



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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Graduate Students:

Courtney Heaton

Holly Evans

**Inducted into Gamma
Sigma Delta Agriculture
Honor Society and
Award of Merit
Scholarship**



2019 Mississippi 4-H Dairy Judging Contest

We would like to invite you to the 2019 Animal and Dairy Sciences alumni weekend. We are excited about what we have going on in the Department and would like to share it with you. We have two days of events planned that will allow you to catch up with old friends, meet new students in the program, and see some of the latest research we have going on!

Register online here:

<https://www.ads.msstate.edu/workshops/alumni-reunion/>

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Skylar Noblin, Hinds 4-H, High Point Individual in the Holstein Division. Also, the High Point Individual in Total Placings for the contest and the High Point Overall Individual.



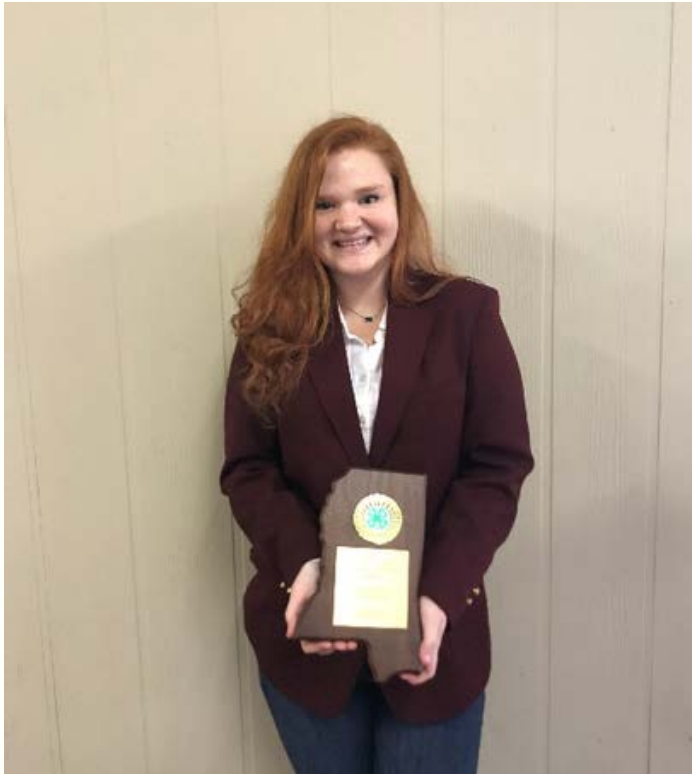
Swayze Browning, Union 4-H, High Point Individual in Oral Reasons.



2019 Mississippi 4-H Dairy Judging Contest

Cayden Bell, Pontotoc 4-H, High Point Individual in the Jersey Division. (Not Pictured)

Left: Ken Hall, Hinds 4-H, 3rd High Point Individual.



2019 Mississippi 4-H Dairy Judging Contest

August Ann Thornton, Hinds 4-H, 2nd High Point Individual

Hinds 4-H, the High Point Team, will represent Mississippi 4-H at the NAILE 4-H Dairy Judging Contest in Louisville, KY, in November. Team members are August Ann Thornton, Ken Hall, Tyler Barlow and Skylar Noblin.





Congrats Dr. Dean Jousan!

We would like to congratulate Dr. Dean Jousan for receiving the 2018 Gamma Sigma Delta Award of Merit for Extension.

The objectives of the Mississippi State University Chapter of the Honor Society of Agriculture, Gamma Sigma Delta, shall be to encourage high standards of scholarship in all branches of agricultural science and education and a high degree of excellence in the practice of agricultural pursuits, by the election to membership of graduating seniors and graduate students who have shown exceptional ability during their undergraduate or graduate work in Agriculture and its closely related disciplines and those alumni and faculty members who have rendered signal service to the cause of agricultural development.

FRIDAY, APRIL 26, 2019

Time	Activity
6:30 pm	South Farm Hoe-Down at the Beef Unit (Crawfish and live music) and ADS student recognitions

SATURDAY, APRIL 27, 2019

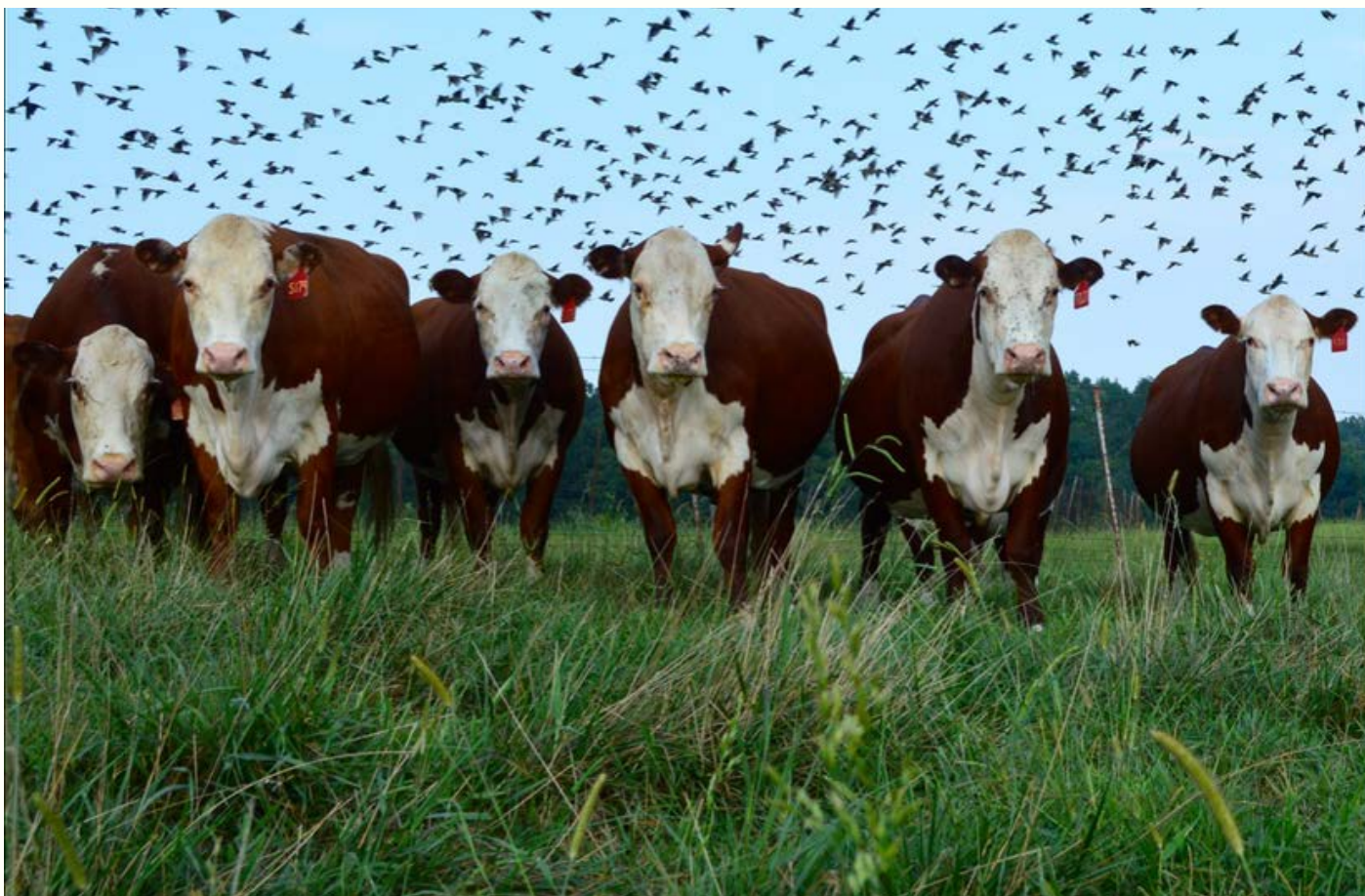
Time	Activity
8:00 am	Donuts and Coffee: Wise Center Room 112 (new addition on North-end
8:30 am	Dr. John Blanton: Departmental Highlights
9:00-11:00 am	Tour of NEW Meat Lab and ADS Building
11:30 am	Lunch: Wise Center Room 112
1:00 pm	MSU Equestrian Team Golf Tournament at MSU Golf Course (registration at event)
	Block & Bridle and Judging Team Alumni Meeting following the lunch!

2019 ADS Alumni Weekend

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NCBA: The Cycle of Reproduction

Check out this webinar being offered by NCBA: The Cycle of Reproduction

Every management decision you make can impact the success of your breeding season. It is important to understand how your management decisions can impact the success of future breeding seasons, from the time you wean and/or select your replacement heifers until they are determined pregnant and even after that replacement heifer is pregnant. This presentation will cover how to make the right management decisions for your cow herd to be productive and profitable now and in the future.

<http://www.beefusa.org/cattlemenswebinarseries.aspx>

**MISSISSIPPI STATE
UNIVERSITY.**

Animal and Dairy



Cordially Invites You to Attend the

2019 Award Recognition

in conjunction with our

Alumni South Farm

Hoe-down

Friday April 26



Recognition Program at 6:30

Live music and crawfish at 7:00

Beef Unit—Leveck Animal Research Center, MSU

RSVP by April 19 to M.Quinn@ads.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

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

Dairy Extension - Dr. Amanda Stone

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

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

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

4-H Events - Dr. Dean Jousan

Phone: (662) 325-2424

Email: dj230@msstate.edu www

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

Equine Events - Dr. Clay Cavinder

Contact Dr. Cavinder for information about programs and events at (662) 325-7566 or

Email: clay.cavinder@msstate.edu

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

2019 Refereed Publications

- 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>.