Animal Sciences News
Week of February 17, 2013

Graduate Seminar – Rob Maddock Coordinator
Speaker: Ligia Prezotto, NDSU ANSC Graduate Student
Topic: Effects of Nutrient Restriction and Melatonin Supplementation on Maternal and Fetal Hepatic and Small Intestinal Energy Utilization

Speaker: Alison Crane, NDSU ANSC Graduate Student
Topic: Impacts of Supplemental Arginine on Reproductive Performance in Sheep
Date/Time: Friday, February 22, 2013; 3:00 p.m.
Location: Hultz 104

NDSU Judging Club Heifer Raffle – Justin Crosswhite
The NDSU Judging Club, which encompasses the Livestock, Meats and Dairy Judging Teams) is sponsoring a “Luck of the Draw” Heifer Raffle. The registered yearling heifer (Mac Zahara 75Z, registration number 685174) is 5/8 Saler and 3/8 Angus. She was born February 25, 2012, and was donated by MacDonald Ranches of Bismarck, ND.

Tickets are $20 each or $100 for 6. Raffle tickets are available at Holly’s desk in Hultz 102 or by contacting contact Whitney Hansen (701-721-4813) or Kara Scherbenske (701-321-0890). The drawing will be held March 6, 2013. The heifer may be exchanged for a cash prize if you are unable to take the animal.
Caton Receives Appointment – Greg Lardy, Department Head

Dr. Joel Caton has been appointed to a seat on the committee which will develop the newly revised beef cattle nutrient guidelines for the National Academies. The committee is charged with developing the 8\textsuperscript{th} edition of the Beef Cattle Nutrient Requirement Guidelines and updating a variety of materials related to the following guidelines:

- comprehensive analysis of recent research on feeding and nutrition of beef cattle, including research on the amounts of amino acids, lipids, minerals, vitamins, and water needed by growing and reproducing beef cattle;
- a summary of recent research on energy systems used in beef cattle nutrition;
- an update of the nutrient requirements contained in the 1996 NRC publication Nutrient Requirements of Beef Cattle;
- a summary of the composition of feed ingredients, mineral supplements, and feed additives routinely fed to beef cattle;
- a summary of information about coproducts from the biofuels industry, which will include information about the various types of products and their most effective use and information about phosphorus and sulfur contents;
- a review of nutritional and feeding strategies to minimize nutrient losses in manure and reduce greenhouse gas production; a discussion of the effect of feeding on the nutritional quality and food safety of beef;
- new information about nutrient metabolism and utilization (e.g., rumen bypass of protein and lipids, nutrient encapsulation, and starch processing);
- new information on feed additives that alter rumen metabolism and post-absorptive metabolism;
- future areas of needed research.

Depending on the extent of new information available, an update of the current computer model to calculate nutrient requirements may be developed.

The Animal Science Undergraduate Student Scholarship applications are due **February 28, 2013 at 5:00 p.m.** The form is available at Holly’s desk in Hultz 102. Please remind qualified students to apply!