

MARCH 1, 2018 | VOLUME 79

ANIMAL & DAIRY SCIENCES NEWSLETTER

MISSISSIPPI STATE UNIVERSITY
ANIMAL AND DAIRY SCIENCES

IN THIS ISSUE

- Academic Insight (2A&B)
- Ag Careers (3)
- MANRRS Semi Annual Rib Sale Fundraiser (4&5)
- Small Ruminant Work Shop (6)
- ADS Students Present Research Findings at the MAS Annual Meeting (7)
- Thad Cochran (8)
- Equine Graduate Students Apply Their Equine Education (9)
- Upcoming Events (10)



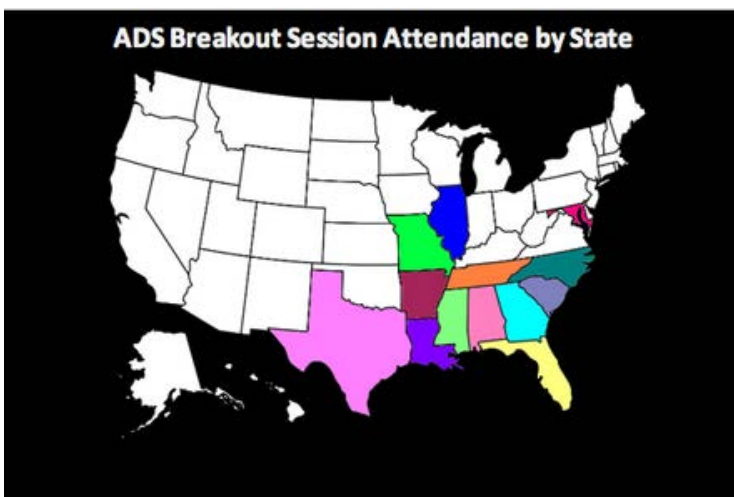
Academic Insight attendees getting to learn about calf management.

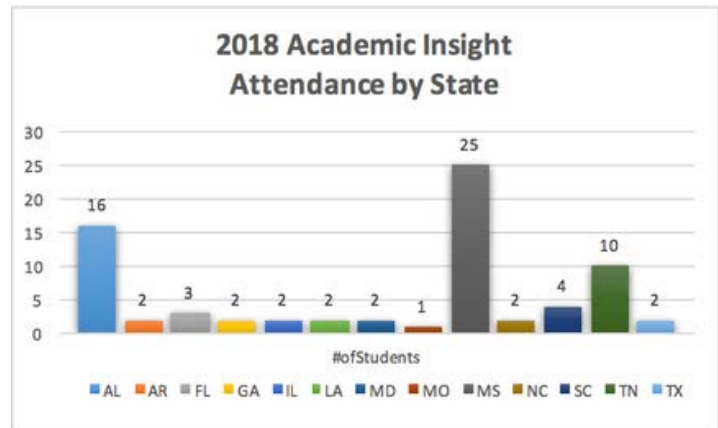
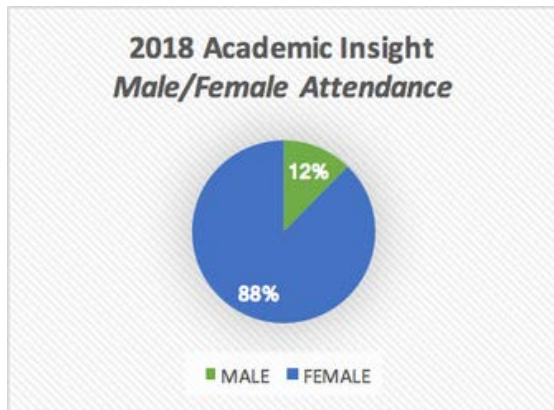
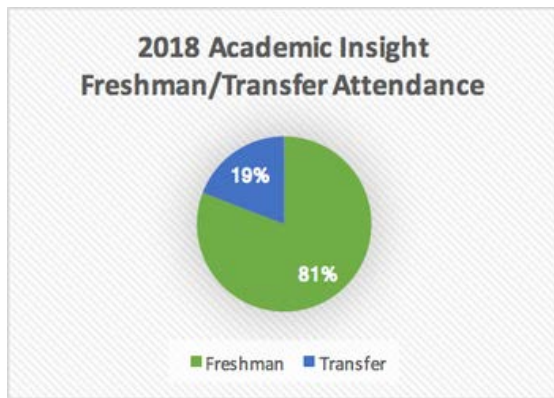


Dr. Caleb Lemley performing a sheep pregnancy ultrasound demonstration for Academic Insight attendees.



Students trying their hand at rumen content collection.





2018 Academic Insight: By Jessica Graves

On Saturday, February 17th, faculty, staff, graduate and undergraduate students of the Department of Animal and Dairy Sciences joined forces to host the 2018 Academic Insight ADS breakout session. This event began in 2013 as a way provide additional “insight” for undergraduate students admitted into Mississippi State University in an effort to increase the number of students who commit to MSU and matriculate into their preferred programs of study.

During the Animal and Dairy Sciences breakout session, students and guests travel on four 56 passenger buses to visit the dairy, beef and horse units where they participated in a variety of hands-on activities and learned more about current research through demonstrations. A faculty member and an ADS CALS Ambassador student served as tour guides, providing the passengers with information about each farm unit and other relevant bits of information about the ADS program.

This year’s Animal and Dairy Sciences breakout session attendees (73 student and 146 guests) came from 13 different states. Mississippi, Alabama and Tennessee were well-represented with 25, 16 and 10 students in attendance, respectively. Furthermore, the majority of these students were freshman females. There were 14 transfer students, most of which were from Mississippi.

After the farm tour, lunch was served at Ballew Hall where students and parents could engage with faculty to ask questions additional questions about the ADS program and other related topics such as scholarships, transfer courses, etc.

A special thanks to everyone who contributed to the success of the 2018 Academic Insight event.



Mississippi State University Animal & Dairy Sciences

February 14 at 10:37am · 🌐

Students, are you ready for employment? How are your soft skills? Checkout this [AgCareers.com](https://www.agcareers.com/.../Soft_Skills_vs_Hard_Skills_What...) article to see what ag employers have to say about "hard skills" vs. "soft skills".

https://www.agcareers.com/.../Soft_Skills_vs_Hard_Skills_What...



AgCareers.com - Agriculture Jobs & Agriculture Careers

Welcome to AgCareers.com - Find Agriculture Jobs and Agriculture Career opportunities, Including jobs in Food, Natural Resources and Biotechnology.

AGCAREERS.COM



Like



Comment



Share



Ready for Employment??

Check out this link to see what Ag employers are saying about your future employment.

https://www.agcareers.com/newsletters/Soft_Skills_vs_Hard_Skills_What_Takes_Precedence.htm?utm_source=bm23&utm_medium=email&utm_term=Image++Read+More&utm_content=https://www.agcareers.com/newsletters/Soft_Skills_vs_Hard_Skills_What_Takes_Precedence.htm&utm_campaign=02/14/2018



MANRRS Semi Annual Rib Sale Fundraiser

Do you enjoy a good slab of ribs but don't have the time, energy, or know how to get them just right? Well let MANRRS do the work for you!

Its as easy as 1,2,3....

1. Download a QR reader app on your phone and scan the code.
2. Fill out the order form and buy your ribs before March 22nd
3. Pay \$20 for a full slab or \$10 for a half slab via pay-pal.
4. Pick up your fully cooked, delicious, slab of ribs on March 29th

Questions or concerns?
Contact: msstatemanrrs@gmail.com



Link: <https://goo.gl/forms/7yxnDaw7W7tsNAQa2>



MANRRS Semi Annual Rib Sale Fundraiser

The Mississippi State chapter of MANRRS will be hosting a Rib Sale! We will be selling half slabs of ribs for \$10 each and whole slabs of ribs for \$20 each. All payments will be processed through PayPal. The sale will begin on February 22, 2018 and end on March 22, 2018. Orders will be available for pickup on Thursday, March 29, 2018.

Please feel free to contact us if you have any questions at msstatemanrrs@gmail.com

Link: <https://goo.gl/forms/7yxnDaw7W7tsNAQa2>



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

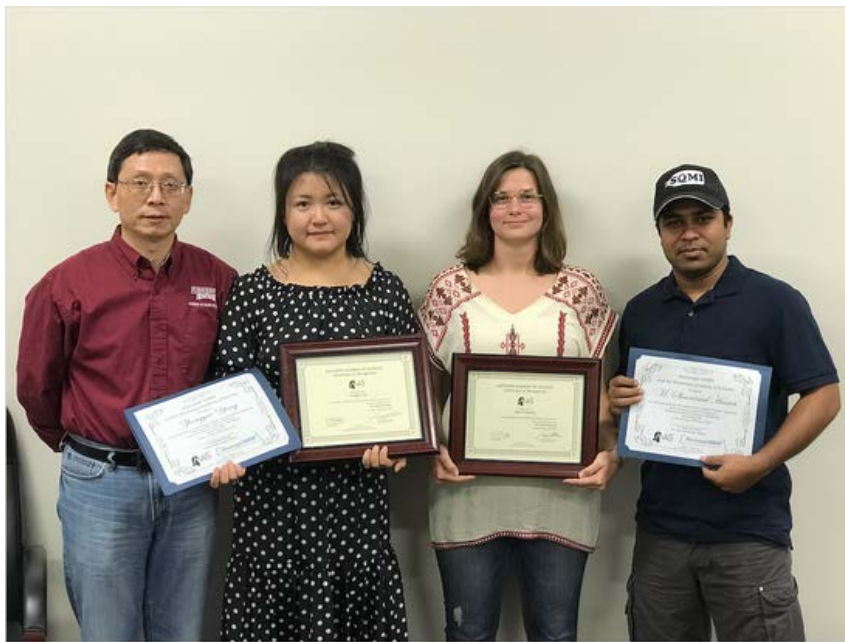
After March 9th - \$35/person

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





ADS Students Present Research Findings at the MAS Annual Meeting

Three students (Mr. Md Shamimul Hasan, Ms. Zhongyue Yang, and Ms. Rebecca Humphrey) studying Swine Nutrition in the Department of Animal & Dairy Sciences presented their research findings at the 82nd Annual Mississippi Academy of Sciences (MAS) Meeting held in Hattiesburg, MS on February 22-23, 2018.

PhD Degree Candidate, M. S. Hasan, as the 1st author, presented one abstract titled “Effects of L- vs DL-methionine on plasma concentrations of nutrient metabolites in young growing pigs” (J. Miss. Acad. Sci. 63:41). At the same time, this abstract was chosen as one of the top abstracts presented at the Mississippi INBRE (IDeA Network of Biomedical Research Excellence) Graduate Scholars Symposium.

Master Degree Candidate Z. (Julia) Yang, as the 1st author, presented one abstract titled “Dietary methionine deficiency may negatively affect pig antioxidant capacity and health in addition to growth performance” (J. Miss. Acad. Sci. 63:37). At the same time, this abstract was chosen as one of the top abstracts presented at the Mississippi INBRE (IDeA Network of Biomedical Research Excellence) Graduate Scholars Symposium. Yang was awarded 3rd place for the graduate student oral presentation in the Division of Agriculture & Plant Science.

Bachelor Degree Candidate R. Humphrey, as the 1st author, presented one abstract titled “The compensatorily-gained pigs produced from feeding a methionine-deficient diet had more fat and less lean body mass” (J. Miss. Acad. Sci. 63:41). Humphrey was awarded 1st place for the undergraduate student poster presentation in the Division of Agriculture & Plant Science.

The co-authors of the three presented and published abstracts include Drs. M. A. Crenshaw, D. D. Burnett, and S. F. Liao in the Department of Animal & Dairy Sciences, and Dr. J. K. Htoo in Evonik Nutrition & Care GmbH (Hanau, Germany).

More information about MAS can be found at <http://msacad.org/>.

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.



Equine Graduate Students (Left to Right): Caitlyn Chase, Holly Evans, Courtney Philips, and Lauren Hodge

Equine Graduate Students Apply Their Equine Education to Head Up the Academic Insight Tours at the Horse Unit

The Academic Insight held last Saturday, February 17th, is an opportunity for potential students to learn more about the Animal & Dairy Sciences program including touring our production facilities. This year the graduate students focused in equine studies and research were asked to head up the facilities tour at the Horse Unit. This gave the graduate students a chance to demonstrate what they have learned in their graduate work, promote the various clubs and activities they are involved with, and interact with potential students to give these students a real-life understanding as to what it is like to be an ADS student. The graduate students that presented during the tour included Caitlyn Chase, Holly Evans, Lauren Hodge, and Courtney Philips. Both Caitlyn and Holly are in the ADS master's program, while both Lauren and Courtney are working on their PhD in equine nutrition. During the tour, the graduate students discussed their research projects and highlighted classes and clubs they assisted with along with giving the participants a chance to handle a horse.

Upcoming Events

BEEF EXTENSION - DR. BRANDI KARISCH & COBIE RUTHERFORD

- 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



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: