



• Teaching • Research • Extension • Departmental Activities

Teaching

MSU just returned home from West Lafayette, IN where Purdue University hosted the 2016 “All East” Contest. The event was host to 11 universities and 75 contestants from the Eastern U.S. MSU team members are seated left to right in the attached picture: Kelsey Latham, Renee Anderson, Cassie Tabler, Madison Tew, and Logan Goff. The team coach is **Brett Crow** and the assistant coach is Tucker Wagner.

Team Results

Selection Contest:

5th Cattle
5th Sheep
5th Hogs
4th Overall Selection

Evaluation Contest:

5th Swine
5th Cattle

Overall 3-day Combined Results:

5th Swine
5th Cattle
6th overall team

Individual Results

Selection Contest:

Madison Tew 6th Sheep, 8th overall
Renee Anderson 4th swine, tied for 11th cattle, 15th overall

Evaluation Contest:

Renee Anderson 4th cattle, 14th swine
Madison Tew 5th cattle, 17th overall

Overall 3-Day Combined:

Madison Tew 9th cattle, 17th overall
Renee Anderson 11th cattle, 14th swine



Extension

UPCOMING EVENTS

4-H Events:

- May 21st - **4-H Livestock Judging Contest** at the MSU Horse Park.
- For more events, go to [Mississippi 4-H Calendar of Events](#) or contact **Dean Jousan** dj230@msstate.edu

Beef Extension Events:

- Friday, April 15, 2016 - 9 am to 3 pm, Beef Cattle Boot Camp, Newton, MS

For more events go to [Beef Cattle Calendar of Events](#) or contact **Brandi Karisch** brandi.karisch@msstate.edu or **Cobie Rutherford** cobie.rutherford@msstate.edu

Riding Clinics:

- July 2016 - **Basic Horsemanship Clinics** at the county/district level. Agents have been asked to organize riding clinics in their areas to address topics such as making a more enjoyable horse, leads and lead departures, side passing and two tracking, speed control, bridling up, stopping, and much more! Clinicians from MSU will teach these clinics. Please contact your county agent to organize one of these clinics if you are interested.

The Mane Event:

The MSU Extension Service is proud to introduce a new informational video series! The Mane Event is a monthly “how-to” video series concerning horse management, nutrition concerns, and training tips. These short informative videos provide a source of information to all who are interested in horse care, use, and riding.

- Neck Reining - February (newest video)
- Link to Video web page: [The Mane Event](#)

For more info, go to [Horse Production in Mississippi](#) or contact **Clay Cavinder** clay.cavinder@msstate.edu

Departmental Activities

Dr. Derris Burnett and **Mrs. Jessica Graves** attended the 31st Annual Career Fair and Training conference for the National Society for Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS) in Jacksonville, Florida to recruit both undergraduate and graduate students to the Department of Animal and Dairy Sciences.

MANRRS is a national organization that promotes diversity and inclusion of underrepresented groups in agriculture and related fields. MANRRS establishes partnerships among its student and professional members and individuals from private industry, government, academia and nonprofit organizations in a nurturing

environment that promotes scholarly excellence, professional development, networking, and career placement.

This is accomplished through the many activities at individual chapters, cluster/regional events and at the Annual National Training Conference and Career Fair. The 2016 Conference Theme was: "MANRRS: Growing the Next Generation of Agricultural Leaders" The conference had over 1,000 students and exhibitors and included diamond level sponsors including John Deere, Farm Credit, USDA Veterinary Services, and Animal Care who contributed over \$60,000 each to help host the conference.

Dr. Burnett and **Mrs. Graves** were accompanied by Drs. Scott Willard and Kevin Hunt who, along with Dr. Burnett, serve as Co-Advisors for the MSU chapter of MANRRS. In addition, 5 members of the MSU MANRRS chapter also attended the conference and some had on-site interviews with the USDA to fill immediate position openings.

Together the MSU delegation did a wonderful job representing the University and several potential students were interested in joining our ADS department as Undergraduate, Graduate, and National Exchange Program Students.



Kevin Hunt, Scott Willard, Jessica Graves and Derris Burnett

Departmental Activities

31st Annual Career Fair and Training conference for the National Society for Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS) in Jacksonville, Florida.



Derris Burnett and Prospective students



Standing (l-r): Makayla Brister, Imani Henry, Amber Owen

Seated (l-r): D'Ebonee Blakemore, Kevin Hunt, Scott Willard, Derris Burnett, Nia Blair



Prospective student and Jessica Graves

Departmental Activities

Congratulations to Ashleigh Muth-Spurlock on winning the 2016 Gamma Sigma Delta Outstanding Graduate Student Award!

The Department of Animal and Dairy Sciences hosted the **Mississippi FFA Meats Judging Competition** on Friday April 8, 2016. There were a total of 12 teams and 48 participants from all over the state. The students judged Beef Carcasses, Pork Carcasses, T-Bone Steaks, Fresh Hams, and 30 Retail Cuts.

Dr. Derris Burnett served as the Competition Superintendent and was assisted by **Dr. Thu Dinh, Tim Armstrong, James Cannon, Anuraj**

Sukumaran, and Joseph Mangano, along with several representatives from the School of Human Sciences who helped grade and tabulate scorecards.

We are excited to have this competition back in the Department of Animal and Dairy Sciences and hope that this will serve as a conduit to recruit and retain young “Meat-Heads” into our burgeoning Meat Science and Muscle Biology Program.



Departmental Activities

Super Bulldog Weekend BBQ competition is back and your resident Meat Scientists will be smokin' hot this weekend! Last year, they brought home a 2nd place win for the whole pork shoulder category in our very first competition.

This year they have tweaked the recipe and have improved the presentation, so needless to say, we are going for the Gold! In addition they are looking to improve on their disappointing placing in the Rib Competition L.

Come out to our booth Friday and Saturday to show your support! We are planning to

have a "Friends, Family, and Alumni" tasting hour on Friday about 5:30pm and on Saturday around 2:00pm.

While you are out enjoying the festivities, stop by and taste some of our Porcine Delicacies including ribs, pork loins, rib tips, tenderloins, and pork belly sliders!

In addition to these formal tasting times, we will have grilled and smoked snacks throughout the day and night for your tasting pleasure. Please come by and bring some Alumni, Family, and Friends with you!



Departmental Activities

Busy Spring Semester of Volunteering for the Horseman's Association

While the fall semester for the Horseman's Association was busy assisting with the Horse Poor Barrel Run and the PHBA Mississippi Fall Classic Horse Show, the spring semester started off strong with the students traveling to Jackson in February to volunteer at the Dixie Nationals Quarter Horse Show. Members had the opportunity to work side-by-side with some of the top equine professionals in the United States. As for the month of March, it started off with members taking a break from the horse shows to assist with a pet

awareness event called **Pet Awareness & Wellness Services (PAWS)** held in Starkville. The event was sponsored by the extension offices, the Dawn Brancheau Foundation, and the Center for the Advancement of Service-Learning Excellence and included an educational booth for the local horse rescue that members worked. Members returned back to the horse show community for more volunteering right before they headed off for spring break by participating in the Bulldog Classic Quarter Horse Show at the Mississippi Horse Park. Using the knowledge they had gained from working the previous shows, members were able to effectively work the gate,

set up patterns, and give out awards. Once members returned back from spring break they began organizing once again to volunteer at another horse show, the PHBA/PtHA Azalea Classic Horse Show in Verona, Mississippi. This event was this past weekend in which students worked both Saturday and Sunday assisting with managing the show, ring stewarding, scribing, running the gate, announcing, and inputting placements. Applying all of what they learned from this year's events, the new officers are already making plans for next year with even more volunteer opportunities. Dr. Molly Nicodemus is the club's sponsor.



Horseman's Association 2015-2016 President , Courtney Fancher at the PAWS event



Horseman's Association 2016-2017 President Laura Schaeffer with Student Volunteers at the Azalea Classic

2016 Refereed Publications:

- 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.