

• Teaching • Research • Extension • Departmental Activities



Grace Christian School 3rd & 5th Graders with  
Dr. Molly Nicodemus

Courses Dr. Nicodemus teaches:

- Intro to Horsemanship
- Advanced Horsemanship
- Advanced Horsemanship II
- Equine Assisted Therapy
- Equine Behavior & Training
- Equine Conformation & Performance Evaluation
- Advanced Equine Evaluation
- Horse Management
- Horse Show Marketing & Management
- Equine Exercise Physiology

## Early Recruiting for MSU Equine Students

Submitted by Dr. Molly Nicodemus



This week students from Grace Christian School in Louisville, Mississippi got a chance to learn more about horses. Dr. Molly Nicodemus spent Wednesday afternoon with the 3rd and 5th graders from the local elementary school discussing horse identification, care, and training. Students got a chance to handle equipment used in caring and training horses as they asked questions about owning a horse and about college life as an equine student at Mississippi State University. At the end of the presentation, students were asked by Dr. Nicodemus which students planned to go to college at MSU, of which most all students raised their hands. A barn tour with Dr. Nicodemus is being scheduled for students at GCS.

# Dairy Tour



Submitted by **Jessica Graves**

On Thursday afternoon, students from the Child Development and Family Studies Center visited the MSU Dairy for a hands-on learning experience to enhance their lesson on “farm animals” at school this week. The students got to see the entire operation from tractors and irrigation pivots to growing heifers and milking cows. Students were accompanied by their parents (mostly moms) and teachers, who also learned about the daily activities required on the farm.

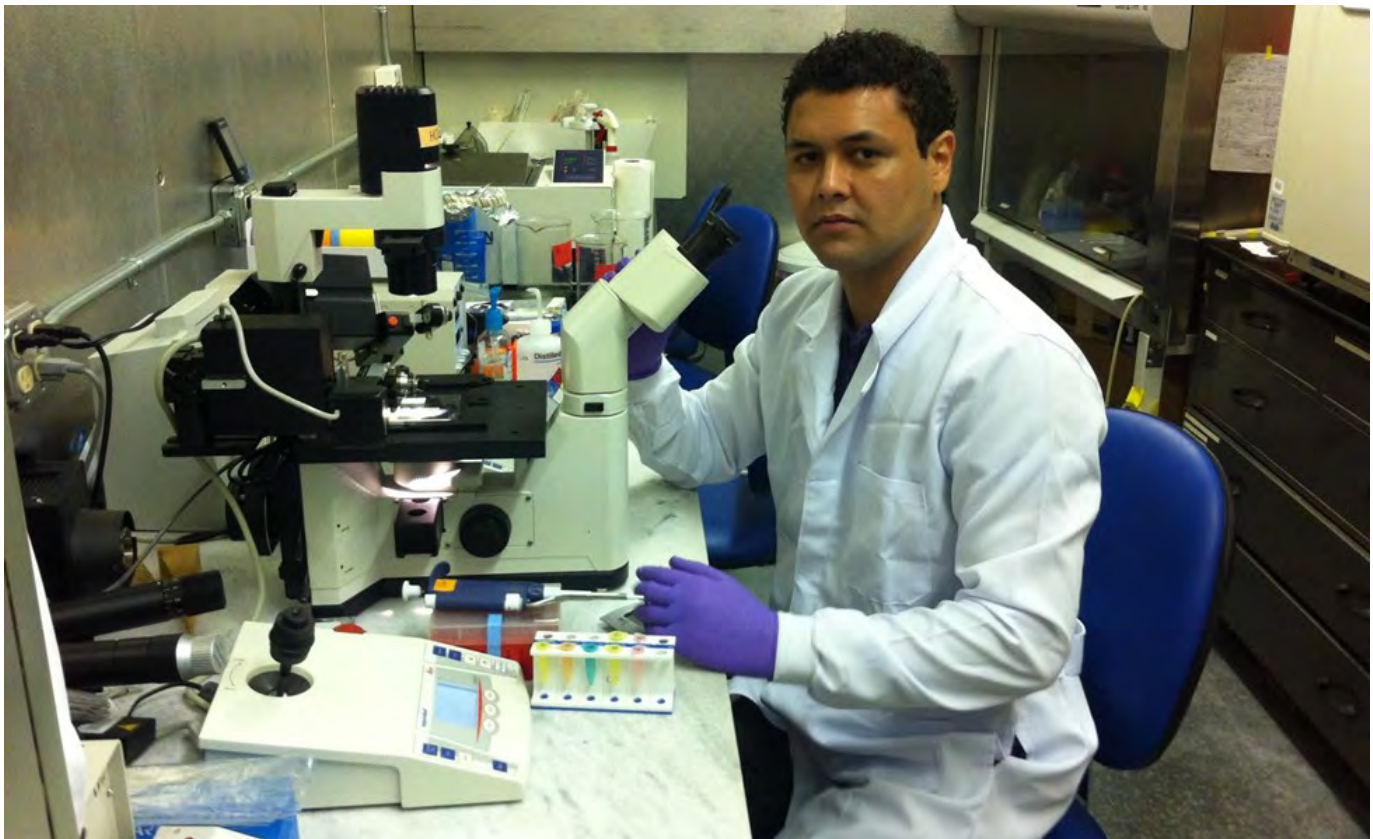
**Kenneth and Jessica Graves** hosted the group, whose son, Bryar, was more than excited to share with his classmates about life on the dairy farm. We look forward to sharing this experience with more young students in the future.



Ms. Kristen Armstrong, teacher, milking a cow for the first time!







Fagner Santos, senior Ph.D. student

## Ph.D. Student Research



Submitted by Dr. Erdogan Memili

Fagner Santos, a senior Ph.D. student at the Federal University of Ceara in Brazil, has just started pursuing part of his dissertation research in Dr. Memili's laboratory at the Department of Animal and Dairy Sciences (ADS). Funded through a competitive fellowship from "Programa de Doutorado Integrado em Zootecnia – PDIZ/UFC and Conselho Nacional de Desenvolvimento Científico e Tecnológico – CNPq", Fagner will conduct research on reproductive biotechnology at MSU for seven months. His research is a collaboration among Drs. Arlindo Moura of the Federal University of Ceara, **Dr. Thu Dinh** and **Dr. Erdogan Memili** in the ADS department.





Wil Moorhead, second year DVM student

## Biophotonics Group



Submitted by **Dr. Jean Feugang**

The Biophotonic Research group is partnering again this summer with the Mississippi State University-College of Veterinary Medicine Summer Research Experience (MSU-CVM SRE) Program by hosting Mr. Wil Moorhead, a native of South Carolina and second year DVM student. Mr. Moorhead is one of 22 students in the 2016 program, designed to inspire talented and motivated students to consider research in their veterinary career. Students are offered approximately 12 weeks of hands-on research experience, from May 3<sup>rd</sup> to July 15<sup>th</sup>.

Mr. Moorhead graduated from Auburn University before enrolling at MSU-CVM, with the goal of pursuing a career in Theriogenology, with a specific interest in large animal. By joining the Biophotonics Initiative Team, the student will have the opportunity to develop research skills in reproductive biology using a variety of cellular, molecular, and bio-imaging analytical tools. This mentored training will culminate with opportunities to develop scientific communication skills through presentations of research findings during the 2016 Meriel-NIH national Veterinary Scholars Symposium (Poster: July 28-31, at the Ohio State University, OH), the CVM Oral presentation forum (Oral: July 15, MSU-CVM, MS), and the CVM Research Day (Oral: August, MSU-CVM, MS).

Mr. Moorhead will be working under the tutelage of **Dr. Jean Feugang** and **Dr. Peter Ryan**. Please join us in welcoming Wil to the Department of Animal and Dairy Sciences. He has been assigned a desk in the graduate office.



*Mississippi State University*  
**Beef Unit**  
 Field Day

- **May 21, 2016**  
**9:00 a.m. - Noon**
- **MSU Beef Unit**  
 60 Beef Unit Road, Mississippi State, MS
- **Featuring**  
 Research program updates  
 Breeding program highlights
- **For More Information**  
[Extension.msstate.edu/content/MSU-Beef-Unit](http://Extension.msstate.edu/content/MSU-Beef-Unit)

**MAKE PLANS TO SPEND THE DAY ON CAMPUS!**

**FARM TOURS**  
 Opportunities to tour the beef, horse, and dairy units after the field day.

**BLOCK AND BRIDLE and JUDGING TEAM ALUMNI MEETING**  
 At the Beef Unit, following lunch.

**BASEBALL**  
 Stick around for baseball at 5:00 p.m. vs. Arkansas! Beef Day at the Ball Park, and an alumni tent will be set up in left field.

**RSVP FOR LUNCH**  
 662-325-3516  
[m.quinn@msstate.edu](mailto:m.quinn@msstate.edu)






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**BLOCK AND BRIDLE CLUB**

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Mississippi State University Livestock Judging Education

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## MSU Staff Appreciation Day

Thank you to all the ADS volunteers that served on the committee, cooked, served lunch and helped make today's Luncheon in the Junction fun for everyone!



Tim Armstrong



James Cannon



Dr. Thu Dinh



Dr. Derris Burnett



Kenneth Graves



Dr. Trent Smith

Thank you to ADS Student Volunteers:

- ▶ Joseph Mangano
- ▶ Tucker Wagner
- ▶ Alex Holtcamp and Katie Cagle Holtcamp
- ▶ Josh Vowell



Caitlin Hart, Lori Jones & Christy Steadman  
 Standing in line for Snow Cones at Luncheon in the Junction

## 2016 Refereed Publications:

- 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.