

ANIMAL & DAIRY SCIENCES

Mississippi State University



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#DIDYOUKNOW

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LIVESTOCK JUDGING TEAM ATTEND NATIONAL STOCK SHOW



We were fortunate to rank 9th in the swine division and cheer on MSU's, Julia Tate, to her narrow miss of a top-ten overall finish in the carload contest where she finished 15th overall.

We always enjoy the educational process that begins with this first contest and look forward to seeing its dividends pay off in the long-term!

Our trip to the National Western Stock Show in Denver was productive! We practiced at some of the nation's leading livestock operations, took part in a practice contest hosted by Kansas State University, and after about 10 days on the road, came home a better team than we were when we left. Twenty-six universities from across the country competed in this first major contest of the year with their new teams.

ADS 2221 STUDENTS EDUCATED ON ANIMAL RESCUES



Above: ADS 2221 Students learning about the care that goes into rehabilitating a rescued horse

Below: ADS 2221 Students touring the GTR Horse Rescue learning about upcoming facility renovations

The new Animal & Dairy Sciences laboratory course, ADS 2221 Companion Animal Management Laboratory, spent this past week focused on animal rescues with students getting a chance to tour the Golden Triangle Regional Horse Rescue in West Point, Mississippi. ADS 2221 students met with board members of GTR Horse Rescue to learn more about managing an animal rescue and how a rescue impacts the community.

As a part of the community-engaged learning activities associated with the course, ADS 2221 students will be volunteering this semester at the GTR Horse Rescue including assisting with their upcoming fundraiser, the Southern Bulldog Classic Open Breed Show on March 30th at the Louisville Coliseum. The new laboratory course is taught by Dr. Molly Nicodemus and graduate teaching assistant Dr. Muhammet Ugur.

Individuals interested in learning more about ADS 2221 or about the horse rescue fundraiser, the Southern Bulldog Classic Open Breed Show, can contact Dr. Nicodemus at mnicodemus@ads.msstate.edu.



UNDERGRADUATE RESEARCH SCHOLARS PROGRAM



Dairy students spent an afternoon getting ready to start a calf project as part of the Undergraduate Research Scholars Program.

This is a program where undergraduate students, interested in research, try their hand at it through a project they design and execute with a faculty mentor (and in this case, a hard working graduate student, Carly Becker).

Chelsey Hill, a senior in Biochemistry, will be leading the project and these seven volunteers will be getting dairy experience along the way.

Love seeing students interested in dairy and lucky State has so many great students willing to volunteer their time (and sleep!) to learn new things and help out their peers!

- Dr. Amanda Stone



DIXIE NATIONAL SALE OF JUNIOR CHAMPIONS



On Feb. 7, the Dixie National Sale observed its golden anniversary and passed the \$7 million mark in total generated sales during its 50-year run. This year's edition produced a preliminary sale total of \$382,775, breaking the previous record.

Julia Saucier, right, shows one of her three champion steers to Gary Jackson, director of the Mississippi State University Extension Service, during the Dixie National Sale of Junior Champions at the Mississippi Trade Mart in Jackson, Mississippi, Feb. 7, 2019.

#DIDYOUKNOW

With over 18,000 square feet of space, the new Meat Science and Muscle Biology Laboratory produces some of the finest beef and pork products around. The facility includes a harvest area, demonstration area and freezer space as well as classrooms and research laboratories.

The Meat Science and Muscle Biology Laboratory moved into the new building in Fall 2018. The facility includes teaching, research and outreach by the Departments of Animal and Dairy Science and Food Science, Nutrition and Health Promotion. Want to taste our farm-raised products? They are available to the public at the MAFES Sales Store. These include rib eye steaks, ground chuck, sirloin tip roasts, and many other cuts.



COW CRAWL

March 2nd,
2019 @ 8am

\$15

Includes T-shirt!

(if registered by
2/15)

5k fun run
and
walk

- All ages welcome!
- Leashed dogs welcome!
- All proceeds benefit MSU Block and Bridle

Sign up: runsignup.com/cowcrawl

Questions?
Contact Lexi at
blockandbridlemsu.com



EQUESTRIAN TEAM FUNDRAISER



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

Mar. 7: Hinds Bull Test & Spring BCIA Bull Sale, Raymond

Mar. 14 - Mar. 16: MSU Artificial Insemination School

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

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

Dairy Extension - Dr. Amanda Stone

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>

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

4-H Events - Dr. Dean Jousan

February 2 - 17, 2019: Dixie National Livestock Show and Rodeo, MS State Fairgrounds, Jackson,

February 7, 2019: 2019 Dixie National Sale of Junior Champions, MS State Fairgrounds, Jackson

Phone: (662) 325-2424

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

Equine Events - Dr. Clay Cavinder

April 6, 2019: 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

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>.