

**MISSISSIPPI STATE
UNIVERSITY**

Animal and Dairy



News
& Current Events

Vol. 39 September 30, 2016

• Teaching • Research • Extension • Departmental Activities

Proposal Seminar

**Assessment of on-arrival vaccination and deworming
on stocker cattle health and growth performance**



Tucker Wagner

October 6, 2016 at 8:00 AM

Room 4043



Mississippi State University Beef Unit



Mississippi State University Beef Unit shared Liz Caldwell's photo.

June 27 · 🌐

Here's a great shot of some of our SimAngus HT bred heifers. These girls are the foundation of our spring calving commercial herd, and were produced by mating Angus cows with a Simbrah bull.



Upcoming Extension Events

Beef Extension – Dr. Brandi Karisch Cobie Rutherford



The poster features a background of a field with a dark red horizontal band across the middle. At the top, there are three logos: Mississippi State University (MS Agricultural and Forestry Experiment Station), a USDA NRCS Conservation Innovation Grant (U.S. Department of Agriculture, Natural Resources Conservation Service), and Mississippi State University Extension. The central red band contains the text 'PRAIRIE RESEARCH UNIT' in white. Below this, in a light grey band, is the text 'Research updates and extension demonstrations' followed by a list of topics: 'Cattle heat stress • Udder scoring • Crossbreeding systems • GPS use with cattle' and 'Native grasses • Weed control • Feed intake and efficiency'. The bottom section, in a dark grey band, features the title 'Beef Cattle Field Day' in large white letters, followed by the date and location: 'Saturday, October 1, 2016, 9 a.m.' and '10223 Hwy 382, Prairie, MS'. At the very bottom, in a white band, is the contact information: 'For more information or to RSVP for lunch: 662.369.4426'.

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



- Mississippi State Fair: October 6 - 17

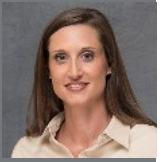
Dairy Events – Dr. Amanda Stone



- Dairy Science Field Day: March 17, 2017, Starkville

ADS CLUBS and ORGANIZATIONS

Mississippi State University Equestrian Team



Submitted by Ashley Shiffler

The Mississippi State University Equestrian Team competed in its first western competitions of the season on September 24th at Berry College. The riders represented MSU very well by earning 3rd place overall team for both competitions out of 6 teams. Additionally, Gentry Clark won Reserve High Point Rider. Participants and individual placings are as follows:

Beginner Horsemanship	Intermediate Horsemanship	Advanced Horsemanship
Ashley Beyer- 6 th	Ashley Greene- 3 rd and 4 th	Mary Claire Cornett- 3 rd and 3 rd
Joshua Boyd- 4 th	Ann Duncan- 6 th and 7 th	Hart Daniels- 6 th and 5 th
	Taylor McNair- 7 th and 3 rd	Sabrina Turner-2 nd and 6 th
	Madison Eckloff- 4 th and 5 th	

Open Horsemanship	Reining
Gentry Clark-4 th and 4 th	Gentry Clark-3 rd and 4 th

The next competition will be on October 15th and 16th also at Berry College. Both the English and Western teams will compete.



Hart Daniels, Mary Claire Corbett, Madison Eckloff, Sabrina Turner, Ann Duncan, Ashley Greene

MISSISSIPPI STATE UNIVERSITY

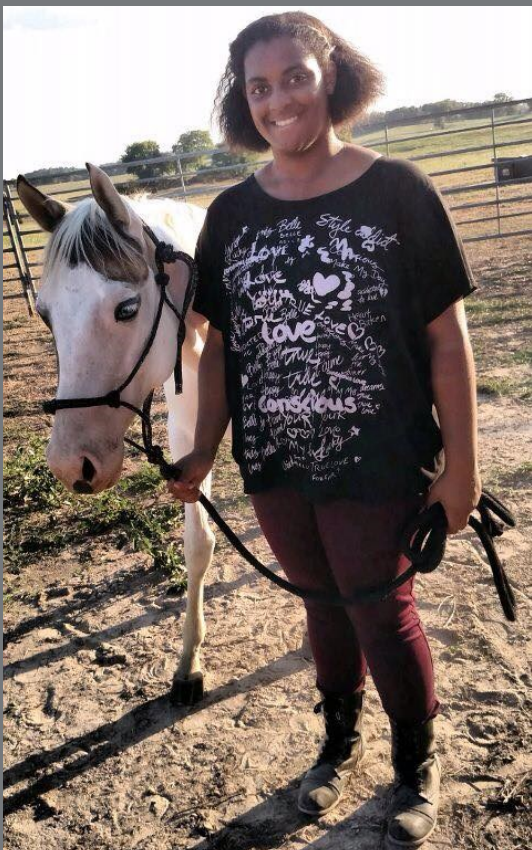
BLOCK AND BRIDLE CLUB



Caitlin Wonnacott

Yesterday at 2:07pm

First couple of weeks of halter breaking for the pledges. Learning the basics and getting to know their animals! So far, so good!



2016 Refereed Publications:

- 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.