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ANIMAL & DAIRY SCIENCES NEWSLETTER

MISSISSIPPI STATE UNIVERSITY
ANIMAL AND DAIRY SCIENCES



IN THIS ISSUE

- Congrats Dr. Memili (2)
- Dixie National Volunteers (3)
- 3rd Annual Ag Olympics (4)
- Small Ruminant Production Workshop (5)
- Equine Clubs (6)
- Equestrian Team T-Shirts (7)
- Academic Insight Thank You (8)
- Grad Student Research Assistantship (9)
- Thad Cochran Internship (10)
- Hands on Horses (11)
- South West 4-H Versatility (12)
- College Cattlemen's Officers Take on Phoenix (13)
- Upcoming Events (14)



CONGRATULATIONS DR. MEMILI

Congratulations to Dr. Erdogan Memili on his proposal for "Delivering Values from Systems Science to Enhance Livestock Reproduction and Production" being funded by USDA NIFA. This \$15,281 grant will provide support for the biannual conference of Association for Applied Animal Andrology (AAAA).

The AAAA conference will be held in New Orleans, LA between July 14 and 16, 2018.



THANKS TO THE DIXIE NATIONAL VOLUNTEERS

Thank you to everyone that volunteered their time to make Dixie National 2018 a success. Your time and effort is greatly appreciated!!

3RD ANNUAL AG OLYMPICS

The 3rd annual Ag Olympics presented by Block and Bridle is happening March 23rd at 4pm in front of Ballew Hall! Ag Olympics is a fun-filled afternoon of games, food, and fellowship. Teams compete in games such as tug-of-war, a relay race, and egg and cowbell race (no cowbell required). The winning teams will receive a prize! After the games are completed, delicious food will be provided by the ADS department.

The teams must be compiled of four people, and one person must be in the ADS department. The cost is \$48 per team or \$12 per person. This fee includes a t-shirt and food! To register and pay (different payment options available) please contact via email Melissa Moore at mm2959@msstate.edu. Registration closes Friday, March 9th at 5pm.

SMALL RUMINANT PRODUCTION WORKSHOP

SATURDAY, MARCH 17, 2018 (7:30 AM—5:00 PM)

MISSISSIPPI STATE UNIVERSITY—BOST CONFERENCE CENTER

190 BOST Dr., STARKVILLE, MS 39759



Demand for goat and sheep meat, milk, cheese, and hide has steadily increased in the United States during the last 10 years. These small ruminants have a high economic value because they are efficient converters of low-quality forages into quality meat, milk and other specialty markets. Dig deeper into goat and sheep production by increasing your knowledge in grazing management, health, breeding and genetics, and marketing strategies. Speakers include local producers and researchers from across the southeast.

Topics Include:

- ⇒ **Beginning a Goat/Sheep Operation**
- ⇒ **Marketing Strategies**
- ⇒ **Animal Health**
- ⇒ **Nutrition**
- ⇒ **Reproduction**
- ⇒ **Integrated Grazing Management**
- ⇒ **Toxic Plants**
- ⇒ **Meat Quality**
- ⇒ **Farm Assistance Programs**

Register at <http://www.pss.msstate.edu/workshops/ruminant/>

Before March 9th - \$30/person

After March 9th - \$35/person

Includes: lunch, refreshments and workshop materials

* A pre-workshop forage tour will be offered on Friday, March 16th from 4:00 pm to 6:00 pm at the MSU South Farm. This is a free tour, but pre-tour registration is encouraged.



Workshop Partners

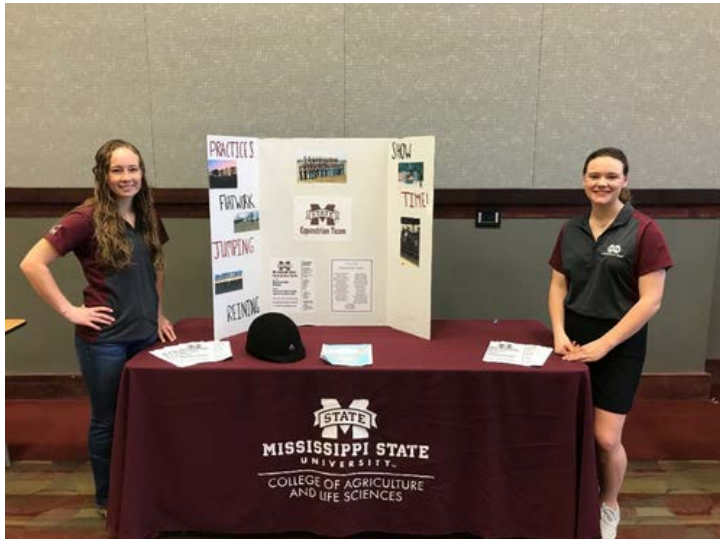


EXTENSION



MS AGRICULTURAL AND FORESTRY EXPERIMENT STATION





MSU Equestrian Team booth at Academic Insight



MSU Horseman's Association booth (left) and MSU Horse Judging Team booth (right) at Academic Insight

Equine Clubs Get an Opportunity to Recruit at Academic Insight

This last Saturday, February 17th, equine clubs got an opportunity to participate in Academic Insight and do some early recruiting. During Academic Insight, potential students and their parents got a chance to visit different booths of various organizations including club and departmental booths. This year the Animal & Dairy Sciences department had a strong showing of their various equine organizations that students can participate in. Equine booths included the Equestrian Team, Horseman's Association, and Horse Judging Team. In addition, during the Horse Unit tour sponsored by the Animal & Dairy Sciences department, potential students got to visit with Huntseat Team Coach Holly Evans, Horse Judging Team Assistant Coach Courtney Philips, and Advisor of the Eventing Team and Horseman's Association Dr. Molly Nicodemus. Through the tour of the club booths and the Horse Unit, potential students with an equine interest could interact with those involved in these activities learning more about what these organizations do and how to get involved.



Mississippi State University Equestrian Team added 2 new photos.

February 8 at 12:27pm · 🌐

The MS State Equestrian Team has t-shirts for sale for \$20. If you are interested in purchasing one, please contact Savanna at srb639@msstate.edu, or Kaitlyn at kml451@msstate.edu.



Faculty, Staff and Grad Students,

“Thank you” simply isn’t enough to express my deepest appreciation to those of you who contributed to the success of Academic Insight this weekend. Despite the rain, mud and last minute needs and changes to the schedule, you all did a fantastic job ensuring that our guests had a positive experience – spending their Saturday morning with us. When the students and guests arrived at Ballew for lunch, they were smiling and verbally indicated their satisfaction with the experiences had at each unit. We will know in the coming months exactly how the fruits of your labor have paid off when these students officially join the Bulldog Family in the ADS program.

You all made the day run like a well-oiled machine and certainly deserve all the credit for making the day a success.

Many thanks,

Jessica Graves



MISSISSIPPI STATE
UNIVERSITY.

**DEPARTMENT OF
ANIMAL AND DAIRY SCIENCES**

P.O. Box 9815
Mississippi State, MS 39762
P. 662.325.2802
F. 662.325.8873

Graduate Student Research Assistantship Positions

The Department of Animal and Dairy Sciences at Mississippi State University (Starkville, MS) is seeking self-motivated candidates with B.S. degrees in Animal Science or Dairy Science or related fields to fill a M.S. or Ph.D. graduate student position. Current undergraduate or M.S. students are encouraged to apply; however, degrees must be received before admission to Mississippi State University.

Desirable candidates should have excellent academic records (minimum GPA of 3.0 out of 4.0) plus solid training in working with farm animals and/or conducting laboratory procedures. Students interested in the following research topics are especially encouraged to apply:

- Dairy Systems Management – Opportunities exist within the following areas: heat stress abatement techniques for pasture dairies, mastitis management and prevention, the use of precision dairy monitoring technologies on pasture dairies, or disease detection and animal behavior using precision dairy monitoring technologies. Contact Dr. Amanda Stone directly with inquiries (Amanda.Stone@msstate.edu).
- Reproductive Physiology – Opportunities exist that involve examining whole-animal and molecular aspects of developmental programming in cattle and pigs (40% applied and 60% basic sciences). In vivo work includes Doppler ultrasonography of uterine and fetal blood perfusion, while in vitro work focuses on endogenous regulators of placental functional capacity. Contact Dr. Caleb Lemley directly with inquiries (CLemley@ads.msstate.edu).
- Molecular Swine Nutrition – Opportunities exist within the following areas: nutrient (e.g., amino acids) regulation of muscle growth and development, improving feed efficiency and/or carcass quality, and reducing feed cost for swine production. Contact Dr. Shengfa Liao directly with inquiries (s.liao@msstate.edu).
- Applied Reproductive Management – Opportunities exist that involve applied reproductive management in beef and/or dairy cattle, particularly evaluating functionality and blood perfusion of the corpus luteum and the involvement with early embryonic mortality or the process of luteolysis. Contact Dr. Jamie Larson directly with inquiries (JLarson@ads.msstate.edu).

These Graduate Student Research Assistantships are supported by the Department of Animal and Dairy Sciences and will include a \$14,000 annual stipend and full tuition remission (including out-of-state tuition waiver) for 2 years (M.S. students) or 3 years (Ph.D. students).

Information regarding the department and departmental faculty can be found at: www.ads.msstate.edu and potential applicants are encouraged to contact a potential faculty advisor before submitting their application. Questions about the department or program can be directed to the Graduate Coordinator, Dr. Jamie Larson (JLarson@ads.msstate.edu). Applicants should submit the application and all required components (statement of purpose, official transcripts, GRE scores, and contact information for three references) found at: <https://www.grad.msstate.edu/admissions/>. Applications will be accepted for Fall 2018 admission and must be submitted in their entirety by March 15th, 2018.

THAD COCHRAN

AGRICULTURAL INTERNSHIP

WASHINGTON D.C.

Qualifications:

- Student must be enrolled in the College of Agriculture and Life Sciences
- Must have a minimum of 30 semester hours, with the last 15 completed at MSU
- Can be an undergraduate or graduate student.
- Must be in good academic standing
- Must demonstrate good interpersonal/public relations skills
- Must have a record of campus involvement
- Must have a background and interest in Agricultural and Natural Resources Policy



Student Applications:

CALS Departmental Offices
or College office (204 Bost)

Contact:

Amanda Bell
abell@cals.msstate.edu
662.325.8112

Application Deadline:

4.20.2018



MISSISSIPPI STATE UNIVERSITY™
COLLEGE OF AGRICULTURE
AND LIFE SCIENCES

CALS.MSSTATE.EDU



THAD COCHRAN AGRICULTURAL INTERNSHIP

Students be sure to apply for this great internship opportunity.

HANDS ON HORSES

What's that doohickey do?



What makes a bit gentle or harsh? Is a tom thumb snaffle really a snaffle bit? What is the purpose of draw reins?

Whether you are figuring out the best bit for your horse or trying to resolve a training problem, learn the ins and outs of training tools for your horse!

Join us Saturday March 24th, 2018 at the MAFES Horse Unit for a hands-on day of practical horse management topics covering nutrition, health, training tools, and more!

Cost: \$45

lunch and manual provided!

To Register Contact:

Dr. Clay Cavinder

clay.cavinder@msstate.edu or 662-325-7466

By March 16th



**MISSISSIPPI STATE
UNIVERSITY.**

EXTENSION

*Southwest District
4-H Versatility*






Ranch Horse & Speed Event Series
Events Include:

**Ranch Trail, Ranch Riding, Reining & Boxing
Barrels, Poles & Stakes**

Gallman, MS: March 17, April 21 & May 12

8:30 -10:00 free clinics with MSU Clinicians
"How to Compete to Win in All Events"

10:30 Ranch Classes
2:00 Speed Classes
\$5.00 Entry per class
must have current coggins

free fun classes for the little ones: 7 & under
Jr & Sr High Point & Speed Division Series Buckles

contact Katrina Owens 662-746-2453/ Lurlinda Soignier 601-857-3242




We are an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Mississippi State University Extension will provide reasonable accommodations to persons with disabilities or special needs. Please contact the Yazoo County office of MSU Extension at 662-746-2453 prior to a program or event to request reasonable accommodation.

SOUTHWEST DISTRICT 4-H VERSATILITY

Be sure to sign up for the Ranch Horse & Speed Event Series!



COLLEGE CATTLEMEN'S OFFICERS TAKE ON PHOENIX

At the end of January and start of February, myself and fellow officers of the MSU Collegiate Cattlemen's Association attended the 2018 National Cattlemen's Beef Association Convention and Tradeshow in the sunny city of Phoenix, AZ! The opportunity to go to the NCBA Convention is one that every officer looks forward to each year. While in Phoenix we were able to see several cactus and enjoy the beautiful scenery and weather. The convention consists of educational seminars on topics regarding the cattle industry and overall agriculture industry. We were able to sit in on our regional meeting and hear of the topics and issues that our region and nation is dealing with. It was the perfect time to meet our fellow cattlemen and cattle women from our southern states. We also were able to meet and discuss topics with 25 students from Auburn University's Collegiate Cattlemen's Association. A big part of the convention is networking with professionals from the industry and learning from their knowledge. The most entertaining part of convention was the tradeshow and the nights out on the town. Thursday evening we attended a rodeo where our treasurer Sarah Byrd was chosen to participate in an event. The tradeshow consisted of 7 acres of booths and displays from tractors to balers and even a working arena where they displayed cattle and horse handling demonstrations. We were also able to sit in on an update from Washington D.C. and the International Trade committee meeting. Two of our officers, Alex Farrar and Renee Anderson, were nominated to attend the Young Beef Leaders luncheon as representatives from Mississippi. We wrapped up our trip with the Best of Beef breakfast on Friday morning, and that evening we attended the Cowboy Comedy Club where we heard Bill Engvall and the men from Whose Line Is It Anyway. To be an officer of our club is an experience in itself, but being able to attend the NCBA Convention is just the icing on the top. It is an experience and a wealth of knowledge that you cannot just learn about in a classroom. We are so appreciative for all the support from our club advisor and teachers, and we encourage everyone to plan to go to the convention next year which will be held in New Orleans, LA.

By: Sara Terrell

Upcoming Events

BEEF EXTENSION - DR. BRANDI KARISCH & COBIE RUTHERFORD

- February 28- MBCIA Annual Membership Meeting
- March 1- Hinds/MBCIA Spring Bull Sale, Raymond
- March 15-17- MSU Spring Artificial Insemination School



EQUINE EVENTS - DR. CLAY CAVINDER

- March 24 Hands on Horses
- March 27 - May 1 Horse Management 101
- June 1-3 MSU Horse Judging Camp



4-H EVENTS - DR. DEAN JOUSAN

- February 1-8 – Dixie Nationals, Jackson 4-H
- February 9-10 – Dixie National Judging Contest 4-H



DAIRY EVENTS - DR. AMANDA STONE

- Upcoming programs and publications are online at <http://extension.msstate.edu/dairy>
- For more info, contact Dr. Stone at amanda.stone@msstate.edu



2018 Refereed Publications

Owen, M.P.T., K.J. McCarty, C.G. Hart, C.S. Steadman, C.O. Lemley. Endometrial blood perfusion as assessed using a novel laser Doppler technique in Angus cows. *Animal Reproduction Science*. 190 (2018) 119-126. <https://doi.org/10.1016/j.anireprosci.2018.01.015>.

Feugang, Jean M. , Shengfa F. Liao, Scott T. Willard, and Peter L. Ryan. In-depth proteomic analysis of boar spermatozoa through shotgun and gel-based methods. *BMC Genomics*. (2018) 19:62 DOI 10.1186/s12864-018-4442-2.

Liao, Shengfa F., Naresh Regmi, Guoyao Wu. Homeostatic Regulation of Plasma Amino Acid Concentrations. *Frontiers in Bioscience, Landmark*. 23, 640-655, January 1, 2018.

2018 Book Chapters: