



ANIMAL & DAIRY SCIENCES NEWSLETTER

MISSISSIPPI STATE UNIVERSITY
APRIL 27, 2018 | VOLUME 85



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Congrats MSU Horse Judging Team

A big congratulations to the MSU Horse Judging Team! The team performed wonderfully at the Spring Contest in Oklahoma City. We competed two teams and 10 students total. Everyone had fun, gained confidence, and are looking forward to the fall!

-Team Awards-

Reserve Champion Team Overall

3rd Place Team Overall

2nd Performance

2nd Halter

2nd Reasons

3rd Performance

6th Reasons

7th Halter

-Individual Awards-

3rd Overall- Shawna Downs

3rd Halter- Harper Cobb

4th Performance- Shawna Downs

4th Reasons- Tori Stroupe

7th Performance- Cheyenne Jones

8th Overall- Mary Claire Cornett

9th Reasons- Alex Blackburn

10th Overall- Harper Cobb

10th Performance- Tori Stroupe

10th Reasons- Shawna Downs

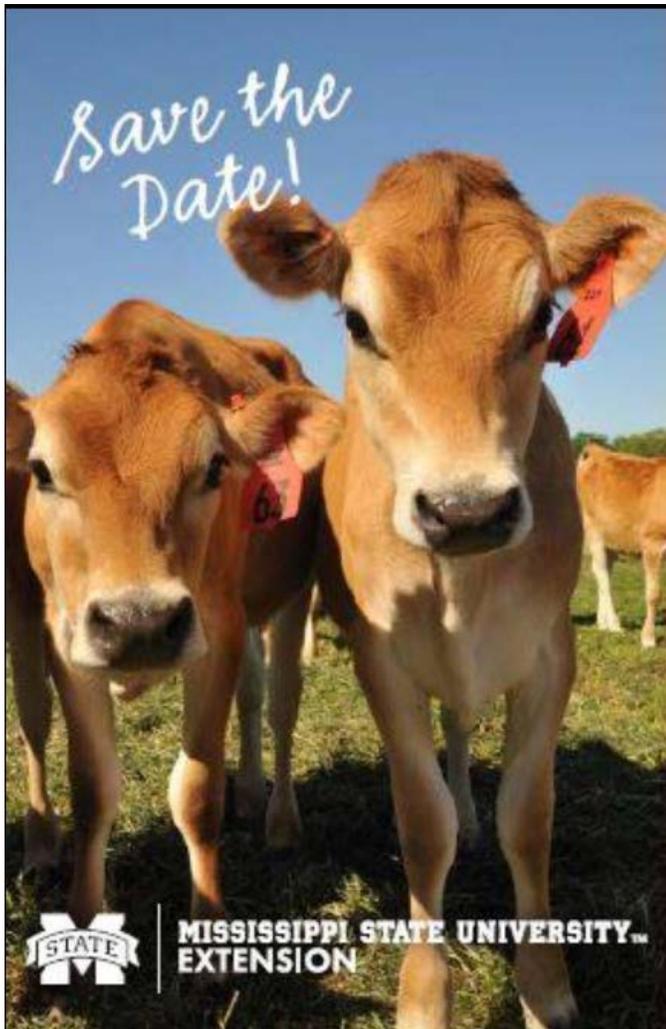


Undergraduate Companion Animal Research

As the companion animal course offerings expands, the opportunities for undergraduates to participate in research focused on companion animals also expands. Jillian Greenwood presented her companion animal research this month at the 2018 Spring Undergraduate Research Symposium sponsored by the Shackouls Honors College. Jillian worked with Dr. Molly Nicodemus this past year researching the influence of handling and training in canines. To educate other undergraduates about the opportunities for participating in this type of research, Jillian will be presenting her findings to ADS courses associated with companion animals and to attendees at the upcoming ADS Banquet.



Breakfast on the Farm



Breakfast on the Farm

BEARDEN DAIRY RESEARCH CENTER
2128 Turkey Creek Road, Starkville, MS 39759

SEPTEMBER 27 & 28 | 9 A.M.-NOON
open to school groups & field trips

SEPTEMBER 29 | 9 A.M.-NOON
open to the public & families

EDUCATIONAL ACTIVITIES
FOR ALL AGES

DAIRY TOUR

ANATOMY & DISSECTION ACTIVITIES

MILK A COW

Registration for a designated date & time will be *required*. Registration opens this fall.

For more information, contact Amanda Stone at amanda.stone@msstate.edu

Run for the Roses Banquet

*Presented by the MSU Horse Judging and
Equestrian Teams*

May 5th, 2018 Derby Day

4:45 pm at The Mill Conference Center

Tickets \$40 each

Or \$450 each table

Live Viewing of the 144th Kentucky Derby

Live and Silent Auction

Dinner



**MISSISSIPPI STATE UNIVERSITY
RUN FOR THE ROSES BANQUET**

Email Ashley Shiffler at aes779@msstate.edu to purchase tickets

ADS Alumni Weekend

Save the Date
April 27 - 28, 2018



2018 ADS Alumni Weekend & Field Day

We would like to invite you to the 2018 Animal and Dairy Sciences alumni weekend and Field Day. 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 time to catch up with old friends, meet new students in the program and see some of the latest research we have going on at each unit.

For more details please visit ads.msstate.edu/workshops/alumni-reunion to register. Please register by April 13, 2018.

Purchase your baseball tickets at www.hailstate.com or call 888-GO-DAWGS

Agenda

Friday, April 27th

6:30 p.m. South Farm Hoe-Down at the Beef Unit (Crawfish and live music)

Saturday, April 28th

9:00 - 12:00 p.m. MSU Beef, Equine, and Dairy Unit Field Day

12:00 p.m. Lunch at Beef Unit

1:00 p.m. Tour of the new MSU Meat Laboratory

Block & Bridle and Judging Team Alumni Meeting @ Beef Unit following tour

5:00 p.m. Tailgating for MSU vs. TAMU (Game at 6:30)

ADS Awards Banquet



Sara Terrell is with Renee Anderson and Alex Farrar.



Admin · April 24 at 9:11pm · Mississippi State

ADS Banquet 2018.

Congratulations to Christie Reynolds for receiving our annual scholarship.

Congratulations to our president Renee Anderson for receiving the ADS Outstanding Senior Award.

We are very proud of you! And special thanks to Dr. Smith and Dr. Blanton for all they do for us. If you happen to run into them, stop them and tell them thank you. We couldn't do what we do without their support and help from our members.



MSU Horse Judging Camp



MISSISSIPPI STATE UNIVERSITY™
EXTENSION

2018 MSU Horse Judging Camp

What: Horse Judging Camp instructed by Dr. Clay Cavinder and the MSU Horse Judging Team! Up-to-date industry instruction on halter and performance classes to improve the understanding of beginners and advanced judges. Additionally, instruction on reasons will be conducted.

When: June 1-3, 2018

Where: Mississippi State University, Starkville

Who: Youth (experienced or beginners) interested in horse judging

Cost: \$275/person to include: all meals, dorms, and 100+ page judging manual

For program itinerary and to register, please visit: <https://techoutreach.msucare.com/annual-msu-horse-judging-camp-registration>

For further information contact Dr. Cavinder, Extension Horse Specialist, Mississippi State University, clay.cavinder@msstate.edu



MSU Horse Sale

MSU Horse Sale

Bid May 11-13, 2018

Viewing at Horse Unit Open House 5/5 from 9-11 am

Athleticism

Quality

Versatility



Facebook: Mississippi State University Horse Unit

Contact: Ashley Shiffler - (580) 795-4349 - aes779@msstate.edu

Quick, Convenient Bidding At AUCTION.MSUCARES.COM

Bidding begins at 8 am the 11th and closes at 8 pm the 13th

2018 4-H State Livestock Judging Contest

Saturday, May 19th - Starkville, MS

Contest Details

- Check-in will begin at MSU CVM Auditorium on the 2nd floor (time to be announced)
- After check-in and general announcements, teams will need to be driven to the Beef Unit on the MSU South Farm and back to the CVM Auditorium after the placing classes are finished.

o Details about the Senior 4-H contest:

- ♣ Teams must consist of at least 3 members; if a team has 4 members, then the lowest score will be dropped in the overall high point team award. Division awards will be presented that will include placings and reasons for each species. The top 10 individuals will include total placing and reasons scores for the entire contest.
- ♣ Senior 4-H'ers will judge 8 classes of livestock and present 4 sets of oral reasons (one set for each species).

o Details about the Junior 4-H contest:

- ♣ Teams must consist of at least 3 members; if a team has 4 members, then the lowest score will be dropped in the overall high point team award.
- ♣ Junior 4-H'ers will judge all 8 classes of livestock and ONLY total placings will be used to determine the top 10 individuals and top teams.
- ♣ If a junior chooses to give beef cattle reasons, for example, they are eligible for beef division awards. The same holds true for each species in which the junior 4-H'er gives reasons. Again, juniors have the option of giving no reasons at all or up to 4 sets, one for each species, thereby making them eligible for all division awards.
- ♣ To be clear, those juniors who choose to give reasons within a particular species should be aware that those reasons scores will only be tabulated into their respective species results but will NOT be added to the total points used to determine high individuals and high teams overall. Again, high individuals overall and high teams overall will be based on placing scores exclusively.
- Lunch will cost \$4 per registered contestant and will be served either at the Beef Unit or the CVM cafeteria
- Official placings and class critiques will be given at the conclusion of oral reasons at the CVM Auditorium
- Awards ceremony will follow the critiques

o Team handouts/results will be given to all counties

Contest Registration Information

- Senior and junior 4-H judging contestants (teams and individuals) must be pre-registered by 12 noon on Monday, May 14th
 - o Email senior entries to dean.jousan@msstate.edu
 - o Email junior entries to dean.jousan@msstate.edu and indicate for each junior 4-H'er which reasons they will give at the contest

Upcoming Events

ANIMAL AND DAIRY SCIENCES

Upcoming Events

BEEF EXTENSION - DR. BRANDI KARISCH & COBIE RUTHERFORD

- April 5 to 6 Southeast Cattle Handling for Women Producers
- May 27-28 MSU Animal & Dairy Sciences Alumni Weekend and
- May 1 - Beef Quality Assurance Certification, Lafayette County Extension Office, Oxford
- May 5 - Beef Cattle Basics, Brandon



EQUINE EVENTS - DR. CLAY CAVINDER

- June 1-3 MSU Horse Judging Camp



4-H EVENTS - DR. DEAN JOUSAN

- May 19: 4-H Livestock Judging Contest, MSU South Farm



DAIRY EVENTS - DR. AMANDA STONE

- August 25: Ice cream and a Moo-vie
- September 20-21: Calf College
- September 27-29: Breakfast on the Farm
- For more info, contact Dr. Stone at amanda.stone@msstate.edu



2018 Refereed Publications

- Gastal, G.D.A., **J.M. Feugang**, F.L.N. Aguiar, A.P.R. Rodrigues, J.M. Scimeca, G.A. Apgar, W.J. Banz, E.L. Gastal. Cryopreservation and in vitro culture of white-tailed deer ovarian tissue. *Theriogenology*. 113 (2018) 253-260.
- Velho, Ana Luiza Cazaux, Eiko Topper, Erika Menezes, **Thu Dinh**, Abdullah Kaya, Arlindo Alencar Moura, **Erdogan Memili**. Metabolomic markers of fertility in bull seminal plasma. *PLOS ONE*. <https://doi.org/10.1371/journal.pone.0195279>.
- Owen, MPT, EN Ferjak, **CA Cavinder**, KJ McCarty, KC Yankey, CG Hart, **DD Burnett**, **TTN Dinh**, **CO Lemley**. Effects of body condition score (BCS) on steroid- and eicosanoid- metabolizing enzyme activity in various mare tissues during winter anoestrus. *Reproduction in Domestic Animals*. 2018;53:296–303. <https://doi.org/10.1111/rda.13104>.
- Park, Seong B., **Scott T. Willard**, Christy S. Steadman, Atul A. Chaudhari, Shreekumar R. Pillai, Shree R. Singh, **Peter L. Ryan** and **Jean M. Feugang**. Proteomic analysis of antimicrobial effects of pegylated silver coated carbon nanotubes in Salmonella enterica serovar Typhimurium. *Journal of Nanobiotechnology*. (2018) 16:31 <https://doi.org/10.1186/s12951-018-0355-0>.
- Cavinder, C. A., PAS, E. N. Ferjak, C. A. Phillips, D. D. Burnett, and T. T. N. Dinh**. REVIEW: The importance of overall body fat content in horses. *The Professional Animal Scientist* 34:125–132. <https://doi.org/10.15232/pas.2017-01708>.
- Sukumaran, Anuraj T., Alexander J. Holtcamp, April K. Englishbey, Yan L. Campbell, Taejo Kim, Mark W. Schilling, **Thu T.N. Dinh**. Effect of deboning time on the growth of Salmonella, E. coli, aerobic, and lactic acid bacteria during beef sausage processing and storage. *Meat Science* 139 (2018) 49–55.
- Wang, T., **M. A. Crenshaw**, N. Regmi, **B. J. Rude**, M. S. Hasan, A. T. Sukumaran, **T. Dinh**, and **S. F. Liao**. 2018. Effects of dietary lysine level on the content and fatty acid composition of the intramuscular fat in late-stage finishing pigs. *Canadian Journal of Animal Science*. 98: 241-249. DOI: [dx.doi.org/10.1139/cjas-2017-0083](https://doi.org/10.1139/cjas-2017-0083).
- 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:

- Jain, Sapna, Seong B. Park, Shreekumar R. Pillai, **Peter L. Ryan**, **Scott T. Willard** and **Jean M. Feugang**. Applications of Fluorescent Quantum Dots for Reproductive Medicine and Disease Detection. In *Unraveling the Safety Profile of Nanoscale Particles and Materials—From Biomedical to Environmental Applications*, Chapter 6, pp. 133-148, <http://dx.doi.org/10.5772/intechopen.72978>.