



• Teaching • Research • Extension • Departmental Activities

## Mississippi Farm Bureau Trip to D.C.

Submitted by Dr. Brandi Karisch



Dr. Brandi Karisch recently traveled to Washington D.C. representing the Mississippi Farm Bureau Young Farmers and Ranchers State Committee. While there Dr. Karisch had the opportunity to meet with legislators and staff from Mississippi, as well as staff from the House Agriculture Committee and House Appropriations Committee. Also on the trip, there were



opportunities to visit with the Japanese Embassy with discussions of agriculture and trade with Japan. The group also met with several Federal Agencies such as the EPA, USDA-APHIS, Risk

Management Agency, and Farm Service Agency. There was also ample time for tours and sightseeing. In particular, the group was treated to a private tour by Congressman Gregg Harper which included a visit to the floor of the House of Representatives, and even a trip out on the Speaker's Balcony of the Capitol Building!



Dr. Brandi and Matt Karisch





Mississippi State  
University Horse  
Judging Team



## American Quarter Horse Association 2016 World Show



Submitted by **Dr. Clay Cavinder**

The 2016 MSU horse judging team has just finished competing in the AQHA World Show, and we'd like to share our results with you. The team placed 5th in Reasons, 5th in Performance, and 7th Overall. We congratulate Hannah Carter, who won 8th High Individual in Reasons, 4th High Individual in Performance, and 6th High Individual Overall.

We'd like to extend our gratitude to everyone who has supported and encouraged our team. We couldn't do it without you. Hail State!



**Emily Ferjak, Hannah Carter, Mallorie Humble, Anna-Kate Tomlinson, Dorothy Cottonham, Rachel Zinsmeyer, Britney Washington, and Bethany Lovell**



# Upcoming Extension Events

## Beef Extension – Dr. Brandi Karisch Cobie Rutherford



- **2017 Cattle Industry and NCBA Trade Show on January 31—February 4, 2017 in Nashville, TN**

## Equine Events – Dr. Clay Cavinder

- **Ranch Horse Clinic** series is coming to Starkville in Spring 2017. Be on the lookout for the official dates.



## 4-H Events – Dr. Dean Jousan

- **National 4H Congress, Nov. 25-29, 2016, Atlanta, GA**



## Dairy Events – Dr. Amanda Stone

- **Dairy Science Field Day: March 17, 2017, Starkville**
- **Bearden Dairy Research Center Open House: May 20, 2017**



# Mississippi State University Horse Unit

## Sale Preview!



MSU Cashin the Acres-2016 bay colt by Abilene Acre, out of Nu Poco Cash. Abilene Acre is the son of Bob Acre Doc with LTE of \$381,000, and offspring earnings of over \$4.5 million NCHA and \$30,000 NRHA. The dam is by Bueno Cash Quixote (NRHA LTE \$2,256.84). Bueno Cash Quixote earned his ROM and superior in reining. He won the 2004 AQHA Hi-Point all-age and Jr. reining.

This colt is very good minded and has plenty of athleticism. He leads, ties, bathes and trailers. He has been gelded. Auction.msucares.com will be available for viewing on November 5th.

## MSU Horse Sale

Bid November 14-19, 2016

Quick, Convenient Bidding At [AUCTION.MSUCARES.COM](http://AUCTION.MSUCARES.COM)

**Athleticism**



**Versatility**



**Quality**

Viewing by appointment

Contact: Ashley Shiffler - (580) 795-4349 - [aes779@msstate.edu](mailto:aes779@msstate.edu)

**Bloodlines Including**

Sixes Pick - Dash for Cash - Captain Courage - Sun Frost - SR Instant Choice  
And More!



# Little International Livestock Show

Submitted by Dr. Jamie Larson



Species Class Winners & Judge Trent Tolar

Block and Bridle hosted their Little International livestock show on November 12 at the Horse Park. Nineteen pledges showed the sheep, pigs, dairy heifers, beef heifers, and horses that they have been working with since the beginning of September. A showmanship winner was named for each species class and **Miss Emma Grace Martin** was named the overall winner. There was serious competition among **Dr. Blanton**, **Dr. Lemley**, **Dr. Rude**, **Ms. Graves** and **Mr. Rutherford** in the faculty/alumni division with Cobie breaking the winning streak of reigning champion Jessica.

The staff at the animal units provided a lot of help and guidance to these students and we appreciate their support. Mr. Trent Tolar was the judge and he is a graduate of our department and a former Livestock judging team member and B&B member. Thanks to everyone who came to Little I and to the pledge sale to support the club.



Block & Bridle Pledges & Officers



Cobie Rutherford \* Trent Tolar \* Dr. Brian Rude \* Dr. Caleb Lemley \* Dr. John Blanton \* Jessica Graves

# ADS CLUBS and ORGANIZATIONS

## MSU Meat Chemistry and Cuisine Club Fundraiser

Our meatheads will be outside of Ballew Hall cooking some samples and selling ready-to-cook meats and pork-stuffed spring rolls every Tuesday at 4 PM. If you would like to purchase our products, please come during the sampling event every Tuesday or email Alex Holtcamp (ajh420@msstate.edu) or Anuraj Sukumaran (at1179@msstate.edu). Meats and spring rolls will be available for pick up from Monday to Friday in Ballew Hall.

### SAMPLE MENU:

6 4-oz dry-rub pork chops in vacuum package for \$8

6 spring rolls in vacuum package for \$6

### FREE SAMPLES

EVERY TUESDAY at 4 pm outside BALLEW HALL







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## Animal Agriculture in China

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### Program Description:

Stationed at China Agricultural University in Beijing, the capital of the world's second-largest economy (after the US), for 3 weeks, students will learn a great deal of China's animal agricultural practices, animal product consumption patterns, and its veterinary service. Fantastic lectures will be delivered by the top Chinese faculty members and industry leaders in the fields. Experts in the allied American companies in China will also come to the sites to give seminars on their foreign business development and management. Several excursions will be arranged to explore Chinese livestock and poultry farms. In addition, students will be escorted by their Chinese counterparts to experience the country's culture, cuisine, language, and several very attractive sights during this program. In short, this program will provide students with informative, educational, valuable, enjoyable, and memorable international experiences to well prepare them ahead of time for their careers related to animals and animal products.

### Program Dates:

May 8 – May 31, 2017

### Course:

ADS 4990/6990 Special Topics in Animal and Dairy Sciences (3 credit hours)

### Requirements:

All undergraduate and graduate students with at least a 2.5 GPA are welcome to participate in this program, which is especially a great option for those students with animal-related interests not only in the College of Agriculture and Life Sciences but also in the College of Veterinary Medicine. For ADS students this course can be used to meet their major requirement for "Experiential Learning".



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### Application Deadline:

March 3, 2017

### Price: \$1,950 \*

March 3, 2017 - \$150 (non-refundable)

March 17, 2017 - Payment #1: \$900

March 31, 2017 - Payment #2: \$900

\*All program fees are charged to MSU student accounts. Once each payment deadline has passed and the student's account has been charged, the fee is non-refundable.

### Program cost includes:

- International Health and Emergency Assistance insurance
- Lodging
- Some meals
- In-country travel
- Entrance Fees
- 4 Excursions

### Cost does not include:

- MSU Tuition and Fees
- OSA Software Fee (\$28)
- Chinese visa application fee
- International round-trip airfare
- Some meals

For more information contact Program Director :  
Shengfa Liao, s.liao@msstate.edu

Office of Study Abroad

116 Allen Hall

662-325-8929

studyabroad@msstate.edu

**MSU scholarships available**

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## 2016 Refereed Publications:

- Kennedy, V. C. B. R. Mordhorst, J. J. Gaspers, M. L. Bauer, K. C. Swanson, **C. O. Lemley**, and K. A. Vonnahme. Supplementation of corn dried distillers' grains plus solubles to gestating beef cows fed low-quality forage: II. Impacts on uterine blood flow, circulating estradiol-17 and progesterone, and hepatic steroid metabolizing enzyme activity. *Journal of Animal Science*. 2016. 94: 4619-4628.
- Greene, Jonathan M. and **Peter L. Ryan**. L-Arginine in the Uterus and Placenta and During Gestation in Mammals. *L-Arginine in Clinical Nutrition*. 2017. Chapter 22, 285-299.
- Larson, J.E.** Incorporating Writing-to-Learn Strategies into an Animal Reproduction Course. *NACTA Journal*, September 2016, Vol 60(3), 303-306.
- Lamb, G. C., PAS, V. R. G. Mercadante, D. D. Henry, P. L. P. Fontes, C. R. Dahlen, **J. E. Larson**, and N. DiLorenzo. Invited Review: Advantages of current and future reproductive technologies for beef cattle production. *The Professional Animal Scientist* 32 (2016):162–171; <http://dx.doi.org/10.15232/pas.2015-01455>.
- Regmi, Naresh, Taiji Wang, **Mark A. Crenshaw**, **Brian J. Rude**, Guoyao Wu, **Shengfa F. Liao**. Effects of dietary lysine levels on plasma free amino acid profile in late-stage finishing pigs. *SpringerPlus* (2016) 5:888, DOI 10.1186/s40064-016-2463-3.
- Mayer, J. J., J. D. Davis, J. L. Purswell, E. J. Koury, N. H. Younan, **J. E. Larson**, and T. M. Brown-Brandl. 2016. Development and characterization of a continuous tympanic temperature logging (CTTL) probe for bovine animals. *Transactions of the ASABE*. 59:703-714. (DOI: 10.13031/trans.59.11367).
- Gilfeather, CL and **CO Lemley**. 2016. Effects of Interferon-Tau and Steroids on Cytochrome P450 Activity in Bovine Endometrial Epithelial Cells. *Reproduction in Domestic Animals*, 51, 415–420 (2016); doi: 10.1111/rda.12695.
- Prezotto, L. D., L. E. Camacho, **C. O. Lemley**, F. E. Keomanivong, K. A. Vonnahme and K. C. Swanson, J. S. Caton. Nutrient restriction and realimentation in beef cows during early and mid-gestation and maternal and fetal hepatic and small intestinal in vitro oxygen consumption. *The Animal Consortium* 2015. doi:10.1017/S1751731115002645.
- Ye, G., J. Liu, Y. Liu, X. Chen, **S. F. Liao**, D. Huang, and K. Huang. 2016. Feeding glycerol-enriched yeast culture improves lactation performance, energy status, and hepatic gluconeogenic enzyme expression of dairy cows during the transition period. *J. Anim. Sci.* doi: 10.2527/jas.2015-0021.
- Cline, G. F., A. M. Muth-Spurlock, B. E. Voelz, **C. O. Lemley**, and **J. E. Larson**. 2016. Evaluating blood perfusion of the corpus luteum in beef cows during fescue toxicosis. *J. Anim. Sci.* 94:90-95.
- Brockus, K. E., C. G. Hart, C. L. Gilfeather, B. O. Fleming, **C. O. Lemley** (2016). Dietary melatonin alters uterine artery hemodynamics in pregnant Holstein heifers. *Domestic Animal Endocrinology*, 55, 1-10.
- Kaya, A., **E. Memili**. Sperm macromolecules associated with bull fertility. *Animal Reproduction Science*. (2016), <http://dx.doi.org/10.1016/j.anireprosci.2016.02.015>



- Hunt, M.R., J.F.Legako, **T.T.N. Dinh**, A.J.Garmyn, T.G.O'Quinn, C.H. Corbin, R.J. Rathmann, J.C. Brooks, M.F. Miller. Assessment of volatile compounds, neutral and polar lipid fatty acids of four beef muscles from USDA Choice and Select graded carcasses and their relationships with consumer palatability cores and intramuscular fat content. *Meat Science* 116 (2016) 91–101.
- Keomanivong, F. E., **C. O. Lemley**, L. E. Camacho, R. Yunusova, P. P. Borowicz, J. S. Caton, A. M. Meyer, K. A. Vonnahme and K. C. Swanson. Influence of nutrient restriction and melatonin supplementation of pregnant ewes on maternal and fetal pancreatic digestive enzymes and insulin-containing clusters. *Animal* (2016), 10:3, pp 440–448.
- Brockus, KE, CG Hart, BO Fleming, T Smith, **SH Ward** and **CO Lemley**. Effects of Supplementing Holstein Heifers with Dietary Melatonin during Late Gestation on Growth and Cardiovascular Measurements of their Offspring. *Reproduction in Domestic Animals*. 51, 240–247 (2016); doi: 10.1111/rda.12672 ISSN
- Vasquez, Erick S., **Jean M. Feugang**, **Scott T. Willard**, **Peter L. Ryan** and Keisha B. Walters. Bioluminescent magnetic nanoparticles as potential imaging agents for mammalian spermatozoa. *Journal of Nanobiotechnology*. (2016) 14:20.