# MISSISSIPPI STATE Animal and Dairy Kr A A A SCIENCES Vol. 42 October 24 - 2000



### Teaching Research Extension Departmental Activities

## **Research Collaboration**

Submitted by Dr. Shengfa Liao and Md Shamimul Hasan



In search of conducting collaborative research projects with the faculty at the Department of Animal and Dairy Sciences, Dr. San (Chris) Ching, Technical Research Manager, from Amlan International, a wholly owned subsidiary of Oil-Dri Corporation of America (Vernon Hills, IL), visited our department at Mississippi State University on September 22-23, 2016. During his visit, Dr. Ching toured the university campus in Starkville, the Leveck Animal Research Center, and the ADS departmental laboratories located in the Wise Center building. On the second day of his visit, Dr. Ching shared his company research findings with our faculty, staff, and students with an informative seminar titled "Clay Application and Animal Gut Health." Amlan International is a feed additive company dedicated to animal health and provides natural disease management solutions for the livestock industries. Details about Amlan International can be found at http://www.amlan.com/ english/index.html.



## Cattlemen's College 2016

## October 27th

Southeast MS Livestock Barn Hwy. 49 N • Hattiesburg

## October 28th

In conjunction with the North MS Beef Expo.

Batesville Civic Center 290 Civic Center Drive • Batesville

Program begins at 8 a.m. for both locations • Free to the public

Lunch will be provided • Don't miss the trade show

## **Program Highlights**

Dr. Brian Williams – Mississippi State University "Cattle Market Outlook"

> Dr. James Rogers – Noble Foundation "Forage 365"

James Ward - USDA-AMS "Hands-on Cattle Grading Demonstration"

Jennifer Houston, NCBA Policy Division Chairman "NCBA Updates & Policy Issues"

> Jeffery Hall, Silvus - Silveous Insurance "Crop Insurance"

Dr. Blaine Corners - Zoetis "Veterinary Feed Directive Update"

## Sponsored by:

Zoetis • National Grazing Lands Coalition Mississippi Cattlemen's Association • Natural Resources Conservation Service • National Cattlemen's Beef Association • Mississippi State University Extension Service Dr. Derrell Peel – Oklahoma State University "Cattle Market Outlook"

Dr. Jane Parrish – Mississippi State University "Premiums and Discounts from Mississippi Auctions"

James Ward, USDA-AMS "Hands-on Cattle Grading Demonstration"

Cattle Producer Panel "The Pros and Cons of Cattle Marketing Methods"

> Dr. James Rogers – Noble Foundation "Forage 365"

Dr. Blaine Corners - Zoetis "Veterinary Feed Directive Update"

Dr. Carla Huston - Mississippi State University "Cattle Veterinarian Practices Demonstration"

## Sponsored by:

Zoetis • National Grazing Lands Coalition• Mississippi Cattlemen's Association • Natural Resources Conservation Service • National Cattlemen's Beef Association • Mississippi State University Extension Service • Mississippi Farm Bureau • Wade Equipment • Heafner Automotive and Hallmark Ford

Please RSVP to Mississippi Cattlemen's Association www.mscattlemen.org or (601) 354-8951 to plan for meals

## **Upcoming Extension Events**

#### Beef Extension – Dr. Brandi Karisch **Cobie Rutherford**

- Mississippi Cattlemen's Association Cattlemen's College, Oct. 27, 2016, Hattiesburg •
- Mississippi Cattlemen's Association Cattlemen's College, Oct. 28, 2016, Batesville

#### Equine Events – Dr. Clay Cavinder

• Ranch Horse Clinic series is coming to Starkville in Spring 2017. Be on the lookout for the official dates.

#### 4-H Events – Dr. Dean Jousan

- National Association of Extension 4-H Agents (NAE4-HA) Annual Conference, Portland, OR., Oct. 25-29, 2016
- State 4H Staff Conference, Oct. 29, 2016

#### Dairy Events – Dr. Amanda Stone

- Dairy Science Field Day: March 17, 2017, Starkville
- Bearden Dairy Research Center Open House: May 20, 2017









## MSU Dairy Show Team at the Mississippi State Fair

#### **1st Place Herdsmanship**

2nd Place Holstein Fall Calf, exhibited by Kessy Stevens

> 2nd Place Jersey Sr 2 Year Old, exhibited by Kaleb Morgan

3rd Place Jersey Sr 2 Year Old, exhibited by Abigail Jenkins

4th Place Holstein Fall Calf, exhibited by Malik Travis

4th Place Holstein Sr 2 Year Old, exhibited by Olivia Hall

8th Place Jersey Winter Calf, exhibited by Randi Benefield



\* Coaches are Jessica and Kenneth Graves and Megan Kludt \*



Front row (I-r): Malik Travis, Randi Benefield. Back row (I-r): Olivia Hall, Alyssa Rulewicz, Halle Wilson, Abigail Jenkins, Kessy Stevens, Anna Wilson, and Kaleb Morgan

## **ADS CLUBS and ORGANIZATIONS**

**MSU Equestrian Team Show Results** Berry College in Rome, GA on Oct. 15-16

#### --Western Results--

#### Reserve High Point Overall Team

Gentry Clark- 2nd in Open Reining, 2nd in Open Horsemanship Mary Claire Cornett- 2nd in Advanced Horsemanship Joshua Boyd- 2nd in Beginner Walk Trot Horsemanship Sabrina Turner- 3rd in Advanced Horsemanship Hart Daniels- 4th in Advanced Horsemanship Madison Eckloff- 4th in Intermediate Horsemanship Ashley Beyer- 5th in Beginner Walk Trot Horsemanship Ashley Greene- 5th in Intermediate 2 Horsemanship

#### --English Results--

Emili McClure- 2nd Beginner Walk Trot Canter Equitation Danielle Hodges- 2nd Open Over Fences Marie Leathers- 3rd Beginner Walk Trot Canter Equitation Sydney Bauer- 3rd Intermediate Over Fences, 5th Intermediate Equitation Katie Rose Anthony- 4th Novice Equitation Devin Parrish- 4th Novice Equitation, 5th Novice Over Fences Ashley Greene- 5th Advanced Walk Trot Canter Equitation MaeLena Apperson- 5th Novice Equitation, 6th Novice Equitation, 4th Novice Over Fences Samantha Mooneyham- 5th Intermediate Equitation

F Mississippi State University Equestrian Team

Home 20+ 1 . .



Mississippi State University Equestrian Team



## **ADS CLUBS and ORGANIZATIONS**

## **MSU Meat Chemistry and Cuisine Club Fundraiser**

Our meatheads will be outside of Ballew Hall cooking some samples and selling ready-to-cook meats and pork-stuffed spring rolls every Tuesday at 4 PM. If you would like to purchase our products, please come during the sampling event every Tuesday or email Alex Holtcamp (ajh420@msstate.edu) or Anuraj Sukumaran (at1179@msstate.edu). Meats and spring rolls will be available for pick up from Monday to Friday in Ballew Hall.

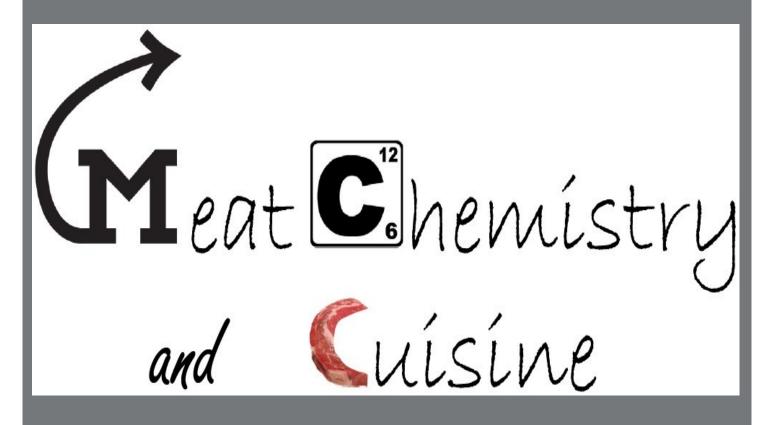
#### SAMPLE MENU:

6 4-oz dry-rub pork chops in vacuum package for \$8

6 spring rolls in vacuum package for \$6

**FREE SAMPLES** 

EVERY TUESDAY at 4 pm outside BALLEW HALL



#### 2016 Refereed Publications:

- Larson, J.E. Incorporating Writing-to-Learn Strategies into an Animal Reproduction Course. *NACTA Journal,* September 2016, Vol 60(3), 303-306.
- Lamb, G. C., PAS, V. R. G. Mercadante, D. D. Henry, P. L. P. Fontes, C. R. Dahlen, J. E. Larson, and N. DiLorenzo. Invited Review: Advantages of current and future reproductive technologies for beef cattle production. *The Professional Animal Scientist* 32 (2016):162–171; http://dx.doi.org/10.15232/pas.2015-01455.
- Regmi, Naresh, Taiji Wang, Mark A. Crenshaw, Brian J. Rude, Guoyao Wu, Shengfa F. Liao. Effects of dietary lysine levels on plasma free amino acid profile in late-stage finishing pigs. *SpringerPlus* (2016) 5:888, DOI 10.1186/s40064-016-2463-3.
- Mayer, J. J., J. D. Davis, J. L. Purswell, E. J. Koury, N. H. Younan, J. E. Larson, and T. M. Brown-Brandl. 2016. Development and characterization of a continuous tympanic temperature logging (CTTL) probe for bovine animals. *Transactions of the ASABE*. 59:703-714. (DOI: 10.13031/trans.59.11367).
- Gilfeather, CL and **CO Lemley**. 2016. Effects of Interferon-Tau and Steroids on Cytochrome P450 Activity in Bovine Endometrial Epithelial Cells. *Reproduction in Domestic Animals*, *51*, *415–420 (2016); doi: 10.1111/rda.12695.*
- Prezotto, L. D., L. E. Camacho, C. O. Lemley, F. E. Keomanivong, K. A. Vonnahme and K. C. Swanson, J. S. Caton. Nutrient restriction and realimentation in beef cows during early and mid-gestation and maternal and fetal hepatic and small intestinal in vitro oxygen consumption. The Animal Consortium 2015. doi:10.1017/S1751731115002645.
- Ye, G., J. Liu, Y. Liu, X. Chen, **S. F. Liao**, D. Huang, and K. Huang. 2016. Feeding glycerol-enriched yeast culture improves lactation performance, energy status, and hepatic gluconeogenic enzyme expression of dairy cows during the transition period. *J. Anim. Sci.* doi: 10.2527/jas.2015-0021.
- Cline, G. F., A. M. Muth-Spurlock, B. E. Voelz, **C. O. Lemley**, and **J. E. Larson**. 2016. Evaluating blood perfusion of the corpus luteum in beef cows during fescue toxicosis. *J. Anim. Sci.* 94:90-95.
- Brockus, K. E., C. G. Hart, C. L. Gilfeather, B. O. Fleming, **C. O. Lemley** (2016). Dietary melatonin alters uterine artery hemodynamics in pregnant Holstein heifers. *Domestic Animal Endocrinology*, 55, 1-10.
- Kaya, A., **E. Memili**. Sperm macromolecules associated with bull fertility. *Animal Reproduction Science*. (2016), http://dx.doi.org/10.1016/j.anireprosci.2016.02.015
- Hunt, M.R., J.F.Legako, T.T.N. Dinh, A.J.Garmyn, T.G.O'Quinn, C.H. Corbin, R.J. Rathmann, J.C. Brooks, M.F. Miller. Assessment of volatile compounds, neutral and polar lipid fatty acids of four beef muscles from USDA Choice and Select graded carcasses and their relationships with consumer palatability cores and intramuscular fat content. *Meat Science* 116 (2016) 91–101.
- Keomanivong, F. E., C. O. Lemley, L. E. Camacho, R. Yunusova, P. P. Borowicz, J. S. Caton, A. M. Meyer, K. A. Vonnahme and K. C. Swanson. Influence of nutrient restriction and melatonin supplementation of pregnant ewes on maternal and fetal pancreatic digestive enzymes and insulincontaining clusters. *Animal* (2016), 10:3, pp 440–448.

- Brockus, KE, CG Hart, BO Fleming, T Smith, **SH Ward** and **CO Lemley**. Effects of Supplementing Holstein Heifers with Dietary Melatonin during Late Gestation on Growth and Cardiovascular Measurements of their Offspring. *Reproduction in Domestic Animals*. 51, 240–247 (2016); doi: 10.1111/rda.12672 ISSN
- Vasquez, Erick S., Jean M. Feugang, Scott T. Willard, Peter L. Ryan and Keisha B. Walters. Bioluminescent magnetic nanoparticles as potential imaging agents for mammalian spermatozoa. *Journal of Nanobiotechnology.* (2016) 14:20.