Special Seminar – Kim Vonnahme, Coordinator

Speaker: Caleb Lemley, Assistant Professor of Reproductive Physiology, Mississippi State University

Topic: Investigating Melatonin Supplementation and Hormone Bioavailability During Pregnancy

Date/Time: Tuesday, October 22; 3:00 p.m.

Location: Hultz 104

Dr. Caleb Lemley is from a small rural community located near Pentress, West Virginia. His interest in physiology started during his undergraduate studies at West Virginia University where he received a B.S. in biochemistry in 2005. Caleb received an M.S. degree in 2007 and a Ph.D. degree in 2010 in reproductive physiology under the direction of Dr. Matthew Wilson from West Virginia University. At WVU, his research focused on nutritional alterations in progesterone catabolic enzyme activity in the lactating dairy cow. He joined Dr. Kim Vonnahme’s lab at NDSU as a postdoctoral fellow in 2010. At NDSU, his research focused on the effect of dietary melatonin supplementation on uteroplacental blood flow.

Dr. Lemley joined Mississippi State University in 2012 as an assistant professor of reproductive physiology. His research there focuses on reproductive endocrinology with an emphasis on hormone bioavailability and function during conceptus development. In addition to research, his teaching responsibilities include Advanced Physiology of Reproduction, Equine Reproduction, and Physiology of Lactation.
Cattle Docs Your Link to All Things Beef Cattle
The NDSU Cattle Docs Web site (http://www.ndsu.edu/cattledocs/) is an excellent resource for information on numerous topics related to beef cattle, including nutrition and feeding, veterinary medicine, nutrition management, beef quality assurance, reproduction, economics, meats, genetics, and range management. Also on the site are archived presentations from meetings, news releases, and recent issues of the Ranch Hand newsletter. In addition, registration for upcoming cattle meetings can be completed on the site.

The Beef Cattle Research Reports, which include research conducted by Animal Sciences faculty and graduate students on campus and at the RECs across the state, are also available on the site. Reports are available from 2004 through 2013.

Cattle Docs was instituted about three years ago as a one stop shop for producers and others in the beef cattle industry to see the “docs” created by the “docs” at NDSU.

BCRC Featured in Publication
The NDSU Beef Cattle Research Complex was featured in the Dakota Farmer on October 10, 2013. The article discuss the state-of-the-art feeding system at BCRC and use in state-of-the-art research. Kendall Swanson and Marc Bauer, along with Julie Ellingson, executive vice president of the North Dakota Stockmen’s Association, were interviewed for the article which is available at http://farmprogress.com/story-ndsu-barn-beefs-cattle-research-9-103269.

Friday Afternoon Club
Drs. Kendall Swanson and Larry Reynolds have developed an Animal Sciences journal club. The plan is to have discussion of a journal article on a current topic each Friday, at 3:00 p.m. The intent of the journal club (Friday Afternoon Club) is to be informative, educational and fun.

Some topics that will be covered include: regulation of hepatic glucose uptake; cancer and glucose (The Warburg Effects); circadian rhythm and metabolism; epigenetic editing; the gut microbiome, non-communicable diseases as the major health issue of the 21st century; Irisin, exercise, muscle, and metabolism.

The club is open to any and all students, faculty, and staff. Watch for announcements of the topic and article to be discussed each week.
Extension Events

- **Certified Wool Classing School**
  - November 23-25, 2013 (8:00 a.m. to 5:00 p.m. MST)
  - Hettinger Armory
  - Topics – Wool fiber growth, development and production, objective measurement of wool; Genetic selection programs; Hands-on wool grading; Wool contamination and handling practices; Wool classing, packaging, labeling and marking; Test for Level 1 certification
  - Instructors – Ron Cole, American Sheep Industry Association wool education consultant, and Lisa Surber, Montana State University wool lab manager
  - $175 per person (includes tuition and materials) – limited to 12 students
  - Registration deadline – November 8, 2013
  - Contact Chris Schauer at 701-567-4323 or Christopher.schauer@ndsu.edu

- **Sheep Shearing School** (for experienced or non-experienced shearers)
  - November 23-25, 2013 (8:00 a.m. to 5:00 p.m. MST)
  - Hettinger Fairgrounds
  - Topics – Professional shearing patterns; Tagging and eyeing; Equipment maintenance and repair; Wool handling and preparation
  - Instructors – Wade Kopren and Mike Hagens, professional sheep shearers; Reid Redden, Extension sheep specialist; and Mike Schuldt, Montana State University Extension agent
  - Registration deadline – November 8, 2013
  - Contact Chris Schauer

Recent Publication

Saddle and Sirloin Club Smoked Turkey Sale – Kaitlyn Ebel

Thanksgiving is just around the corner, and the NDSU Saddle and Sirloin Club is starting its smoked turkey fundraiser. The money received from turkey sales is used to help members attend the National Block and Bridle Conference which is a national leadership conference that teaches leadership skills that can be used in college and into the future.

- Orders must be received by **October 25**
- Cost – $28/turkey (**must pay at time of order**)
- 10-12 pound turkeys smoked in the NDSU Meat Lab
- Turkeys are vacuum packed and ready to be cooked or frozen (cooking instructions included with each turkey)
- Pickup is November 25-27 in Shepperd Arena, between 8:00 a.m. and 5:00 p.m.
- Contact Megan Kortie in Hultz 102
- Questions? Contact Luke Ressler at luke.a.ressler@my.ndsu.edu or Kaitlyn Ebel at Kaitlyn.k.ebel@my.ndsu.edu