



COWPOKE NEWS

The Department of Animal Science, Oklahoma State University

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News from the Department Head

Dear Alumni and Friends:

We hope you enjoy this inaugural issue of the departmental newsletter called "Cowpoke News". We are committed to keeping you informed about the OSU Department of Animal Science. The Cowpoke News is not intended to replace the Alumni Update you have routinely received in the Spring. Instead, our goal is to stay in touch with you on a year-round basis. We plan to send you the Cowpoke News three times per year and the Alumni Update in the Spring.

We started this fall with 960 undergraduate students and 55 graduate students. Our students come from 38 states and several foreign countries. We are the largest department on campus and the fourth largest Animal Science Department in the country.

In this issue of the Cowpoke News, you will read about our outstanding students who completed internships across the country and in two foreign countries this summer. Our Student Success Coordinator, Ms. L.J. Bernhard spent several days visiting interns and their employers this summer. You will also learn about a trip Dr. Glenn Zhang and I took to China to establish relationships with three Agricultural universities. We are very optimistic about the results of this trip.

We welcomed Dr. Sara Place as an Assistant Professor in Sustainability this past February. Dr. Place grew up on a Dairy Farm in New York and received her Ph.D. from U.C. Davis. We are currently searching for an Assistant Professor in Applied Animal Science. This professor will also coach the OSU Livestock Judging Team. We have also added several new staff members to our team this year. You can read more about these individuals in this issue of the Cowpoke News.

Special thanks to Rebekah Alford for editing and producing our first edition of the Cowpoke News. If you enjoy reading this newsletter, please e-mail Rebekah at rebekah.alford@okstate.edu.

Sincerely,

Clint Rusk



Featured Stories

Dr. Rusk and Dr. Zhang visit agricultural institutions in China



Dr. Rusk and Dr. Zhang at Chinese AG institution.

Dr. Clint Rusk and Dr. Glenn Zhang spent two weeks from May 24 - June 6 visiting three prominent Chinese agricultural institutions (China Agricultural University, Northwest Agriculture & Forestry University, and Beijing University of Agriculture). The purpose of the trip was to explore the possibility of establishing bilateral cooperative programs with Chinese universities. Besides Dr. Rusk and Dr. Zhang, the OSU delegation consisted of Dr. Jean Sander and Dr. Jerry Malayer, Dean and Associate Dean for Research, respectively, of the Center for Veterinary Health Sciences. During each stop on the trip, the group held separate meetings with Chinese university administrators, faculty, graduate students, and undergraduate students. The OSU delegation talked about OSU

and its Animal Science and Veterinary Medicine programs and explored the feasibility of various types of cooperative programs. In the end, all three Chinese universities have agreed to develop a range of programs with OSU in undergraduate and graduate research and education, as well as faculty training and exchanges.

College-level memoranda of agreements with the Chinese universities are being drafted. A “Summer Institute in Animal Agriculture” program is being planned for OSU to host the top students from all three Chinese institutions for a self-supported visit to Stillwater next summer. At the same time, the Chinese institutions have agreed to host OSU students for future study-abroad programs. OSU faculty members have been invited to teach short courses or conduct workshops at the Chinese institutions. To facilitate research collaborations, a plan is being developed for each university to share their faculty research programs, so the researchers with a common interest may start collaborations and tap into the funds available through the international cooperative programs offered by several Chinese government agencies. With an annual 20–30% increase in research funding in China and a level research budget in the U.S., joint research efforts are especially desirable for OSU faculty to maintain and even possibly expand their research programs.



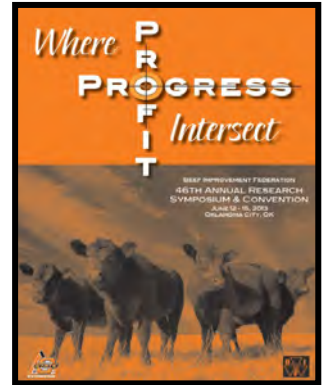
Dr. Rusk speaking to Chinese university faculty and staff.

In the midst of a busy schedule, the OSU delegation didn't forget the fun of sightseeing. They enjoyed visiting the Forbidden City, the Great Wall, the Museum of Terracotta Warriors and Horses, and other educational sites in Beijing and Xi'an, two historic capital cities in ancient China. By the way, all four members of the OSU delegation greatly enjoyed a variety of Chinese dishes and hope some of the dishes could be tasted in Stillwater one day.

Featured Stories

OSU animal science department hosts 2013 B.I.F. conference

Oklahoma State University, in collaboration with the Beef Improvement Federation (BIF), hosted the 2013 BIF Annual Research Symposium and Convention on June 12th - 15th at the Oklahoma City, OK Renaissance Hotel and Convention Center. This year's theme was titled "Where Profit and Progress Intersect" and focused on beef breeding and genetics. OSU Assistant Professor Megan Rolf said "The conference speakers tackled a variety of topics this year from crossbreeding and sexed semen to technologies like metagenomics which may impact the beef industry in the future."



[View Proceedings Here](#)

This is the second time that Oklahoma has hosted the BIF conference, the first time being in the 1980's. Overall, 514 cattlemen, academia and industry representatives from various countries gathered to attend the BIF conference. Planning and

organization for the conference were accomplished by three Oklahoma State University Animal Science faculty members, Bob Kropp, Megan Rolf, and Dan Stein. Together, their determination and focus made the BIF convention a complete success. Dr. Rolf said that, "These discussions lead to new research directions that we can hear about in future conferences and provides the producer feedback needed to help transform these innovations into technologies that impact the beef business."



Convention events included a dinner, live music by the Bunkhouse Band & Cowboy Jim Garling, and a tour at the National Western Heritage Museum and Cowboy Hall of Fame, as well as a choice between two bus tours. The northern tour stopped at Oklahoma State Food & Agriculture Products Center, Oklahoma State Willard Sparks Beef Research Center, M&M Charolais, Pollard Angus, and Chain Ranch. The southern tour stopped at the Oklahoma City Stockyards, Raber's Saddlery, the Noble Foundation, and the Stuart Ranch.



2013 Commercial Producer Award
Darnall Ranch, Harrisburg, NE

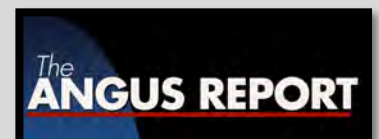


2013 BIF Conference
Oklahoma City, OK



2013 Seedstock Producer Award
Bradley 3 Ranch, Memphis, TX

Click the links below to view video footage of the BIF 2013 conference.



Featured Stories

Edward Avalos visits the OSU department of animal science

Mr. Edward Avalos, Under Secretary for Marketing and Regulatory Programs at the United States Department of Agriculture, visited Payne County on August 28th and 29th, 2013. In addition to presenting an open forum at the Payne County Fairgrounds, taking in the Payne County Fair and meeting with local producers, Mr. Avalos also visited the OSU Department of Animal Science.

We were pleased to host Mr. Avalos at the Willard Sparks Beef Cattle Research Center where Dr. Clint Krehbiel and Mr. Casey Maxwell discussed their research project that utilizes the Insentec individual cattle feeding system to monitor feed and water intake.

Mr. Avalos also toured the OSU Swine Research Center, where he visited with Dr. Scott Carter about his nursery pig trials and Mr. John Staude about the modern swine facilities. Mr. Avalos had lunch at the Food and Agricultural Products Center with several Animal Science faculty and students.



Mr. Avalos (left) with Dr. Krehbiel (right) visiting the Willard Sparks Beef Cattle Research Center.



Left to Right: Carson Cooper, Scott Carter, Corey Carpenter, Edward Avalos, Clint Rusk, John Staude

Summer 2013 Internships



Why Intern?

Interning with a company or organization gives a student the opportunity to get hands-on experience in their desired field before starting their careers. They can explore career options related to their interests, gain professional skills, gather insight into an industry, and establish a network of contacts.

Not only does interning help a student help a student narrow down the career path they want to take, but it also makes students more desirable to companies because of the experience and knowledge they gain. The Department of Animal Science encourages students to consider internships so that they can make informed decisions about their career paths and to create a professional network in their field of interest.

The Benefits of Hiring an ANSI Intern.

By hiring an intern; you have the opportunity to meet and train talented students who could one day become your future employees. Interns are highly motivated short-term employees when a business is in need of extra assistance. It is a cost-effective way to recruit for your business while giving you the chance to evaluate potential long-term employees. Interns can also offer a fresh perspective on issues and can help with projects that you're struggling to complete. Please consider Oklahoma State University when hiring for your next internship opportunity.

Should I Hire an Intern?

Businesses should be willing to provide mentorship and training opportunities for their interns. They should create goals and have a clear idea of what they want the interns to learn. Students should leave with new skills and knowledge at the end of the internship program. Still unsure if you should hire an intern? Speak with our Student Success Coordinator, L.J. Bernhard, about your potential internship opportunity.

[Click Here to read "5 Reasons You Should Hire an Intern, and 3 Reasons You Shouldn't."](#)



If you are interested in an internship or have an internship opportunity available for a student, please contact L.J. Bernhard at (405) 744 -7442 or lj.bernhard@okstate.edu.

Summer 2013 Internships

Haley Sikes - Lopez Foods

This summer I had the opportunity to be an intern at Lopez Foods. Over my three months at Lopez I was able to do a wide variety of different things. I familiarized myself with their plant and the inner workings of a food processing plant. I was able to shadow the product innovation team and watch as their ideas for products became test products. We tasted, altered and then tasted the products (turkey burgers and turkey sausages) again. Lopez supplies McDonalds their burger patties, breakfast sausages and the Canadian bacon. On July 18th we had several McDonalds chef's visit and showed them all the hard work that had been done. It was extremely exciting to see all the time and effort pay off.

The first few weeks of my internship were spent getting aquatinted with the plant and spent on the floor with the quality assurance team. I shadowed all the various aspects that make up quality assurance, from the batching and HACCP to simple floor monitoring and sensory; all of the various moving parts that it takes to keep a plant up and running and producing safe quality products. Each week during the summer my supervisor would leave me various "hot topic" articles or terms that I would need to research and then discuss with him on Friday's. It helped me learn how to use a wide variety of sources, including people in the office and find information for myself which helped me to better understand what I was learning. My last project of the summer was a detailed cook time validation. I had three different flavor profiles of sausage that Lopez sells at Wal-Mart and followed the different cooking instructions on the packaging as a consumer would at home. I then checked the temperature of the patties to ensure that they were reaching temperatures that were safe for consumption. Overall my experience at Lopez was incredible and I was able to learn and grow so much! I am so thankful to everyone who spent time helping me understand what makes Lopez Foods and essentially all processing plants work.



Haley Sikes working in a kitchen at Lopez Foods.

Nick Elroy - Oklahoma Medical Research Foundation



Nick Elroy working in a lab at OMRF.

My name is Nick Elroy. This summer I did an internship with Oklahoma Medical Research Foundation (OMRF). It was very different from any internships I had done in the past, but I really enjoyed it and learned a lot. I was working in the Free Radical Biology and Aging department with Dr. Kinter, specifically working with immune cells and a new risk factor for atherosclerosis. My day to day schedule involved using a micropipetter, doing gel electrophoresis, occasionally running samples through mass spectrometry. Overall, I think it was a great internship. It helped me learn which direction I wanted to go with my research career and gave me valuable knowledge of scientific procedure and bench top skills that I can take with me to my other jobs involving research.

Summer 2013 Internships

Jordan McMasters - JBS

This past summer I was privileged to intern with the world's largest animal protein processor, JBS. My internship consisted of three main components; I performed jobs as a rotational worker, I was assigned a project within the plant, and I produced a presentation of my project and findings to the senior team at the plant. Experimenting with numerous job positions as a rotational worker was an experience like none other. While on the production floors I performed jobs anywhere from removing hides in the Kill floor to trimming short ribs in the Fabrication floor. While trying new jobs constantly, I was given time to work closely with my mentor and able to start and complete my assigned projects. My assigned projects consisted of helping the plant's Industrial Engineer update job videos, crewing guides, and production floor blueprints. Furthermore, throughout the process of completing my projects I was able to learn the ins and outs of the whole facility. Lastly, I put my whole summer experience on a power point slide show to make a final presentation to the senior team at the Cactus plant. Overall, I feel that this internship opportunity helped me continue to grow as a college student and as a person. It was an experience that positively guided me down a career path that I am highly interested in taking.



Jordan McMasters in front of JBS.

Ashley Collins - Tyson Foods



Ashley Collins (pictured right) interning at Tyson Foods.

My 12-week internship with Tyson research and development was an unforgettable and worthwhile experience. I was assigned a project over lunchmeat color stability where I had to conduct several experiments to examine which test was the most effective in improving color stability. With the help of my supervisor I was able to conduct the project, which held relevant and beneficial data that Tyson will use. Each day was filled with different tasks where I assisted with other current projects that food technologists were currently working on at the time.

At the end of the internship, I gave a presentation over my project to Tyson R&D food technologists. It was a wonderful experience that gave me further insight on the direction for my career path. Furthermore, this internship provided me with fundamental on-the-job experience and numerous contacts that will be very beneficial for establishing my future career.

Summer 2013 Internships

Tyler Smith - *Fossil Rim Wildlife Center*

My name is Tyler Smith and I am a Senior Animal Science Pre-Vet student. For the most part of this summer I have been interning at Fossil Rim Wildlife Center in the Children's Animal Center (CAC). The vast majority of my day consists of cleaning after the animal's and feeding them. At the CAC we have 10 goats, 2 pigs, 5 types of parrots, 2 cockatoos, 4 tortoises, 1 adult emu, and 6 baby emu's. Needless to say there is a ton of work that needs to be done to make sure all these animals are happy and healthy, so there is never a dull moment.

Every now and then, I get to see some of the Vets work with the animals, which is always exciting. On my very last day we were able to put brand new wire ladders in the Blue and Gold Macaws enclosures to give them something new to walk around on. I know that they are going to enjoy having something new to play with for at least a while. This internship has been great for getting animal experience and I am extremely pleased. Over all I had a great experience at Fossil Rim. I learned a lot and I am really going to miss Fossil Rim Wildlife Center.



Tyler Smith working at Fossil Rim.

Shauni Windle - *Limpopo, South Africa Wildlife Vet Clinic*



Shauni Windle taking care of a tiger cub in Limpopo, South Africa.



Shauni Windle medicating a buffalo.

Howdy, my name is Shauni Windle and at the start of this summer, I was given the incredible opportunity to work with a wildlife veterinarian in the Limpopo province of South Africa. While working with Dr. Kriel, I worked in his town clinic as well as traveled with him to farms all across Northern South Africa to work on all forms of wildlife. My role was that of a veterinary assistant and I was given the responsibility of administering injections, performing tick dips, assisting in surgeries, finding tranquilized patients to blindfold and transfer, and performing the occasional necropsy.

I have to say, my last two days in South Africa were the best. Our last job was a bag and tag project in which for two whole days, we tranquilized, tagged, transferred, and released animals of all types. As before, Dr. Kriel rode and darted the animals from the helicopter while I rode in a pickup with several of the farm workers. In the two days we were there, we darted and transferred roughly forty animals including Eland, Sable, Impala, Kudu, Buffalo, and Nyala. I was also able to experience the culture of South Africa as well. All in all, I could not have asked for a better internship.

Summer 2013 Internships

Lauren Wells—6666 Ranch

This summer I was fortunate to partake in an internship with the 6666 Ranch, located in Guthrie, Texas. Established in 1870, the 6666 Ranch encompasses over 275,000 acres and operates successful horse and cattle divisions. The horse division is managed by Dr. Glenn Blodgett, a Graduate of Distinction from the OSU Animal Science Department. There are well over 1,000 horses on the ranch. Besides ranch-bred stock, the 6666's also houses hundreds of outside mares during the breeding season. Additionally, the ranch contains a full working vet clinic, with outside services available.

The 6666 Ranch is an elite breeding operation, offering services such as embryo transfers, artificial inseminations, cooled and shipped semen, and breeding lavages. The ranch stands 24 stallions with outstanding accomplishments in both performance and racing industries. Stallions from the 6666 Ranch have revolutionized the stock and race horse industries, most notably AQHA. Legends such as Dash For Cash, Tanqueray Gin, and Streakin Six once stood at the ranch and have produced some of the finest American Quarter Horses. Today, some of the most influential stallions at the ranch include One Famous Eagle, WR This Cats Smart, Sixes Pick, Mr. Jess Perry, and Captain Courage, just to name a few.

The title of my summer internship was “Yearling Sales Prep,” which consisted of preparing close to 80 race and ranch horse yearlings for fall sales. The 6666 Ranch consigns these yearlings in five different fall sales including the Wagonhound Land & Livestock Production Sale, Heritage Place Sale, Return to the Remuda Sale, Ruidoso Select Yearling Sale, and the Los Alamitos Equine Sale. I arrived at the ranch the beginning of May and was exposed to tail end of breeding season. I assisted with mare palpations, embryo transfers, and breeding lavages. As the summer progressed, pastured yearlings were brought up and I began assisting with halter breaking, round penning, hot walking, grooming, and bathing the sale horses.

In addition to sales prepping, I have gained valuable hands-on experience in the vet clinic doctoring wounds, administering vaccinations, drawing blood, and performing treatments. I have become familiar operating an equine management system known as “Wise Options,” a special computer program where treatments and progress on all the equine patients are recorded.

Working on the ranch has exposed me to different sides of the industry, from breeding to gaining experience on a large scale production operation. I have learned so much about the history of the American Quarter Horse and how the 6666 Ranch's bloodlines have directly impacted the quality, look, and athleticism of the modern ranch horse. I look forward to maintaining a lasting relationship with the managers and employees of the ranch by working at some of the fall sales.



Lauren Wells introducing a yearling to the tie walker.

Summer 2013 Internships

Taylor Graham — OK Dept. of Agriculture Food and Forestry

I was extremely fortunate to receive an internship that allowed me the flexibility to learn in a very hands on environment. Through my many weeks as an intern at the Oklahoma Department of Ag, one of the more interesting things I had the opportunity to do was visit every division of the department, and learn what all of the supervisors/directors do. I was very excited to have the opportunity to participate in investigations of cattle theft and crop over spraying. After collecting the samples from the crop over spraying (pictured above) we then took those samples to the labs where they are analyzed, and proof of certain events then becomes apparent. Although my involvement in the events wasn't exactly vital to the task at hand it was extremely interesting to participate in the work that both investigators and their respective labs are able to accomplish.

The skills, experiences, and value I received from ODAFF is simply immeasurable. The entire office is filled with driven and experienced people that simply enjoy learning and teaching others about all aspects of the industry. As an intern I was involved in the Made in Oklahoma Coalition, International Marketing, Farm to School Program, Farmers Markets, Commodities Reporting, and grant reviews just to name a few. Quite simply the lessons and educational opportunities that were presented to me seemed to always have a common goal; protect, promote, and support the image of agriculture.



Taylor Graham working at the Oklahoma Department of Agriculture.



Taylor Graham (right)

[View More Internship Stories and Pictures Here](#)

Summer 2013 Internships

Student Name	Company	Location
Erica Addison	Ridglea Animal Hospital	Ft. Worth, TX
Kaylen Baker	Oklahoma Department of Agriculture	OKC, OK
Emily Bardot	The Maschhoffs	Carlyle, IL
Rachel Bellefeuille	Saddle Up Foundation	Parker, CO
Holly Birmingham	Beef Improvement Federation	Stillwater, OK
Tyler Boles	Jade Livestock	Mason, TX
Heidi Burgos	CAH Vet Services	Puerto Rico
Cameron Clouse	Vinyard Fruit and Vegetable	Oklahoma
Summer Clifton	Noble-GrowSafe	Ardmore, OK
Ashley Collins	Tyson Foods, Inc.	Arkansas
Savanna Cook	Simpson Physical Therapy	Cushing, OK
Ethan Coughlin	Coughlin Equipment	Yukon, OK
Sarah Dempsey	Marshall Co. Animal Med Center	Madill, OK
Nick Elroy	Oklahoma Medical Research Foundation	OKC, OK
Jacque Emerson	Blanton Chiropractic	Blackwell, OK
Jessica Gibson	Express Clydesdales	Yukon, OK
Taylor Graham	Oklahoma Department of Agriculture	OKC, OK
Ashleigh Gray	South County Animal Hospital	Greenwood, AR
Devin Gredell	Outwest Meats	Nevada
Ethan Green	Adair Coop Extension	Stilwell, OK
Taylor Hansen	Tasty Catering	Elk Grove, IL
Kendall Harsh	Cross Country Genetics	Crescent, OK
Jeremy Hobbs	Animal Health International	Garden City, KS
Darril Holden	OU Medical Center	Oklahoma
Shade Hughes	Food and Product Center – OSU	Stillwater, OK
Taraka Hughes	Mission Vet Hospital	Mission, TX
Rachael Joness	Alvarado Vet Clinic	Alvarado, TX
Amanda Lawson	OSU Animal Science	Stillwater, OK

Summer 2013 Internships

Student Name	Company	Location
Dylan Linhares	Harris Ranch Beef Company	Coalinga, CA
Amanda Mathias	Samuel Roberts Noble Foundation	Ardmore, OK
Kristyn Maxwell	N/A	N/A
Jordan McMasters	JBS	Cactus, TX
Matthew Middleton	N/A	N/A
Heidi Miller	JBS Fiver Rivers—Yuma Feedlot	Yuma, CO
Kathleen Mills	Grey Snow Eagle House	Perkins, OK
Morgan Neilson	U.S. House of Representatives Committee on AG	Washington D.C.
Cole Owens	Zoetis	Northwest U.S.
Jesse Patton	Wynn Animal Hospital	Krebs, OK
Nicole Price	Allen Vet Hospital	Allen, TX
McKenzie Pringle	Usselton Vet Services	Whitesboro, TX
Shelly Reed	Supreme Cattle Feeders LLC	Kismet, KS
Lindsay Reid	Winfield	OKC, OK
Jordan Sanders	Performance Equine Association	Thackerville, OK
Haley Sikes	Lopez Foods	OKC, OK
Kristen Smith	Prague Vet Clinic	Prague, OK
Tyler Smith	Fossil Rim Wildlife Center	Glen Rose, TX
Maverick Squires	Dylan Evans & Family	Lebo, KS
Austin Stacy	Tyson Foods, Inc.	Council Bluff, IA
Keith Sullivan	Chef's Requested Foods	OKC, OK
Amanda Utt	Northern Valley Animal Clinic	Rochester, MN
Hannah Wells	OK Foundation Quarter Horse Registry	Shawnee, OK
Lauren Wells	6666 Ranch	Guthrie, OK
Tanner Wilkins	Burtrum Cattle LLC	Stillwater, OK
Shauni Windle	African Conservation Experience	Limpopo, Africa
Hannah Wolansky	Kansas Equine Center	Towanda, KS
Nicole Zeien	Boone County 4H Extension Office	Belvidere, IL

ANSI Scholarships Awarded

ANSI Wentz Research Scholarship Recipients 2013-2014

Congratulations!

The Wentz Research Project, supported by the Lew Wentz Foundation and OSU, awards a scholarship to 40 undergraduate student scholars each year. It consists of a \$4,500 one-year research project award to conduct independent research with the guidance of a faculty mentor.

For the 2013-2014 year, 4 of the students chosen are from the Department of Animal Science. Congratulations!



ANSI Niblack Research Scholarship Recipients 2013-2014

Congratulations!



The Niblack Research Scholars is an undergraduate research program that awards an \$8,000 scholarship to 12 students each year. This allows the students the opportunity to conduct research in a university lab. The research is assisted by a faculty sponsor and graduate student mentor.

This year, 4 of the 12 students chosen are from the Department of Animal Science. Congratulations!

Awards & Recognition

Lakshmi Sunkara receives Junior Scientist Travel Award

Dr. Lakshmi Sunkara was selected to receive a \$1,000 Junior Scientist Travel Award to attend the Annual Meeting of American Association of Immunologists (IMMUNOLOGY 2013) that was held between May 3-7, 2013 in Honolulu, Hawaii from the American Association of Veterinary Immunologists. The title of her presentation was "Role of histone acetylation, cAMP signaling, and mitogen-activated protein kinases in butyrate-induced host defense peptide gene expression in chicken HD11 macrophage cells". Dr. Sunkara is a postdoctoral fellow in the Department of Animal Science and is working in Dr. Glenn Zhang's lab.



Weiyu Jiang receives 2nd Place Poster Presentation Award



Ms. Weiyu Jiang received a 2nd Place Poster Presentation Award for Graduate Students in Biological Sciences in the 24th Annual OSU Research Symposium, OSU between February 20-22, 2013. The Research Symposium is a series of oral and poster presentations from OSU graduate students during OSU's annual Research Week Event. The title of Ms. Jiang's presentation was "Differential regulation of human cathelicidin LL-37 by free fatty acids and their analogs". Ms. Weiyu graduated from the Department of Animal Science this summer and was a MS student in Dr. Glenn Zhang's lab.

Casey Maxwell wins nutrition research poster competition

For the second time in his graduate career at OSU, Casey Maxwell won the research poster competition at the Plains Nutrition Council Spring Conference in San Antonio in April, 2013. The Plains Nutrition Council Spring Conference has become a hub of industry and academic interaction for feedlot nutritionist. The graduate student research contest is funded by the Kenneth and Caroline McDonald Eng Foundation. The research he conducted and presented was "Advantages of technology enhanced beef production systems". Co-Authors on the research were Blake Wilson, Blaine Johnson, Brian Bernhard, Dr. Deb VanOverbeke, Dr. D.L. Step, Dr. Chris Richards, and Dr. Clint Krehbiel. Casey is a Ph.D. student in Animal Science studying ruminant nutrition with Dr. Clint Krehbiel. The project was conducted in collaboration with the Chain Ranch of Canton, OK and with additional support from Merck Animal Health and Creekstone Farms.



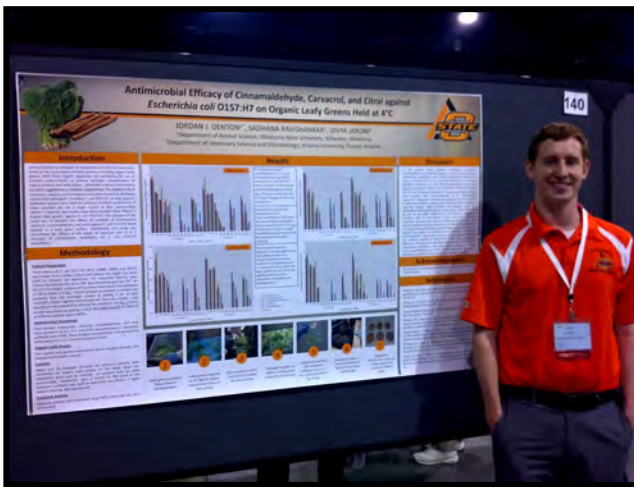
Poster Presentations

Jordan Denton and Buddhini Jayasundera present posters

The International Association of Food Protection (IAFP) is committed to advancing food safety worldwide and create ways for professionals to exchange information. Each year, IAFP hosts an annual meeting, providing attendees with information on current and emerging food safety issues, the latest science, innovative solutions to new and recurring problems, and the opportunity to network with thousands of food safety professions from around the globe. This year, the IAFP annual meeting was held in Charlotte, North Carolina.

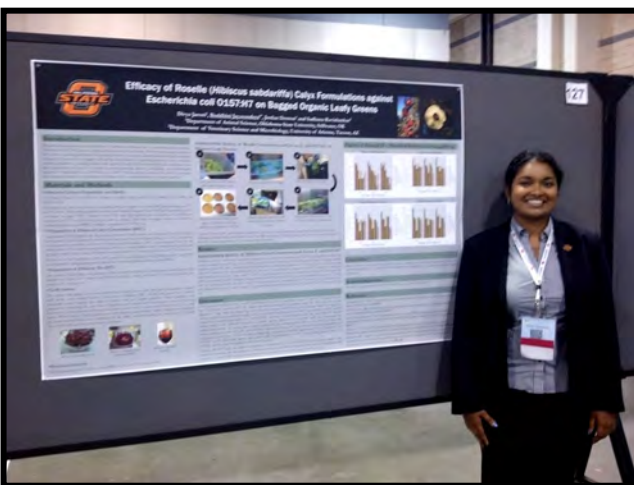
Among the educational activities and seminars over various studies of food safety, students of numerous universities had the opportunity to present their current research to their peers, faculty, industry personnel,

and other members of IAFP. Jordan Denton and Buddhini Jayasundera, Masters students under Dr. Divya Jaroni of the Animal Science Department at Oklahoma State University, recently completed their current research and presented two poster presentations, each, of their research; both involving the use of specific natural antimicrobials against *Escherichia coli* O157:H7 among organic leafy greens.



Jordan Denton presenting his research poster at the IAFP annual meeting.

In addition to presenting, students are able to network with other peers and faculty from various universities, and industry representatives from around the globe. Members of IAFP are very interactive and invested in the student members, enabling many networks and contacts for the student to take advantage of; whether it be for further education, or future careers after graduation.



Buddhini Jayasundera presenting her research poster at the IAFP annual meeting.

IAFP houses many of the top scientists in food safety and food microbiology. Its international acclaim is well known among most of the food safety industry, and will continue growing. With this said, the IAFP annual meeting acts as a great stepping-stone for students who want to present their research, network among the food safety community, and expand their knowledge in the world of food safety.

Thesis/Dissertation Topics

Summer 2013

Thesis:

Natalie Baker - Glycogen Repletion and Glycemic Response to Carbohydrate Supplementation in Anaerobically Exercised Horses. Natalie Baker was advised by Steven Cooper.

Zhuo (Judy) Deng - Genomic effects on milk fatty acid composition of beef cows and its influences on calf pre-weaning growth. Zhuo Deng was advised by Jerry Fitch.

Katie Hilton - Broiler Genetics and Poultry Production System Interaction upon Carbon Balance of Growing Broilers. Katie Hilton was advised by Scott Carter.

Weiyu (Shannon) Jiang - Differential Regulation of Human Cathelicidin LL-37 by Free Fatty Acids and Their Analogs. Weiyu Jiang was advised by Glenn Zhang.

Kyle McLean - Effects of Protein Supplementation on Reproductive Performance of Fall Calving Cows, Prenatal and Postnatal Growth and Carcass Characteristics of Calves. Kyle McLean was advised by Robert Wettemann.

Christian Montalvo - Evaluation of ozone, electrolyzed water, and bacteriophage as antimicrobial interventions for raw beef. Christian Montalvo was advised by Peter Muriana.

Kathryn Parker - AKT is Required for FSH-stimulation of β -Catenin Accumulation in Bovine Granulosa Cells. Kathryn Parker was advised by Jennifer Hernandez-Gifford.

Shelby Roberts - Coordinated Gene Expression between Longissimus Dorsi Muscle and Intramuscular Fat in Grazing Cattle. Shelby Roberts was advised by Clint Krehbiel.

New Staff & Faculty Members

Haley Porter



Haley Porter is the new Administrative Support Assistant for the Food Science office, room 104. She is originally from Miami, New Mexico and is engaged to TJ Rosson. She owns two dogs; a Welsh Corgi named Maggie and a Jack Russell Terrier named Hank. She likes to cook/bake, ski, and participate in shooting sports in her free time.

She showed market lambs throughout her time in 4-H and took numerous animal science courses while attending Texas Tech University. As a graduate research assistant at Texas Tech, she assisted with research for the International Center for Food Industry Excellence. She conducted a needs assessment of the agricultural industry in Belize for her thesis research. Haley wants to pursue a Ph.D. in educational leadership or agricultural education and eventually work in higher administration at the university level of the Cooperative Extension Service.

Michelle Stewart

Michelle Stewart is the new Senior Accounting Specialist for the Department of Animal Science. She is originally from Satanta, Kansas. She is married to Brandon Stewart and they have a son in junior high school named Jace. They have a family cat named Zelda, which her son named after the video game.

Michelle's favorite activity is reading; She loves to read daily in her spare time. Michelle makes it her goal to always appreciate her blessings in life.



New Staff & Faculty Members

Kathy Ratzlaff



Kathy Ratzlaff is the new Administrative Assistant for the Department of Animal Science and works in the main office, ANSI 101. She is originally from Perkins, OK and has been married to her husband, Trey Ratzlaff, for 17 years. They have one daughter, Lauren, who will turn 10 years old in October. They own a black lab mix named Cole. Kathy enjoys reading in her spare time and her goal is to make a difference in those around her.

Jamie Maxwell

Jamie Maxwell is the new Accountant for the Department of Animal Science in RM 101. She is originally from Mounds, Oklahoma and has a daughter named Jaiden.

In her free time, she enjoys spending time and performing activities with her daughter. These activities include biking, swimming, watching (and explaining) OSU sports and playing whatever game sounds good at the time.



Awards and Recognition

Dr. Lalman receives national ASAS extension award



Oklahoma State University professor and OSU Cooperative Extension beef cattle specialist Dr. David Lalman receive the 2013 National American Society of Animal Science Extension Award. Dr. Lalman is the sixth ANSI faculty member to receive the award.

OSU communication specialist Sean Hubbard recently wrote that, “Lalman’s programs have generated nearly \$2 million in extramural funding and have been awarded more than \$250,000 of internal funding. He has published 44 peer reviewed journal articles, 82 abstracts, 70 research progress reports, 83 Extension publications and 61 proceedings articles.”

[Click here to read more of Sean Hubbard’s article](#)

Dr. Richards receives southern section ASAS extension award

Oklahoma State University extension specialist Dr. Chris Richards received the 2013 Extension Award from the Southern Section of the American Society of Animal Science. The award is given to researchers working in extension that have made a contribution to the study of Animal Science.

He was also featured in an article by ASAS Taking Stock for receiving the award. Madeline McCurry-Schmidt wrote in the article that, “Richards first became involved in Extension as an assistant professor at the University of Tennessee. Today, Richards is part of a strong beef cattle Extension program at Oklahoma State University (OSU). At OSU, Richards connects with cattle producers through programs like the Master Cattleman program and OSU Beef Industry Conference.”



[Click here to read more of Madeline McCurry-Schmidt’s article](#)

Reports & Books Published

OSU professors publish study in Journal of Animal Science



*Dr. Raluca Mateescu
Lead Author*

Oklahoma State University Associate Professor's Raluca Mateescu and Dr. Deb VanOverbeke recently had their work published in the Journal of Animal Science. The article is titled "Genome-wide association study of concentration of iron and other minerals in longissimus muscle of Angus cattle" and evaluates genes associated with mineral concentration in beef and found that producers can use genetic selection to increase iron concentration in beef. Improving iron concentration in food products could help solve iron deficiency woes.

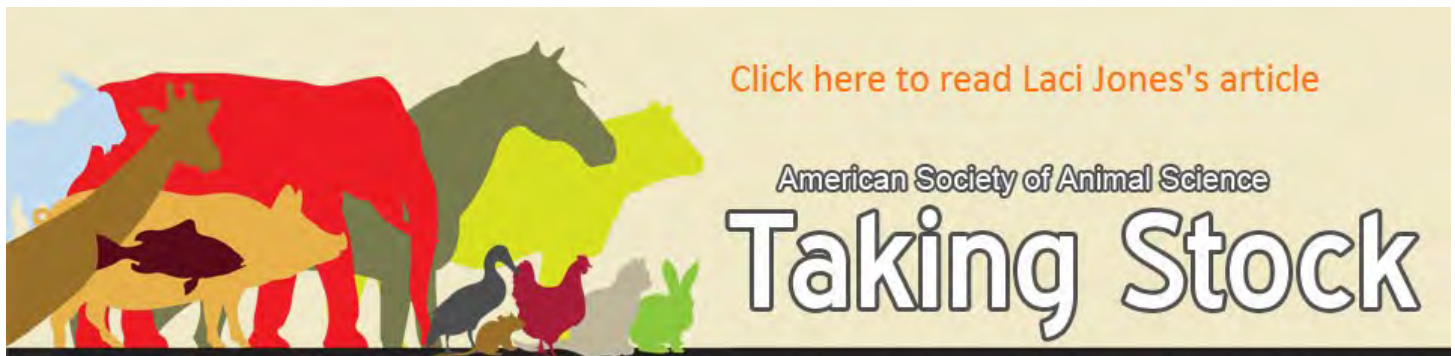
It was also highlighted in the August edition of ASAS Taking Stock. Laci Jones writes that the "researchers evaluated 2,285 Angus-sired cattle. After harvesting, they evaluated meat samples for nutrient content. Garrick (*co-author*) said they genotyped the cattle for 50,000 markers spread across all 30 chromosome pairs. Garrick said they were analyzing the relationships between measures of performance and the genotypes. This helped them identify genes associated with iron concentration."

Dr. Mateescu served as lead author of the article. Co-authors include: D.L. VanOverbeke, D.J. Garrick, R.G. Tait, Jr., A.J. Garmyn, Q. Duan, Q. Liu, M.S. Mayes, A.L. Van Eenennaam, G.G. Hilton, D.C. Beitz, and J.M. Reecy.



*Dr. Deb VanOverbeke
Co-Author*

[Click here to read "Genome-wide association study of concentration of iron and other minerals in longissimus muscle of Angus cattle."](#)



Upcoming Events

2013

October 11th—19th

OSU Homecoming Week

December 13th—14th

Commencement

2014

March 12th – 21st

Oklahoma Youth Expo – OKC

April 6th

Cowboy Classic Sale
Purebred Beef Center

April 4th

Reunion Gala at 5:45p.m.
Conoco - Philips Alumni Center

June 24th - 29th

OSU Livestock Judging Camp

April 5th

Old Timers Judging Contest ANSI Arena
Luncheon - ANSI Building
ANSI Banquet - Wes Watkins Center

July 15th - 17th

Big Three Field Days

OTHER CALENDARS



AgYouth



(Click Pictures to View Calendars)

Do you have information for our next newsletter? Please e-mail us at rebekah.alford@okstate.edu.

ANSI Alumni

Hello Animal Science Alumni,

The 2014 Animal Science Alumni Association Gala Reunion and Scholarship Auction date has been set for **Friday, April 4, 2014**. This event will be held at the ConocoPhillips OSU Alumni Center.

All past and present Livestock Unit Herd Managers and Student Employees will be honored at this event including livestock units, meat labs, N.P. Barn, etc. Please save the date and make plans to attend as we hope this will be our best gala yet!

We have provided you with a brief questionnaire that will assist us in planning for the event. Please **download** the questionnaire, fill it out, and return it to us via email or mail. We would like to reach as many people as we can.

Please plan to attend the Gala Reunion to celebrate the tradition and support the future of OSU Animal Science.

To stay informed with the Animal Science Alumni Association, check out our new **web page** and like our **Facebook page**!

Sincerely,



Kim Brock | 405.880.4255 | kim.brock@okstate.edu
ASAA Executive Secretary

ANSI Alumni

2013 Alumni Association Officers

President

Rob Richard

Past President

Tyler Norvell

Vice-President

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Executive Secretary

Kim Brock

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Fred Slater

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Jeff Mafi

Megan Bryant

At Large

Brent Wellings

John Jeffrey

Ex Officio

Clint Rusk

Presidential Appointees**(At Large)**

Robert Totusek

Steve Armbruster

Brad Morgan



Department of
Animal Science

JOIN NOW!

[Click here to apply for an ASAA Membership!](#)



Alumni Association

Do you have information for our next newsletter? Please e-mail us at rebekah.alford@okstate.edu.

News Team

Quotes

“Don’t let yesterday take up too much of today. “

- Will Rogers



Featured Photo



OSU Dairy Class. Photo taken between 1910 and 1920.

News Team

Contributors

Rebekah Alford

L.J. Bernhard

Kim Brock

Raluca Mateescu

Chris Richards

Clint Rusk

Glenn Zhang

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Ashley Collins

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Student Writers

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Editor

Rebekah Alford

Do you have information for our next newsletter? Please e-mail us at rebekah.alford@okstate.edu.

The Bulletin Board

Click Fliers For More Information



Do you have information for our newsletter?
[Click Here](#)

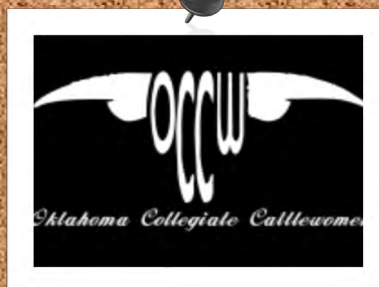
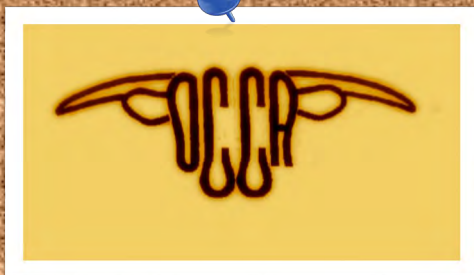


Contact L.J. Bernhard about internship opportunities



[Read More ANSI News Here](#)

Join the Club!
ANSI Student Organizations



Do you have information for our bulletin board? Please e-mail us at rebekah.alford@okstate.edu.

Links

BIF Conference (Pg. 3)

BIF Proceedings <http://www.beefimprovement.org/content/uploads/2013/07/BIF-Proceedings.pdf>

SUNUP Video http://www.youtube.com/watch?v=UrOxi0dH6_c

ANGUS REPORT Video 1 <http://www.youtube.com/watch?v=iCPjOgQnhZI>

ANGUS REPORT Video 2 http://www.youtube.com/watch?v=c_M-GznHAhg

Internships (Pg. 4)

Okstate ANSI Internship Stories <http://okstateinterns.wordpress.com/>

Faculty Awards (Pg. 16)

Sean Hubbard's AG Communications Article <http://www.dasnr.okstate.edu/Members/sean.hubbard-40okstate.edu/osu-professor-nationally-recognized-for-extension-excellence>

Madeline McCurry-Schmidt's "Taking Stock" Article <http://takingstock.asas.org/?p=6886>

Faculty Publications (Pg. 17)

"Genome-wide association study of concentration of iron and..." <http://www.journalofanimalscience.org/content/91/8/3593.full.pdf+html?sid=295fe939-c498-454d-98c3-fd05cfd4790e>

"Taking Stock" Article by Laci Jones <http://takingstock.asas.org/?p=9135>

Calendars (Pg. 19)

FFA <http://www.okffa.org/Calendar/CalendarofEvents.pdf>

AgYouth <http://agyouth.com/calendar.pdf>

4H <http://oklahoma4h.okstate.edu/calendar/>

Alumni Association (Pg. 20)

Application <http://www.osuanscialumni.com/membership.html>

Bulletin Board (Pg. 22)

OSU Dept. of ANSI Website <http://ansi.okstate.edu/>

OSU Beef Extension <http://www.beefextension.com/>

ANSI Newsletters <http://www.ansi.okstate.edu/news>

ANSI Facebook Page <https://m.facebook.com/OSUansi>

ANSI Twitter Page https://twitter.com/OkState_ANSI

ANSI Clubs <http://www.ansi.okstate.edu/student-life/student-organizations-1>

SUNUP <http://sunup.okstate.edu/>

OCCA <http://www.ansi.okstate.edu/student-life/student-organizations-1/oklahoma-collegiate-cattlemens-association>

OCCW <http://occw.weebly.com/products.html>

"Eat Beef" License Plates Order Form http://occw.weebly.com/uploads/2/3/0/7/2307232/eat_beef_product_order_form.pdf



Thank You



Thank you for taking the time to read our ANSI newsletter, Cowpoke News!
I hope you have enjoyed reading about our Animal Science Department.

All Cowpoke Newsletters will be shown on our website at
<http://www.ansi.okstate.edu/newsletter>

If you know of a potential story or have any suggestions for our newsletter,
please contact our news team at rebekah.alford@okstate.edu.

