



ANIMAL & DAIRY SCIENCES NEWSLETTER

MISSISSIPPI STATE UNIVERSITY
APRIL 6, 2018 | VOLUME 82



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Dixie National

Dixie National is here! Lela prepares Buttercup for a big week. Showing livestock is a great way for our 4-H'ers to learn responsibility and have fun doing it!! We are proud to be growing TRUE LEADERS!



MSU Students in Guatemala

MSU students spent the morning with a local veterinarian and Extensionistas (with the Ministry of Agriculture) in Guatemala.

Exchanging knowledge is fun and field training is valuable!

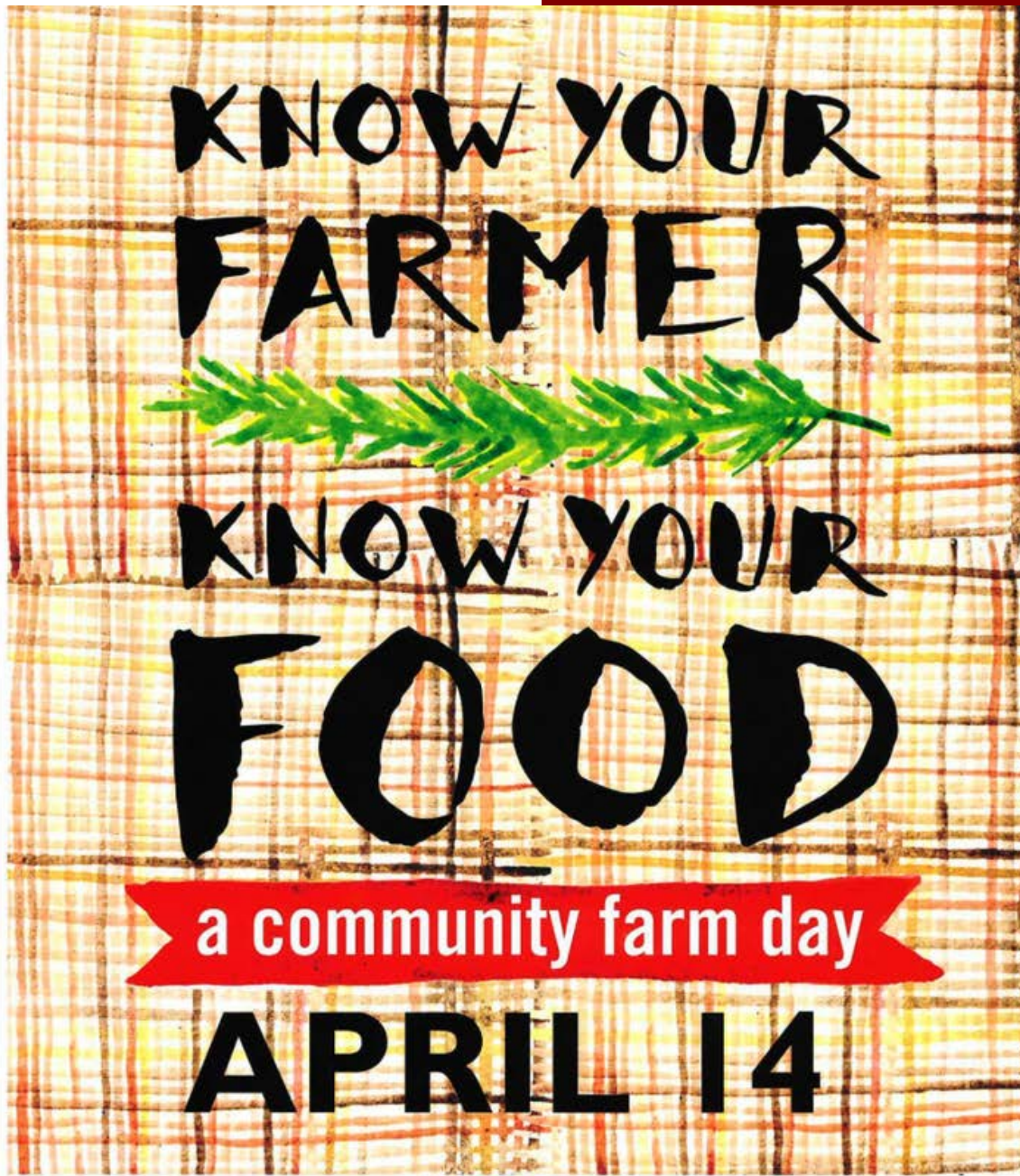


Congrats to Emili McClure

Congrats to Emili McClure, a senior Animal and Dairy Science major, and recipient of the Undergraduate Student Award of Merit Scholarship from Gamma Sigma Delta, the agriculture honor society.



Know Your Farmer



9:00-11:00am

FIRE STATION PARK
DOWNTOWN STARKVILLE

EXHIBITS
DEMONSTRATIONS
HANDS-ON ACTIVITIES
FARMERS MARKET

visit.starkville.org

PRESENTED BY



Horsing Around

While most college students celebrated Easter at home with their families, ADS 3223 Horse Management students devoted their Easter weekend volunteering at the Palomino and Pinto horse show sponsored by the Heart of Dixie Palomino Exhibitors Association (HOPE). The show took place at the Lauderdale County Agri-Center in Meridian, MS. Around 15 students worked each day, both Saturday and Sunday, assisting with various aspects of the show. Students got an opportunity to assist judges, the announcer, show management, show secretaries, and the ring steward, while watching some of the top palomino trainers and horses compete. The student volunteer program between HOPE and the Animal & Dairy Sciences (ADS) Department has successfully taken place for several years under the supervision of Dr. Molly Nicodemus and has resulted in HOPE developing a scholarship for student volunteers. The first student volunteer scholarship will be given out to a MSU student this fall at the HOPE yearend awards banquet in Tupelo, MS. All students that volunteer throughout the show season at a HOPE sponsored show will be eligible for the scholarship.



ADS Student Volunteers setting up for flag races at the HOPE Show

Crawfish Boil T-Shirt

Please don't forget you have ONE week left to buy tickets and order shirts for the crawfish boil on April 13th at 6:30 pm at the beef unit! \$10 for tickets and \$15 for shirts. Feel free to bring friends and family!

jcgapparel™

CATTLEMAN - MSSTATE - CRAWFISH BOIL - 15426



» product

6030 COMFORT COLORS SHORT SLEEVE POCKET T-SHIRT
LIGHT GREEN



» front

SIZE: 3" x 2.5"
INKS: crimson



» back

SIZE: 13" x 12"
INKS: crimson, spice brown, red, flesh, navy, charcoal

Disclaimer: Proof colors are not exact. Colors may vary depending on the screen you are viewing them on. The scale of the design is approximate. All graphics are property of jcgapparel.



Welcome Dr. Henry Paz

We would like to give a big bulldog welcome to Dr. Henry Paz, as our newest dairy scientist. Dr. Paz has a background in dairy nutrition, microbial genomics, and bioinformatics. He recently finished up as a Post-Doctoral Research Associate at the University of Nebraska-Lincoln, USA. His research is focused in understanding the relationships between microbial structure and methanogenesis, feed efficiency, and metabolic disorders in ruminants.



ADS Awards Banquet

PLEASE JOIN US FOR

The Annual ADS Awards Banquet

Tuesday April 24th, 2018

Bost Building B

6:30 pm

Tickets are Free, but Required for Admission

Pick up tickets in Wise 4025 on April 2nd

WATCH THE FEATURED BAND CRAWLIN' CALEB'S BLUES REVIEW
ON FACEBOOK: [HTTPS://WWW.FACEBOOK.COM/SEARCH/TOP/?
Q=CALEB%27S%20CRAWLIN%27%20REVIEW](https://www.facebook.com/search/top?q=CALEB%27S%20CRAWLIN%27%20REVIEW)

Hands on Horses

Hands on Horses clinic was a huge success with 28 participants.



Upcoming Events

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BEEF EXTENSION - DR. BRANDI KARISCH & COBIE RUTHERFORD

- April 5 to 6 Southeast Cattle Handling for Women Producers



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

- 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>.