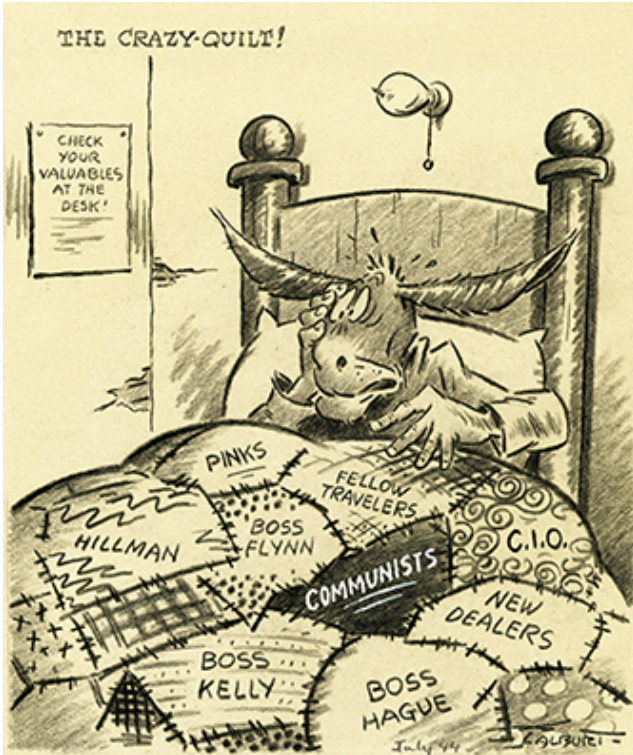


Mizzou Weekly

Aug. 30, 2012 Volume 34, No. 2

Cartoon exhibition suggests that not much has changed in American politics



NAME-CALLING "The Crazy-Quilt!," a cartoon by Harold Talburt (1895–1966) of the *Washington Daily News*, suggests that Democrats are in bed with questionable organizations. The show will be on display through November. Photo courtesy of the State Historical Society

STATE HISTORICAL SOCIETY

The political cartoons, many from Missouri cartoonists, date from 1912 to 2010

Democrats are socialists. They are pulling America down from its greatness. If Democrats had their way, the federal government would run people's lives.

Republicans are ruled by money. They have Wall Street in their back pocket. They kowtow to the wealthy and want to rid the country of most government social services.

Those political characterizations have been in full view in recent years.

And as the campaigns of United States incumbent President Barack Obama and Republican nominee Mitt Romney continue following the GOP Convention, expect the rhetorical jousting to heat up till Election Day, Nov. 6.

But the characterizations are nothing new. An exhibit through November on political cartoons at the State Historical Society of Missouri in Ellis Library shows how little has changed over the last 100 years in American politics.

"Donkeys and Elephants: Animal Symbols and Political Cartoons" features about 40 political cartoons, most of which appeared in Missouri newspapers. Some of the cartoons featured are by Harold Talburt of the *Washington Daily News*; Daniel Fitzpatrick of

the *St. Louis Post-Dispatch*; Tom Engelhardt of the *St. Louis Post-Dispatch*; and Lee Judge of the *Kansas City Star*.

The exhibition focuses on how cartoonists used animals to symbolize contemporary political issues. Many cartoonists, for instance, portrayed Russia as a bear, a representation that dates back to czarist Russia. A dove represented peace, and a vulture or hawk at various times represented war.

“To understand this symbolism, viewers must learn a visual language that changes decade by decade,” said Joan Stack, curator of art collections at the State Historical Society.

It’s not completely clear who first represented Democrats as a donkey and Republicans as an elephant.

In the 1830s, several Republican cartoonists used a donkey to symbolize Andrew Jackson, a crude play on the seventh U.S. president’s name, whose followers established the modern Democratic Party. In the 1870s, the influential *Harper’s Weekly* cartoonist Thomas Nast used the donkey and elephant symbolism to portray the respective parties. A Republican, Nast had misgivings about his party’s future when he inked his first Republican elephant illustration. The rendering [not included in the show] is of a running elephant about to fall into a pit covered with boards labeled “Inflation,” “Reform” and “Repudiation.”

Despite the original derogatory intent of the early animal symbols, political leaders eventually embraced them as pictorial mascots.

In 1940, Fitzpatrick (1891–1969) used the donkey and elephant to suggest the biased science behind election polls sponsored by the parties. This was at a time when poll-taking was in its infancy.

The crayon-and-ink drawing depicts the animals balancing precariously on teetering poles. The caption reads, “Take Your Choice of the Polls.”

Also in the show is “The Crazy-Quilt!,” a cartoon by Talburt (1895–1966) of a stressed donkey covered by a quilt checkered with supposed questionable organizations associated with the Democratic Party. Quilt blocks are labeled “Pinks,” “Communists,” “Fellow Travelers” and “New Dealers.” Tacked on the bedroom wall is a note: “Check Your Valuables at the Desk!”

Today a Republican-approved quilt might substitute “Socialists” for “Communists” and “Liberals” for “Fellow Travelers,” a pejorative used in the 1940s toward American socialist sympathizers of Soviet Russia.

Other cartoons in the show depict Republicans as hawks, or war mongers, and Democrats as anti-American and wimps.

One rendering shows a donkey and an elephant each leading a rollicking traveling circus caravan — the kickoff to the national general election.

“Some concepts about Democrats and Republicans haven’t changed much since the 1920s,” Stack said.

Political Cartoon Show

- **What:** “Donkeys and Elephants: Animal Symbols and Political Cartoons”
- **When:** Through November 30
- **Where:** The State Historical Society Main Gallery in Ellis Library
- **Times:** 9 a.m. to 4:30 p.m. Tuesdays through Fridays; 9 a.m. to 3:15 p.m. Saturdays
- **Cost:** Free

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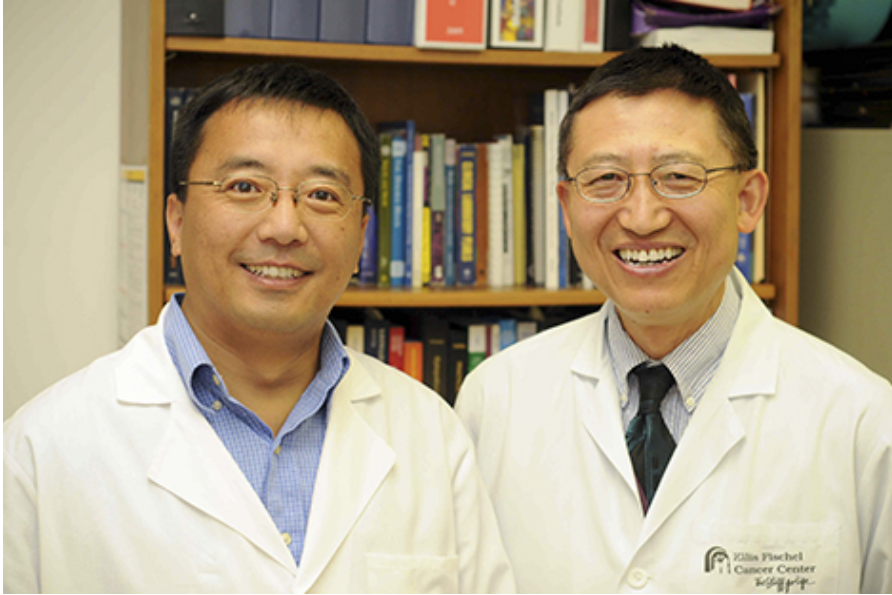
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Five research projects receive funding from Coulter partnership program



AWARDEES Li-Qun Gu, left, and Michael Wang are working on a method for early detection of lung cancer that eventually could save thousands of lives each year. Photo courtesy of the Ellis Fischel Cancer Center

MEDICAL RESEARCH

Coulter project funds distributed through 2015

Lung cancer remains the leading cause of cancer-related deaths worldwide, making research into its early detection a priority among scientists.

Two MU biomedical scientists are working on a method for early detection of lung cancer that eventually could save tens of thousands of lives each year. Li-Qun Gu, associate professor of biological engineering, invented the method, then collaborated with Michael Wang, associate professor of pathology and anatomical sciences, to develop it. The invention detects molecules in blood called microRNAs that suggest the presence of lung cancer about one year before the disease is symptomatic.

Early detection means cancer cells can be treated sooner, and the patient can expect a better prognosis. "This creates a much better outcome for the patient," Wang said.

In June, MU officials announced that Wang and Gu's cancer research and four other campus research projects would receive funding from the Coulter Translational Research Partnership Program at the University of Missouri.

Below are the other MU scientists receiving project funding:

- Raghuraman Kannan, assistant professor of biological engineering, and Gerald Arthur, research assistant professor of pathology and anatomical sciences, are developing a companion diagnostic that qualifies patients for individualized chemotherapy.
- Sheila Grant, associate professor of biological engineering, and Richard White, assistant clinical professor of orthopaedic surgery, are working on improving tissue grafts for ACL patients.

- John Viator, associate professor of biological engineering, and Stephen Barnes, chief of acute care surgery at the School of Medicine, are developing a photoacoustic instrument that will aid doctors treating burn patients.
- Gan Yao, associate professor of biological engineering, and Judith Miles, professor emerita of child health genetics at the School of Medicine, are creating a way to assess neurodevelopmental disorders in infants at an early stage.

The funding comes from a \$5.2 million grant agreement with the Wallace H. Coulter Foundation through the Translational Research Partnership. The funds support collaborative projects between biomedical engineers and clinicians, with the goal of taking biomedical research innovation to clinical practice.

In 2011, Coulter agreed to provide \$200,000 in startup funds as well as \$666,667 each year for five years, while MU kicks in \$333,333 per year over the same period, totaling \$5.2 million. Each research project this year will receive about \$100,000.

A Coulter awards ceremony will be held 10 a.m. Friday in the Great Room of the Reynolds Alumni Center. All are invited to attend.

The funding helps fill a critical gap between patent-ready university research and when it becomes attractive to investors, said Jake Halliday, the Coulter Translational Partnership Program Director. During the gap, worthwhile projects can go bust due to fiscal constraints.

“Coulter ‘gap funding’ is expressly to enable MU researchers to do additional work on their innovations to move them from where they sit today to the point where they can attract the interest of venture capital sources or established biomedical companies willing to license and commercialize the technologies,” Halliday said.

Mizzou is one of about 15 American universities receiving the funding award.

Wang and Gu have been researching the blood-test method for early detection of lung cancer for about two years. Last year, their research was published in the peer-reviewed journals *Nature Nanotechnology* and the *International Journal of Clinical and Experimental Pathology*.

The scientists examine blood plasma samples to detect changes in microRNA, which are microscopic ribonucleic acids released by lung cancer cells. When a panel of microRNAs is detected, there’s a good chance the cancer is present.

The Coulter funds will help the scientists fine-tune detection of the blood molecule and perform clinical testing over the next year.

Currently, successful detection of microRNA occurs 80 percent of the time, Wang said. The big hurdle will be setting up clinical studies, he said. Participants must be current or former heavy smokers age 50 or older with no symptoms of lung cancer. The majority of lung cancer patients are smokers; 20 percent are nonsmokers.

Wang said the detection method could be widely accepted because it’s noninvasive and relatively inexpensive. Wang and Gu’s research may find applications in early detection of heart disease, diabetes and other forms of cancer, he said.

When will this technology be available as a routine screening in doctors’ offices? “That’s the million dollar question,” Wang said. “We need a large scale longer-term trial to verify the findings before moving to the medical laboratory.”

Contact Wang about clinical issues by emailing wangmx@health.missouri.edu. Contact Gu about biotechnology issues by emailing gul@missouri.edu. Contact Rebecca Rone about program topics by emailing roner@missouri.edu.

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Engineering professor strives to make the perfect electric battery

INNOVATION

Battery may be available commercially by end of 2014

Although electricity is abundant in the United States, it has not proven to be ideal for transportation because of the high cost of batteries and, to some extent, the long charge times.

Galen Suppes, a professor of chemical engineering, wants to change this. He and his research team of graduate and undergraduate students are developing a new battery that will increase performance and reduce materials and manufacturing costs of producing batteries. He believes this battery will be ready for the commercial market by the end of 2014.

“The difference between the battery we’re researching and developing is that it has a pump that moves liquid electrolyte between the sides of the battery, which enables it to produce more power over conventional batteries,” Suppes said. “This technology does not exist now.”

The goal is to reduce the cost of electric vehicles and charge times so that “sales would substantially increase, use would increase, and we would have a lot of imported oil replaced with domestic electricity,” Suppes said.

The application is not limited to vehicle batteries, Suppes said. There is a large potential market with electrical grid storage in devices like wind turbines and solar energy.

“This is an exceedingly important technology for the U.S. to reduce imports, to create jobs and increase national security,” he said.

In studies, the test battery was able to discharge power faster than conventional batteries, said Michael Gordon, a doctoral candidate in chemical engineering and one of the battery-team members. “Our battery produced five times as much power as batteries with similar capacities,” he said. “We were able to discharge the battery faster than a conventional battery, which results in a power increase.”

Gordon, who has worked with Suppes on the invention since 2008, said the team’s design ultimately would create a lighter, cheaper battery.

Suppes said one of the reasons for the delay in getting the battery to market is that instead of using off-the-shelf equipment and materials, his team has fabricated most of the parts, made special materials and developed experimental methods on a regular basis.

“When you have to do all those things, it takes longer to get the research done,” Suppes said.

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Mizzou takes over leadership of Missouri Press

ADVISORY COMMITTEE FORMING

Current staff offered option of remaining with press

Mizzou has assumed management of the University of Missouri Press, officials announced Tuesday.

The Missouri Press will remain at its current location, 2910 Lemone Blvd., keep its current employees and form an advisory committee.

"I have been listening to the support and dedication the community and others have shown the press, and make every assurance that university administration is working to create the kind of press of which the academic community and those that it serves can be proud," University of Missouri System President Tim Wolfe said in a statement.

The advisory committee will include representatives from the faculty from all four campuses, interested parties outside the university system, authors and student representatives, officials said.

MU Faculty Council members planned to make nominations for the advisory group this week, Chancellor Emeritus Richard Wallace said Aug. 23 at a Faculty Council meeting.

Wallace and Deborah Noble-Triplett, University of Missouri System assistant vice president, have been leading the transition of the scholarly publishing house to MU management.

Officials said Tuesday the press will continue to have peer review and publish printed books while expanding its digital editions.

Of the 10 employees of the old press, nine were asked to return to press positions.

A national search is under way for an editor-in-chief with faculty experience. Speer Morgan, editor of *The Missouri Review*, will not be involved in operation or management of the Missouri Press.

"The decision to move the University of Missouri Press to Columbia campus is an important step in ensuring its full potential is realized and integrated into the academic and research missions of the university," Wolfe said.

CORRECTION: In an earlier version of this story, Speer Morgan's position with Missouri Press was misidentified.

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Invention offers veterinarians reliable way to detect horse lameness



HELPING HORSES Kevin Keegan, a professor of equine surgery in the College of Veterinary Medicine, fastens a sensor apparatus to a horse's head in Clysdale Hall. Deanna Biondo Bell, left, and Meghan Ritzo assist. Photo by Rachel Coward

VETERINARY MEDICINE

Horses genetically programmed to conceal injury

A lame horse risks being euthanized because the condition may have progressed beyond the point of responding to treatment.

But MU veterinary researchers have developed a method that, through early detection, could save a substantial number of injured horses. Tests show that the MU technology dubbed the Lameness Locator can be more accurate than traditional ways used by equine veterinarians to detect injury.

"Lameness often goes undetected or undiagnosed entirely, which can cause owners to retire horses earlier than needed, simply because they cannot figure out why the horses are unhealthy," said Kevin Keegan, lead developer of the Lameness Locator and a professor of equine surgery in the College of Veterinary Medicine. "If veterinarians can detect lameness earlier, before it gets too bad, it makes treatment much easier."

For millions of years horses were prey, and those that showed physical weakness were singled out for attack. The ability to conceal injury was an evolutionary advantage for horses. That's why injured horses try not to limp and don't whimper like dogs.

The genetically ingrained survival strategy has a downside: Spotting symptoms of a horse's injury can be difficult for veterinarians.

Lameness is the most common ailment of horses, occurring when their gait is abnormal. The cause might be an inflammation of a hoof, pulled muscle, bone fracture, neurological disorder, compensation for an injury in another part of the body, or some other condition.

The traditional way to detect injury is by observing a horse's stride for leg favoritism. But the pitfall is the method's subjectivity. "Veterinarians can be biased about what they see," Keegan said.

The Lameness Locator, now in commercial use, places small sensors on the horse's head, right front limb and near the tail. The sensors monitor and record the horse's torso movement while it trots. The recorded information is transferred to a computer or mobile device and compared against databases recorded from the movement of both healthy and lame horses. The computer is able to diagnose whether the animal is symptomatic.

In a recent study published in the *Equine Veterinary Journal*, Keegan and co-author Meghan McCracken, an MU equine surgery resident, explain how they induced lameness by fitting special adjustable shoes on horses. The horses were monitored by the Lameness Locator and observing veterinarians. If no lameness was detected, the shoes were adjusted to further affect gait. The process was repeated until both the Lameness Locator and veterinarians noticed symptoms.

Keegan and McCracken discovered that the sensors device identified lameness earlier than veterinarians nearly 60 percent of the time.

The device was successful nearly 70 percent of the time when the lameness occurred in the hind legs. Keegan attributed the outcome to the sensors' high sensitivity levels.

The Lameness Locator "samples motion at a higher frequency beyond the capability of the human eye and it removes the bias that frequently accompanies human subjective evaluation," Keegan said.

"Having an objective way to accurately quantify and assess lameness is helping us help equine patients," McCracken said.

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MU scientists explore the mysteries of the human brain

BRAIN IMAGING CENTER

Research may lead to helping people with autism, Parkinson's disease

Decreased independence is common to people who experience brain or bodily injuries that affect hand use. This includes 80 percent of amputees and stroke survivors who have impairments to their arms and hands, said Scott Frey, director of the Brain Imaging Center in the Melvin H. Marx Building.

Frey leads research using brain-imaging technology to understand how the mind controls movement, which he hopes will lead to improved rehabilitation. There is limited knowledge of how the brain controls hand movements and how it adapts to hand loss, he said.

"Our goal is to learn about basic brain organization and how the loss of a limb or dysfunction changes that organization and someone's behavior," Frey said. "These include changes associated with increased use of the remaining hand."

"The reorganizational changes that take place in the brain following the loss of a limb may play a role in a variety of challenges faced by amputees," he continued. A better understanding of these changes may help in the development of more effective rehabilitation strategies for amputees and others who have experienced injuries to the body, brain or spinal cord."

His work is one of a number of ongoing studies at the Brain Imaging Center, a state-of-the-art neuroimaging research facility established in 2008.

MU is one of the few academic institutions to have this technology available on campus and be accessible to departments and industries.

Before 2011, the center was not fully equipped for research, said Nelson Cowan, former director of the Brain Imaging Center and a Curators Professor in Psychological Sciences. But these days, research is its primary function.

Brain studies span fields from psychology and exercise science to nutrition and veterinary medicine. Most research involves functional magnetic resonance imaging (fMRI), which examines brain structure and function, Cowan said.

Cowan's study of memory, published in 2011 in the *Journal of Cognitive Neuroscience*, was an important early work at the center. He used MRIs to show the brain's function during different mental tasks involving working memory, the small amount of information an individual can remember at a time.

"It's just one step in understanding working memory," Cowan said.

The research could lead to learning how the brain functions in cognitive disability cases such as autism, schizophrenia and Parkinson's disease. "We know working memory is deficient in a lot of disabilities," he said.

— *Lauren Foreman*

A handful of research projects are under way at the Brain Imaging Center. Among them:

- John Kerns, an MU psychological sciences associate professor, is evaluating college students before and after their 21st birthday to see if a difference occurs in brain function after the legal drinking age.

- Brick Johnstone, an MU professor of health psychology, is studying how experiences that people label religious or spiritual occur chemically in the brain.
- Jeff Johnson, an MU assistant professor of psychological sciences, is exploring episodic memory and how the brain stamps new memories and makes them permanent.
- Colin Hesse, an MU assistant professor of communication, is researching alexithymia, which occurs when individuals are unable to understand and communicate emotions.

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School of Medicine receives its largest federal grant ever, \$13.3 million



GRANT Tom Trabue (left), ambassador chair of the Columbia Chamber of Commerce, Joanne Burns, executive director of Tiger Institute, Robert Churchill, medical school dean, and Chancellor Brady J. Deaton celebrate the \$13.3 million grant. Photo by Rachel Coward

IMPROVING HEALTH CARE

The school strives to create a national health care model

A \$13.3 million grant, the largest ever awarded to the School of Medicine, will push health-care information technology to the next level not only for providers but also patients. The project aims to use information technology and human relationships to create a national model for delivering health care that's better and cheaper.

On July 26, university officials announced the three-year Centers for Medicare and Medicaid Services (CMS) award, which will fund the Leveraging Information technology to Guide High Tech, High Touch Care program, or LIGHT. The new technology and services could save an estimated \$17 million in health care costs over three years at MU, and the program will train 420 workers and create 30 jobs, Chancellor Brady J. Deaton said.

High-tech aspects of LIGHT include computer dashboards for providers and patients, said Joanne Burns, executive director of the Tiger Institute. Physicians will be able to view medical information by individual patient, groups of patients with the same disease and all patients they care for. They'll be able to visualize key information for a patient at the point of care. At other times, they'll be able to reflect on their performance compared to other physicians, Burns said. These comparisons can offer physicians ideas on how to give better care.

Patients, too, will have online access to dashboards of their medical information. They'll also receive reminders about appointments and medications, and have access to educational materials keyed to their needs. Burns said such information could help patients take better care of themselves. "It will enable patients to be proactive and work with their physicians in a way that can change the game for them."

The high-tech dashboards will be “agnostic,” said Karl Kochendorfer, director of clinical informatics for MU’s family and community medicine department. That is, the dashboards will work with any of the rapidly growing number of electronic medical records providers now mandated for use nationwide.

The high-touch aspect of LIGHT includes training a new workforce of health care coordinators who will work with physicians and their patients, said Jerry Parker, director of LIGHT. He said this new provider type will form relationships with patients, educate them and coordinate their care. Another new type of worker is health information analyst, who will mine population-level data and look for patterns that physicians and coordinators can use to improve care.

Kochendorfer said the health information analysts will expand the team that follows patients. That looks costly, but the opposite may be true. For instance, he said, studies of care coordinators show their proactive work decreases emergency visits and possibly hospital stays.

“If we can show that we are saving costs, then CMS will redirect some of those savings to providers, especially if we are improving the quality of the care we are delivering,” Kochendorfer said.

“That’s value-based purchasing. They want to be able to get more quality for lower cost, and we believe that our system can provide the framework to do that.”

— Dale Smith

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Mizzou Weekly

Aug. 30, 2012 Volume 34, No. 2

Health Care CEO to retire Dec. 31

James Ross, the CEO of MU Health Care, will retire Dec. 31, officials announced Aug. 23. Ross is credited with leading the system to embrace cutting-edge technology and information services. Under his direction, MU Health Care opened the state-of-the-art Missouri Neurosciences Center, initiated tobacco-free policies at its facilities and grounds, and started the Healthy U initiative designed to improve community health.

"Thanks to Jim Ross, MU Health Care is well positioned to continue meeting our mission of improving the health of all Missourians," Chancellor Brady J. Deaton said in a news release.

Ross joined MU Health Care in 2004. Prior to that, he served as president and CFO of the University Health Systems of East Carolina in Greenville, N.C.

"Jim's retirement will be a loss to the central Missouri community as well as to the health system and the state of Missouri," said Harold A. Williamson Jr., vice chancellor of the University of Missouri Health System.

Mitch Wasden, MU Health Care's chief operating officer, will begin as CEO and COO Jan. 1.

"He and our new interim dean, Dr. Les Hall, are good partners for our continuing efforts to closely align our hospitals, clinics and physicians," Williamson said.

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Show your campus pride every day



Linda Bennett

Reflections from a former ACE fellow

By Linda Bennett

Editor's note: *Linda Bennett, an associate professor in the College of Education, recently concluded a year as a fellow of the American Council of Education (ACE), the major coordinating body for the nation's higher education institutions. As a fellow, Bennett traveled to dozens of universities and colleges around the world investigating digital media and globalization and their influences on higher education. Her travels gave her greater appreciation for the campus aesthetics and community at the University of Missouri. She has written an essay about it.*

As a 2011–12 fellow of the American Council of Education, I came to realize excellence in my own backyard, the University of Missouri.

The ACE program is a unique and innovative higher education leadership development program that helps prepare senior leaders to serve American colleges and universities. Part of what makes the program special is that we spend extended time on another campus, working directly with that institution's president. In my case, I gained tremendous value from working with the leaders at the University of North Carolina System, including President Tom Ross and Vice President Suzanne Ortega.

I now see Mizzou with a different lens, a result of lessons learned from a year of discovering higher education. After visiting more than 35 institutions around the world, I can honestly say that we have one of the most beautiful campuses. I encourage you to walk around campus, smell the flowers and observe the lush greenery. Along the way, thank those that work year-round to make the grounds beautiful and care for our buildings.

On a campus visit to Davidson College in Davidson, N.C., I wore a red jacket as a nod to the college color. People noticed and commented. It was fun to see how pleased they were that I was wearing their "family's" color. Mizzou's colors are black and gold. When you wear Mizzou attire, it sends a message that you are proud to be part of this family. I encourage you to try it.

On the University of Florida's campus, I saw the Gator come to life. Faculty and staff extend their arms forward and move them up and down like the jaws of an alligator. When other fellows and I were rewarded with Gator prizes during an event, we were cheered by people doing the Gator clap.

It's important on campus to encourage the community to show school spirit. At MU, we demonstrate that with the M-I-Z, Z-O-U cheer. (By the way, would a tiger or 'gator win in a fight? I guess we'll have to wait for the Southeastern Conference matchup to find out.)

Reflections on a year well spent are fine. But it's better to give back. For the fall and winter semesters, I am the special assistant to the provost's office and look forward to serving and giving back to the Mizzou community.

Remember, our Mizzou family is only as good as its members. I hope you will show your commitment to the institution by showing people respect and sharing in the responsibility for the wellbeing of Mizzou.

There will be difficulties, but that is true of any family. What matters is how we work through tough times. Make your family proud by advancing and advocating for Mizzou.

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MU Health Care among most wired

For the second year in a row, MU Health Care has been recognized as one of the nation's "most wired" health systems, according to the 2012 Most Wired Survey released in the July issue of the American Hospital Association's *Hospitals & Health Networks* magazine.

The survey recognizes top hospitals in the country that are making progress in the adoption of health information technology specific to the areas of infrastructure, business and administrative management, clinical quality and safety, and clinical integration.

"We are building an information technology infrastructure to provide our practitioners and administrators with the tools they need to advance patient safety and care, while improving how we deliver that care," said Jim Ross, chief executive officer of MU Health Care.

"Receiving this award for two years straight not only recognizes our progress in the use of information technology, but also shows us how we compare to other organizations across the country in this area."

During the past few years, MU Health Care has implemented numerous improvements to its electronic medical record. For example, in June 2010, MU Health Care began using a bar-coding system with unique bar codes for patients, medications and nurses.

Bar codes are scanned to ensure that correct medication is provided at the right time, in the right dose and to the right patient. In December 2010, MU Health Care introduced a computerized provider order entry system, which allows physicians to enter medication orders directly into a computer, eliminating the potential for misreading handwriting on paper orders.

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Launching Tiger Landing

The Reynolds Alumni Center at 107 Conley Ave. has long been a place where alumni and friends gather on football game days before heading off to tailgate parties or seeking out old campus haunts.

This fall, the Mizzou Alumni Association is throwing open its doors and formalizing the welcome center.

Starting three hours before football home games, the center will host an array of family-friendly activities. Admission is free to the building and to Kids' Zone with its inflatable toys nearby on Carnahan Quadrangle.

Tours of campus and MU's botanical garden depart from the front of the building. Inside, big-screen televisions will show football games, and vendors will sell food and drink.

For more information, visit mizzou.com (<http://mizzou.com>).

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Mizzou on iTunes U

Mizzou is on iTunes U, Apple's distribution system for university lectures, performances and other educational content.

The success of Mizzou on iTunes U depends on faculty and staff providing high-quality content. Submissions continue to be accepted from faculty and staff.

The content should be educational. Lectures, demonstrations, news, events and information on groundbreaking research are examples of appropriate materials.

Materials uploaded to iTunes U are publicly available and accessible to anyone using the iTunes software. Content will also show up in searches of the iTunes Store.

For more on iTunes U, including information on submitting material, visit itunesu.missouri.edu (<http://itunes.missouri.edu>).

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Patriot Day Barbecue

Mizzou will honor its military veterans 5:30–7:30 p.m.

Sept. 11 at the Patriot Day Barbecue on the north end of Francis Quadrangle. Mizzou military faculty, staff and student veterans and their immediate families are welcome to attend.

Beneath a tent will be barbecued hot dogs and hamburgers, as well as desserts and beverages. The Residence on Francis Quadrangle will have an open house, and in its courtyard will be the Raptor Rehabilitation Project, where birds of prey will be on display, provided by the College of Veterinary Medicine. On the residence's front lawn will be information on the Veterans and Shelter Dogs Initiative, which facilitates shelter animal adoptions.

Truman the Tiger and a Columbia Fire Department fire truck will be on site for children.

For more information, email Ashley Hayes at hayesad@missouri.edu.

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