

MISSISSIPPI STATE
UNIVERSITY

Animal and Dairy

SCIENCES



News
& Current Events

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• Teaching • Research • Extension • Departmental Activities



New Assistant Professor, Amanda Stone

Dr. **Amanda Stone** is an Extension Dairy Specialist and Assistant Professor at Mississippi State University. Amanda is from Greensburg, Pennsylvania and received her B.S. degrees in Animal Science and Biology from the University of Findlay. She received her M.S. and PhD degrees in Dairy Systems Management from the University of Kentucky. Her Extension efforts will focus on the needs of Mississippi producers in order to help them reach their goals. Her applied research efforts will be focused on evaluating ways to improve dairy areas that can positively affect the whole system, including milk quality, precision technologies, and heat abatement strategies.

Please stop by her office in Wise 4016 to welcome her. You can reach her at 325-8773 or aes784@msstate.edu.

Graduate Seminar

Submitted by Dr. Jamie Larson



We have a full schedule this fall for Friday Graduate seminar. Please come by Wise 4043 on Fridays at 12 noon. Lunch is served, bring your own drink.

September 2	Megan Owen – Evaluating Placental Efficiency as a Breeding Value in Pigs
September 9	Emily Ferjak – Feeding Highly Fermentable Fiber Sources as an Alternative to Starch-Rich Concentrates in Horses
September 16	Shamimul Hasan -
September 23	Casey Durfey -
September 30	Anuraj Sukumaran -
October 7	Liz Caldwell -
October 14	Fall Break – no seminar
October 21	Sarah Allen
October 28	Robyn Thompson
November 4	Racheal Lemire
November 11	Keelee McCarty
November 18	Tucker Wagner
December 2*	Alex Holtcamp

* “Extra” day

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Upcoming Extension Events

Beef Extension – Dr. Brandi Karisch, Cobie Rutherford



- **BQA Meeting:** Sept. 19th in Corinth, MS
- **BQA Meeting:** Sept. 20th in West Point, MS
- **BQA Meeting:** Sept. 29th in Tylertown, MS

Equine Events – Dr. Clay Cavinder



- **Creating a Strong Foundation:** horse riding clinic to ensure a strong foundation of softness and willingness for a more enjoyable horse. Marshall Co. Fairgrounds, Holly Springs MS. **Sept. 10th 9 am - 4 pm.** Registration: \$50 per rider or \$25 to audit. Make checks payable to MSU Animal and Dairy Science Department.

4-H Events – Dr. Dean Jousan



- **Mississippi State Fair:** October 6 - 17



Mississippi State University Horse Judging Team



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Team



ADS CLUBS and ORGANIZATIONS



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Mississippi State University Equestrian Team

2016 Refereed Publications:

- 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 insulin-containing 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.