



# MISSISSIPPI STATE UNIVERSITY™

## DEPARTMENT OF ANIMAL AND DAIRY SCIENCES



### 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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## MSU Equestrian Team Member Heads to IHSA Nationals

Mississippi State University and the Animal & Dairy Sciences Department will be represented this May by graduate student Holly Evans at the Intercollegiate Horse Show Association (IHSA) National Competition in Syracuse, New York. Holly Evans is an ADS graduate student advised by Dr. Molly Nicodemus and Dr. Erdogan Memili and the assistant MAFES Horse Unit manager. When not studying or helping with equine laboratory courses, Holly assists the MSU Equestrian Team Coach Ashley Glenn with coaching the hunt seat team. This is the second year that Holly has coached the hunt seat team, and while coaching, she also competes in the IHSA alumni division in both flat classes and over fences classes. After successfully winning reserve grand champion in the alumni over fences class at IHSA Zones Finals, she qualified for the 2019 IHSA Nationals. Along with practicing getting ready for the upcoming national competition, Holly is also finalizing her thesis research in preparation for graduating this summer.



MISSISSIPPI STATE UNIVERSITY  
EXTENSION DAIRY

# 2019 DAIRY COW CAMP

Learn Judging and Showmanship

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**July 22 - 23, 2019**

**Mississippi Horse Park**

**Starkville, MS**

Contact: Dr. Amanda Stone  
Box 9815, Mississippi State, MS 39762  
(662) 325-8773



## Equestrian Team Assists with Teaching ADS 3221 Laboratory

As the semester comes to a close, the ADS 3221 Practices in Horse Care & Management laboratory completed their semester laboratory activities by heading to the MAFES Horse Unit to learn about equine performance and gaits. To assist with the demonstration on performance and gaits, MSU Equestrian Team members and the hunt seat team coach Holly Evans were recruited for the laboratory. Mrs. Evans along with team members Juliann Scott, Kaitlyn Laurent, and Betsey Munday discussed and demonstrated the differences of western and english riding along with covering differences in equipment between the two disciplines. Using horses from the Horse Unit, team members rode during the demonstration allowing ADS 3221 students to observe the various gaits of the performance horse. Mrs. Evans also educated ADS 3221 students about the team and upcoming tryouts. ADS 3221 laboratory is taught by graduate teaching assistant Alicia Gilmore and ADS faculty member Dr. Molly Nicodemus. The ADS 3221 laboratory will be offered this fall semester. For further information about ADS 3221 contact Dr. Nicodemus at [mnicodemus@ads.msstate.edu](mailto:mnicodemus@ads.msstate.edu).





## Congratulations!

We would like to congratulate Dr. Amanda Stone who has been accepted into the 2019-2020 Community-Engaged Learning Fellowship program. This is a big honor and we are very proud of her!

"The Community-Engaged Learning Faculty Fellows program is a 3 week-long faculty development program that provides an opportunity for selected faculty and staff members to integrate community-engaged learning into their teaching, research and public service work, while becoming recognized campus leaders in community-engaged learning pedagogy and community engagement. The program aims to integrate the philosophy, pedagogy, and process of community-engaged learning into the MSU academic environment. The fellowship includes a \$1000 faculty development award after completing the program."

# MISSISSIPPI STATE

## Show Lamb Sale

May 18, 2019 at 11:00 at the MSU Beef Unit

Strickland  
Show Lamb Genetics  
Proven Champions



A Great Source  
For Your  
Mississippi Bred Lambs

MSU will be Selling 10-20 Show Lamb Prospects  
Sired By Hostile, A Schminke Genetics Ram



Some MSPA  
Members May Also  
Consign Lambs



H. H. Leveck Research Station  
(South Farm)  
60 Beef Unit Road  
Mississippi State, MS 39762



ANIMAL & DAIRY SCIENCES

Corey White (662) 803-8815  
c.white@msstate.edu  
William White (662) 769-3500  
w.white@msstate.edu





# Pancakes and Ponies

With Mississippi State University's  
Equestrian Team

**SATURDAY, 8-11  
MAY 11th am**

*Horse Unit at the Henry H.  
Leveck Experiment Station*

EARLY BIRD SPECIAL (before May 5th):

Children under 12: \$5.00

12 & Over: \$8.00

AFTER MAY 5th:

Children under 12: \$7.00

12 & Over: \$10.00

ENJOY AN ALL-YOU-CAN-EAT  
PANCAKE BREAKFAST  
WITH OUR AMAZING HORSES!

Pony Rides: \$15

Other activities include: Paint the Horse,  
a grooming station, & more

*All proceeds go towards the MSU Equestrian  
Team as they continue to compete in the  
upcoming season.*

To Register, e-mail Ashley Glenn at [aes779@msstate.edu](mailto:aes779@msstate.edu)



# UPCOMING EXTENSION EVENTS

Beef Extension - Dr. Brandi Karisch

April 26-27: ADS Alumni Weekend, Mississippi State, MS

May 17: Beef 101, MSU Meat Science Laboratory, Mississippi State, MS

Phone: (662) 325-7465 Email: [brandi.karisch@msstate.edu](mailto:brandi.karisch@msstate.edu)

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

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Dairy Extension - Dr. Amanda Stone

July 22-23: 2019 Dairy Cow Camp, Starkville, MS

Phone: (662) 325-8773 Email: [amanda.stone@msstate.edu](mailto:amanda.stone@msstate.edu)

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

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4-H Events - Dr. Dean Jousan

Phone: (662) 325-2424

Email: [dj230@msstate.edu](mailto:dj230@msstate.edu) www

Website: <http://extension.msstate.edu/4-h>

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Equine Events - Dr. Clay Cavinder

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

- Carlisle, MS, Leif D., **Erdogan Memili, DVM**, PhD, Robert L. Linford, DVM, PhD, ACVS, Kristen A. Slater, DVM, **Molly C. Nicodemus, PhD**. Relationship between Gate Mechanics and the Speed of the Trot in the Weimaraner Dog Breed. *Topics in Companion Animal Medicine* 35 (2019) 26-30. <http://dx.doi.org/10.1053/j.tcam.2019.03.003>
- El Debaky, Hazem A., Naseer A. Kutchy, Asma Ul-Husna, Rhesti Indriastuti, Shamim Akhter, Bambang Purwantara, and **Erdogan Memili**. Review: Potential of water buffalo in world agriculture: Challenges and opportunities. *Applied Animal Science* 35:255–268. <https://doi.org/10.15232/aas.2018-01810>
- Ferjak, E.N., **C.A. Cavinder**, A.T. Sukumaran, **D.D. Burnett**, **C.O. Lemley**, **T.T.N. Dinh**. Fatty acid composition of mesenteric, cardiac, abdominal, intermuscular, and subcutaneous adipose tissues from horses of three body composition scores. *Livestock Science* 223 (2019) 116-123. <https://doi.org/10.1016/j.livsci.2019.02.01>
- Dutra, G. A., G. M. Ishak, O. Pechanova, T. Pechan, D. G. Peterson, J. C. F. Jacob, **S. T. Willard**, **P. L. Ryan**, E. L. Gastal, and **J. M. Feugang**. Seasonal variation in equine follicular fluid proteome. *Reproductive Biology and Endocrinology*. (2019) 17:29. <https://doi.org/10.1186/s12958-019-0473-z>
- 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>.