



# Department of

# ANIMAL SCIENCE

Summer

A Biannual Newsletter for Friends and Alumni

2013

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## Department Head's Notes



Yes, we're back in the newly renovated Brehm Animal Science Building as of January 8, 2013. If you haven't seen our new "digs," please stop in for a visit. We have held several events already, including an abbreviated version of Round Up (the full version will be held next year), All East Collegiate Livestock Judging Contest (with teams from Illinois, Florida, Purdue, Ohio State, Georgia and others), B&B Lamb Sale, State 4-H Livestock Judging Contest and, coming in August, the Tennessee Farmers Cooperative Beef Bonanza. The UTIA Ag Day will be held on Oct. 5 in the arena as well. We are still looking for a name (or names) for the arena with our development activities if any alumni would like to visit more.

The B&B Lounge has been shifted down the hall to be more centrally located with the classrooms on the first floor with all new furniture (please do not ask where the couches went) but no pool table yet. We also have two new stadium-type classrooms located in the first section of the arena that hold approximately 150 people each, which will accommodate our increasing student body. We are growing and still targeting those top students in youth activities across the state. Jessy Harris Shanks, Grey Parks and David Roper continue to visit with students and parents and have lead the charge in bringing in some top freshman this fall.

Our research labs are state of the art and getting better. We hired Travis Mulliniks as a 100 percent research beef nutritionist last fall, and he has hit the ground running with projects. With retirements on the horizon, we are currently searching for a dairy nutritionist with a 60 percent research and 40 percent teaching appointment to lead the department in teaching our core nutrition and ration formulations courses. We are also

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interviewing for Fred Hopkins' replacement as our Extension veterinarian. This position will be 65 percent Animal Science and 35 percent College of Veterinary Medicine, similar to Hopkins' appointment. We hope to have both of these positions filled by the first of August, then move to start filling other vacancies in the department as quickly as our budget allows.

Claudia Baney and Jim Neel are working well to continue the success of our youth livestock activities. Bridgett McIntosh has been awarded funding for her equine research and Extension activities, so please stop by the Middle Tennessee AgResearch and Education Center to visit the equine pastures that include a horse donated to us by a famous former professor, Warren Gill! Justin Rhinehart continues to work on the Master Beef Advance that should be coming to you soon next year, and David Kirkpatrick is ready for another set of bulls for test and a couple of research projects that we'll discuss more in the future. (Sneak peek: They deal with hooves and another temperament.)

All in all, I've been department head for about 18 months and couldn't be prouder of the department, faculty, staff, students, alumni and clientele. We are all working hard (some haven't even had the time to unpack boxes yet) and moving the department forward. Mike Smith won the Chancellor's Ready for the World Award for his international activities with students. He and Jessy Harris Shanks both won outstanding teaching awards from the college. The department again gave out close to \$500,000 in scholarships to our undergraduate and graduate students. And we continue to grow, with our enrollment nearing 500.

If you have a top prospect for us to recruit or assist, just want to visit, or have an idea to keep us moving forward, please feel free to give me a call anytime or just stop in the office. If we have the chance, we'll even get you branded with the UT Animal Science brand (e.g., a shirt or hat). Thanks and come visit!



F. Neal Schrick  
Professor and Head  
Department of Animal Science

## Scholars Participate in National Equine Science Society Symposium

Bridgett McIntosh, Grey Parks and Amanda Hardcastle represented the University of Tennessee at the 23rd Symposium of the National Equine Science Society, hosted by New Mexico State University in Mescalero, N.M., on May 27-31, 2013. Research developed and led by McIntosh and Gary Bates on "The effects of cutting height, nitrogen fertilization and harvest time of day on the nutrient content of bermudagrass for horses" was presented by McIntosh in the General Oral Session and by Hardcastle ('13) in the Undergraduate Competition. This event was the first time the University of Tennessee had been represented in a student competition at the symposium, and Hardcastle won first place in a very competitive undergraduate group. Both abstracts presented have been published in the Journal of Equine Veterinary Science and include co-authors Gary Bates, David McIntosh, Grey Parks and Joe Beeler.



*Amanda Hardcastle poses with her awards for winning first place in every undergraduate group.*

## Intern Spotlight: Sarah Orr

“Why are you working here when you are an animal science major?” I heard this question frequently last summer during my internship with Farm Credit Mid-America. Many people, including my mentor, found it odd that I wanted to intern with Farm Credit because I was an animal science major. To be honest, I was actually sort of surprised when I was accepted, because I also assumed that I did not meet the normal requirements. I simply had a desire to learn what Farm Credit was about, what the company stood for, and how they impacted the agricultural industry. I will be the first to tell you that most of my hands-on animal science knowledge was used only for entertaining my mentor; however, the public speaking skills and professionalism I gained from my major helped me to stand out in our final presentations.



I spent the summer working in the Dandridge, Tenn., Farm Credit office where I learned everything from how to work financial computer systems to appraising properties. I mainly served as a credit intern working in the Special Assets Unit, and I was tasked with performing an audit of the current value stream of an acquired property.

I shadowed the acquired properties manager, Shane Patterson, whose job was to actively market properties that Farm Credit owned. Shane showed me so many things about marketing properties, including how to value properties, handle the expenses associated with owning a property, gain ownership, and what goes into each sale of a property. I spent many afternoons riding in a truck to a little tract of land that Farm Credit owned, and I must say that I saw plenty of beautiful views and new sights.

Because of what I learned, I was able to make recommendations to the company that helped change the way acquired properties are handled. My main suggestion was to develop a website that marketed the acquired properties to the public; the website is accessible at <http://www.e-farmcredit.therealestatehost.com>. I also shadowed employees in other units of Farm Credit and gained a better understanding of each facet of the company from loans to customer service.

Sure, I was not the likely candidate for a Farm Credit internship, but I can say that I am a better person after having the experience. Working in a different sector of the agricultural industry other than what I planned to spend the rest of my life doing provided me with a unique view of how everything works together.

If I had to give one piece of advice to undergraduates, I would say that you should seek out every opportunity to learn through hands-on experiences and internships because the connections and knowledge you gain are priceless. Do not limit yourself to your own field but open yourself up to new learning experiences that have the potential to broaden your horizons as well.



## What's New in Applied Dairy Research?

Since Peter Krawczel joined the department roughly 18 months ago, he has been involved with numerous projects. Below are descriptions of his impressive work so far.

### **Effect of Previous Experience on Adaptation to New Housing Facilities**

This project resulted from Krawczel's arrival at UT coinciding with the construction of the new facility at the Little River Animal and Environment Unit. The ability of lactating dairy cows, with or without previous experience with headlocks, to adapt to a new facility was evaluated using feeding behavior. This work will allow dairy farmers to understand how their cows may respond to a new or renovated housing facility.



### **Behavioral Response to *Strep. uberis* challenge**

This project was conducted in collaboration with several other Department of Animal Science faculty who were evaluating the effectiveness of a novel mastitis vaccine. The overall objective was to determine behavioral changes that result from a mammary infection. It is expected that this research will lead to improved detection of cows suffering from mastitis.

### **Behavior of Dairy Cows Housed in Pasture During the Late Gestation Period**

The weeks during the transition period (i.e., the three weeks before and after calving) of the lactation cycle are some of the most stressful and critical. The understanding of how cows behave during the transition period is based on research conducted on cows in confinement housing. This project will provide data for the behavior of cows on pasture during this time, which is a common management strategy in Tennessee. Understanding the behavior of cows with this management strategy may ultimately allow for the identification of cows experiencing difficulties or inadequacies in housing facilities.

### **Effects of Bedding Surface on the Welfare of Dairy Calves**

Research with lactating dairy cows has begun to establish the relationship between cow comfort and milk production. The objective of this research project was to determine if a similar relationship between comfort and growth rate was evident for calves. The treatments evaluated were gravel bedding, a common approach to calf housing; sand, the gold standard for bedding dairy cows; and rubber mats, which have increased cow comfort for mature cows. This project also included an evaluation of fly pressure resulting from each of these bedding surfaces.

### **Effects of Milk Allocation or Paired Housing on the Behavior, Growth Rate and Health of Pre-weaned Dairy Calves**

The overall objective of this project was to evaluate two new management strategies for dairy calves — accelerated growth feeding programs or housing of pairs of calves instead of individual calves — to determine if behavioral changes could be used to predict calves experiencing respiratory disease. Additionally, differences in behavior and growth rate were evaluated to establish overall treatment differences.

## Validation of a Data Logger for the Assessment of the Feeding Behavior of Dairy Cows Housed in Confinement

Recently, one emphasis of behavior-focused research has been on evaluating behavioral changes to identify cows in the early stages of disease. The feeding behavior of dairy cows in early lactation has shown promise for identifying cows with metritis or ketosis. The limitation of this research is that it relies on feeding systems that are not typically utilized by those who are not research dairy farmers. A data logger that attaches to a collar worn by a dairy cow has promise for collecting these feeding behaviors in housing facilities that would be found on commercial farms. The goal of this project was to determine if this approach was valid by comparing the data collected using the collar against direct observation.

## Academic Quadrathlon Team Participates in 2013 Southern Section Contest

The Department of Animal Science's Academic Quadrathlon Team finished strong in the 2013 Southern Section Contest hosted by the University of Florida in January. Team members included Meredith Mayfield, Brittini Jones, Sarah Orr and Emily Tuttle. This contest is meant to test the knowledge and skills of animal science students and is always a challenging endeavor. It consists of a quiz bowl competition, lab practicum, oral presentation and written exam, all of which require students to think outside the box and work as a team. This year, students performed tasks such as loading cattle onto a trailer, saddling a horse, performing a California Mastitis Test on milk, identifying feedstuffs, performing AI (artificial insemination) on female reproductive tracts, and grading carcasses during the lab practicum portion of the contest. Students are given only a certain amount of time to perform tasks such as these and have to work as a team to complete the work at each lab stop. Mayfield, Jones, Orr and Tuttle worked very well together and tied for fourth place in the lab practicum. They placed seventh in the oral presentation and second in the written exam. They placed sixth overall. This year, 11 teams competed in the Southern Section Contest, including Mississippi State University, Tuskegee University, Oklahoma State University, University of Florida, Middle Tennessee State University, Texas A&M University, Auburn University, University of Arkansas, Berry College and University of Georgia.



*Team members (L-R) Meredith Mayfield, Emily Tuttle, Sarah Orr and Brittini Jones work at the reproduction station.*

## 2013 All East Collegiate Livestock Evaluation Contest Hosted by UT Animal Science

The 2013 All East Collegiate Livestock Evaluation Contest was hosted recently by the Animal Science Department in the newly renovated Brehm Animal Science Building. This contest is a rotational contest that is hosted each year  
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by member universities. This year 11 universities and 80 students from Pennsylvania to Florida to Louisiana competed in the contest. In total, the contestants evaluated 105 head of livestock over a three-day period. The 2012 UT Livestock Judging Team began preparing for the contest in late December and provided the leadership during the contest. Additional help was provided by the Block and Bridle Club and the CASNR Ambassadors to ensure the event was a success. Local producers provided high-quality livestock, and the contestants had the opportunity to test skills associated with live animal carcass evaluation (day one), breeding stock selection (day two) and general livestock judging and reasons (day three). The University of Illinois won this year's contest, and Purdue University will host next year.

Sponsors included Farm Credit of Mid-America, River Valley Ag Credit, Tennessee Cattlemen's Association, Valley Farmer's Co-op, Dr. John Montgomery, Walt Dixon, Swine Genetics International, Top Cut Genetics and Lean Value Sires.

## Faculty Spotlight: Travis Mulliniks

Travis Mulliniks grew up on a small family cow-calf operation that also raised and trained American quarter horses in Preston, Okla., a small town of roughly 250 people in eastern Oklahoma. After graduating high school, Mulliniks attended Oklahoma State University where he earned a Bachelor of Science degree in animal science with a focus on animal production in 2006. During his junior year of college while in a feeds and feeding class, Mulliniks became interested in the interaction of nutrition and reproduction in grazing beef cows. This interest led Mulliniks to New Mexico State University, where he earned a Master of Science degree in animal science with a focus on range cow nutrition in 2008. The emphasis of his master's graduate studies was primarily on improving reproduction in young range cows with strategic supplementation while maintaining or decreasing supplemental nutrients, delivery and labor costs.



Shortly after completing his graduate studies, Mulliniks' major professor left New Mexico State University to become the research leader at the U.S. Department of Agriculture's Agricultural Research Station in Miles City, Mont. During this time, Mulliniks was able to start his Ph.D. program at NMSU and then conducted his research at USDA-ARS, Fort Keogh LARRL, in Miles City, Mont. After completing his coursework at NMSU, Mulliniks spent the last two years of his doctoral program working at the USDA-ARS station in Montana. His research was focused on nutritional and metabolic factors influencing reproductive efficiency of grazing beef cattle. He won second place in 2008 and first place in 2009 and 2012 in the Applied Paper Competition at the Western Section of the American Society of Animal Science meetings. In 2012, Mulliniks received a doctorate in range cow nutrition with a minor in agriculture economics from New Mexico State University.

Mulliniks joined the Department of Animal Science in October 2012 as a beef cow nutritionist. He has a 100 percent research appointment and is located at the Plateau AgResearch and Education Center in Crossville, Tenn. Mulliniks' research objectives consist of developing an applied cow-calf research program that emphasizes sustainability and economically viable management options



through enhanced efficiency, productivity and strategic nutritional management in beef cattle production. More specifically, Mulliniks' work is focused on beef cow metabolic efficiency and its impact on heifer development and ensuing longevity, cow and calf productivity, and economic sustainability. In addition, elucidating the adaptive mechanisms that promote energy efficiency in grazing beef cows and metabolic indicators for improving and predicting reproductive efficiency has been a cornerstone of his research.

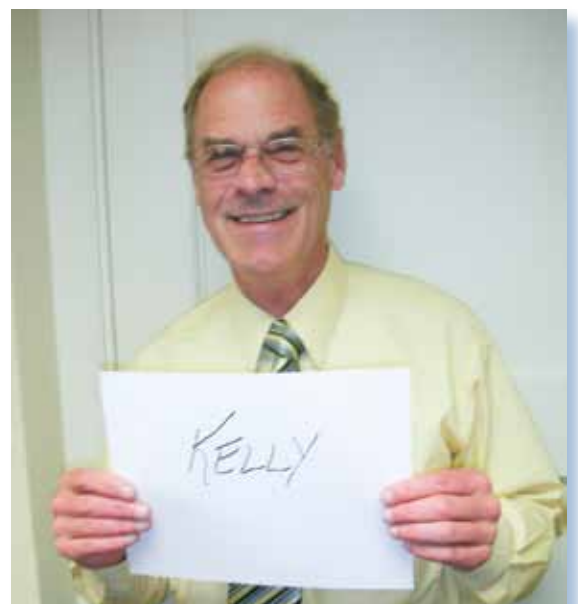
## Fred Hopkins and Kelly Robbins Retire

After long and successful careers at the University of Tennessee, Fred Hopkins and Kelly Robbins have retired. As many remember, Robbins served numerous years as department head for Animal Science. His teaching experience continued after stepping down as head and included teaching the junior core nutrition course, senior-level Ethics in Animal Agriculture course and lectures in the graduate-level systems physiology course. He also assisted in initiating the international trips to Thailand for students and faculty. Robbins retired at the end of November, and the department wishes him a fun and adventurous retirement.

Hopkins began his career at UT in the College of Veterinary Medicine but soon found that he connected well with his Animal Science comrades. For years, he assisted David Kirkpatrick in fertility testing the bulls at the bull test station and spent many a night enjoying the comforts of the veterinary building next door. He collaborated with Neal Schrick and Lannett Edwards on cloning research and helped advance the department's research and teaching mission immensely. For several years, he taught the animal health and disease course before switching to a 100 percent Extension appointment as the department's Extension veterinarian, at which he excelled even more. Hopkins served that role to the fullest by assisting at numerous 4-H Expo events and equine activities and by being one of the leaders involved in initiating the Master Beef Program, which has trained over 10,000 producers to date.



*Fred Hopkins (left) looks forward to spending time with his family in retirement, including son Adam Hopkins.*



*Kelly Robbins*

## Equestrian Team Plans for Upcoming Year

Now that summer is here the Equestrian Team is ready to start planning for an exciting upcoming year. The team is delighted to welcome new coaches Carol Hodge and Brandon and Jocelyn Gibson. Hodge will serve as the Western coach. She and her husband, Cliff, own Hidden Hollow Farm, a 65-acre farm in Friendsville, Tenn. Hodge has produced several state, national and even world champion 4-H and AQHA riders. The Gibsons will coach the hunt seat team at Select Sport Horses at Windfield Oaks. They have a 150-acre farm in Greenback, Tenn., which is only minutes from the Western barn. The Gibsons have trained many young horses and riders on the road to success at prestigious shows, including the Devon Horse and Pony Show. Next year should prove to be an action-packed and fun-filled time for the Equestrian Team and all of its members.



*View of the upper arena from the barn at Hidden Hollow Farm.*



*The main barn and arena at Select Sport Horses.*

## Graduate Student Spotlight: Ryan Goodman

*The graduate student program in the Animal Science department is growing and engaging students in research opportunities as they seek advanced degrees at the University of Tennessee. With this spring's move into the Brehm Animal Science Building, new laboratory facilities and equipment allow us to continue to build upon current and future research endeavors. This spotlight comes from Ryan Goodman, who is in his second year of the Animal Science master's degree program, studying animal reproductive physiology.*

As I sought out graduate programs across the country, the UT Animal Science department definitely caught my attention. With a background in beef cattle production, I needed a research opportunity that would allow a hands-on learning experience in beef cattle nutrition and reproduction while challenging me to reach new horizons. The resources here at UT have allowed me to do that as I study the effects of beef cow nutrition on cow fertility and long-term offspring performance.



Animal Science has given me the opportunity to work in AgResearch and Education Centers across the state. These centers are an invaluable resource for hands-on research that is easily applied to beef cattle producers across the state and region. Working with Justin Rhinehart,



Extension beef cattle specialist, I also have had the opportunity to work with many Tennessee producers, encourage youth at livestock shows, and this summer I will present research information at several field days across the state.

The Animal Science graduate program involves students of many disciplines, including genetics, reproduction, nutrition, microbiology, immunology and welfare for various species. During the past year, we have had five successful thesis defenses, and our students go on to make successful contributions to animal science industries. The program continues to grow as seven new students have joined during the past year.

This summer, graduate students and faculty are involved in science and research programs across the country. In July, a group will travel to Indianapolis, Ind., for the Joint Annual Meeting of the American Dairy Science Association and American Society of Animal Science. Students will present their research, network with peers in the industry, and learn about new research initiatives across the country.

In August, a group of students will participate in a multiuniversity grazing lands ecology course. Students will travel across seven states from Charlotte, N.C., to Fort Worth, Texas, studying grazing land management and systems to improve and maintain our environments.

These are just a few examples of how Animal Science faculty allow students to become involved and engaged in the industry on a national stage. The future looks bright for the graduate student program as the department hires new faculty mentors and encourages students to become involved in animal science programs across the country.

## Alumna Spotlight: Carol Coley McDonald

Carol Coley McDonald is the featured alumna in this issue of the newsletter for her success serving the agricultural industry in Tennessee. As the Tennessee Department of Agriculture's assistant commissioner for policy and legislation, McDonald serves as the department's liaison to the Tennessee General Assembly and directs policy and program development in areas ranging from food safety, pesticides and consumer protection to forestry and agricultural development. She also supervises the Agricultural Crime Unit, which provides a range of security and investigative services to aid rural communities. McDonald's persistence in forming relationships over the years and her passion for agriculture led to this opportunity of a lifetime. Her advice to any young woman or man is to avoid burning bridges because it is never clear where those bridges could lead you later!

McDonald is a recent graduate of the Tennessee Government Executive Institute. Prior to joining the department in 2011, she served as a UT Extension agent in Smith County, coordinating 4-H activities. She also has worked in education and has extensive experience in agribusiness as a former owner and partner of Catesa Farms, a large diversified livestock and row crop operation, and C&G Seeds, a seed and chemicals dealer in Riddleton, Tenn.



McDonald has a bachelor's degree in animal science from UT and has been recognized by UT Extension with numerous honors, including both Outstanding 4-H Youth Development Agent

and Outstanding Agent. She also is a recipient of the Tennessee Farm Bureau's Young Farmers & Ranchers Outstanding Young Woman Award.

During her collegiate career, McDonald participated in numerous activities and clubs in the Animal Science department, including the Livestock Judging Team, Block & Bridle Club and Collegiate 4-H. She also held numerous leadership roles in these clubs.

McDonald grew up on a family farm in Macon County, where they raised purebred Hereford cattle for 40 years, and, today, her brothers continue to raise Coley Herefords. She lives in Carthage, Tenn., and is an active member of the Carthage United Methodist Church. McDonald serves on the Smith County Fair board and was instrumental in re-establishing the fair in 2008.

\*This article contains excerpts from "A Leading Lady" by Chelsea B. Rose and a leadership interview by Paul Kelly.

## 2013 Junior Livestock Judging Team Competes in Spring Season Events

The 2013 Livestock Judging Team recently completed its spring season. The team began their judging careers in December with a trip to Oklahoma and Texas to practice and compete in the Griswold Classic Cattle Judging Contest. From there, the team competed at the Dixie National Beef Judging Contest in Jackson, Miss., the Houston Livestock Show and Rodeo in Houston, Texas, and the All East Contest hosted by the UT Department of Animal Science. Olivia Crisp and Megan Long were both recognized at the All East Contest as high individuals. Crisp finished in the top 10 individuals in sheep evaluation, and Long finished in the top 10 in sheep selection and judging. The team has been working hard to improve and has been gaining experience for competing in the fall contests. The 2013 team will return next fall and travel to five contests, beginning with the National Barrow Show in Austin, Minn. Wish them luck as they continue their careers in the fall!



*Junior Livestock Team members include (L-R first row) Megan Long, Emily Buck, Olivia Crisp and (L-R second row) David Roper, Ethan Gossett and Tyler Bruhin.*

## 2012 Senior Livestock Judging Team Completes Busy Year of Judging and Competing

The 2012 Senior Livestock Judging Team had a busy school year. They completed their collegiate judging careers in November when they competed at the North American International Livestock Exposition in Louisville, Ky. Sarah Orr finished as the High Individual in Performance Cattle at the contest. In total, the team competed in five contests across the nation. In addition, Meredith Mayfield and Chris Mackey were recognized as high individuals in cattle and sheep, respectively, at the Keystone International Livestock Expo in Harrisburg, Pa.

The 2012 team also had the unique opportunity to host a contest in addition to their competition experiences. Each year the All East Collegiate Livestock Evaluation Contest rotates host schools, and this spring UT served as the host for the first time since 1998. This is a unique three-day contest that involves carcass evaluation, breeding stock selection and “normal” judging selection. Students evaluate 105 head of livestock in three days. The 2012 team was responsible for organizing and identifying the animals needed for the contest. In addition, they performed the daily duties required to run the contest. This year, 11 universities from Louisiana to Florida to Pennsylvania competed in the All East Contest. This was a great opportunity for the Animal Science department to showcase the new Brehm Animal Science Building, and the team members helped make the contest a success!



*The 2012 Senior Livestock Judging Team members included (L-R) Chris Mackey, Alyssa Clements, Emily Tuttle, Sarah Orr, David Roper (coach), Meredith Mayfield and Alex Rich.*

## 2013 Animal Science Scholarship Winners

Jessica Andreas	Leanne Fowler	Shelby Mendoza	Sarah Templeton
Amanda Atkins	Megan Goodwin	Chandler Moats	Tyler Trowbridge
Jessica Baxter	Ethan Gosset	Megan Moore	Rebecca VanBalen
Sarah Beaty	Sarah Hargrove	Sara Nash	Olivia Walker
Amy Berger	Alyssa Helms	Laria Nelson	Madeline Wheeler
Randi Black	Noelle Herrera	Caroline O'Connell	Amelia Woods
Kelsey Brantley	Leah Hooper	Alexis Pigg	
Tyler Bruhin	Kallie Hopper	Allison Reddin	
Alexis Burnham	Rachel Jackson	Amber Semirosum	
Rachel Bush	Kaysie Jennings	Molly Shaw	
Anita Calfee	Rebecca Kocak	Beverly Shrode	
Alyssa Clements	Margaret LaFlamme	Lydia Siebert	
Paige Cortner	Casey Langley	Kaitlyn Siegfried	
Olivia Crisp	Lisa Lien	Josh Snider	
Ashton Daniel	Sarah Maccaro	Caroline Sosebee	
Nicole Delfraino	Kayla Mahon	Laura Spence	
Alyssa Dozier	Kaitlyn McCord	Gregory Stapleton	
Kendra Flynn	Hannah McDonald	Dustie Strasser	



## 2013 Animal Science Award Winners:

### John Smith Block & Bridle Award

Sarah Orr

### M. Jacobs Award

Emily Tuttle

### Dee W. Coley Memorial Stockman's Award

Alex Rich

### John D. Smalling Award

Brittni Jones



*Meredith Mayfield receives the Outstanding Member Award for the B&B Club.*



*Caroline Sosebee receives the Outstanding Officer Award from the Tennessee Collegiate Horseman's Association.*



*Beville Hal Reagan Scholarship winners include (L-R) Alexis Burnham, Noelle Herrera, Kayla Mahan, Alyssa Helms, Sarah Maccaro, Olivia Crisp, Rachel Bush, Kaitlyn McCord, Laria Nelson, Leanne Fowler, Ethan Gosset, Hannah McDonald and Olivia Walker.*

The total amount of scholarships awarded from departmental-specific funds for the upcoming year is \$73,100. As in the past, many more of our other students are also expected to receive collegewide awards. Congratulations to an outstanding group of students!

## 2012-2013 Graduates

### 2012 Graduate Students:

Name	Semester Graduated	Mentor
Toyin Adeniji, M.S.	Spring 2012	Michael O. Smith
Brian Campbell, Ph.D.	Spring 2012	John Waller
Megan MacDougal, M.S.	Fall 2012	Lannett Edwards
Will Mayfield, M.S.	Summer 2012	Neal Schrick
Wenting Xin, M.S.	Summer 2012	Naima Moustaid-Moussa

## Fall 2012 Undergraduates:

Alea Brooke Antrican  
Karlle Nicole Booher  
Lauren Ashley Caylor  
Samantha Lea Crabtree  
Cassandra Sue Fest  
Kathryn Mary Forte  
Ryan Andrew Goss  
Jennifer Colleen Holt  
Peter Byung Hyun Chun  
Irene Christine Kernica  
Kouisaai Kpodo  
Brittany Jerease Mitchell

Bailey Jennifer Mulderig  
Lauren A.C. Johnston Mullinax  
John Wayne Norris Jr.  
Kathryn Ellen Oliff  
Carly Jo Perry  
Danielle Dae Sheffield  
Abra Lorell Snider  
Christopher Joseph Swanson  
Nicole Brittany Tacey  
Adrienne Marie Taylor  
Emily Kate Upchurch  
Christina Lynn Weston

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## Spring 2013 Undergraduates:

Courtney Corrine Akers  
Paige Taylor Austin  
Laura Christine Bailey  
Claire Elizabeth Barker  
Kelsey Burke Brantley  
Sydney Elizabeth Brasher  
Ashley Christine Carter  
David K. Cervetti  
Anna Christine Chow  
Brittini Megan Corder  
William Tyler Davis  
Elizabeth Marlene Devoe  
Alex Michael Edwards  
Daniel Patrick Edwards  
Ashley Elizabeth Ellis  
Bradley Michael Ervin  
Timothy Stephen Estabrooks  
Portia Macleod Greenlee  
Jerry Thomas Greenlee II  
Amanda Kelly Hardcastle  
Anna Elise Harrison  
Heather DeAnna Ingle  
Ali Caroline Martin  
Christina Lynn Massaro  
Megan Elizabeth McElheney  
Steven Warren McIntyre  
Brittany Nicole Miller

James Alden Noblett  
Sarah Elizabeth Orr  
Luis Modesto Ortiz  
Madison Grace Overall  
Sean Robert Panella  
Katherine Ann Parry  
Kasey Dawn Payne  
Jessica Nicole Pittman  
Rebecca Ann Plaisted  
Douglas Herman Ramsey  
Alexander Tipton Rich  
Anna Elizabeth Robinson  
Maria Christine Rogers  
Sarah Elizabeth Rolan  
Elizabeth Nicole Rouse  
Breanna Jayne Scott  
Nathan Isaac Settlemyre  
Amanda Nichole Suenkel  
Natasha LeMarque Tinsley  
Emily Ann Tuttle  
Matthew D. Vandergriff  
Jayme Ann Weaver  
Lashley Grace Webb  
Thomas Hardeman West  
Megan Elizabeth Wood  
Rebecca Suzanne Wyatt

## Photo Gallery



*Alex Rich (left) receives the Dee Coley Award from Carol Coley McDonald and Dr. Bob Coley.*



*Cattle Show Team members include (L-R) Chris Mackey, Brandon Beavers (coach), Sarah Orr, Emily Tuttle and Megan Moore.*



*UT Block and Bridle Club members include (L-R) Sarah Maccaro, Megan Moore, Jessie Tipton, Meredith Mayfield, Amy Berger, Chris Mackey, Emily Tuttle, Ethan Gossett, Sarah Orr, Megan Long, Jessy Shanks (adviser) and Alex Rich.*



*The new Brehm Animal Science Building includes a state-of-the-art arena.*



## 2013 Animal Science Calendar of Events

<b>Event Title</b>	<b>Location</b>	<b>Date</b>
Volunteer Classic 4-H Livestock Judging Camp	University of Tennessee Brehm Animal Science Building Knoxville, Tenn.	July 26-28
Steak and Potatoes Field Day	Plateau AgResearch and Education Center Crossville, Tenn.	Aug. 6
Tennessee Co-op Knows Beef Bonanza	University of Tennessee Brehm Animal Science Building Knoxville, Tenn.	Aug. 15
State Junior Goat Show	Wilson County Fair Lebanon, Tenn.	Aug. 17
State 4-H Dairy Judging Contest	Wilson County Fair Lebanon, Tenn.	Aug. 22
Ag Day	Ag Day Institute of Agriculture Campus Knoxville, Tenn.	Oct. 5
Northeast Tennessee Beef Expo	AgResearch and Education Center at Greeneville Greeneville, Tenn.	Oct. 10

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Knoxville, TN 37996

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## AG DAY 2013

### Mark your calendars for Ag Day!

This year's Ag Day will be held Oct. 5 inside the new Brehm Animal Science arena. Festivities start four hours before the Vols take on the Georgia Bulldogs in Neyland Stadium. Kickoff time TBA.

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