



- Teaching
- Research
- Extension
- Departmental Activities

Animal and Dairy Sciences Alumni Weekend

The April 29th event featured a Silent Auction to support the Mississippi University Livestock Judging Team.

The support of our ADS Alumni play a major role in the success of both our department and our judging teams.

**Silent Auction Items
Battle Bell and White Cow Bell**



**Larry and Dick DeMuth
Newest members of the
MSU Livestock Judging Team Hall of Fame**

Run for the Roses Banquet

Presented by the MSU Horse Judging and Equestrian Teams

May 6, 2017 Derby Day

Live Viewing of the 143rd Kentucky Derby with Dinner

Live and Silent Auctions



Mississippi State University Livestock Judging All East Contest, West VA



By Brett Crow



The team had its strongest performance in the Evaluation Contest in which MSU had the reserve champion team. The MSU team had a strong showing in all three contests that took place over the course of the weekend ranking among the top three teams in every species of the combined sweepstakes results

Detailed team and individual results are below:

Team awards:

3rd Team -Sheep Evaluation

3rd Team-Swine Evaluation

3rd Team-Beef Evaluation

Reserve Champion Team Overall Evaluation Contest

3rd Team Sheep Selection

4th Team Swine Selection

5th Team Cattle Selection

4th Team Overall Selection Contest

4th Team Sheep Judging

5th Team Beef Judging

5th Team Oral Reasons

5th Team Overall Judging Contest

3rd Team Combined Sheep

3rd Team Combined Hogs

3rd Team Combined Beef

4th Team Overall Combined Contest

Emily Vowell-5th Swine Evaluation, 8th Overall Evaluation Contest

Tate Powell-2nd Beef Evaluation, 6th Sheep Selection, tied with 10th in Swine Selection, 9th Overall Selection Contest, 4th Combined Beef

Christie Reynolds-8th Beef Evaluation

Kirsten Midkiff-3rd Swine Selection, tied with high individual in Beef Selection (ranked 2nd), 3rd Overall Selection Contest, 7th Sheep Judging, 9th Beef Judging, 9th Reasons, 9th Combined Sheep, 10th Combined Beef, 10th Overall Combined Contest

Alex Pittman-6th in Sheep Judging

Upcoming Extension Events

Beef Extension – Dr. Brandi Karisch Cobie Rutherford



- Mississippi/Louisiana Beef and Forage Field Day on **May 20** in Tylertown, MS
- Beef Improvement Federation Annual Convention on **May 31—June 3** in Athens, GA

Equine Events – Dr. Clay Cavinder



- **Creating a Strong Foundation**, horse riding clinic in Liberty, **May 26-27**
- For more info, contact Dr. Cavinder at clay.cavinder@msstate.edu

4-H Events – Dr. Dean Jousan



- **State 4-H Livestock Judging Contest**, MSU South Farm, Starkville on **May 20, 2017**.
- **State 4-H Congress**, at MSU, on **May 31—June 2**.

Dairy Events – Dr. Amanda Stone



- **Bearden Dairy Research Center Open House**: **May 20, 2017**

2017 Mississippi State University Dairy Open House



Saturday May 20, 2017

10:00 AM to 2:00 PM

(lunch will be provided)

MSU Bearden Dairy Research Center

2128 Turkey Creek Road

Starkville, MS 39759



Speaker topics will include:

How and why to manage heat stress

Economics of center pivots

How to effectively feed pastured cows



Attendees will also have the opportunity to tour the farm, see the center pivot in action, and learn about pasture management techniques (what to do and what not to do – from our own experience)

Contact Amanda Stone for more information: amanda.stone@msstate.edu or 662-769-9941

MISSISSIPPI STATE
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2017 Refereed Publications:

Lemley, C. O. and K. A. Vonnahme. PHYSIOIOGY AND ENDOCRINOLOGY SYMPOSIUM:

Alterations in uteroplacental hemodynamics during melatonin supplementation in sheep and cattle. *Journal of Animal Science* 2017.95:2211-2221. doi:10.2527/jas2016.1151.

Gastal, G.D.A., F.L.N. Aguiar, B.G. Alves, K.A. Alves, S.G.S. de Tarso, G.M. Ishak, **C.A. Cavinder, J.M. Feugang**, E.L. Gastal. Equine ovarian tissue viability after cryopreservation and in vitro Culture. *Theriogenology* 97 (2017) 139-147.

Maki, C R, S Allen, M Wang, SH Ward, **BJ Rude**, HR Bailey, RB Harvey and TD Phillips. Calcium Montmorillonite Clay for the Reduction of Aflatoxin Residues in Milk and Dairy Products. *Journal of Dairy and Veterinary Sciences*. 2017; 2*3): 555587.

Regmi, N., T. Wang, **M. A. Crenshaw, B. J. Rude, S. F. Liao**. Effects of dietary lysine levels on the concentrations of selected nutrient metabolites in blood plasma of late-stage finishing pigs. *Journal of Animal Physiology and Animal Nutrition*. 2017; 1-7. DOI: 10.1111/jpn.12714.

Wang, Taiji, **Jean M. Feugang, Mark A. Crenshaw**, Naresh Regmi, **John R. Blanton Jr.** and **Shengfa F. Liao**. A Systems Biology Approach Using Transcriptomic Data Reveals Genes and Pathways in Porcine Skeletal Muscle Affected by Dietary Lysine. *International Journal of Molecular Sciences* (2017) 18, 885.

Cain, Amanda J., **Caleb O. Lemley**, F. Kevin Walters, David L. Christiansen, E. Heath King, Richard M. Hopper. Pre-breeding beef heifer management and season affect mid to late gestation uterine artery hemodynamics. *Theriogenology* 87 (2017) 9–15.

Jones, Barbara W., **Amanda E. Stone**, Connie L. Wood, Kristen J. McQuerry, Joey D. Clark, Denise L. Ray, and Jeffrey M. Bewley, PAS. Case Study: Characterization of milk yield, lying and rumination behavior, gait, cleanliness, and lesions between 2 different freestall bases. *The Professional Animal Scientist* 33:140–149. <https://doi.org/10.15232/pas.2016-01548>.

Stone, A. E., B. W. Jones, C. A. Becker, and J. M. Bewley. 2017. Influence of breed, milk yield, and temperature-humidity index on dairy cow lying time, neck activity, reticulorumen temperature, and rumination behavior. *Journal of Dairy Sciences* 100:1–9. <https://doi.org/10.3168/jds.2016-11607>.

Hodge, Lauren B., **Brian J. Rude, Thu N. Dinh, Caleb O. Lemley**. Effect of u-3 Fatty Acid Supplementation to Gestating and Lactating Mares: On Milk IgG, Mare and Foal Blood Concentrations of IgG, Insulin and Glucose, Placental Efficiency, and Fatty Acid Composition of Milk and Serum From Mares and Foals. *Journal of Equine Veterinary Science* 51 (2017) 70–78.

Littlejohn, B. P., M. C. Roberts, M. N. Bedenbaugh, A. W. Lewis, D. A. Neuendorff, D. G. Riley, J. A. Carroll, **R. C. Vann**, M. Amstalden, R. D. Randel, T. H. Welsh, Jr. (2017). Evaluation of the influence of prenatal transportation stress on GnRH-stimulated luteinizing hormone and testosterone secretion in sexually mature Brahman Bulls. *Journal of Animal Science* 95, 129-138.
www.animalsciencepublications.org/publications/jas.

Gastal, G D A , B G Alves, K A Alves, M E M Souza, A D Vieira, A S Varela Jr, J R Figueiredo, **J M Feugang**, T Lucia Jr and E L Gastal. Ovarian fragment sizes affect viability and morphology of preantral follicles during storage at 4°C. *Reproduction*, (2017) 153, 577-587.

2017 Book Chapters:

Greene, Jonathan M. and **Peter L. Ryan**. L-Arginine in the Uterus and Placenta and During Gestation in Mammals. In *L-Arginine in Clinical Nutrition*, Nutrition and Health, Chapter 22. 2017. V.B. Patel et al. (eds.). DOI 10.1007/978-3-319-26009-9_22.