

• Teaching • Research • Extension • Departmental Activities

ADS 4333/6333 Students Learning Through Experience in the Sport Horse Industry



Submitted by Dr. Molly Nicodemus

As the fall 2016 semester draws to a close, the students of ADS 4333/6333 Equine Exercise Physiology begin their final group presentations on training the sport horse. This group project had students select a trainer to learn from throughout the semester about what it takes to train a sport horse. Several local trainers have participated in this project multiple years including eventing trainer Betsy Ball, barrel horse trainer Quay Eaves, cutting horse trainer Allen Crouch, Racking Horse trainer Mike Ethridge, endurance trainer Mike Carraway, and roping trainer Dez Henley.

Students spent the semester working firsthand with the trainers getting to see in person what exercise does to the physiology of the sport horse. Along with working with the trainers in completing the project, students got credit for working local sport horse events including the Horse Poor Barrel Race at the Horse Park held in mid-October, the Heart of Dixie Palomino Exhibitors Association (HOPE) PHBA/Open Horse Show at the Lee Agricenter held in late October, and the HOPE PHBA/PtHA Horse Show at the Lee Agricenter held in November.

During these competitions, students got to visit with nationally recognized professionals in the industry like PHBA trainers Steve Tidwell and Shawn Budke and AQHA trainer and judge Tom McBeath. Students saw sport horses in action and worked side by side with judges and show management to gain insight on all aspects of the sport horse industry.



Tom McBeath and Emily Cashwell

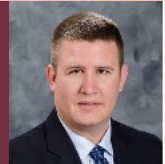
Mississippi

BEEF CATTLE IMPROVEMENT ASSOCIATION

Fall Bull & Heifer Sale

BCIA RESULTS

Submitted by Cobie Rutherford



Bulls averaged \$2,233.00

Bred Heifers averaged \$1,125.00

Open heifers \$968.00

Top bull was an Angus bull sold by a Mississippi 4-H member, Seth Ball. He sold for \$4,000.



**FOR MORE INFORMATION OR TO RECEIVE CATALOG, CONTACT:
DR. BRANDI KARISCH - (662) 325-7465 - BRANDI.KARISCH@MSSTATE.EDU
COBIE RUTHERFORD - (662) 325-4344 - COBIE.RUTHERFORD@MSSTATE.EDU**


MISSISSIPPI STATE
UNIVERSITY
EXTENSION

MISSISSIPPI
BCIA
MISSISSIPPI CATTLE IMPROVEMENT ASSOCIATION

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

BLOCK AND BRIDLE CLUB

Little International Livestock Show

This Saturday, November 12th is B&B's Little I livestock show. Come watch MSU Block and Bridle's pledges who their livestock projects. It will begin at 8 am at the Mississippi Horse Park. All are welcome to come out and watch the show. There will be a staff/faculty/alumni portion of the show again. The winner's name will be added to the plaque in the hallway! Bragging rights! The club will be selling Hot Chocolate, coffee and snacks during the show.



Mississippi State
University
Equestrian
Team



Mississippi State University Equestrian Team

The team travels to Georgia College in Milledgeville, GA to compete in their next meet on November 12, 2016.



MSU BLOCK & BRIDLE PLEDGE SALE

**NOVEMBER 11, 2016
5 PM
113 WISE CENTER**

**Need help with
yard work?**

**Need help moving
boxes?**

**Need a ride to
Walmart?**

Buy a pledge!!

**Pledges will work
up to 8 hours**





Animal Agriculture in China

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".



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

www.studyabroad.msstate.edu



MISSISSIPPI STATE UNIVERSITY™
INTERNATIONAL INSTITUTE
Office of Study Abroad

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

Athleticism

Versatility



Quality



Viewing by appointment

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

Bloodlines Including

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

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



2016 Refereed Publications:

- 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.