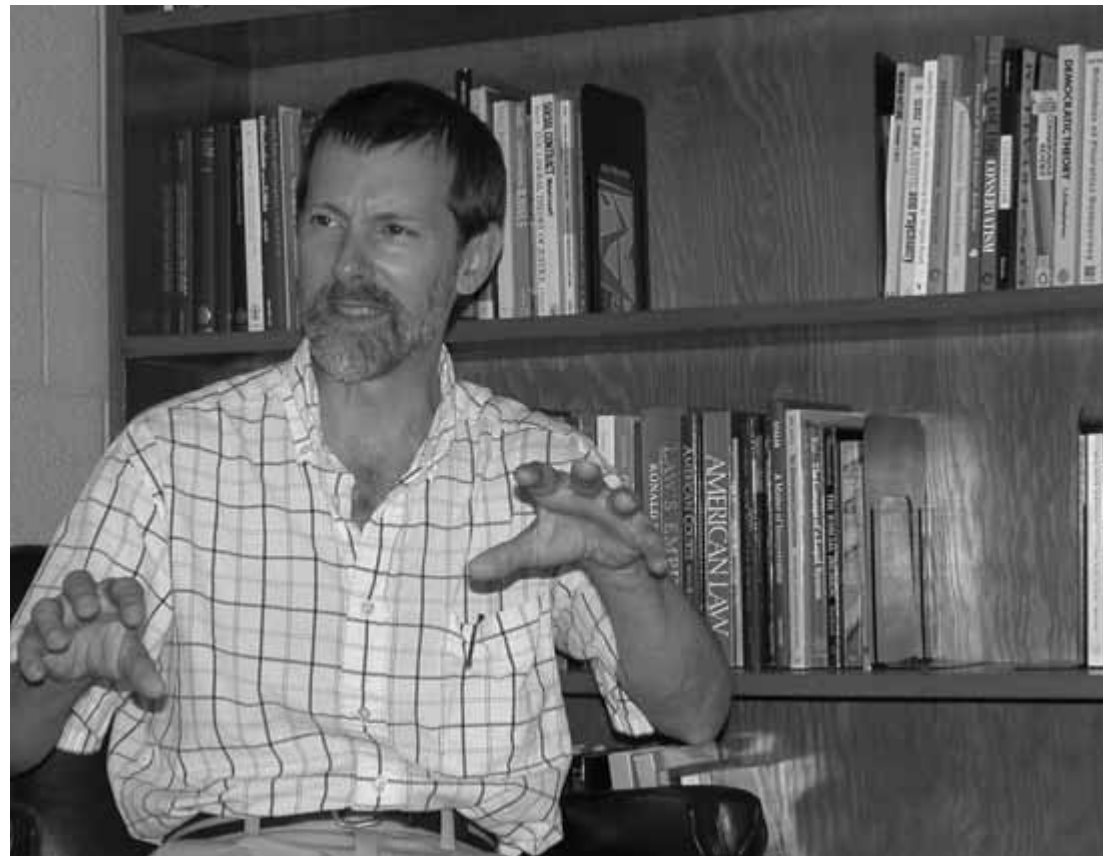


PHOTO BY DAN GLOVER

Peter Vallentyne is in demand as a speaker on society's difficult issues, such as euthanasia and stem cell research.

### PHILOSOPHY CHAIR IS REALITY

PROFESSOR PETER VALLENTYNE settled into the endowed Florence G. Kline Missouri Chair in Philosophy as fall semester began.

Vallentyne is a world-class philosopher in social and political philosophy and ethics.

He is in demand as a speaker nationally and internationally, and not only to philosophical groups. Vallentyne is known as an "energetic speaker" on applied ethics to audiences that may range from business managers and legislators to church groups.

With 19 years of teaching experience and research, he is committed to fostering critical thinking about difficult social issues. Vallentyne deals with issues that raise red flags in polite conversation: capital punishment, treatment of animals, euthanasia, cloning, stem cell

research and abortion.

In the classroom, as students seek the correct answers to controversial social questions, Vallentyne develops their ability to critically examine issues and avoid errors in reasoning.

"You have to defend your answer and develop a cogent argument," he says. "I enjoy getting students to see the power in that."

Vallentyne is editor of one journal, associate editor of another and on the editorial boards of two others. He is writing a book on justice, liberty and equality. He has edited nine books, published some 50 papers and reviewed about 40 books.

But the experiences of academia that stay with him involve students. His most

vivid memories of teaching typically involve cases where bright and motivated students raise philosophical points that he had not fully considered. "That makes it all worth it," Vallentyne says.

Vallentyne adds to the growing national stature of MU's philosophy department. "Peter is helping to make our department one of the best places in the country to pursue graduate work in normative areas of philosophy," says department Chair Jon Kvanvig. Normative philosophy is concerned with how things should be. The main areas are rational belief, rational choice, ethics and political philosophy.

Selecting MU was a rational choice for Vallentyne, who says he considered the department's bright future, the attractive campus town and the honor of accepting a chair.

The Kline Chair was established by the late Harold Kline, BA '32, who studied economics and philosophy. Although he worked as an attorney, Kline maintained a burning love of philosophy and respect for MU's department.

The torch has been passed.

### GETTING RELIGION

WHAT'S WRONG WITH THIS plan? Scenario: A business executive, Mr. X, planned a short visit to Belem, Brazil, the past Oct. 12 to meet with a prospective client in the central city. It was a Sunday, but the targeted import-export business operates daily, and Mr. X wanted to observe the weekend procedure.

The schedule didn't work. The second Sunday in October is a national religious holiday in Brazil. The whole city celebrates with the biggest religious party and pilgrimage in Brazil.\* Not only would it be virtually impossible to move through the blocked streets, but businesses close and the planned meeting could have been perceived as an insult.

"Religion and society are so intertwined that they can't exist without each other," says Professor Emerita Jill Raitt, who leads an effort to educate American professionals about religious traditions.

Raitt secured the funding for and is director of MU's new Center for Religion, the Professions and the Public (RPP). It is one of only 10 such centers in the nation and is funded through a \$1.4 million grant by the Pew Charitable Trusts. RPP aims to prevent conflicts or misunderstandings between professionals and their clients or patients that might result from religious or cultural traditions.

MU's center is unique in its focus on religion and the professions. The center studies the influence of religion on society, trains faculty and professionals on religion in the workplace, develops curricular models for schools, and provides outreach services such as public lectures.

Recently, at the request of a Muslim community president, the center sponsored and helped set up "sensitivity" training for law enforcement.

Raitt says that globalization has advanced the need for understanding world religions: "Religious voices need to be heard. We're trying to improve professional services by increasing sensitivity to the needs of people from different religious and cultural backgrounds."

For 14 years Raitt served as chair of the Department of Religious Studies, where the World Religions course is a perennial favorite among students.

\*MU music student Dan Araujo experienced the Oct. 12 religious parade in person when a Brazilian group flew him home to Belem as guest vocalist for the annual pilgrimage, which attracts millions of people. The parade came to a halt in front of the Basilica of Nazareth in the center of town, and Araujo, standing on a platform in front of the basilica, sang the two famous "Ave Marias" — by Gounod and Schubert — in front of the statue of Mary.





The MU baritone was accompanied by an instrumental group and a chorus. As the parade continued down the street, Araujo sang a one-hour concert of religious music inside the church.

### HEALTHFUL DOSE OF COMMUNICATING

**M**ISSOURIANS SMOKE, EAT THEMSELVES into obesity and plopp their overstuffed frames into easy chairs. How to change that dangerous behavior was the work of a communication department capstone class led by Associate Professor Michael Kramer.

The 11 students of Communication 377 Senior Project — joined by Missouri First Lady Lori Hauser Holden — worked on a publicity campaign to prevent chronic disease in Missouri.

Each semester, the senior capstone course gives students the chance to serve as consultants to an outside client, usually a charity or non-profit organization. In winter semester 2003, the client was the Division of Chronic Disease Prevention and Health Promotion (CDPHP), part of the Missouri Department of Health and Senior Services.

Holden is spokesperson for the campaign. She visited the class in March to get the students' perspectives and see how their work was progressing.

The students worked in three teams, with each group producing a campaign strategy that included a slogan and logo, advertising copy and public service announcements.

The aim of the campaign is to reduce tobacco use, improve eating habits and promote physical activity among Missourians.

"It's really a win-win situation," Kramer says of the campaign. The students get to do a practical, useful project, and the state gets to benefit from whatever they produce."



PHOTO BY CHRIS DETRICK

Bert Malone, CDPHP director, says that in an era of shrinking budgets, the creativity and help are especially appreciated.

Credit for enlisting the aid of MU students goes to Andrew Shea, a communication student and a part-time publicist for the Missouri Department of Health and Senior Services.

Student Michelle Custer says that after meeting Holden, she found herself developing several ideas for public service announcements and commercials.

Previous clients of the class have made good use of the students' work. In 1999, the American Red Cross Blood Division produced the students' fliers for use in blood drives.

Holden says the bottom line is that the program can help Missourians. In a thank-you gesture to the participating students, she held the last class meeting at the Governor's Mansion in Jefferson City, where she treated the students to a healthful lunch.

### POETS IN RESIDENCE

**D**OCTORAL STUDENT JOANIE Mackowski came to Mizzou's Creative Writing Program to earn her doctorate so she could teach at the uni-

Communication students meet with Missouri First Lady Lori Hauser Holden, far right, to discuss her role as spokesperson for the state's health promotion campaign.

versity level. While developing her writing and teaching skills, she collected three national awards in poetry and made the feat look easy by winning them all with one book. Her poetry book *The Zoo* is one of the most award-laden student-written books in the history of the English department.

*The Zoo* won the Kate Tufts Discovery Prize in Poetry, which included a \$10,000 award and an appearance at the J. Paul Getty Museum to read the work; a Rona Jaffe Foundation Award for women writers, with a \$7,500 cash award; and the Associated Writing Program's Award Series in Poetry.

Mackowski is working on new poems and expects to complete her doctorate in May. But until then, and because of her experience at Mizzou, she's writing more poetry and doing preliminary work for an essay on mentorship.

"Here at Mizzou, I'd say that everyone is my mentor, for that's what a strong, supportive and challenging community it is," she says.

She refers to one of those mentors, Professor Lynne McMahon, as a "remarkable poet" and "recognized and demanding scholar." Mackowski and McMahon collaborated to teach an American literature course that was a survey of American women poets.

During that time, Mackowski watched and learned from someone she considers a master. "I love to teach and came here to get better at it," she says. McMahon taught her how to turn a lecture class of 50 students into a discussion class and how to use student writing assignments to help students grow as scholarly writers.

"It's a fantastic opportunity, as a graduate student, to teach an upper-level course with an upper-level teacher," Mackowski says.

McMahon herself is a national award winner. She received a 2003 Academy Award in Literature from the American Academy of Arts and Letters. The \$7,500 prize recognizes her "exceptional accomplishment" in poetry.

Each year the Academy honors more than 50 artists, architects, writers and composers with cash awards. McMahon has produced several volumes of poetry. Her most recent, published in 2003, is *Sentimental Standards*.

### HIGH HONORS FOR ALUMNI SCIENTISTS

**T**HE RUSSIAN ACADEMY OF Natural Sciences has selected geologist Jack Burst, PhD '50 geological sciences, for membership in that elite group and awarded him the Kapitsa Medal for his work in clay mineral diagenesis. Kapitsa was a Nobel Laureate in physics.

With the membership, Burst joins several Nobel and Lenin State Prize laureates as well as Russian President Vladimir Putin. Burst also holds the Albert Einstein Medal of Honor, the highest award of the



PHOTO BY CHRIS DETRICK

Winning awards in tandem, Lynne McMahon, left, and her former student, Joanie Mackowski, gather prestigious national recognition for their books of poetry.

United States branch of the Academy of Natural Sciences.

Collecting honors in chemistry is alumnus Jaime Simon, an expert in nuclear medicine who holds 45 patents in radiopharmaceuticals and is head of Dow Chemical Company's Pharmaceutical Growth Group.

Simon's work on breakthrough scientific projects at Dow has earned him a national award for Outstanding Technical Achievement in Science from the Hispanic Engineer National Achievement Awards Corporation. Independent representatives from industry, government and academia select the winners annually.

In a partnership with MU, Simon, MA '78, PhD '80 chemistry, worked on the development of Quadramet, a pharmaceutical for the treatment of pain associated with bone cancer. Even as a graduate student, Simon's work was impressive. His graduate research led to the discovery of a new imaging agent to diagnose brain disor-

ders that is still in use today.

### PUT IT IN WRITING

**N**EW BOOKS BY FACULTY MEMBERS are drawing critical acclaim and awards.

In classical studies, Associate Professor Dennis Trout won this year's CAMWS Book Award from the Classical Association of the Midwest and South, the largest regional classics group in the nation. Trout won for his *Paulinus of Nola: Life, Letters, and Poems*. Paulinus was a nobleman and poet who lived in the southwest of Gaul in the fourth century.

Classical studies Chair Dan Hooley says Trout's award is especially notable given the "considerable number of fine new books in classics published recently."

Religious studies Professor Paul Johnson's book *Secrets, Gossip and Gods: The Transformation of Brazilian Candomblé* won a national award from the American Academy of Religion. Each year the group names a best book in four general categories.

Johnson won in the analytical-descriptive category — a social science approach to the study of religion — from the American Academy of Religion.

Department Chair Steven Friesen says faculty members have previously won best "first book" awards but that the general award is a new honor for someone in the department.

Associate Professor Lois Huneycutt's new book, *Matilda of Scotland and the Development of Medieval Queenship*, was the September featured selection for the Ancient-Medieval History Book Club in Great Britain.

### TOWN AND GOWN

**W**HILE NOTING STUDENTS WHO attend the activities of the Center for Arts and Humanities, history Professor Russ Zguta







scans the crowds for gray-haired visitors.

A good representation of older residents always pleases Zguta, who directs the center. He and his staff target part of their advertising at retirees, particularly those who live in retirement communities.

Activities and programs dealing with history, art, music, geography, English, anthropology, religious studies and journalism have been popular draws for the mature crowd. "These types of events are interesting to retirees," Zguta says.

The center, which opened in 2001, nurtures the intellectual and creative life of the University by gathering town and gown audiences and supporting individual faculty and staff members in their work. The lectures, displays, seminars and book signings complement many of the A&S units.

An exploration theme continues to provide a timely link to the national Lewis and Clark bicentennial. Historian Gary Moulton, a Lewis and Clark expert, spoke on "Seven Habits of Some Highly Effective Explorers," and *Corps of Discovery's* composer and librettist, Michael Ching and Hugh Moffatt, discussed the historical aspects of their musical drama.



PHOTO COURTESY OF JONNY PEZ

Art students and alumni display their work on collapsible walls built to fit a rented truck. The MU artists are using innovative methods to take their original pieces on the road.

Historian James Ronda will speak on April 13.

### HAVE ART, WILL TRAVEL

LOOKING FOR SOME ORIGINAL artwork at prices that won't knock you senseless? An innovative new project in the art department can bring affordable original art to Missouri communities.

Graduate and undergraduate students have art and will travel with a mobile exhibit filled with sculpture, painting and photos for sale.

In a September test run, Big Haul went on the road to Kansas City for a gallery association event. The creative students

had built prefab, collapsible walls to line the inside of a U-Haul truck. They rented a gas-powered generator, bought track lights and borrowed a slide projector and a big sheet.

As a cost-cutting move, they transported the art and materials in private cars and rented a truck in Kansas City, where they set up downtown in front of a private gallery. When evening fell, they projected an advertisement on the sheet attached to the truck and hoped for a crowd.

"There was a line of people around the block waiting their turn to go in," adviser Bill Hawk says. He reports that the gallery directors complimented the students on their exhibit and invited them to use the same parking space for their next trip to

Kansas City.

Big Haul was the idea of Brandon Tischer, BA '03 art, who now lives and works in Kansas City.

The MU art students plan to make a similar trip to St. Louis and will take the show on the road to other Missouri communities for special events. To request an art haul, contact the student art groups through Hawk at HawkW@missouri.edu or visit the department Web site at [www.missouri.edu/~artwww](http://www.missouri.edu/~artwww).

"These kids are hungry to show their

work," Hawk says. "They're creative and talented, and they've had a taste of it now."

### LIKE A LITERARY FAMILY

INTERNS JESSICA KRUEGER AND Anthony Varallo understand that it's a big deal to be an intern at the nation's top university literary journal. Students who learn the ropes of publishing at *The Missouri Review* significantly bolster their career potential.

Because manuscripts flow in to this publishing gem at the rate of more than 300 a week, interns get plenty of experience reading the unsolicited mail they refer to as "slush."

In the continuing search for the best new writing, the staff skillfully selects material from emerging writers who have the potential to make the big time. All interns participate in the process of finding manuscripts, contributing book reviews or Web editorials and doing local promotions.

The system works beautifully as a training ground, as demonstrated by former interns who hold positions at a variety of publishing houses.

Nick Mullendore's position typifies the type of job that students hope to find. Mullendore, BA '96 English, wears many

hats as an agent and as the No. 2 man at Loretta Barrett Books in New York. In addition to negotiating contracts, representing authors and dealing with foreign rights, Mullendore travels periodically to such events as the London Book Fair.

*The Missouri Review* internship helped him get his foot in the door. "Everybody in fiction knows *The Missouri Review*," he says, "so to list that as my experience in school raised eyebrows."

While an intern, Mullendore read bundles of short stories and sifted through the slush. Now that he's a professional, he's paid to read the slush.

Melissa Solis, BA '01 English, used her internship to her advantage in job interviews. "I spent a large portion of time explaining my duties at *The Missouri Review*, and it was evident that I had left with much experience and exposure," she says. The internship gave her such experience as reading fiction and developing marketing strategies.

Solis is a managing editorial assistant in New York for the Putnam imprint at Penguin Group and works as a liaison

*Jessica Krueger, an intern for The Missouri Review, scans a finished product. In preparation for a career in publishing, she reads the unsolicited mail referred to as "slush."*



PHOTO BY ROB HILL





among all the departments: editorial, copy-editing, production, design and art.

"The values that are embraced by *The Missouri Review* are values that I carried with me as I entered the field of publishing," she says.

Reeves Hamilton, BA '96 English, is a copywriter at John Wiley and Sons in New York, where he writes marketing, advertising and flap copy for business books.

Hamilton says he wouldn't be living in New York or working in publishing without his internship experience. "It changed my life," he says. "Working at *The Missouri Review* allowed me to use some skills and gave me confidence in what I could do."

As an intern, Hamilton wrote book reviews, edited short fiction and read submissions. He still remembers how delighted he was to see his first book review in print.

Whether their job is dealing with slush or traveling to international book fairs, these alumni inspire current interns. Krueger, a senior, wants to work at a publishing house. Varallo, a doctoral student, plans to teach creative writing.



PHOTO BY CHRIS DETRICK

A student photographer, Detrick balances his interest in photojournalism with the study of violin.

## GREAT EXPOSURE

**C**HRIS DETRICK KNOWS HOW TO blend into a crowd. That's part of his job as student photographer for the College of Arts and Science.

To accomplish that, Detrick may wear a tux at a formal party, such as the annual Mosaic Society dinner. But in addition to eating monk fish and chatting with dinner guests, he's the guy behind the long lens responsible for shooting "grip 'n' grin" photos of guests.

Covering a party is a snap assignment for this junior photojournalism major from York, Pa., who's also pursuing a minor in violin performance.

Taking photos for *Mosaics* magazine can be challenging. One week Detrick has to catch a shot of a bird in hand (yes, really in hand); another week he must wander around a collection of classic nude statues to plan a tasteful background.

One of his more unusual assignments was to capture action shots of Justin McCurry, who as a student was one of the nation's best "fitters" — makeup artists for cattle in show competition.

In search of that photo, Detrick lugged his equipment around a cattle farm on a humid, 100-degree day seeking the perfect

location. His work was unaffected by the aggressive black flies, muddy farm lot, smells that assault the nostrils of a city guy and a bawling, drooling, kicking secondary subject — an anxious Angus known as No. 48.

It's unfortunate that read-

ers don't see the complete body of work a photographer produces because Detrick's shoot that day was a package worthy of a "USDA Prime" stamp. His main subject emerged looking like a dressed-down model for *GQ* magazine, and the bellowing cow is the picture of personality if not of contentment.

Look for several of Detrick's photos in this issue, and next year plan to attend the recital of his violin ensemble, Chamber Soloists.

## BEST IN SHOW

**STUDENT PLAYWRIGHT KATE BERNEKING KOGUT HAS SIGNED A CONTRACT GRANTING A NEW YORK PRODUCTION AGENCY THE OPTION TO PRODUCE HER PLAY.**

**A** STUDENT PLAYWRIGHT WHO trained to work at a women's shelter has won a prestigious award for her original play about domestic violence.

Kate Berneking Kogut's play *Survival Dance* collected three national awards from judges at the 2003 Kennedy Center American College Theatre Festival. The citations for special achievement honor Kogut for playwriting, Doug Royal for acting and Patricia Downey for fight choreography.

*Survival Dance* is the story of one woman's journey to rediscover herself as she faces life in the aftermath of a violent relationship.

Kogut, a doctoral student in writing for performance, wrote the script to increase people's understanding of the issue.

"I hope to move beyond the stereotype that people sometimes have of women who have been in a violent relationship," she says.

Several years ago, Kogut trained for work at a women's shelter but decided instead to return to school as a nontradi-



PHOTO BY STEVE MORSE

Kate Kogut's award-winning play *Survival Dance* made its debut at the Rhynsburger Theatre. Now she sees the potential to reach other audiences nationally.

tional student. She is married and has two adult children.

*Survival Dance* wasn't an easy story to tell in word or in act. During the rehearsal schedule, members of the all-student cast attended weekly debriefing sessions with a campus counselor to talk about their emotions.

The show's premiere in Columbia served as a benefit performance for The

Shelter, a local safe house. In addition to the financial support, the performance helped recruit volunteers for The Shelter, Kogut says.

A theatre department committee selected *Survival Dance* as the third annual Mizzou on Broadway production at the York Theatre in New York. Twenty-three student actors and technicians, as well as faculty, traveled to New York to

present two sold-out performances on Sept. 6. They had to open a dress rehearsal to accommodate the demand for tickets.

In a separate honor, Professor Suzanne Burgoyne, director of *Survival Dance*, received the 2003 Outstanding Teacher of Theatre in Higher Education Award from



## A&S AWARDS 2003

### RECENT ALUMNI

•**V. Penelope Pelizzon**, PhD '98 English, is a poet and literary critic, as well as director of the Creative Writing Program at the University of Connecticut. She has won numerous prestigious awards for her poetry and essays.

•**Dennis Barnes Jr.**, BA '93 English, founded Marketing Direct Inc. of St. Louis and leads the company in marketing services for health care, insurance, telecommunications and financial companies. Ernst & Young named him the 2000 Emerging Entrepreneur of the Year.

### HONORARY ALUMNI

•**John Patterson**, BS Ed '59, M Ed '64 music, has touched the lives of hundreds of Columbia, Mo., music students in his position as director of bands at Hickman High School and director of music for Columbia Public Schools.

### DISTINGUISHED SERVICE

•**Mary Nell Porter**, BS BA '69, shows her pride as a volunteer for and donor to numerous projects at MU: Friends of Music, Chancellor's Residence Preservation Committee, Tiger Spot, *Corps of Discovery*, Mizzou on Tour, Mizzou on Broadway and the University Concert Series; and for Columbia: Missouri Symphony Society and Columbia Entertainment Company.

•**Wally L. Pfeiffer II**, BGS '89, has donated his time, money and talent to the College and MU for 16 years. He is a life



PHOTO BY ERNIE GUTIERREZ

member of the MU Alumni Association and a member of the A&S Alumni Organization board since 1987. He serves on the boards of the Columbia Public School Foundation and Columbia Chamber of Commerce.

### DISTINGUISHED ALUMNI

•**Jeffrey P. Bonner**, BA '75 anthropology, oversees one of the biggest visitor attractions in the state of Missouri as president and CEO of the Saint. Louis Zoo, considered one of the nation's top zoos. Previously, he was vice president for research and special projects at the St. Louis Science Center.

•**Diane Hall Glancy**, BA '64 English, is an author and professor at Macalester College in St. Paul, Minn.,

A&S Award recipients, from left, are Dennis Barnes Jr., Diane Hall Glancy, Stuart A. Fraser, V. Penelope Pelizzon, John Patterson, Mary Nell Porter, Wally L. Pfeiffer II and Jeffrey Bonner.

where she teaches Native American literature and creative writing. She won the Five Civilized Tribes Playwriting Prize and is the 1998 Minnesota Writer of Distinction, awarded by the University of Minnesota.

•**Stuart A. Fraser**, BA '83 history, is vice chairman and a partner of Cantor Fitzgerald LP. With CEO Howard Lutnick, Fraser is leading the firm's efforts to assist the families of the 658 Cantor Fitzgerald employees lost in the Sept. 11 attack on the World Trade Center.



PHOTO BY CHRIS DETRICK

Student writers gather in the sunlit Reading Room at Tate Hall for a session with poet Mark Strand, a former U.S. Poet Laureate and Pulitzer Prize winner. Strand gave a reading and worked with students through the Center for the Literary Arts. The center regularly invites nationally known authors in all genres to teach sessions and deliver public lectures. Among the guest authors slated for 2004 are playwright Edward Albee, winner of multiple Pulitzer Prizes and Tony Awards; poet and essayist J.D. McClatchy, editor of *The Yale Review*; and novelist Michael Cunningham, winner of a Pulitzer Prize and PEN/Faulkner Awards for Fiction.

## Tell Us What You Think

Take a minute to tell us how we're doing. We value your comments because we want *Mosaics* magazine to be the best it can be.

1. How would you rate the overall quality of *Mosaics* magazine?

Excellent  Good  Fair  Poor

2. What kinds of articles would you like to see in *Mosaics* magazine? Check all that apply:

Teaching  Research  
 MU experts on national issues  Nostalgia  
 Student life  Alumni profiles  
 Updates on Columbia and campus life  
 Other \_\_\_\_\_

3. If you could change one thing about *Mosaics* magazine, what would it be? \_\_\_\_\_

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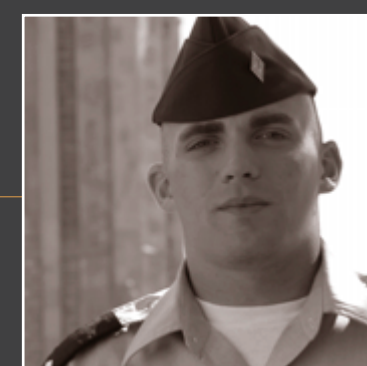
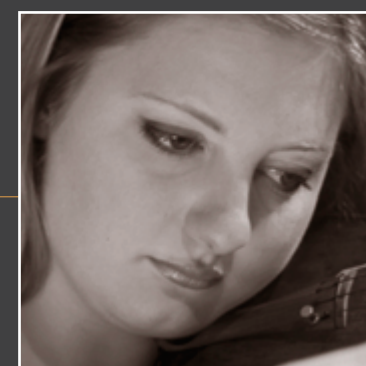
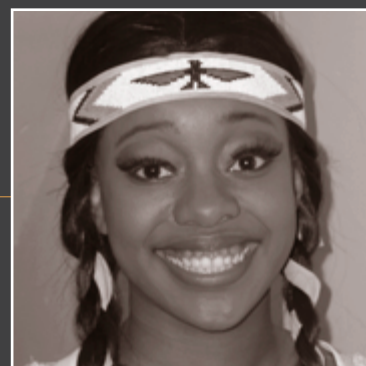
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AN



# Meet the Future

BY NANCY MOEN



We see the future here every day. It's fresh-faced, fun-loving and fabulous. Forget that these students are barely out of braces. Their university days are as polished as their teeth. They have national reputations, career plans and a contagious

*joie de vivre*. Their personalities shine with graciousness as they share their knowledge with other students or attribute their success to mentors who shaped their academic lives. Meet the future, compliments of Mizzou, and be proud.



# Super Scholar

MU'S FIRST GATES SCHOLAR BEGAN HER STUDIES AT CAMBRIDGE IN FALL 2003.

Anne Holden's parents nurtured her quest for learning, but Bill and Melinda Gates are picking up the tab for her doctoral degree.

**W**HEN SHE WAS 13-YEARS-OLD, Anne Holden read a book on human evolution and decided she wanted to work in that field. As a child, she devoured books on the ancient Greeks and Romans. At college parties, she enjoyed people who would chat about subjects such as Plato or Dostoevski.

This mature-beyond-her-years student is Mizzou's first Gates Scholar, the Cambridge University equivalent of a Rhodes Scholar.

Funded by the Bill and Melinda Gates Foundation, the scholarship rewards the "brightest of the world's young leaders and scholars" with graduate work at what is considered one of the United Kingdom's top universities.

With the \$32,000 yearly award for three years, Holden has no worries about buying books or paying for student fees, living expenses and travel. She can focus on her doctoral work in biological anthropology where she is headed toward a pathbreaking career. She graduated from Mizzou in May with a degree in anthropology and minors in biology and Spanish.

Before Holden applied for the Gates Scholarship, a Cambridge anthropology professor warned her

that the competition would be fierce. Undeterred, she applied, interviewed and in spring 2003 won one of the 42 scholarships selected from a field of 500 applicants. She then earned acceptance to Cambridge from among 10,000 applicants for graduate admission.

Holden's work will compare two points of view of evolution through the study of genetics and fossils. She loves the future of anthropology: "The new genetics research is making it much more interesting to students, beyond the traditional study of fossils."

She prepped for her journey to Cambridge by taking the honors track in high school and entering the Honors College at Mizzou. Still, what she selects as the finest element in her preparation is the mentorship she received from anthropology Professor Carol Ward. "She always treated me as an adult," Holden says of Ward, who guided her undergraduate research. "When I came to MU to meet Dr. Ward, I was really impressed."

Now it's Ward's turn to be impressed.

*As a Gates Scholar at Cambridge University, Holden is studying evolution through the use of genetics and fossils.*

PHOTO BY ROB HILL







# Black Holes, Bright Future

LANDING A SUMMER INTERNSHIP REQUIRED A SECURITY CHECK FOR THIS JUNIOR, WHOSE WORKPLACE OF CHOICE WAS A NUCLEAR LAB.

**T**HIS WASN'T YOUR USUAL summer employment. In 2003, Kyle Gustafson worked at Lawrence Livermore National Labs in Livermore, Calif., on computer simulations of astrophysical dynamics. He studied black holes.

A 2003 national Goldwater Scholar, Gustafson is left-handed, left-brained and fully captivated by the excitement of studying physics and mathematics as a double major.

But that focus doesn't mean he doesn't appreciate the study of arts and humanities. Gustafson is learning to play the guitar, he's fond of classes that require writing, and he likes to discuss literature and hear lectures about art.

One of his "all-time favorite" classes was an honors humanities course on music, art and literature from the past 150 years. The Philosophy of Science class was "captivating, fun and important for my development as a scientist."

Gustafson knew as early as his freshman year that he wanted to apply for the Goldwater Scholarship. The development of his writing style through MU's Campus Writing Program was key to the thoughtful essays and research summaries

required for the application.

"I've matured as a writer," he says. "It's a transition in my life from not being good at it to liking it and being able to put out a good piece." The sophisticated but low-key student admits to being thrilled about winning the coveted scholarship. Probably the only person more excited about the achievement was his mentor in physics, Professor Peter Pfeifer.

"He grabbed my hand and shook it for 10 seconds straight. We were both so excited," Gustafson says. He gives Pfeifer half the credit for his winning the scholarship. Pfeifer has been a guide in his academic life since freshman year.

Also sharing praise from Gustafson is physics Professor Brian Defacio. "I realized how much I had gotten out of his course. I had learned to think as a physicist should think," Gustafson says. "Professor Defacio is the epitome of that."

Pfeifer, Defacio and the other MU professors who provided Gustafson with models of teaching and mentorship will receive from him one of the finest compliments a student can give: He's going to follow in their footsteps as a tenure-track university professor.

Art, literature, theater, music and photography are favorite diversions of Kyle Gustafson, a physics and mathematics major.

*A National Merit Scholar from Leawood, Kan., Gustafson serves his department through tutoring and as president of the Physics Club.*



# Discovered!

ALICIA MILES' LEAD PROFESSIONAL OPERA ROLE AS A STUDENT IS A RARE ACHIEVEMENT IN THE OPERA WORLD.

**S**ACAGAWEA WAS IN HER TEENS when she joined the Lewis and Clark expedition. Vocal student Alicia Miles will be only 21 when she steps on the professional stage at Opera Memphis to portray the young Shoshone in a lead role.

Miles, a senior, will sing the role of Sacagawea in the Opera Memphis production of *Corps of Discovery* on April 24 and 27. This achievement is a first for Mizzou and a rare, if not unique, student achievement in the world of professional opera.

"I've never hired a college undergraduate before," says Michael Ching, the artistic director of Opera Memphis.

Ching, who composed *Corps of Discovery*, decided Miles was right for the part after hearing her sing the role with MU's troupe in Charlottesville, Va., for the national Lewis and Clark bicentennial. "I was impressed with her performance," he explains straightforwardly.

"Alicia has a special blend of youth and wisdom in her personality," Ching says. "She combines it with a crossover approach to singing that brings to it the beauty of classical singing and the immediacy of pop singing."

Miles, who is understandably excited, thought she had her singing career mapped out. "It's starting sooner than I thought," she says. Her upcoming appearance with Opera

Ching: Miles secured the Opera Memphis role with her crossover style — the beauty of classical singing and the immediacy of pop singing.

Memphis garnered attention in St. Louis as well. One of the city's most-watched TV shows, *Show Me St. Louis*, featured her singing and in a live interview in late November.

Since then, she's been preparing for her professional debut by traveling to Memphis for coaching sessions with Ching, and she likes his style. "He takes his work seriously but doesn't take the fun out of it," she says.

Miles knows what a remarkable opportunity it is to work with a composer in creating a professional role. She will spend three weeks in Memphis rehearsing with the company before the premiere.

At MU, Miles studies with Associate Professor Jo Ella Todd, a

former professional opera singer with companies in the United States and Europe. Miles gains confidence knowing that her vocal coach has a professional background, and Todd enjoys training this enthusiastic mezzo-soprano.

"It really is quite rare that anyone so young gets an experience like this," Todd says.

The role of Sacagawea is demanding. Todd describes the technical voice requirements of the role as "a mezzo-soprano with a top quite like a soprano but a low like a mezzo. That's a special voice."

In addition to her appearance at Charlottesville, Miles sang the role of Sacagawea for opening night at the world premiere in Columbia, Mo., and in a concert version at the Kennedy Center. She is eager to take the professional next step.

"I expect that Memphis audiences will love her," Ching predicts.

*For the fourth consecutive year, Miles won Missouri's state competition of the National Association of Teachers of Singing.*

*Tickets for the April 24 and 27 performances at the Cannon Center for the Performing Arts in Memphis are available through the Opera Memphis box office at (901) 257-3100 or online at [www.operamemphis.org](http://www.operamemphis.org).*



PHOTO BY DON GUILLOT





# Bessie's Beautician

JUSTIN MCCURRY PUT HIMSELF THROUGH MU AS A MAKEOVER ARTIST FOR CATTLE AND EARNED A NATIONAL REPUTATION. NOW HE'S A BIT RELUCTANT TO "MOOOVE" ON TO A NEW CAREER.

COWS ARE ART TO RECENT graduate Justin McCurry. At least they're part of his art.

McCurry is part of a fifth-generation family running a farm and cattle operation in Mount Hope, Kan. Although hospitable to cattle, wheat, corn and soybeans, the level land at times falls flat with the younger generation.

As McCurry points out, there isn't much to do in a community of 700 people, and dating is difficult when you're related to many of the residents.

"I have to get as far away as I can," he says. He does that as a makeover artist for cattle.

McCurry works as a fitter, an animal groomer who answers to the beck and call of cattle ranchers aiming to win best in show. Cattle people tell him that he's one of the top five to 10 "blower monkeys" in the nation.

He laughs as he admits the cow-beautician business paid for his education (plus an art scholarship). McCurry graduated in May with an art degree in graphic design. He loved the creative atmosphere in the department, especially in the classes of Associate Professor Deborah Huelsbergen, who was recognized for

*NO. 48 didn't care much for the summer haircut McCurry administered to give her some relief from the heat. She reacted to the buzz of the clippers with loud bellowing, wild eyes and slobber that coated McCurry's hand as he steadied her head.*

her teaching with a 2003 William T. Kemper Fellowship.

McCurry loved math and science, too. Heck, he just loved being a student: "Why quit something you're good at?" Now he agonizes that he should start a serious job search. That's hard to do when the cattle beauty business is so lucrative. McCurry's typical three-day fitter job covered his living expenses and student fees for a month.

Ranchers pay McCurry to primp their animals, and they fly him in for the big shows in Reno, Nev., Fort Worth, Texas, Houston, Louisville, Ky., Kansas City, Kan., and Denver — the Super Bowl of cattle shows.

To create the look that pleases judges, fitters face dangerous hooves that pack quite a wallop. Most fitters, including McCurry, have been kicked senseless by cows and cut by their own main tool — super-sharp clippers.

There are other drawbacks as well. Fitters kneel or stand on concrete as long as 10 hours at a time. They suffer sleep deprivation with days that begin as early as 4 a.m. And they get kicked and messed on.

"The cows can be brats," McCurry says of his animal clients, "but most of these cattle are like house pets who come running to you."

Without all the hairstyling, glue

and paint, a farm heifer doesn't look anything like the groomed champions in McCurry's photos. "It's a night and day difference," McCurry says of a cow makeover. "I consider it my best form of art."

Huelsbergen confirms that McCurry has other talents more traditional to the study of art. In her graphic design classes, he consistently produced what she calls "beautiful, clean designs." Even his design for a high-powered nose-hair clipper was first rate.

"Everything has his stamp of weird," she says. "He pays attention

"Sorry I was late. I was chasing a cow around last night."

to the smallest details, and that's what makes his designs work so well."

His entire family came to

Mizzou for his graduation. "They showed up in droves," he says. The next day, McCurry flew to Maryland for the Atlantic National cattle show. He's so consistent.

One morning at Mizzou when McCurry missed the start of a graphic design class, he walked into the room and offered Huelsbergen an apology and excuse: "I'm sorry I was late," he said. "I was chasing a cow around last night."

She believed him and admits, "That's not a statement you'd believe from just anybody."

PHOTO BY CHRIS DETRICK





# Knowing the Score

**NO WONDER PERFORMING GIVES HOLLY HUELSKAMP A THRILL. SHE HOLDS COMPETITION TITLES THAT RANK HER AS ONE OF THE NATION'S TOP COLLEGIATE VIOLINISTS.**

PHOTO BY ROB HILL

*Huelskamp had to prove to her parents that music, rather than engineering, was her best choice for a career.*

Mizzou on Tour\* in New York will feature Holly Huelskamp, her accompanist Mark Nicholas and pianist Bo Tang in Weill Recital Hall at Carnegie Hall on March 20.

**H**ERE'S A TWIST: A VIOLIN student who drove her parents crazy because she wanted to practice all the time.

"They'd try to get me to stop," Holly Huelskamp, BM '03, says, "but I'd be rebellious and keep playing." Eventually her parents gave up trying to convince Huelskamp to switch her major to engineering. She was always good at math, so she had humored her parents for a while with a dual degree, but violin performance won in the end.

Put a violin under Huelskamp's chin and a transformation begins. The soft-spoken student emerges as an engaging performer. Wisps of blond hair float across her cheek unnoticed as she bows the instrument with graceful movements.

As a girl, she chose violin over viola because violinists get center stage and better parts. "I prefer performing to anything else," she says. "It's a rush." So it's no surprise that she favors music that "lets you go free and show off at the same time."

During her senior year, Huelskamp ranked among the top undergraduate collegiate violinists in the nation. She won state and regional levels and placed third nationally at the 2003 competition of the Music Teachers National Association. In early fall 2003, she reaffirmed her national stature by taking second place in the Young Artist Auditions of the National Federation of Music Clubs.

Those noteworthy accomplishments took "hours and hours and hours of practice," as many as five hours a day, plus two lessons a week and travel to numerous competitions.

Huelskamp has been concerto soloist with the Alton Symphony in Illinois and was featured in a Mizzou on Tour performance in St. Louis at The Sheldon Concert Hall. On March 20, she will play in Weill Recital Hall at Carnegie Hall through Mizzou on Tour.\*

From 1999 to 2003, she held the position of concertmaster of the St. Louis Symphony Youth Orchestra, a title won through blind auditions in competition against upper-level and college students. The experience introduced her to many of the symphony players and the conductor, who wrote her a recommendation for graduate school.

As an undergraduate, Huelskamp studied with Professor Eva Szekely, who, she says, is a great teacher.

Huelskamp graduated in May with a bachelor's degree in violin performance and now studies at Indiana University with another of the nation's distinguished violin teachers, Paul Bliss. After hearing Huelskamp's audition, Bliss immediately accepted her as a student.

\*Tickets for Mizzou on Tour at Carnegie Hall can be ordered through MU at (800) 430-2966.



# It's the Challenge

YOU KNOW THOSE EXTREME CHALLENGES ON TV? THOSE ARE MERE GAMES TO THIS ROTC CADET, WHO TRAINS HIMSELF AND OTHERS FOR THE REAL THING.

AS CAPTAIN OF THE MU RANGER Challenge Team, Cadet Ken Segelhorst leads his nine fellow cadets in competitions against battalions across the Midwest.

The teams engage in grueling tests of physical ability and military skills — weapons and grenade assaults, land navigation, crossing streams with rope bridges, and 10-kilometer road marches in full gear.

Segelhorst rises before dawn to prepare his team for the 24-hour nonstop competition. Each morning, he directs them through two hours of physical training that includes push-ups, sit-ups, pull-ups, chin-ups and running with rucksacks. Then they practice again in the evenings.

A senior majoring in history with minors in military science and sociology, Segelhorst also scores well in academic challenges. He's ranked in the top one percent of all ROTC cadets nationwide, and he's the winner of the 2003 Ridgway Military History Research Fellowship, making him the nation's top cadet majoring in history.

The fellowship supported Segelhorst's summer research at the U.S. Military History Institute in Carlisle Barracks, Pa., where he compared the results of mechanized and infantry operations in the Vietnam conflict.

In his crisp dress uniform, this

young man from St. Peters, Mo., looks every bit the military scholar. Outside of class, he devotes 20 hours a week to planning and conducting training for MU's Tiger Battalion.

As operations officer, Segelhorst leads the cadets in soldiering skills: moving under fire, weapons care and marksmanship, marching drills, and field conduct. Such leadership earned him the Curators Award for Excellence in Military Science and the Department of Army Superior Cadet Award.

"Ken is an outstanding cadet, student and individual," says Lt. Col. Mark Ayers, director of the Military Science Program. "He is the epitome of the whole-person concept and possesses the attributes we look for in future Army officers as a scholar, athlete and leader."

Beyond the laurels, Segelhorst may be most proud of a set of wings he earned after finishing airborne school and mastering the art of jumping out of airplanes. After graduation, he'll take officers' training in tanks and operations before receiving his first assignment. Eventually, he wants to command an armored battalion.

"I really like the military," Segelhorst says. "I know I'm not going through life on easy street. I like having it harder than others. It's the challenge."

Recognized as one of the nation's top Army ROTC cadets, Ken Segelhorst serves as a leader and role model in academics and military training.

PHOTO BY DAN GLOVER







# Love the Logic

NATIONAL GOLDWATER SCHOLAR LAURA JENNINGS IS PREPARING FOR A CAREER IN DRUG DESIGN.

I LOVE MIZZOU. I CAN'T IMAGINE going anywhere else. There's so much Mizzou pride," says Laura Jennings.

With her engaging, always-present smile, Jennings seems unaware of her role in forming the basis for that pride. She is a 2003 national Goldwater Scholar with credentials that earned her entry to nine universities before she selected MU.

An all-around student, Jennings is a chemistry and mathematics major who enjoys physics and writing, and wishes she had time to take more arts and humanities courses. As a change, she's looking forward to a class on the role of the U.S. military in the new millennium.

Jennings' parents know that someone else will have to take over the family farm in Sikeston, Mo.; their daughter's plans don't include corn, cattle, wheat and soybeans. They tease her about professional goals that border on "saving the world."

After taking part in enzyme research at MU and two summers of outside research, Jennings is heading toward a career in drug design and medicine.

"Drug design makes chemistry applicable to real life," she says. Her outside experience includes research

*A strong high school interest in gymnastics went by the wayside when Laura Jennings realized she wanted to lead a "normal" student life.*

on anti-cancer agents in summer 2003 at the Mayo Clinic, where she worked with small-molecule drugs. The previous year, she won a slot in Texas A&M's Research Experience for Undergraduates, a program sponsored by the National Science Foundation.

Jennings thinks a chemistry and mathematics combination helped her win the Goldwater prize, which focuses on science and engineering. "I love math," she says. "It's like a big logic game that teaches you to think rationally. One of the most stimulating subjects there is, it teaches problem solving, a skill I will use the rest of my life."

She fills what free time she has with volunteer work through her church youth group, committee service for MU Homecoming activities and charitable projects such as Rockin' Against Multiple Sclerosis.

Although Jennings was shocked to learn she won a Goldwater Scholarship, her mentor in chemistry, Associate Professor Steven Keller, wasn't. He hired Jennings as a teaching assistant for Chemistry 15, Atoms and Molecules, and experienced firsthand the quality of her work.

For students of this caliber, narrowing down the choices for a career can be a burden. "Someone like Laura could be great at basically any-

thing she chooses," he says. "I am looking forward to following her career as it develops."

Laura Jennings knows that her calling is in science, not with the family farm near Sikeston, Mo. A cousin will have to take over the production of corn, wheat and soybeans.

PHOTO BY ROB HILL



# WHIZ KIDS

WHIZ KIDS HAVE FORMULAS FOR THE FUTURE. BY NANCY MOEN

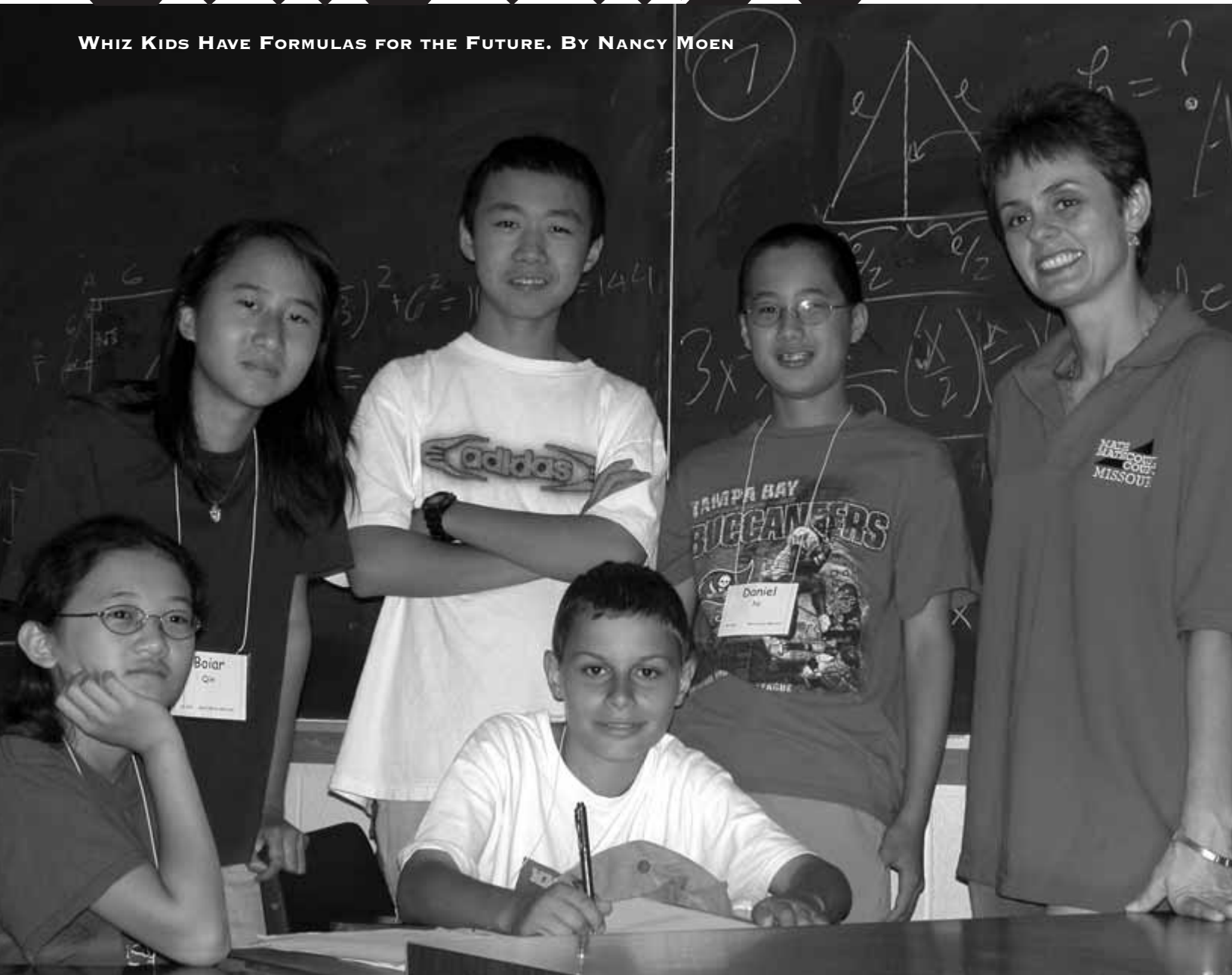
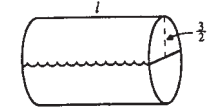
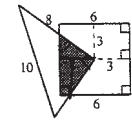
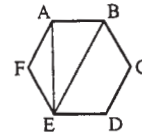


PHOTO BY DAN GLOVER



**N**

EARLY THREE HOURS into their morning mathematics class, Associate Professor Dorina Mitrea's students are still concentrating on solutions to problems.

Math is serious business for Missouri's state MathCounts champions as they prepare for the 2004 competition.

"Is something missing from this formula?" Mitrea asks the group. "What's the semiperimeter?" Hands go up and whispers get louder.

Remarkable. Especially when you consider these are seventh- and eighth-grade students cooped up every morning in the General Classroom Building for three weeks. In July. By their own choice.

Mitrea serves as volunteer coach of this active crew of kids who consider mathematics their blockbuster summer entertainment. They are the children of MU professors in statistics, economics, mathematics and engineering.

Many of these kids fully expect the study to pay off with careers involving math. Except for Abby Sun, who says she's not thrilled with math and *really* prefers art and literature. "Imagine how good she is in those subjects!" Mitrea interjects. The only seventh-grader in the group, Abby is the artistic daughter of two statistics professors, Dongchu Sun and

*All children of MU professors, the state MathCounts champions are Abby Sun and Adrian Mitrea, seated, and, standing from left, Boiar Qin, Jack Gang and Daniel Ni. Their teacher-coach, Dorina Mitrea, is at right.*

Chong He.

The taste of the 2003 MathCounts victory was so sweet for the four student champions from Columbia, Mo. — and their alternate, Abby — that they devote part of their summers and many after-school hours training for the rigorous team and individual challenges.

Mitrea sees her own work with the group as early recruitment for Mizzou's mathematics department. She even enlisted doctoral students Kenny Felts and David Cramer to coach a younger group of kids, which meets in another room down the hall. In her real job, Mitrea teaches graduate and undergraduate calculus and is co-writing a textbook on calculus for middle school teachers.

Because of the students' youthful attention spans, snacks and conversation breaks are important parts of the process. Those breaks are filled with spirited banter. Daniel Ni, son of Associate Professor of economics Shawn Ni, says he's striving to win first place in the individual state competition next year; last year he placed sixth, and the winners were all older than he. He can do the math.

What's hardest about competitions is the suspense of waiting, says Jack Gang, son of engineering Professor Dianchen Gang. The Columbia group figured the team was in first place at state, then endured a painful wait after the final event to learn they had captured the title.

Adrian Mitrea, son of Mitrea and her husband, mathematics Professor Marius Mitrea, expounds on the suspense issue as he twirls his cap like a pinwheel on the top of his index finger. "We were a bit nervous because we didn't expect to do so

well, but there was no pressure."

A more reserved member of the group, Boiar Qin, daughter of mathematics Professor Zhenbo Qin, explains how the team does the cooperative part of the match: "We split up. Each person has two or three problems. Then we switch problems to check answers."

The MathCounts competition begins in individual schools for students of grades six through eight, then advances to regional, state and national competitions. Mitrea's Smithton Middle School team swept the school, regional and state events.

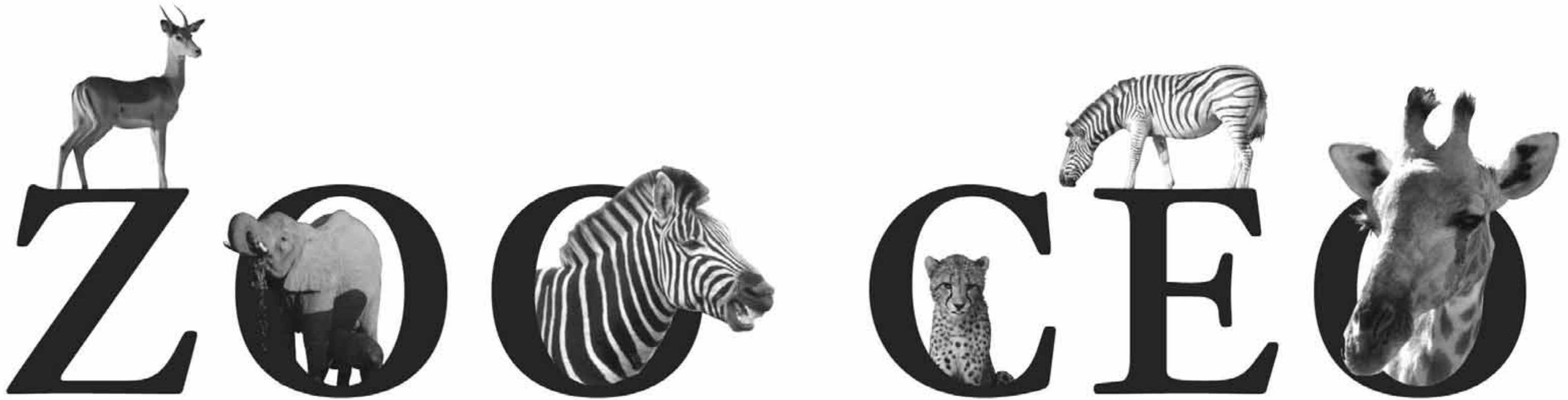
After the state competitions, each state must form a new team from its top individual competitors. Mitrea coached that Missouri team as well — all the way to second place in the nation. That's the impetus for the Columbia gang of five who want to go to nationals. They want to appear on ESPN, which broadcasts the event. And they want another pizza party.

A national win is not a pi-in-the-sky sort of wish either. Mitrea says the secret to victory for these talented kids is using the right problems to grab their interest. In practice, the youngsters work basic problems and word problems, including number theory and probability. To gain speed, they do timed practice against a dreaded buzzer.

Mitrea says many of the problems the children work are more difficult than problems encountered in MU's Math 10 course.

These kids are serious. On a glorious summer day ideal for play, they exit the room discussing formulas.





## WHO WOULDN'T WANT THIS JOB?

**JOB DESCRIPTION:** KAYAK WITH RIVER dolphins, lead safaris in Africa, convince communities to plant more butterfly-friendly plants and oversee the care of hundreds of animals. As a kid watching Marlin Perkins on TV's *Wild Kingdom*, Jeffrey Bonner wondered what it would be like to have such a cool career.

Now when he tells people that he has the best job in the world, he's not exaggerating. He has Perkins' job. Bonner, BA '75 anthropology, is president and CEO of the Saint Louis Zoo.

Although most people consider a float trip on the Colorado River an adventure, Bonner floats the Zambezi, checks research at the Galapagos Islands and leads safaris to Botswana, Eritrea, Madagascar and Costa Rica. Adventures such as these offer him the satisfaction of

working to benefit endangered species and participating in global animal conservation programs.

Bonner has the helm of a zoo that's considered one of the top four in the nation and that functions as a center for wildlife conservation.

As a conservator, the Saint Louis Zoo establishes preserves and helps to save some critical animal habitats from deforestation. Its researchers track declining species and oversee studies of habitat. They keep detailed medical and genetic records of their charges in St. Louis and around the globe. "I like the feeling of being able to make a difference in places," Bonner says of the off-site work and research components. While working on a world zoo conservation strategy that will set the tone for the next 50 years, he's

focusing some of his time on establishing a preserve in Madagascar.

Even with all that planet-altering work, this CEO still can take a break to feed the penguins.

### FUR AND FEATHERS

IT'S NEARLY LUNCH TIME WHEN BONNER heads to the children's petting zoo, where a noisy parrot is shrieking for attention among the menagerie. Bonner plucks a sleepy spring hare named Twiggy from its nest. An armful, Twiggy is an unusual critter who resembles a cross between a rabbit and a cat. With short ears, a long tail and a pudgy, pink nose, Twiggy could challenge *Shrek's* Donkey for cuteness.

But this is reality, and there's a reason Bonner holds the hare securely. The animal has the surprising ability to cover 18

feet in one leap. Nonchalantly, Bonner brushes some white fur from his dark suit coat after returning a now-awake Twiggy to a handler. He bids the still-complaining parrot goodbye and heads off to a meeting.

Such opportunities keep a busy CEO's blood pressure in the normal range, for even at zoos, there are difficult issues to manage. Favorite exhibit animals die, and so many species need help. Civilization encroachment on animal habitats expands. Poacher problems grow as more roads cut through rain forests and other habitat. Frogs are disappearing all over the world. Missouri's hellbender population needs a breeding program.

Bonner handles these issues with a confidence born of academic training and experience. He has master's and doctoral degrees from Columbia University and

was one of the last students to study under noted anthropologist Margaret Mead. Before taking the St. Louis position, Bonner was president and CEO of the Indianapolis Zoo and White River Gardens.

Among the current problems Bonner faces is the declining primate population. Gorillas and orangutans are in danger from poaching and habitat destruction. "We can't control animal populations around the world," he says. "People have always eaten primates, but now the tools are AK-47s. They used to be bows and arrows."

Also in need of help are the burying beetles, named for their habit of embalming and burying any dead quarry they find. "Maybe we can get the undertakers association to support this effort," he says. And he's only half-joking.

**SAFARIS SAVE THE ANIMALS** PEOPLE HAVE LOVED THE SAINT LOUIS ZOO for more than 100 years. An estimated three million visitors come to commune with the animals annually.

"There's a reverence for this zoo," Bonner says. For its operation, the zoo draws property tax support of more than \$13 million, donations from corporations and individual philanthropists, and free labor from a huge system of volunteers.

A weekly TV show, *At the Zoo*, made its premiere in April and raises the zoo's visibility nationally. Bonner gets to play the Marlin Perkins role in shows that give behind-the-scenes glimpses of animal medical care, chow preparation and breeding programs.

The zoo also reaches out to a breed of animal-lovers who want to experience the





PHOTO COURTESY OF SAINT LOUIS ZOO

MU alumni on an African safari with the Saint Louis Zoo are, from left, Jack Higgins, Van Lear Black, Karen Giesler Condie, Jerry Ritter and Jeffrey Bonner.

animals in their native habitats. Zoo personnel lead public safaris as a method of linking research and conservation programs with the visitor experience.

But any lay adventurer who signs on must be willing to serve as a philanthropist as well. "If you can afford to go on a safari, you can help us save the animals," Bonner says.

Van Lear Black, BA '53 economics, of St. Louis joined a March 2003 expedition that Bonner led to game camps in Botswana and South Africa. It was Black's fourth trip to Africa, and he appreciates the experience.

"These animals can't exist in our world," he says. "When you go there, you see them in their world. There's such a feeling of seeing it happen."

Black was delighted as well with the Mizzou camaraderie in the group. Of the 14 people on that adventure, five were alumni: Bonner, Black, Jerry Ritter, BS BA '57, Karen Condie, BS Ed '64, and Jack K. Higgins, BS BA '49.

Another alumnus from St. Louis, Grant Weber, BA '91 economics and history, supports the zoo by serving on the Young Zoo Friends Steering Committee. Zoo Friends handles all the major public activities, manages volunteer and membership programs, and oversees the popular train transport and parking lots. Weber loves the zoo and understands its needs.

As Bonner says: "People are the prob-



PHOTO BY NANCY MOEN

lem and the solution. That's why it's nice to be an anthropologist in this job."

There's another public safari to Africa on Bonner's calendar for February. He speaks of in-tent bathrooms, bread baked

Twiggy, a spring hare, samples a treat from Jeffrey Bonner as reward for participating in a public appearance.

over an open campfire and camels to tote the equipment. Care to join a caravan?

## Murder and Mayhem

PLACE A PHONE CALL TO BARBARA WALLACH'S OFFICE, AND YOU MAY HEAR A RECORDED MESSAGE LACED WITH LATIN OR GREEK.

IN A GREEK STATEMENT, "*BOUS EPI glossei megas bebenen*," Barbara Wallach, an associate professor of classical studies, tells callers that she can't talk. The literal translation is "A great ox stands on my tongue."

It's not surprising to experience this whimsical use of classical languages because Wallach, a 2003 Kemper Award winner, is known as an innovative teacher. In her classes, learning is a joyful process.

Wallach teaches intriguing courses in classical humanities that help students apply knowledge of ancient civilizations to modern society. The technique helps students understand social change. "It's very real to the students because we're not that far off today," she says.

In her *Foreigners and Dangerous Women* course, students explore how the Greeks and Romans regarded other women. Wallach introduces them to Dido, of the ill-fated lovers Dido and Aeneas; to Pericles's girlfriend, Aspasia; and to Neaera, a non-Athenian who lived with an Athenian man.

"We learn a lot about the Greeks, see their prejudices and see the rights of women in society," she says.

Wallach's *Murder and Mayhem* course investigates images of justice in classical society. Starting with Homer, the course covers personal vengeance as well as how conflict was settled without violence. The students deliver speeches and participate in trials to argue cases. Thus, her classes



PHOTO BY CHRIS DETRICK

are especially popular with pre-law students.

Occasionally, Wallach employs unusual techniques to stimulate thought. In demonstrating types of theft, she has been known to act like a dangerous woman herself. She once snatched an eraser and ran out of the room as her astonished students watched.

In a more conventional teaching style, Wallach traces the ancient roots of modern social and political trends. She reports that we can thank Lucretius, a Roman poet who developed the diatribe, for today's attack speech and that the citizens of ancient Greece and Rome weeded out incompetent officials through impeach-

ment and term limits. Barbara Wallach takes inspiration from the Greeks and Romans to make her classical humanities courses interesting to contemporary students.

ment and term limits.

"Students learn that some of these actions are just plain human, whether in fifth century B.C. or today," Wallach says. "People were trying to get along, but they were suspicious of outsiders and wanted to hold their own turf."

And if you're concerned about protecting your turf, you might consider memorizing Wallach's Greek phone message. She says it works well in alleviating another current social problem — telemarketers.



## A Gift for Other People's Children

**THE JEFFRIES HAVE GIVEN THE DEPARTMENT OF GEOLOGICAL SCIENCES THEIR ENTIRE LIFE'S WORK AS AN ESTATE GIFT.**

WHEN SHE APPLIED TO MIZZOU as a graduate student of geology, Cathy Zumsteg's academic future was sealed through financial help from an alumnus.

Zumsteg eventually met her geologist benefactor when he returned to campus. "I was able to thank him and his wife in person," she says of the meeting, which is etched into her memory. The couple is now deceased.

Because of that financial assistance, MU gained an outstanding doctoral student and gave her the resources to focus on studies rather than on part-time jobs. "Our alumni are an amazing group," Zumsteg says.

Among those caring alumni are geologist Norman Jeffries and his wife, Shirley, of Stillwater, Okla., who have a similar plan for students. Through their recently announced estate gift, Norman, MA '55, PhD '58, and Shirley, BA '56, will ease the financial burdens of bright students seeking advanced degrees in geology — students like Zumsteg.

The Jeffries, who met at Mizzou and married in Columbia, never experienced the sacrifices that families make to educate sons and daughters. "We didn't have children, and we wanted to help other people," Jeffries says. "It seemed like a suitable thing for us to set up something to benefit other people's children."

Their gift — the largest ever to the Department of Geological Sciences — will fund the study of three or more students every year for the duration of their degree work.

The Jeffries directed half of their

estate bequest as a tribute to Professor Raymond Peck's influence on Norman's life and career. The other half of their gift established the Jeffries Graduate Fellowship Endowment in Geology.

Peck was chair of the geology department from 1950 to 1959 and was a leader in developing MU's Camp Branson in Lander, Wyo., considered one of the finest geology field camps in the nation.

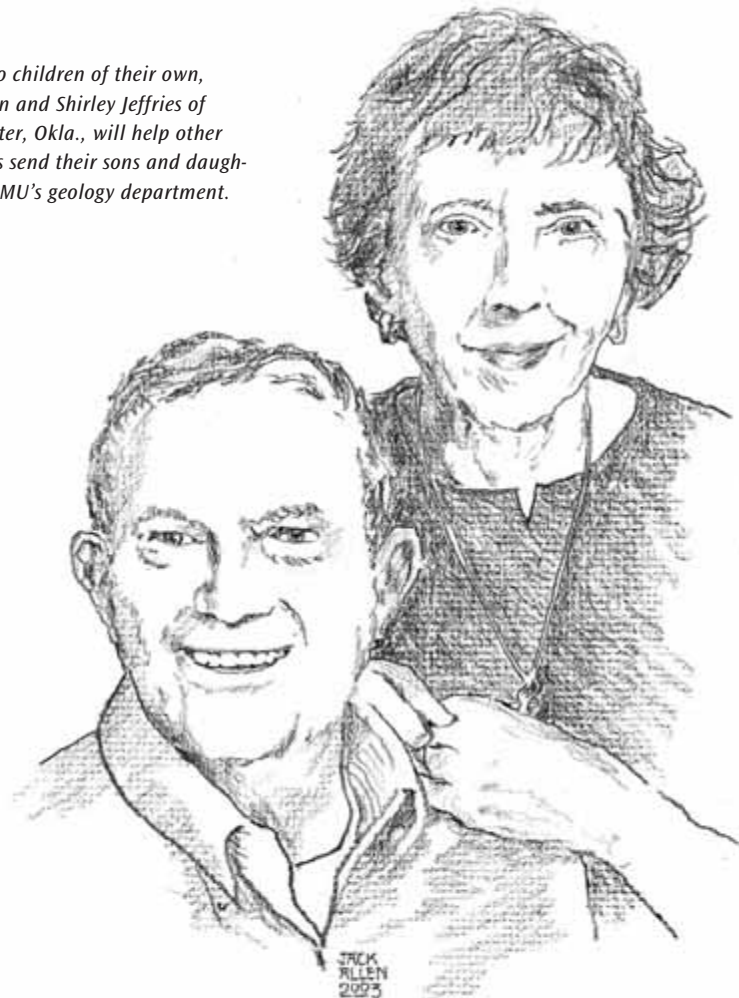
"He was dedicated to his students, each of them," Jeffries says. "He was interested in conducting fieldwork and went to great lengths to make the University known for

its field camp. All of us would do most anything to get on Raymond Peck's good side. We thought he was tops."

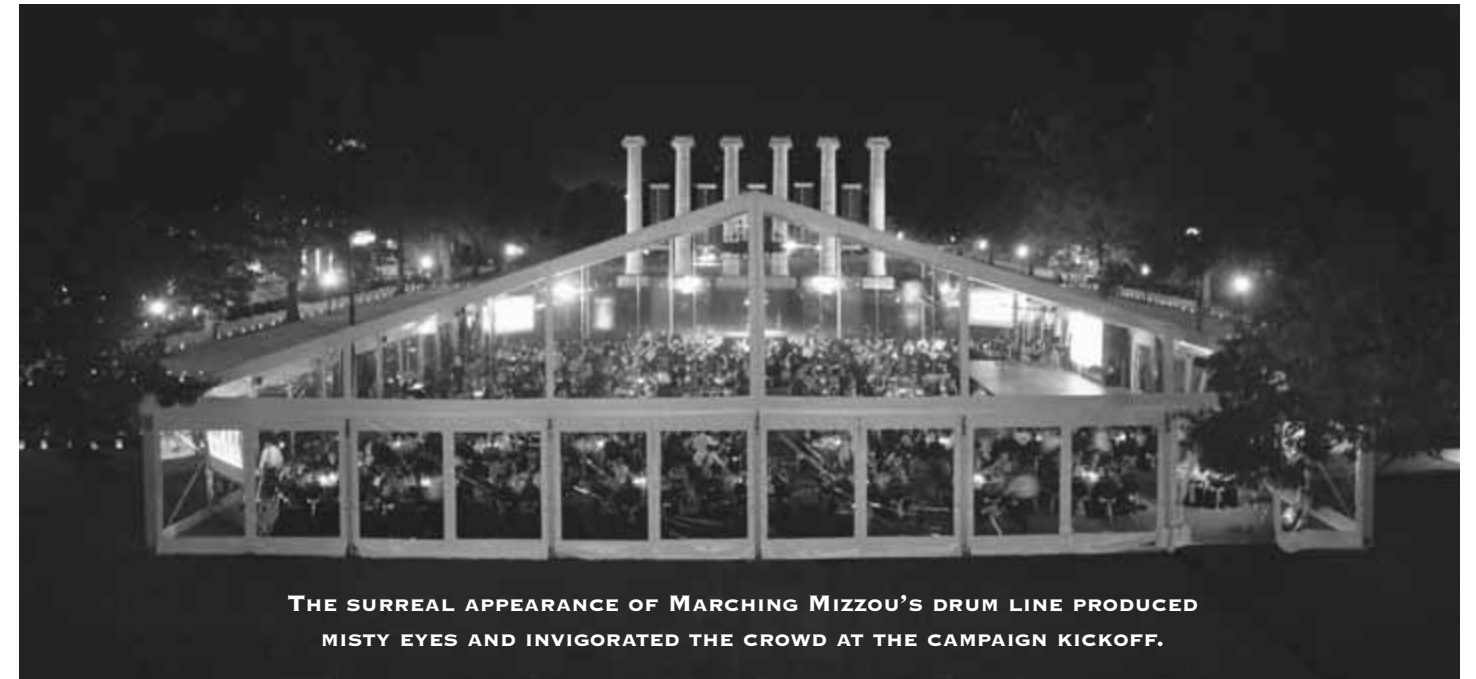
Department Chair Glen Himmelberg says the Jeffries' gift will greatly benefit the department. "What humble people they are," he says. "Norman wanted the whole gift directed to the Peck Fellowship, but we thought that people should remember the Jeffries' name, too."

Zumsteg agrees. She understands the ties that unite students across the generations.

*With no children of their own, Norman and Shirley Jeffries of Stillwater, Okla., will help other parents send their sons and daughters to MU's geology department.*



## For All We Call Mizzou



THE SURREAL APPEARANCE OF MARCHING MIZZOU'S DRUM LINE PRODUCED MISTY EYES AND INVIGORATED THE CROWD AT THE CAMPAIGN KICKOFF.

THE FOR ALL WE CALL MIZZOU campaign officially began at the base of the Columns on a crisp September night. Gathered in a see-through tent under the stars, alumni and friends reaffirmed their support to raise \$600 million for MU.

An evening of treats awaited them. Video visions of Mizzou past and present flashed on giant screens. Students served an elegant meal prepared by MU chefs. And 650 people sang the alma mater.

But it was a display of the performing arts that so greatly touched the guests. The campaign video and music ended as drum beats grew to a crescendo. With military bearing and gold uniforms sparkling, Marching Mizzou's drum line emerged through the spotlight Columns to end the evening. There were few dry eyes.

Inspired by that opening gala, the A&S

fund-raisers are striving to raise \$35 million by December 2005 for the College's share of the campaign.

Recruiting top students and supporting them once here is one such goal. Gifts such as the estate bequest from Norman and Shirley Jeffries (see accompanying story on Page 38) help departments attract superb students.

Having the resources to retain faculty is essential. "The good news is that our faculty are tops," says Dean Richard Schwartz. "The bad news is that everyone else wants to steal them away and is in a better financial position to do so."

Programs that create unique learning experiences help MU stand out among the competition. For example, showcase programs such as Mizzou on Broadway and Mizzou on Tour give MU theater and music students an edge that no other university offers. Continuing these programs

and others that complement the 32 A&S units depends on support from philanthropists.

Mizzou's campaign will help ensure an excellent college experience for students today and into the future. Increased private contributions are particularly important as public institutions across the country experience declining state support.

The University's historic campaign is the largest in MU's history. It will support current priorities as outlined in MU's Strategic Plan.

A gift to the arts and sciences can create a legacy for the future and For All We Call Mizzou. To discuss a gift, contact Bill Sheehan, Michael Kateman (arts), Anne Weller (planned gifts) or Trey Davis at (573) 882-4409, or visit the Advancement Web site at [www.coas.missouri.edu/AdvanceAS](http://www.coas.missouri.edu/AdvanceAS).





A Life's Work

# for the Birds

BY CHRIS BLOSE

Few people can say their careers began when they were 6 years old.

John Faaborg can. When he was young, his brother sparked in him an interest in bird-watching. Faaborg purchased his first binoculars and field guide and began his lifelong love of ornithology. By age 10, he was already submitting his findings to a regional bird group.

Faaborg, who later earned a doctorate at Princeton, eventually went well beyond simply watching birds. "I've always had more interest in trying to figure out what they're doing," he says. "I wanted to know why there are a lot of them this year and not so many next year, that sort of thing."

His curiosity serves him well. He's been studying the wintering grounds of migrant birds for 30 years, including a yearly trip to Puerto Rico. On the other side of migration, he's also studied breeding grounds in Missouri. Specifically, he has studied fragmentation and edge effects, both of which center around what happens to birds when their forest habitats are changed, by development, from vast expanses to smaller fragments of forest.

In the late 1980s, a proliferation of evidence suggested that the depletion of wintering grounds in the tropics was causing dwindling numbers in migrant birds. The evidence caused a conservation push, including the formation of a massive international conservation group, Partners in Flight. In this new movement, Faaborg was already ahead of the game.

"By having done this fragmentation work up here and winter work when migrant birds suddenly became the really hot thing, I was just sitting pretty," he says.

In his 2002 book *Saving Migrant Birds* Faaborg looks at the conservation movement's progress in the past 12 or so

*Stopping the decline of migrant birds is a passion of John Faaborg, who studies their changing environments*

years. The book stands as a culmination of Faaborg's career. It incorporates his own work on fragmentation and wintering grounds with an evaluation of conservation practices. With the luxury provided by hindsight, he questions how strong the evidence really was and whether the depletion of the tropics was entirely to blame.

"My feeling is that the declines might have been overstated," Faaborg says, "or they were related in part to a drought that was occurring in the late 1980s. Duck populations bottomed out around 1989 because the prairies had been dry for years. Then the rains came, and the ducks came back. And certainly there's some evidence that the migrant birds had been suffering from the same drought."

Faaborg also talks about the new habitat created by cutting forests, a habitat that is often suitable for a different set of birds. Faaborg's book offers an insider's insight, and it suggests that the research and methods of conservation need to be updated appropriately. As an educator and field researcher, he will continue to play a role in updating those methods.

In fact, part of the reason Faaborg remains relevant is his constant activity in the field and in the classroom. Teaching general ecology, avian ecology and ornithology at MU, he provides future researchers with the mentorship necessary to point them in the right direction.

"John is often described as a hands-off kind of adviser," says Paul Perneluzi, associate professor of biology at Central Methodist College. Perneluzi worked with Faaborg to receive his doctorate at MU. "In other words, he gives you freedom to develop your own project. He's there for guidance, and he helps put your own project into the big picture. As for the details, he leaves that up to you."

John David, chair of MU's biology department, echoes Perneluzi in saying that Faaborg's philosophy of independence

as an adviser sets him apart from many professors. "I don't think it's an accident that a student becomes independent enough to do a project without having to depend much on John," he says. "There's a lot of stuff that he puts into those students to get them to the point where they can work on their own."

Faaborg's guiding philosophy also extends to undergraduates. He has been teaching them how to conduct research since before undergraduate research was fashionable. One example of this is the Missouri Ozark Forest Ecosystem Project (MOFEP), on which Perneluzi also works.

MOFEP is a long-term study of how migrant birds are affected by different types of cutting and fragmentation in the Ozarks, an area with larger portions of untouched forest than the rest of the state. Every summer, 17 undergraduates participate in the project by doing fieldwork alongside Faaborg and Perneluzi. Their work goes beyond merely collecting data.

"With all those students there," David says, "he (Faaborg) could use them just as hands to accumulate data, and the funding agency would be perfectly happy with that. But John wouldn't be happy. He wants to get the students intellectually engaged, so he carves out time when they can do their own projects."

Those projects make MOFEP a place for students to gain research experience. "We set it up as a kind of intro to fieldwork," Faaborg says, "and it has developed a great reputation as a place to learn and get your first field experience."

Faaborg's reputation as a generous adviser and professor as well as his years of groundbreaking research make him a leading force in ornithology. Being a leading force isn't what defines his career though. What makes him happy is that, early in life, he found something to be passionate about. His enthusiasm today stands out every bit as much as it did when he was 6 years old.

PHOTO BY CHRIS DETRICK



## Lively Class about Death

ALUMNI TELL GAIL LUDWIG THEY CAN'T DRIVE BY A CEMETERY WITHOUT THINKING OF HER CEMETERY CLASS OR WANTING TO GO IN AND SEE WHAT'S THERE.

EVER SO OFTEN ASSOCIATE Professor Gail Ludwig resurrects one of her favorite classes on cemeteries. It fills quickly because people have a fascination for the subject.

"It's really fun stuff," she says of her class that uses the facts of death to teach students about geography. But don't expect your grandfather's genealogy class. The Cemetery As a Social Document is all about geography; students observe the monuments and the people buried there to discover the history of a community.

Ludwig, who is the new chair of the geography department, uses the class to challenge some myths. Cemeteries, for example, aren't built on the top of hills to position the deceased closer to God; they're located on high points to avoid flooding and to eliminate sprawling over productive agricultural land.

"Cemeteries are indicative of death," Ludwig says, "but they are for the living, not the dead."

As proof of that, students collect data at cemeteries and create maps to scale. They note locations of grave markers and record the demographic information chiseled into stone. Information that is collected about names and dates of death leads to analysis of subjects such as infant mortality, popular first names and the most prevalent months for deaths.

The student work takes interesting directions. Students have written papers about cemeteries in American poetry, about the mystery of the "Black Mammy"



of Columbia Cemetery and about the population and diversity of trees in cemeteries. One recent study on the women of Bellefontaine Cemetery in St. Louis won the MU Graduate School Master's Thesis Award for Rebecca Wilford-Hammett.

Of course the men buried in that Romantic-style cemetery are equally as interesting. William Clark of the Lewis and Clark team ended his journey through life at Bellefontaine, as did Lee H. Tate, whose name graces MU's Tate Hall. Tate's final resting place is a delight for students. Replicas of Tate's visage replace the normal animal features on two lion monuments that guard the mausoleum.

No wonder trips to the cemetery are all-day activities with requests from numerous hangers-on who wish to participate. Ludwig usually plans a picnic lunch.

Beyond cemeteries, a department chair must focus on the life of the department. Ludwig is working to establish a doctoral program, and she's encouraging more integration of geography courses with other programs such as public affairs and natural resources.

With a background in demographics,



PHOTOS COURTESY OF GAIL LUDWIG

A field trip to a St. Louis cemetery provides Matthew Swafford and Jennifer Hearn with a real-life experience for geography class.

migration and rural development, Assistant Professor Matthew Foulkes, a new hire, will help advance that collaboration. He teaches Geographic Information Systems, an important tool for data analysis with a location component.

Ludwig also is seeking added scholarship support to fund field-related student projects, such as the cemetery work. She knows that fieldwork brings life to book learning and lectures.

## DESIGNER FOR THE

# ★ STARS ★

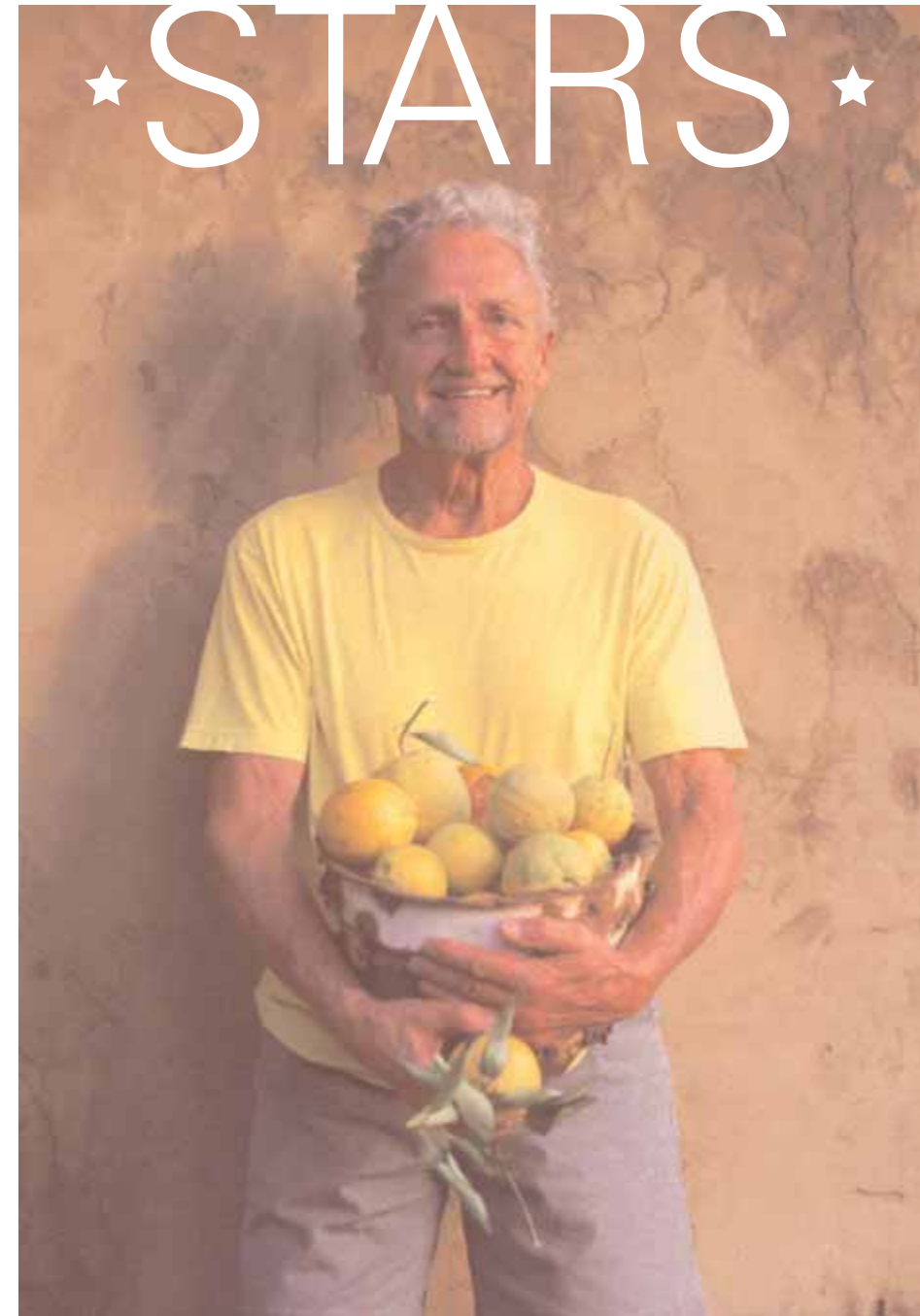


PHOTO COURTESY OF HOUSE OF MANN

★ FOR YEARS, *ARCHITECTURAL DIGEST* magazine has included Ron Mann, BA '58 art, in its list of 100 top international designers and architects of the year. Mann is known as a designer of furniture and accessories for the stars. He works out of House of Mann in San Francisco.

A feature story from the *San Francisco*

*Art* alumnus Ron Mann creates total environments for his clients from around the world. His designs include unique home furnishings as well as art.

*Examiner* reports that Mann's work appears in homes worldwide and that his designs in home interiors are innovative, simple, sophisticated and beautiful.

Ron Mann's art and furnishings for the home reflect his love of natural materials.

The House of Mann Web site illustrates luxurious rooms with furnishings that feature clean lines and elegance. Mann says he draws inspiration from life and nature. "This earth is a candy store," he says.

Mann started Ron Mann Design in 1980 to produce his own furnishings rather than buying products from manufacturers. He and his wife, Louise, custom-make most everything he uses in decorating, including furniture and fabric, which his wife hand-finishes.

The Manns design complete living environments that focus on simplicity and use natural materials such as wood, cement and raw steel.

Mann grew up in Chillicothe, Mo., worked in Columbia for Robnett Putnam Interior Designs and majored in ceramics with Professor Robert Bussabarger, who stays in contact with his former student.

"As a student, Ron had a good feel for artistic things and did some interesting ceramic sculptures," Bussabarger, now professor emeritus, says. "He's had a lot of input in the Bay area."

Bussabarger visited Mann at his home in Sonoma, Calif., and saw the house Mann designed for himself. "He put things together in unusual ways, using natural materials."

The Manns' house reflects their taste. They live in an old, converted bunkhouse, which Mann describes as a one-room shack set amid wild sunflowers and rolling fields of lavender. "I love it. It's perfect," he says of the house and surroundings. "All the doors and windows are open. I live in an absolute paradise."



## Corps of Discovery Continues Its Musical Journey

**T**HE MUSICAL DRAMA THAT MU commissioned for the Lewis and Clark bicentennial will make its professional debut at Opera Memphis on April 24 and 27 with three MU singers in the company.

Senior Alicia Miles will sing the female lead role of Sacagawea. (See story on Page 22) Alumnus Ryan MacPherson, BES '97 music, who portrayed Meriwether Lewis in the MU production, will sing the role of Private Shannon, the storyteller. Dewey Caddell, BA '03 theatre, will sing the role of Sergeant Ordway.

Opera Memphis, assisted by the Memphis Chapter of the MU Alumni Association, will host a celebration at 7 p.m. on April 16 for alumni and friends at the Clark Opera Memphis Center in Memphis, Tenn. For the event, Miles, MacPherson and Caddell will sing a preview of the music and greet alumni. Chapter President Jill Pauly and Opera Memphis Artistic Director Michael Ching are coordinating the evening, which is free. To make reservations for the MU party or obtain tickets for *Corps of Discovery*, call Opera Memphis at (901) 257-3100.

KANSAS CITY AREA  
MU Show-Me Opera and the

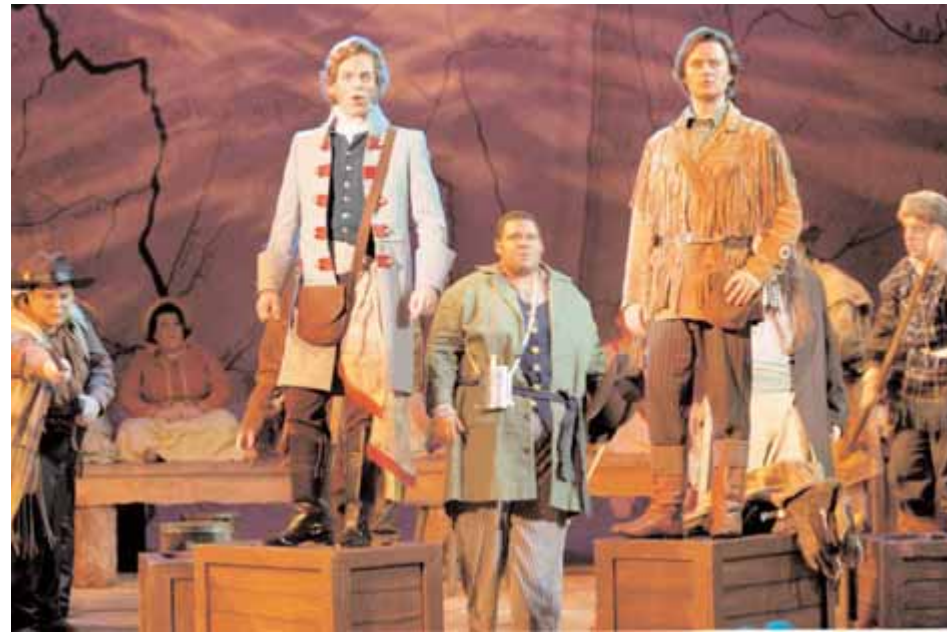


PHOTO BY ROB HILL

Independence Symphony Orchestra will present a concert version of *Corps of Discovery* in Independence, Mo., on March 6 at 8 p.m. in the Truman Memorial Building. The event is sponsored by the Junior Service League of Independence and the Truman Heartland Community Foundation. The performance is a homecoming for former area resident MacPherson, who will sing the role of Lewis. Dean Southern, MM '93, will sing the role of Clark. Tickets may be ordered by phone at (816) 836-8189.

### PERFORMANCES NATIONALLY

•Opera Memphis and Shreveport Opera in Louisiana are performing a shortened

*The professional run of Corps of Discovery starts April 24 at Opera Memphis. Alumni Dean Southern as Clark, left, Ryan MacPherson as Lewis, right, and Neal Boyd as York, center, will reprise their roles in Independence, Mo. MacPherson will sing the role of Shannon in Memphis.*

version for young audiences.

- The United States Army Field Band and Soldiers Chorus presented excerpts from *Corps of Discovery* in its national fall tour.
- The Orlando Philharmonic and Opera in Florida presented songs from *Corps of Discovery* in 28 Young Peoples Concerts in October and November.
- Check the Web site at <http://corps-of-discovery.missouri.edu> for performance updates.



University of Missouri-Columbia  
College of Arts and Science  
317 Lowry Hall  
Columbia, MO 65211

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