

# EXCELLENCE AND LEADERSHIP IN RESEARCH, TEACHING AND SERVICE

SUMMER 2012 VOLUME TWO ISSUE THREE

## THE HITCHING POST

### Recognition and Honors

Ron Terjung, CVM professor and associate chairman in the Department of Biomedical Sciences, received the 2012 EEP Honor Award from the American Physiological Society. The Honor Award recognizes members of the Environmental and Exercise Physiology section who are 60 or older and who have made significant lifelong research contributions to the scientific advancement of environmental, exercise or thermal physiology while enhancing the objectives of the section.

Alex Bermudez, CVM associate professor in the Department of Veterinary Pathobiology and director of the Veterinary Medical Diagnostic Laboratory, was recently elected as president of the American College of Poultry Veterinarians. His term will begin on Aug. 6, 2012.

Pamela Fry, an internal medicine resident in the Veterinary Medical Teaching Hospital Food Animal Section, was selected as the recipient of the Boehringer Ingelheim Vetmedica student assistantship for her project, "Genomic and genotypic characterization of staphylococcus chromogenes isolates from cases of bovine mastitis."

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## COLLEGE GRADUATES 70 NEW VETERINARIANS

**W**hen James Gilkerson received his Doctor of Veterinary Medicine in what was the "new" Hearnes Center in 1974, his plan was to move to Mount Vernon, Mo., open a veterinary practice, and spend his career there. For nine years, that is what he did. But as the years passed, an awareness within himself grew that his plans had not taken him down a path that was right for him.

"I knew I needed to enjoy where I was, or change where I was," he said. In search of greater career fulfillment, Gilkerson left the veterinary practice and took a job with a company developing cardiac rhythm devices for people with heart conditions. He now holds the title of distinguished corporate fellow and medical advisor for research and development at Boston Scientific Corp. "Every day I am working on something that hasn't been

*Continued on page 2*





## Recognition and Honors

(Continued)

**Craig Franklin**, CVM professor in the Department of Veterinary Pathobiology, was selected by the American Association for Laboratory Animal Science as the 2012 recipient of the Scientific Brewer Award.

**Linda Berent**, who had been serving as the interim Associate Dean for Academic Affairs since the retirement of Dr. Robert Youngquist, has been named to the position permanently effective June 1, 2012.

**The One Health Initiative** recently recognized the MU College of Veterinary Medicine for its "Outstanding Visionary One Health Program." The One Health Initiative is a movement to forge co-equal, all inclusive collaborations between physicians, osteopaths, veterinarians, dentists, nurses and other scientific-health and environmentally related disciplines.

**Joseph Thomas Garrity**, a University of Missouri School of Medicine third-year student who earned his master's degree through the Comparative Orthopaedic Laboratory, was selected to receive a 2012 American Society for Bone and Mineral Research Young Investigator Award for his work on osteochondral allograft preservation, which was the subject of his master's thesis.

## Graduation continued

done before. We've turned ideas into reality. That's how I've satisfied my intellectual needs," he said.

Gilkerson, who delivered the commencement address on May 11 to the MU College of Veterinary Medicine Class of 2012, advised the 70 graduates to evaluate their emotions with clinical detachment and find out what makes them feel good about themselves and be willing to embrace change.

He also stressed the need to remain current with developments within the scientific community. "The things you learned in veterinary school, didn't exist when I was in veterinary school."

Members of the Class of 2012 selected Michael Hupp to give a response on their behalf. Hupp began by describing his classmates as they were four years earlier in terms of a clinical patient whose case he was describing. He went on to talk about the bonds that developed during their education. He recounted how they had helped each other not only through academics, but also through life-threatening illnesses, childbirth, and even the loss of family members. He joked that the evidence of their closeness was demonstrated by the number of students who had married each other.

James Schuessler, president of the Missouri Veterinary Medical Association, led the graduates in reciting the Veterinarian's Oath. Ron



*James Gilkerson, DVM*

Cott, associate dean for Student and Alumni Affairs and Development director, presented the graduating class for investiture, conducted by Joanne Kramer, associate teaching professor, Tim Evans, associate professor, and Linda Berent, interim associate dean for academic affairs. David Bradley, UM Board of Curators chairman, conferred the Doctor of Veterinary Medicine degrees.

Veterinarians completing internships, residencies and graduate programs at the CVM also received recognition.

CVM Dean Neil C. Olson, who served as the master of ceremonies, shared with the class a quote from George Washington Carver: "How far you go depends on your being tender with the young, compassionate with the aged, sympathetic with the striving, and tolerant of the weak and the strong — because someday you will have been all of these."





## CVM'S DONOR DOGS AND CATS SAVE LIVES

**H**appy endings. For sick pets, and the families that love them, these blood-donor dogs are lifesavers.

A blood transfusion from Elmo is credited with saving the life of Gunner Harrison, a chocolate Labrador who last Thanksgiving ate half a large bag of rat poison in the Harrisons' barn. Frantic to save their beloved dog, the Harrisons rushed him from Hallsville to the MU Veterinary Medical Teaching Hospital's Small Animal Clinic, where veterinarians started the lethargic animal on an IV and vitamin K and gave him transfusions with plasma donated by Elmo.

To donate the blood, Elmo lay quietly on a stainless steel lab table for about 15 minutes, soothed by gentle voices, plenty of petting and the anticipation of a dog cookie. Like the rest of the team, he's used to the donation process.

"It doesn't hurt them. We rub ears, talk softly and give belly rubs, if they prefer that," says Leah Cohn, DVM, a professor at the College of Veterinary Medicine who manages the hospital's blood bank.

### RETIRED RACERS

Most of MU's canine blood donors are retired race dogs who work with Vet Med before they're adopted by families. The animals serve as blood donors for one to two years before being adopted.



Photo by Shane Epping

"We keep them until they find a home. They were committed to us; we're committed to finding them a home. We've never had one we couldn't place," Cohn says.

Greyhounds make ideal blood donors. Many have a universal blood type that is unlikely to cause adverse reactions in transfusions, and they're large enough to give a full unit of blood monthly. Their lean musculature and prominent veins make blood collecting easy, and because they're bred to run, racing greyhounds produce a higher concentration of oxygen-carrying red blood cells.

MU veterinarians keep the donor animals at the peak of health with routine exams, tick prevention, proper diets, exercise and attention. The greyhounds wear basket muzzles during their walks to prevent them from eating anything they might find on the ground. The muzzles are for the dogs' own protection, Cohn says; they're "lovely dogs, not vicious."

### A CAT'S TALE

Transfusion medicine is an impor-

tant part of veterinary medicine, so having blood to give patients is critical. Donated blood is used to treat animals with anemia, bleeding during surgery, reactions to ingesting poison and other indications. Serving as MU's blood donors for cats is a group of felines living in a room known as Cat Wonderland.

The veterinary hospital typically uses about 10 units of blood a month for dog and cat patients combined, but a very sick animal can use a lot of blood. That was the case with Spriggett, a cat from Cherryville, Mo. Sarah Carney and John Sunderland's pet became seriously ill with bobcat fever, a tick-borne disease. While searching the Internet, the couple discovered Cohn had researched a new treatment for the disease, so they made the three-hour drive to MU, where Spriggett would be hospitalized for a week. Spriggett received an emergency course of antibiotics, a unit of plasma and four units of whole blood from a previously infected cat that had survived the disease.

At 11:00 one night, Carney received a call from the hospital saying Spriggett needed red blood cells, but MU's supply was depleted, so veterinarian Julie Trzil went home and drew blood from her own cat. In thanks, Spriggett will donate blood next month for a study on bobcat fever.

"We owe them. We brought home a healthy cat," Carney says.





## RESEARCHERS INCREASE TISSUE STORAGE TIME

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For years, doctors have been able to treat defects in joint cartilage by grafting cartilage donated from cadavers into patients' bad joints. Using current methods, donated cartilage can be stored for 28 days before the tissue becomes too degraded to transplant into a patient. Now, researchers from the University of Missouri have found a way to store donated cartilage more than twice as long.

"Currently, nearly 80 percent of all donated tissue has to be discarded because it deteriorates before a transplant bank can find a match with a patient who needs a transplant," James Cook, a researcher from the MU College of Veterinary Medicine and the William C. and Kathryn E. Allen Distinguished Professor in Orthopaedic Surgery, said. "By more than doubling the time we can store tissue, the odds of matching the tissue with a recipient are greatly increased."

In a study due to be published in the *Journal of Knee Surgery*, Cook and Aaron Stoker from MU's Comparative Orthopaedic Laboratory, Clark Hung and Eric Lima from Columbia University, and James Stannard, the J. Vernon Luck Sr. Distinguished Professor in Orthopaedic Surgery in the MU School of Medi-

cine, tested tissue using their patented system, which includes storing the tissue at room temperature in a specially designed container and storage solution. The researchers found that their system preserved transplant-quality tissue for as long as 63 days. The collaborative team of researchers also developed a way to monitor the quality of the stored tissue simply by testing a few drops of their patented storage solution.

"Not only have we been able to increase maximum tissue storage time from 28 to 63 days, but tissue stored for 63 days using our new method is of much higher quality than tissue on its 28th day of storage using the current method," Cook said. "This is important because the quality of the tissue at the time of a transplant procedure markedly affects long-term success for the patient."

The new storage system can be used on many different types of joint cartilage, including knee, hip, shoulder, elbow, and ankle tissue. Doctors can use this tissue to treat a number of different defects including traumatic injuries, sports-related injuries, developmental defects and some types of arthritis-related cartilage loss. These tissue transplants can last for 15 years or more before needing to be replaced with traditional metal



*James Cook, DVM*

and plastic joint replacements. Cartilage grafting has been an FDA approved practice for years, so the new MU storage system is under licensing negotiation for clinical application. Cook is optimistic that the first grafts stored using the new system will be available to help patients at the Missouri Orthopaedic Institute within a year.

This study is a result of collaboration through Mizzou Advantage. Mizzou Advantage is a program that focuses on four areas of strength: food for the future, media of the future, one health/one medicine, and sustainable energy. The goals of Mizzou Advantage are to strengthen existing faculty networks, create new networks and propel Mizzou's research, instruction and other activities to the next level.





## RACEHORSE RETURNS TO WINNER'S CIRCLE

Using a novel therapy, a team at the University of Missouri College of Veterinary Medicine has helped a veteran race horse become a contender once again.



*Shannon Reed,  
DVM*

Nate's Mineshaft, a 5-year-old, thoroughbred race horse, developed inflammation around his fetlocks, a joint comparable to the human ankle, causing him serious pain. The inflammation had become the size of softballs when Nate's Mineshaft arrived at MU, preventing him from bending his ankles. This condition often leads to race horses being retired from the racing circuit. However, MU veterinarians performed a new therapy on Nate to reduce the inflammation and prevent further damage to his fetlocks.

The therapy, called Interleukin-1 Receptor Antagonist Protein (IRAP), introduces a helpful protein harvested and magnified from the horse's blood that helps decrease and prevent inflammation in the horse's joints.

"During IRAP, we draw the horse's blood and place it in a syringe with specialized glass beads that stimulate the production of a unique protein during a 24-hour incubation period," said Shannon Reed, assistant professor of equine surgery and lameness at the MU College of Veterinary Medicine. "After 24 hours, the serum with the enhanced protein levels is divided into multiple doses that are injected into the horse's joint weekly for four to five weeks. Because this treatment uses the horse's own blood, there is no risk of disease transmission or immune rejection from foreign proteins."

Before receiving treatment at MU, Nate's Mineshaft had won \$58,568 on the race track. Since his treatment at MU, Nate has won \$592,806 racing. In fact, since his recovery, Nate has won five races, including two graded



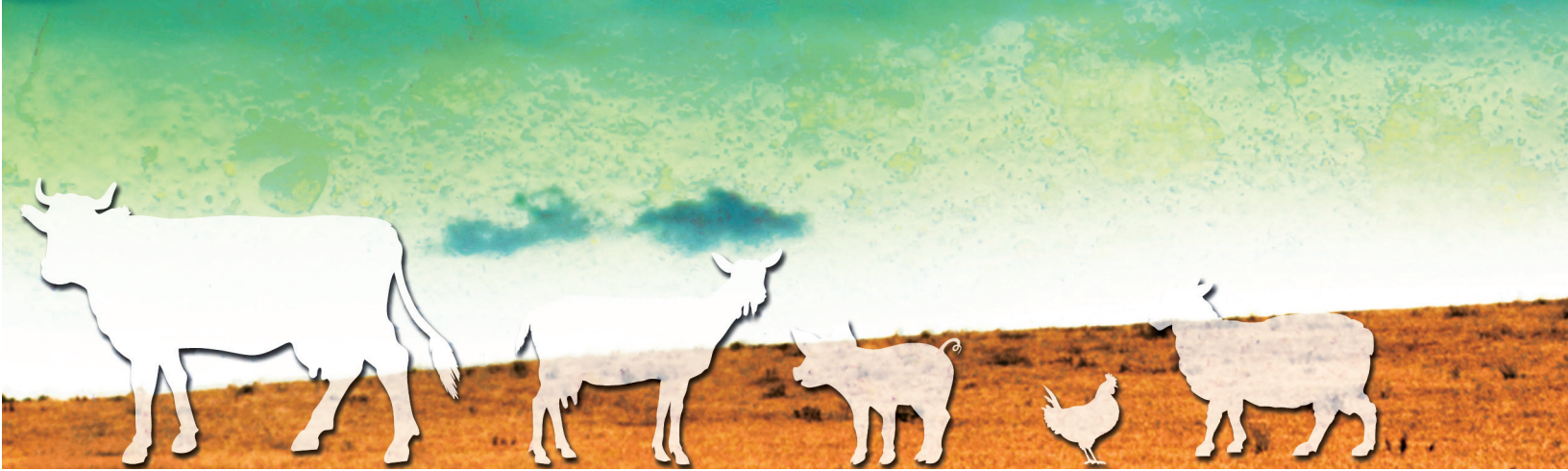
stake races in Louisiana and a graded stakes race in Texas. His performances are earning him widespread media attention.

"It really is a Cinderella story," Reed said. "Nate was purchased for \$8,000 and has won over a half million. His success in the more competitive graded stakes is particularly impressive considering his injuries and his long road back to recovery."

In addition to the weekly IRAP therapy, MU veterinarians guided Nate through physical rehabilitation. Each day, the horse was put through an exercise schedule that consisted of a warm-up, motion exercises, cardio training on a treadmill and a cool down. Nate's owners credit the MU doctors with the horse's resurgence.

"They keep up with new treatments, and are on the cutting edge," said Scott Reiman, co-owner of Nate's Mineshaft. "Without Dr. Reed and her staff's excellent care and knowledge of what to do for Nate, he would never have accomplished what he has so far."





## **'CVM MOM' NAMED DEAVER AWARD FINALIST**

MU College of Veterinary Medicine Admissions Advisor Kathy Seay was honored during the University's Staff Recognition Week as a finalist for the 2012 Mick Deaver Memorial Award. The Staff Advisory Council established the Mick Deaver award in 1980 to honor staff members who exemplify Deaver's concern for fostering good relations with students. Major Mick Deaver was the associate director of the University Police Department. He was killed in an accident in 1980.

Seay has served as the admissions advisor the CVM for the past 14 years. Among the comments made by her nominators for the honor were: "Kathy's alternative title should be 'CVM Mom.' For veterinary students, academics and life in general can be very stressful — but they all know that Kathy's door is always open, her hugs are genuine and the candy dish is full." "Her personality is warm, nurturing and up-



*Kathy Seay*

beat; students just know they can find help for anything from her. Even during the admissions interview process, when a couple hundred nervous and scared potential vet students come to the College, it's Kathy that helps calm that stressful time." Prior to the joining the College, Seay was the admissions advisor for the MU School of Medicine, a position she held for 17 years. A Missouri native, she and her husband, Bill, have lived in Columbia for the past 34 years and raised their three children here.

## **Phi Zeta Day Celebrates Research**

Members of the MU College of Veterinary Medicine chapter of Phi Zeta held their 35th annual Research Day May 4. Veterinary students, interns, residents and graduate students within the college had an opportunity to present their studies and findings in either a poster or a lecture format. A total of 51 presentations were made. Eleven members from the Class of 2012, 10 members from the Class of 2013, three interns and five honorary members were welcomed into the local chapter. The event was sponsored by the CVM Dean's Office, the Office of Research and Nestle Purina.

The following students captured awards for their presentations:

### **Poster Categories:**

*Veterinary Professional Students*

Douglas Suntrup, first place; Ryan Birks, second place; Nadia Fridman, third place.

*Second- and Third-year Residents and Graduate Students*

Rachel Scott, first place; Chamisa Herrera, second

place; Carrie Lasky, third place.

### **Presentation**

#### **Categories:**

*Veterinary Professional Students*

Zijin Zhou, first place; Danan Bradley, second place. *Second- and Third-year Residents and Graduate Students*

Jacqueline Glascock, first place; Anna Cunningham, second place/tie; Glenn Jackson, second place/tie.

### **Combined Poster and Presentation Categories**

*Interns, First-year Residents and Graduate Students*

Lindsay Donnelly, first place; Kevin Donnelly, second place; Carmela Pratt, third place.

### **Best Overall Veterinary Professional Student**

Jacob Moskowitz.

### **Best Overall Intern, Resident or Graduate Student**

Brandie Morgan.

### **Honorable Mention Veterinary Professional Students**

Klay Lapa, Kaitlin Steele, Lauren Henderson, Carrissa Wood and Whitney Phipps, Sarah Timmerman, Jennifer Menning.





## TREATMENT FOUND FOR DEADLY CAT DISEASE

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One star ticks, which are notorious carriers of many diseases including cytauxzoonosis, or “bobcat fever,” have been spreading across the nation in recent years. As a result, cats across much of the country are now exposed to the deadly disease. University of Missouri veterinarian Leah Cohn, a small animal disease expert, and Adam Birkenheuer from North Carolina State University, have found an effective treatment for the dangerous disease.

“Previous treatment methods have only been able to save less than 25 percent of infected cats, but our method, which is now being used by veterinarians across the country, has been shown to save about 60 percent of infected cats,” Cohn said. “While that number isn’t as high as we’d like due to the deadly nature of the disease, our method is the first truly effective way to combat the disease.”

Routinely carried by bobcats and mountain lions, bobcat fever can even infect tigers, Cohn and Birkenheuer found. All types of cats, but only cats, can catch bobcat fever. Cohn calls the disease the “Ebola virus for cats,” saying that it is a very quick and painful death for cats that succumb from the infection. Bobcat fever is easily spread between cats through tick bites, but Cohn and Birken-



heuer found that the disease is not readily passed down through birth like malaria and many other protozoan diseases.

“Bobcat fever affects healthy outdoor cats the most, because they are the most likely to get bitten by ticks,” Cohn said. “The disease acts very quickly and can kill a cat less than a week after it begins to show signs of being sick, so it is important to get treatment from a veterinarian as soon as the cat appears ill.”

Cohn says the best way for cat owners to prevent their cats from catching bobcat fever is to keep them indoors as much as possible. Early symptoms of the disease include sluggishness and refusal to eat.

Pet owners who also have dogs should use tick collars, because while dogs are not susceptible to the disease, they can bring infected ticks into contact with house cats. Cohn says tick preventatives for cats also can help, but owners should be sure to check with their veterinarians to make sure they use cat-specific products because tick collars for dogs can be harmful to cats.

Cohn says her future research involves creating a vaccine to protect cats against bobcat fever. Her work has been published in the *Journal of Veterinary Internal Medicine*, the *Journal of Veterinary Pharmacology and Therapeutics*, and the *Journal of Veterinary Parasitology*.



## COTT HONORED FOR WORK BEYOND THE CLASSROOM

**R**on Cott, associate dean of Student and Alumni Affairs and director of Development at the MU College of Veterinary Medicine, was named as one of this year's Excellence in Education Award recipients. The University of Missouri Division of Student Affairs, in partnership with the MU Parents Leadership Council, presents the award to faculty, staff and administrators who are involved in out-of-class learning experiences with students and who have demonstrated a long-standing commitment to student learning and development. These are individuals who have created innovative learning programs, served as organization advisors, mentored students, or played a role in helping student organizations realize their full potential.

Cott, MU CVM '73, was recognized in particular for his efforts working with two programs at the College. The Veterinary Enrichment Team Building Program, also known as VET, is an orientation program that Cott initiated for the College. VET involves bringing incoming first-year veterinary students together for several days prior to the start of classes. During an intense three days of fun and educational activities, the students learn about communication styles – their own, their classmates and their future clients – and develop skills, such as conflict resolution and teambuilding. They also have an opportunity to get to know

their fellow classmates as well as faculty and staff at the College.

Cott was also commended for his contribution accompanying a group of veterinary students to South Africa so they could earn preceptorship hours while gaining experience in the care of exotic animals. For the past two years, the recipient has traveled with students to a game preserve where they spent several weeks assisting the game preserve staff veterinarian in providing medical care to a variety of wild animals. Among their experiences was spaying a full-grown female lion in the back of a pick-up truck. Cott will escort another group of students to the preserve in July.

Cott was one of 10 members of the MU faculty and staff to receive a 2012 Excellence in Education Award. Students and colleagues nominated a total of seven members of the CVM faculty this year. Other CVM nominees were: Frank Booth, professor in Biomedical Sciences; Craig Franklin, professor in Veterinary Pathobiology; Rebecca Johnson, professor in Veterinary Medicine and Surgery; Marie Kerl, associate teaching professor in Veterinary Medicine and Surgery; Shannon Reed, assistant teaching professor, Veterinary Medicine and Surgery; and Kimberly Selting, associate teaching professor, Veterinary Medicine and Surgery.

### Faculty Promotions are Announced

*Become Effective Sept. 1, 2012*

**Aaron Stoker** was promoted to associate research professor within the Department of Veterinary Medicine and Surgery.

**William Stich** was promoted to professor within the Department of Veterinary Pathobiology.

**Rebecca Johnson** was promoted to professor in the School of Nursing. Johnson holds a dual appointment within the College of Veterinary Medicine in Veterinary Medicine and Surgery.

**Dae-Young Kim** was promoted to associate clinical professor in Veterinary Pathobiology.

**Leona Rubin** was promoted to professor in the Department of Biomedical Sciences.

**Alpana Ray** was promoted to research professor in Veterinary Pathobiology.

**Linda Berent** was promoted to associate clinical professor in Veterinary Pathobiology.

**David Kline** was promoted to associate professor in Biomedical Sciences. In addition to his promotion, he was also awarded tenure.





## AWARDS RECOGNIZE STUDENTS, FACULTY

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University of Missouri College of Veterinary Medicine students received more than \$267,000 in awards during the 2012 Honors Banquet, held May 8 at the Holiday Inn Executive Center in Columbia. The annual event featured the presentation of nearly 200 awards, including scholastic acknowledgment, clinical proficiency, academic and activity recognition, and awards presented in memory of former students and beloved pets.

Professional veterinary medical students shared the evening's spotlight with faculty members and house officers, and also presented awards to those mentors whose teaching and leadership have helped guide them through the veterinary curriculum.

Students in each academic class selected an outstanding teacher to receive 2012 Golden Aesculapius Awards. Winners were Cheryl Rosenfeld, honored by the Class of 2015; Lisa Britt, honored by the Class of 2014; Dusty Nagy, recognized by the Class of 2013; and Tim Evans, who was the honoree chosen by the graduating Class of 2012.

Other faculty members also received recognition. Carol Reinero, associate professor in the Department of Veterinary Medicine and Surgery and director of the Compar-



*The CVM Class of 2012 selected Tim Evans (center) as the recipient of the Pfizer Animal Health Distinguished Teacher Award. He received a plaque noting his achievement from CVM Dean Neil Olson and last year's honoree, Alison LaCarrubba.*

ative Internal Medicine Laboratory, received the Pfizer Animal Health Award for Research Excellence.

This year's Dadd Award, which is given for excellence in veterinary medicine teaching by faculty peers, was presented to Joanne Kramer, an associate teaching professor in the Department of Veterinary Medicine and Surgery. Kramer is a member of the equine faculty.

The final award of the evening was the Pfizer Animal Health Distinguished Teacher Award. Each year, members of the graduating class select as the recipient an outstanding teacher, who through ability, dedication, character and leadership, contributes to the advancement of the profession. The honoree chosen for 2012 was Tim Evans, an associate professor in Veterinary Pathobiology.





# REAR HITCH

## THREE HONORED FOR IMPACT ON CVM

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The University of Missouri College of Veterinary Medicine held a reception to recognize staff members for their years of service to the College and University and to present the 2012 Dean's Impact Awards.

Neil Olson, CVM dean, presented three awards to individuals for their sustained service and contributions to the college.

Carolyn Henry received the Dean's Impact Award presented to a faculty member. Henry, DVM, MS, is a professor of veterinary oncology, the director of the Scott Endowed Program in Veterinary Oncology and is the interim associate director of research for the Ellis Fischel Cancer Center.

She is also the MU faculty facilitator for the University's One Health/One Medicine Mizzou Advantage initiative, which focuses on fostering multidisciplinary research and education relating to translational medicine and the convergence of human and animal health.

Olson presented the Impact Award for a staff member to longtime employee Flo Nelson. Nelson joined the CVM as a clerk for the Department of Veterinary Medicine and Surgery in 1979. She became the supervisor of medical records in 1989 and helped the Veterinary Medical Teaching Hospital transition from a system of 5-by-7-inch index cards

to a near paperless system. She was promoted to her current title of office supervisor in 1993. She was instrumental in setting up and administering the PetSafe Program, which provides temporary housing for pets needing shelter because of fire, floods, emergency medical situations or domestic abuse cases.

She was also credited with organizing the hospital's lobby greeter program and served as the staff representative to the Hospital Advisory Board for more than 12 years.

The dean also presented an Impact Award to an individual outside the College. The 2012 recipient was Rebecca Jones. Jones has served as the facilitator for the CVM's Veterinary Enrichment and Teambuilding (VET) Orientation for incoming first-year students for the past six years. In addition, she facilitates team building activities for the Food Animal Section, training for house officers and a communications orientation for veterinary students as they transition from classroom to clinics.

Jones also played a key role as a consultant during the College's recent strategic planning process. She met regularly with the strategic planning parent group and participated in subgroup meetings.

Receiving awards for five years of service were:

Tracey Berry, Gina Damico Landeck, Dean's Office; Kim Palmer,

Biomedical Sciences; Jesse Bowman, Veterinary Medical Diagnostic Laboratory; Wayne Asbury, Jaime Marulanda, Ashley Taylor, Janiene Dey, Kelly Michael, Stephanie Gilliam, Lance Rynning, Veterinary Medicine and Surgery; David Birk, Kelly Hawk, Krista Rodger, Veterinary Pathobiology.

Receiving awards for 10 years of service were:

CiAnne Pinzon, Cynthia Richards, Dean's Office; David Harah, Biomedical Sciences; Candace Kassel, Nathaniel Kling, Veterinary Medical Diagnostic Laboratory; Tendai Mutangadura, Veterinary Pathobiology.

Receiving awards for 15 years of service were:

Rose Leykamp, Dean's Office; Brenda Klemme, Jianping Chen, Biomedical Sciences; Jami Davidson, Veterinary Medical Diagnostic Laboratory; Ed Durham, Janet Wolf, Veterinary Medicine and Surgery.

Receiving awards for 20 years of service were:

Matt Haight, Ann Phillips, Veterinary Medicine and Surgery.

Receiving awards for 25 years of service were: Michelle Lancaster, Debbie Becker, Veterinary Medicine and Surgery.

Recognized for 40 years of service was Ron Poe, Veterinary Medicine and Surgery.