Final Defense Seminar
Speaker: Roza Yunusova, Research Specialist
NDSU Animal Sciences

Topic: Effects of Maternal Nutrition, Intrauterine Growth Restriction (Iugr), and Estrogen (E2) Supplementation on Placental and Fetal Intestinal Growth and Development in Sheep

Date: Tuesday, June 19, 2012
Time: 9:00 a.m.-10:00 a.m.
Location: Hultz Hall, Room 104

Ms. Roza Yunusova is originally from Kyrgyzstan (formerly part of the Soviet Union). Roza graduated from Minnesota State University, Moorhead in May 2009 with a B.S. degree in Biology and a minor in Chemistry. Roza first came to NDSU in August 2004 as a one-year exchange student. She returned to NDSU in August 2009 to work toward her Master’s degree. Roza’s research interests are in nutritional physiology and physiology of reproduction. She is currently working under the direction of Drs. Joel Caton and Dale Redmer. In August of 2012 Roza will be starting medical school at the University of North Dakota School of Medicine and Health Sciences.

All interested parties are invited to attend the seminar.
Caton travels to Germany and Madagascar – Joel Caton

In late April and early May, Joel Caton, Professor in Animal Sciences, traveled to Germany and Madagascar. In Berlin, Dr. Caton provided lectures within the “Guest Lecture Series of the Graduate Programme; Hormonal Regulation of Energy Metabolism, Body Weight and Growth.” This international lecture series was established in 2005 by the German Research Council within the Graduate College at the Humboldt and Free University of Berlin and is held in conjunction with the Institut für Experimentelle Endokrinologie Charité Universität medizin. Dr. Caton presented an invited lecture entitled “Impact of Maternal Nutrition and Selenium Supply on Growth, Development, and Health Status in Offspring with a Focus on Vascularity of Key Nutrient Transferring Tissues.” He also presented a brief workshop on animal models of developmental programming with an emphasis on maternal nutritional models developed in sheep at NDSU. Dr. Josef Köhrle, the scientist who invited Dr. Caton, is the Director of the Institute for Experimental Endocrinology at Charité Hospital in Berlin which is a state-of-the-art molecular endocrinology laboratory with a focus on thyroid and selenium metabolism.

After the invited lecture series in Germany, Dr. Caton headed for Madagascar for both professional and personal reasons. Professionally, this trip contained some exploratory efforts toward joint study programs with university students. On the personal side, there was time for vacation and visiting with his daughter, Rebekah, who is currently working with the Peace Corps in Madagascar. Rebekah’s responsibilities with the Peace Corps are teaching English as a second language, organizing curriculum, structuring learning opportunities, and generally working to increase the overall level of education in any way she can. The time in Madagascar was very enriching culturally as it provided first-hand observations with someone who both understands Madagascar language and culture and who can relate well to Americans from North Dakota.

Both the time in Germany and Madagascar were professional and personally fulfilling. Below are some photographs. Only ones from Madagascar are included as most people find the inside of lecture halls and laboratories of less interest than island nations in the Indian Ocean.

Photos by Joel Caton:
Joel and Rebekah Caton
Buying breakfast on the road
The rainforest
Photos by Joel Caton:
Rebekah’s classroom; Looking through the doorway
Village life; Cattle on the edge of the southern grasslands
The southern grasslands; Chameleon in the rainforest
**Spring Semester Dean’s List** – Registration and Records

The following 72 students completed Spring Semester 2012 with a 3.50 or above average and completed at least 12 credits with honor points to earn their place on the Dean’s List.

Beth K. Aakre, VETS
Elizabeth H. Anderson, ANSC
Laura A. Anderson, VETS
Julie M. Ault, VETS
Laura A. Bachmeier, ANSC
Hannah J. Bakke, ANSC
Loren L. Baranko, ANSC
Justin D. Bartholomay, ANSC
Amanda B. Bierma, ANSC
Crystal L. Bosek, VETS
Morgan L. Boyum, VETS
Kara A. Burrer, ANSC
Erin N. Christ, ANSC
Taylor M. Cymbaluk, ANSC
Jessica J. Davis, ANSC
Sarah A. Dodge, Equine
Kenya Buchsherer, ANSC
Kelsie A. Egeland, Equine
Sarah L. Kropp, VETS
Rachael A. Lagein, ANSC
Emily M. Larson, VETS
Lara E. Larson, VETS
Kathryn A. Law, VETS
Mattia A. Lein, ANSC
Amanda K. Leingang, VETS
Tatianna M. Letcher, Vets
Kassandra L. Lubitz, Equine
Tiana N. Lynne, ANSC
Alyssa J. McKinney, VETS
Logan J. Metzen, ANSC
Tiffani A. Meyhoff, VETS
Allison M. Mustonen, ANSC
Brandon M. Neilly, VETS
Ellen A. Nere, ANSC
Heather J. Olek, ANSC
Samantha J. Pollestad, VETS

Callie A. Eisenbeisz, VETS
Nicole N. Engraf, VETS
Marcy R. Fell, ANSC
Briana L. Ferguson, ANSC
Alexandra R. Frolek, VETS
Haley M. Furchner, ANSC
Jenna L. Gross, ANSC
Krista R. Gross, ANSC
Bradley J. Hagen, ANSC
Jill A. Hallin, ANSC
Amanda L. Hanson, VETS
Katherine M. Hanson, VETS
Beth T. Hendrickx, ANSC
Amanda D. Herman, VETS
Sherlynn M. Human, ANSC
Angela B. Johnson, ANSC
Abby A. Knoll, ANSC
Marcie R. Kohler, VETS
Kelsey T. Prellwitz, VETS
Crystal M. Renner, VETS
Janna M. Rice, Equine
Taylor R. Rix, VETS
Elizabeth M. Sauer, VETS
Cambria S. Slabbaugh, Equine
Byron L. Sletto, VETS
Katherine L. Sorensen, ANSC
Jessie H. Steward, ANSC
Natalie A. Sturlaugson, VETS
Carlene J. Ternes, VETS
Kacey L. Thielbar, Equine
Jennifer J. Thomas, VETS
Jacey L. Vetter, VETS
Christine R. Wanner, ANSC
Kelsey M. Warren, VETS
Nicole L. Wieczorek, VETS
April R. Wiedrich, VETS
Maddock to Receive Distinguished Achievement Award – American Meat Science Association news release, June 11, 2012, information@meatscience.org

Dr. Robert Maddock, Associate Professor of Animal Sciences, will be presented with the American Meat Science Association’s Distinguished Achievement Award at the Reciprocal Meat Conference awards banquet on Tuesday, June 19, at the Fargodome. Dr. Maddock is one of three individuals nationally who will receive the award this year.

The award was established in 1992 by AMSA and is designed to recognize and foster the development of young AMSA members who have demonstrated significant scientific skills in muscle foods research and technology that contribute to the animal products industry and the AMSA. The award is sponsored by Burke Corporation.

Dr. Maddock has been in the Department of Animal Sciences since 2006. “He is heavily involved in teaching courses in meat processing, meat evaluation, food safety, and HACCP. His duties include teaching in the classroom as well as over the internet. Dr. Maddock serves as the co-director for the Beef Systems Center of Excellence, which is designed to grow the state’s meat processing and cattle feeding industries. He has worked with a number of graduate students, serving as chair, co-chair, or committee member. His grantsmanship and collaboration shows his dedication to serving not only the citizens of North Dakota, but also the nation.”

“Dr. Maddock’s publication record is strong and displays the breadth and depth of his capabilities in conducting and reporting research in animal and meat science. It is clear that Dr. Maddock represents someone who understands the multiple missions of the university and the need to be a great teacher, outstanding researcher, and a dedicated public servant.”

Sheri Dorsam Joins Staff

Sheri Dorsam joined the staff of Animal Sciences on June 12 as the Histology and Bioassay Laboratory Coordinator.

Sheri grew up in Virginia and graduated with a B.S. in Biology from the College of William and Mary. She earned her Ph.D. in Microbiology and Immunology from Virginia Commonwealth University. Her research project was to study the transcriptional regulation of the two murine low affinity IgE receptors in B lymphocytes.

While at VCU, Sheri met her husband Glenn Dorsam. After graduate training, they moved to San Francisco, California, to complete post-doctoral fellowships at the University of California, San Francisco. At UCSF, Sheri identified gene targets of the HOXA9 transcription factor in human leukemic cell lines using DNA microarray technology, and studied HOXB13 expression in normal and malignant human prostate tissue.
In 2004, the couple moved to Fargo, as Glenn received an Assistant Professor position in the NDSU Department of Chemistry and Biochemistry. From 2004 to 2008, Sheri managed the NDSU Core Biology Facility in the Center for Protease Research. For the past four years, she worked part-time in Glenn’s lab identifying the transcriptome of vasoactive intestinal peptide in murine T cells, and taught Introduction to Microbiology online for the Regents Online Degree Program for the State of Tennessee.

The Dorsams live in south Fargo with their two children, Joshua (6) and Ava (3), and their three cats, “Han” Solo, Luke” Skywalker, and “Obi” Wan Kenobi.