



• Teaching • Research • Extension • Departmental Activities

Teaching

As an invited speaker at MSU's Pre-Veterinary Club, **Dr. Erdoğan Memili** promoted his favorite topic "Harnessing the power of research to advance animal science and technology" on Wednesday evening March 23, 2016.

Dr. Memili encouraged the Club members to search out undergraduate research opportunities among the research projects in the laboratories of MSU faculty as well as in national programs across the US, and to explore research internship opportunities.

He outlined the value of hands-on research for development in students' critical research skills, scientific and independent thinking, problem solving, and manual dexterity skills.

He also highlighted the special value of researchers already equipped with skills and a background in animal science to solve fundamental medical problems of both human and veterinary medicine.

Mr. Travis Noto, current president of the Pre-Vet Club, said that through this program of inviting distinguished speakers, the Club is committed to offering its pre-veterinary students the opportunity to learn about many exciting fields of veterinary medicine.



Dr. Erdogan Memili

Drs. Derris Burnett, S. Grace, and M. Seitz, faculty advisors to the Club, said that Dr. Memili's lecture helped students to understand the integral role of research in advancing the field of animal health as well as becoming a well-rounded veterinarian who is scientifically literate and thus better prepared to serve the profession.

Extension

BEEF 101

Beef from the Rail to the Plate



The BEEF 101 class begins with a discussion on live animal evaluation led by Dr. Brandi Karisch

Cobie Rutherford reports that Preliminary data from the evaluations show that all participants “**gained knowledge**” in at least 2 categories.

The program received many good comments! One that stood out, “**Great program. Well planned. All speakers were excellent. I really appreciate the respect all speakers have for each other & their working relationships.**”



Mississippi State University Extension Beef

new photos.

March 15 at 9:35am · 🌐

Can you guess this steer's Ribeye Area, Fat thickness, weight, yield grade, and quality grade?



Mississippi State University Extension Beef Hint 1: live weight was 1,813 lbs

Like · Reply · March 15 at 10:00am



Dudley R. Bozeman I know exactly! I attended "Beef 101" at MS State today. If you didn't go, you missed a great program 🙌👏 Thanks [Brandi Bourg Karisch](#), [Cobie Rutherford](#) and the Meat Science Dept. at MSU

Like · Reply · 👍 3 · March 15 at 8:03pm · Edited

Facebook Posts

Thank you to everyone who made this class a great success, **Dr. Brandi Karisch, Cobie Rutherford, Dr. Thu Dinh, Dr. Derris Burnett, Tim Armstrong, James Cannon** and **Anuraj Sukumaran**.

Extension

BEEF 101

Beef from the Rail to the Plate



Beef 101 Participants

In foreground, l-r: Anuraj Sukumaran, Dr. Derris Burnett and Dr. Thu Dinh

Extension

Over the past two weeks the ADS Extension team, consisting of **Dr. Brandi Karisch, Dr. Mark Crenshaw, Dr. Clay Cavinder, and Cobie Rutherford** have trained over 75 members of the law enforcement community and animal control officers at Biloxi, Hattiesburg, Verona, Raymond, Brookhaven, and Coffeeville.

The training on Farm Animal Welfare helped establish the MSU Animal and Dairy Science Department and the MSU Extension Service as the state experts on farm animal welfare. We hope that attendees will utilize our department as a resource to help Mississippi livestock producers avoid charges of animal neglect and reach out to us to provide best management practices to assist struggling producers.



Dr. Mark Crenshaw



Congratulations to **Dr. Brandi Karisch** who was selected as the 2016 Gamma Sigma Delta Extension Award of Merit honoree.

She will be recognized at the Annual Gamma Sigma Delta Extension Awards Reception on April, 6, 2016.

Extension

On March 17th, **Dr. Brandi Karisch** hosted 35 producers from Mississippi, Alabama, Tennessee, Louisiana, Florida, and New Jersey for (Artificial Insemination) A.I. School at the Mississippi State University Department of Animal & Dairy Sciences in the Wise Center.



Extension

4-H Events:

- April 8th - **4-H Dairy Judging Contest** at the MSU Bearden Dairy.
- 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 8, 2016 - 9am to 3 pm, Beef Cattle Boot Camp, Prairie, MS
- 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:

- April 2, 2016 - **Ranch Riding Clinic** in Richton, MS.
- 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

Jessica Graves and **Cobie Rutherford** attended the Magnolia Beef and Poultry Expo in Raleigh, MS on April 7th to recruit potential students and promote beef extension programs.



Jessica Graves

Save the Date! ADS Annual Awards Banquet

Thursday, April 14

6 o'clock pm

Bost Building B

More details to follow!

Tickets, although free,
will be required and
available beginning
March 21



2016 Refereed Publications:

- 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.