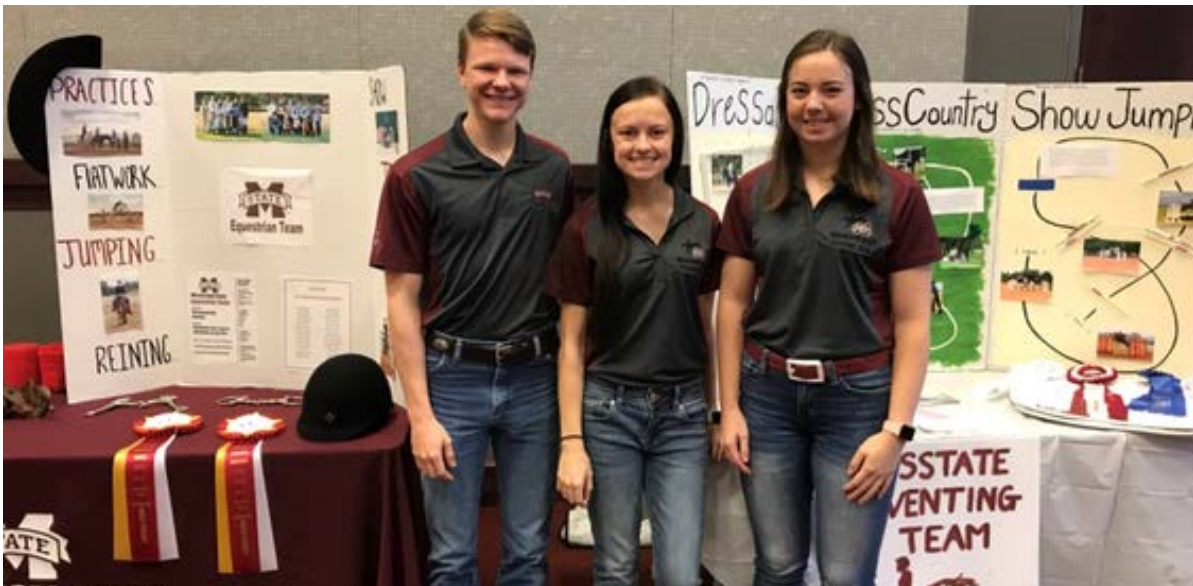


# ANIMAL & DAIRY SCIENCES

Mississippi State University



## OUR MISSION:

Our faculty are committed to serving the citizens of this state through teaching, research and extension programs. Research and extension centers are located strategically throughout the state. Animal research facilities at the Leveck Animal Research Center, Bearden Dairy Cattle Research Center, Prairie Research Unit, Brown Loam Research Station, and the White Sands Unit give faculty opportunities to investigate the challenges facing the livestock industry.

Our Mission is to provide science-based solutions for animal agriculture through innovative and effective education, research and extension programming. Our Vision is Building the Future of Agriculture.

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## ADS EQUINE STUDENTS VOLUNTEER AT DIXIE NATIONALS



Above: ADS Equine Students assisting with sponsor seating at the Freestyle Reining during Dixie Nationals.

Below: ADS Equine Students collecting tickets at the Freestyle Reining during Dixie Nationals.

This past week, February 12th through 17th, consisted of the Dixie Nationals Quarter Horse Show at the Mississippi Fairgrounds and Coliseum in Jackson, Mississippi. The show is put on by the Mississippi Quarter Horse Association (MQHA). For over a decade MQHA has worked with the equine program in the Animal & Dairy Sciences department to allow equine students the opportunity to work at the show learning firsthand from equine professionals at the South's largest Quarter Horse show. This year students from the Horseman's Association along with students from various equine classes including ADS 3223 Horse Management, ADS 3221 Practices in Horse Care & Management, and ADS 2223 Companion Animal were able to sign up to volunteer to assist with the show. MQHA provided hotel rooms and meals for the student volunteers during the week of showing. Individuals wanting to learn more about the department's student volunteer program for the Dixie Nationals Quarter Horse Show can contact Horseman's Association Advisor Dr. Molly Nicodemus at [mnicodemus@ads.msstate.edu](mailto:mnicodemus@ads.msstate.edu).



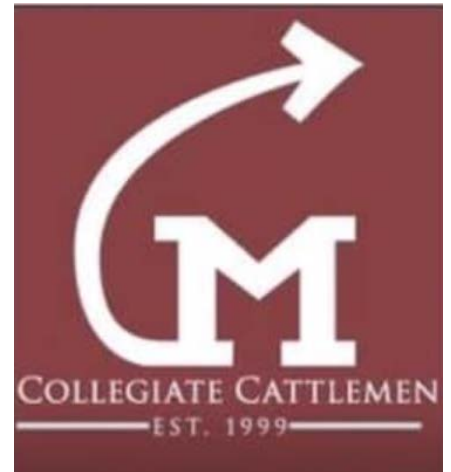


# SENATOR CINDY HYDE SMITH VISITS COLLEGIATE CATTLEMEN'S



Mississippi State University Collegiate Cattlemen's Association would like to say a big thank you to Senator Cindy Hyde-Smith for coming to speak with the club on February 19th.

We truly appreciate everything she does for our state and the agriculture industry!!

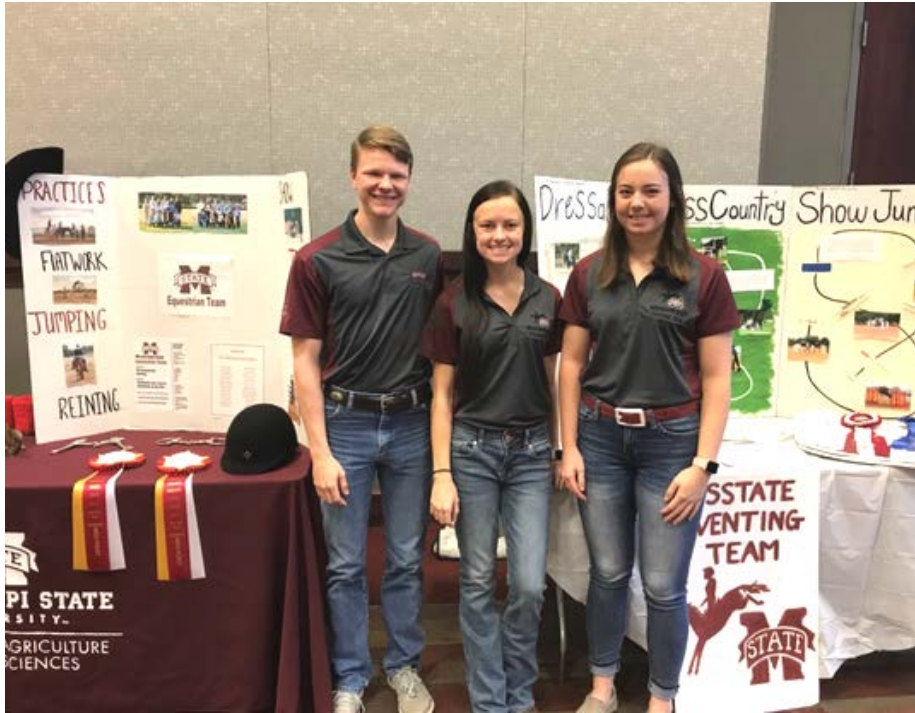


Above: ADS Equine Students assisting with sponsor seating at the Freestyle Reining during Dixie Nationals.

Below: ADS Equine Students collecting tickets at the Freestyle Reining during Dixie Nationals.



## EQUINE CLUBS SHOWCASED AT ACADEMIC INSIGHT



Above: MSU Equestrian and Eventing Teams booths (left to right) at Academic Insight

Below: ADS Equine Clubs recruiting new members at Academic Insight

During Academic Insight this past Saturday, February 16th, equine clubs got an opportunity to showcase all of their activities and do some early recruiting. During the event, potential students and their parents got a chance to check out various booths set up by different University clubs and departmental booths. The Animal & Dairy Sciences department had a strong representation at the event of equine clubs associated with the department. Equine booths available at Academic Insight included the Equestrian Team, Horseman's Association, and Eventing Team. In addition, during the MAFES South Farm 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 Heaton, and Advisor of the Eventing Team and Horseman's Association Dr. Molly Nicodemus. Through the tour of the club booths and the South Farm, 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.





# PURSUIT OF KNOWLEDGE AND SERVING FOR SCIENCE



Dr. Erdogan Memili attended the annual conference of the American Association for the Advancement of Science (AAAS) and served as poster judge in the section of Developmental Biology, Physiology, and Immunology. With the theme of "Science Transcending Boundaries", this year's conference was held in Washington DC between February 14 and 17, 2019. Program information of this year's conference is available through the society's web page:

<https://aaas.confex.com/aaas/2019/meetingapp.cgi/ModuleSessionsByDay/0>.

Dr. Erdogan Memili has been selected as a member of Editorial Board of Applied Animal Science (AAS) as an expert in Physiology. Formerly known as Professional Animal Scientist, Applied Animal Science (<https://www.appliedanimalscience.org/>) is the official peer-reviewed scientific publication of the American Registry of Professional Animal Scientists (ARPAS).

Above: Dr. Erdogan Memili



## EQUINE GRADUATE STUDENTS ASSIST WITH THE HORSE DEMONSTRATION DURING ACADEMIC INSIGHT



Above: Equine Graduate Students presenting at Academic Insight (Left to Right): Holly Evans, Alicia Gilmore, and Courtney Philips.

Below: Equine Graduate Students presenting at Academic Insight (Left to Right): Holly Evans, Alicia Gilmore, and Courtney Philips.

This past Saturday, February 16th, the MAFES Beef Unit was filled with potential Animal & Dairy Sciences students participating in Academic Insight. These students got an opportunity to tour the South Farm learning more about the Animal & Dairy Sciences program. During the facilities tour, equine graduate students headed up the demonstration and discussion of the department's equine activities. These graduate students during the demonstration covered wrapping, grooming, equipment, and equine anatomy. The graduate students responsible for the equine demonstration included Holly Evans, Alicia Gilmore, and Courtney Heaton. Both Alicia and Holly are in the ADS master's program researching equine reproductive physiology, while Courtney is completing her PhD this fall in equine nutrition. During the tour, the graduate students also discussed their research projects and highlighted classes and clubs they are involved with.





# IHSA SHOW



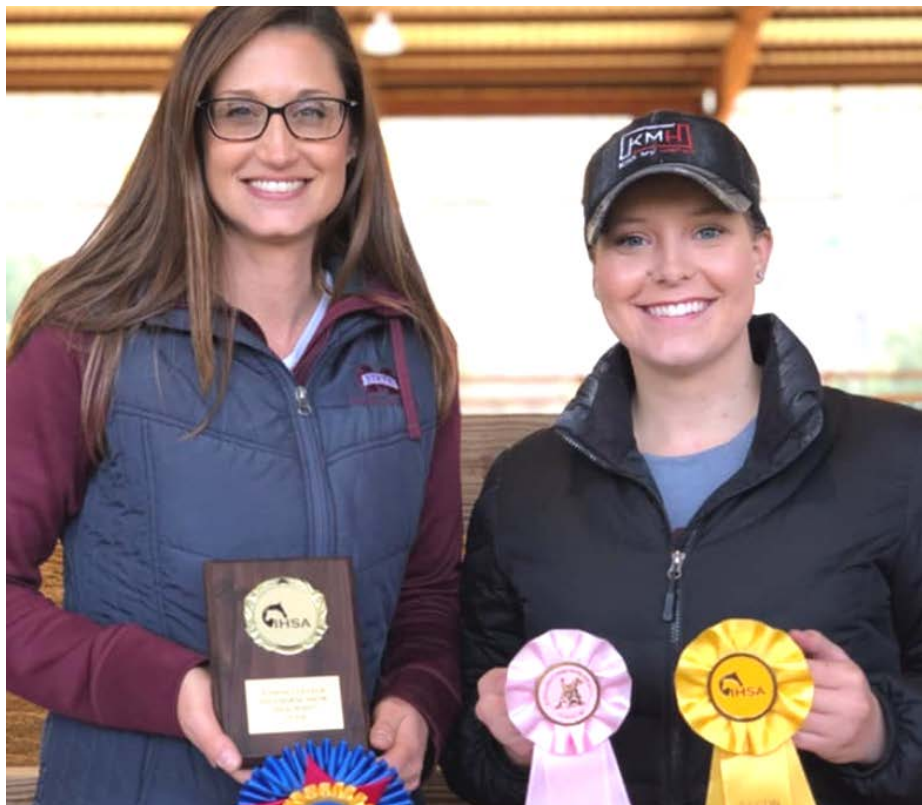
Above: Juliann Scott

The Hunt Seat Equitation team had the pleasure of competing at the University of Alabama IHSA Show this weekend in Tuscaloosa, Alabama. Congratulations to all!

- Jessica Goodwin - 6th, Intermediate Flat
- Betsey Munday - 6th, Novice Fences
- Aryn Rollberg - Reserve, Novice Flat
- Alyson Addy - 2nd, Novice Fences, Reserve, Novice Flat
- Emili McClure - Reserve, Novice Flat
- Cecilia Collins - Reserve, Advanced Walk Trot Canter
- Jessica Baker - 4th, Advanced Walk Trot Canter
- Juliann Scott - Reserve, Advanced Walk Trot Canter
- Mary Allison Page - 6th, Beginner Walk Trot Canter
- Jada Swanier - 4th, Walk Trot
- Brantley McGee - 4th, Walk Trot



# WESTERN REGULAR SEASON COMPETITION



Great way to end the Western regular season by winning two High Point Team awards! MS State Equestrian now has five western riders headed to post-season competition! The first stop is Regionals.

Congratulations to:

Hart Daniels in Open horsemanship and Reining  
Savannah Yonge in Intermediate II horsemanship  
Ashley Ackerman in Intermediate II horsemanship  
Taylor Perry in Intermediate II horsemanship  
Savanna Blackburn in Beginner horsemanship

Above: Juliann Scott





## ADS 3221 STUDENTS TOUR CVM EQUINE CLINICS



Above: ADS 3221 Students evaluating equine cases during their CVM Equine Clinics Tour.

Students enrolled in ADS 3221 Practices in Horse Care & Management spent this past week's laboratory touring the College of Veterinary Medicine Equine Clinics. The tour was conducted by Dr. Alison Eddy, CVM Equine Surgeon. During the tour, ADS 3221 Students were given the chance to see firsthand the behind the scenes activities of the clinic. The tour included discussion of current cases in the clinic and diagnostic tools utilized for assisting with these cases. Students were asked to research prior to the tour various aspects of healthcare of the horse in preparation for evaluation of a variety of cases during the tour. Dr. Eddy concluded the tour with a discussion concerning the undergraduate volunteer program at the clinics where ADS 3221 Students will get the opportunity to sign up for this program as a part of their class Community Engaged Learning activities. The course is taught by ADS Faculty Dr. Molly Nicodemus and ADS Graduate Student Alicia Gilmore. Individuals interested in learning more about the course can contact Dr. Nicodemus at [mnicodemus@ads.msstate.edu](mailto:mnicodemus@ads.msstate.edu).

# EQUESTRIAN TEAM FUNDRAISER



**CANDLE**  
*sale*  
**SUPPORTING**  
**MISSISSIPPI STATE EQUESTRIAN TEAM**

40% of each candle sold goes to supporting the MSU Equestrian Team  
Thank you!

Please help support the MS State Equestrian Team by purchasing a Gold Canyon candle! There are lots of great scents to choose from.

<https://fundraising.goldcanyon.com/fundraiser-candles?fundraiser=703&seller=1713>



# UPCOMING EXTENSION EVENTS

Beef Extension - Dr. Brandi Karisch

March 7: Hinds Bull Test & Spring BCIA Bull Sale, Raymond

March 11: Local/Grassfed Beef Workshop, MSU Meat Science Laboratory, Mississippi State, MS

March 14 - 16: MSU Artificial Insemination School, Animal and Dairy Sciences Department, MSU

Phone: (662) 325-7465 or brandi.karisch@msstate.edu

Beef Calendar: <http://extension.msstate.edu/livestock/beef/beef-calendar>

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Dairy Extension - Dr. Amanda Stone

March 23: Dairy Day at The Park, Mississippi State University, Starkville

Phone: (662) 325-8773 or Email: amanda.stone@msstate.edu Website: Phone:

(662) 325-8773 or Email: amanda.stone@msstate.edu Website:

<http://extension.msstate.edu/dairy>

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4-H Events - Dr. Dean Jousan

April 5: State 4-H Dairy Judging Contest, MSU Bearden Dairy, Starkville

Phone: (662) 325-2424

Email: [dj230@msstate.edu](mailto:dj230@msstate.edu) [www.http://extension.msstate.edu/4-h](http://extension.msstate.edu/4-h)

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Equine Events - Dr. Clay Cavinder

April 6: HANDS ON HORSES, MAFES Horse Unit, Starkville, MS

Contact Dr. Cavinder for information about programs and events at (662) 325-7566 or email [clay.cavinder@msstate.edu](mailto:clay.cavinder@msstate.edu)

Website: <http://extension.msstate.edu/agriculture/livestock/equine/upcomingprograms>

## 2019 Refereed Publications

- Casey L. Durfey, Sabrina E. Swistek, **Shengfa F. Liao**, **Mark A. Crenshaw**, Henry J. Clemente, Rooban V. K. G. Thirumalai, Christy S. Steadman, **Peter L. Ryan**, **Scott T. Willard** and **Jean M. Feugang**. Nanotechnology-based approach for safer enrichment of semen with best spermatozoa. *Journal of Animal Science and Biotechnology*. (2019) 10:14. <https://doi.org/10.1186/s40104-018-0307-4>.
- Mayo, L. M., W. J. Silvia, D. L. Ray, B. W. Jones, **A. E. Stone**, I. C. Tsai, J. D. Clark, J. M. Bewley, and G. Heersche Jr. Automated estrous detection using multiple commercial precision dairy monitoring technologies in synchronized dairy cows. *Journal of Dairy Sciences*. 2019. J. Dairy Sci. 102:1–12. <https://doi.org/10.3168/jds.2018-14738>
- Yang, Zhongyue, Md. Shamimul Hasan, John K. Htoo, **Derris D. Burnett**, **Jean M. Feugang**, **Mark A. Crenshaw**, and **Shengfa F. Liao**. Effects of dietary supplementation of L-methionine vs. DL-methionine on performance, plasma concentrations of free amino acids and other metabolites, and myogenesis gene expression in young growing pigs. *Translational Animal Science*. Transl. Anim. Sci. 2019.3:113–123. doi: 10.1093/tas/txy109.
- Gastal, G.D.A., **J.M. Feugang**, F.L.N. Aguiar, G.M. Ishak, **C.A. Cavinder**, **S.T. Willard**, **P.L. Ryan**, E.L. Gastal. Effect of cryopreservation techniques on proliferation and apoptosis of cultured equine ovarian tissue. *Theriogenology*. <https://doi.org/10.1016/j.theriogenology.2018.11.034>.