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Animal Science Newsletter

Department of Animal Science

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10-30-2014

## News of the Department of Animal Science

Department of Animal Science

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# News of the Department of Animal Science

South Dakota State University

10/30/2014

Volume 34, Issue 3

## Welcome



- To **Sara Tanner** who began employment on August 2 as Equine Instructor. She completed her PhD at the University of Kentucky in Animal and Food Sciences. Sara and husband Cody Mastellar live in Brookings.

-To **Reid McDaniel** who began employment on September 2 as an Assistant Professor/Extension Beef Feedlot Specialist. Most recently Reid was employed as a consulting feedlot nutritionist for Nutrition Service Association in Queensland, Australia. Also, welcome to his wife Becky, children Cooper and Charlie.



- To **Ron Skovly** who joined our department this fall. He has been the SDSU Rodeo Program Coach for six years. Ron, his wife Penny and daughter Hannah Jo live on an acreage outside Brookings.

-To **Judy Carlson** who joined our department on October 20 as a Senior Secretary. She has four children and two grandchildren and resides on a farm with her husband, Brian, near Lake Preston.



- To new graduate student **Maverick Fiene**, pictured left, from Echo, MN. He began his graduate studies in swine nutrition in August with advisor **Dr. Bob Thaler**. Maverick received his BS from SDSU in May, 2014.



- To new graduate student **Emmalee Northrup**, pictured right, from Lansing, MI. She began her graduate studies in reproductive physiology in August with advisor Dr. George Perry. Emmalee received her BS from Michigan State University in 2013.



- To new graduate student **Jessica Reiners**, pictured left, from Muscatine, IA. She began her graduate studies in ruminant nutrition in August with Dr. Jeff Held and Dr. Derek Brake. Jessica received her BS from Iowa State University in May, 2014.



- To new graduate student **Heather Rode**, pictured right, from Doss, TX. She began her graduate studies in meat science in August with **Dr. Keith Underwood**. She received her BS from Texas Tech University in May, 2014.



## Congratulations!



-To **David Anderson**, Class of 1966, on being chosen 2014 Class of Distinguished Alumni at SDSU, Service to SDSU. After serving as an Army pilot, the bulk of David's career was in the research division of Elanco. In retirement he has sculpted 8-ft tall bronzes of Weary Wil and Dirty Lil which are located outside of the SDSU Student Union. He also created a bronze plaque of **Rick and LaRayne Wahlstrom**. The plaque is displayed in the Wahlstrom Conference Room in Animal Science.

## Upcoming events



**December 10-12, 2014** SDSU  
Sheep Shearing School

**January 5-6, 2015** Northern  
States Beef Conference,  
Morton, MN

**January 17, 2015** Lamb Bonanza

**January 31, 2015** Pork Classic

**March 15-19, 2015** ASAS  
Midwestern Section Meetings,  
Des Moines, IA

**March 27-28, 2015** Little "T"

**May 9, 2015** SDSU Graduation



- To **Erin Larimore** on a successful M.S. defense in Reproduction Physiology on August 19. Her thesis is titled *Changes in ovarian function associated with circulating concentrations of estradiol during the preovulatory period and its influence on sperm transport and embryonic development* with **Dr. George Perry**, advisor.



- To graduate student **Erin Larimore, Drs. Derek Brake and George Perry** who received the ABS Undergraduate Engagement Award: *Does inosine 5'-monophosphate synergistically enhance small intestinal mucosal secretions of cholecystokinin to glutamate in cattle?*



- To undergraduate student **Jacob Koepke and Dr. Crystal Levesque** for receiving a Griffith Undergraduate Research Award: *Effectiveness of glucagon-like peptide 2 (GLP-2) and epidermal growth factor (EGF) in stimulating small intestinal adaptation in a baby pig model of human infant short bowel syndrome (SBS).*

-To undergraduate student **Christina Fehrman and Dr. Stacy Scramlin** who received the ABS Undergraduate Engagement Award: *Evaluation of the significance of the Maillard browning reaction and flavor development in beef steaks.*



-To **Dr. Keith Underwood** who was recognized in 40 Under 40 Award program by Vance Publishing Corporation Agribusiness Group as one who is making a significant contribution to America's food system.

- To **Dr. Rebecca Bott** who received an award for Outstanding Advisor at the College of Agriculture and Biological Sciences Scholarship Banquet September 24.



-To former Range Management Outreach Coordinator **Kyle Schell** on his marriage to Carrie Buchholz on August 16 at his ranch on the banks of the Cheyenne River. Carrie grew up in Philip and is a graduate of Chadron State.

-To faculty member **Dr. Stacy Scramlin** on her marriage to Bryan Zuelly on September 20 in Davisburg, MI. Bryan works as an information technologist in Mitchell.



## Condolences



-Are expressed to the family of **Delwyn Dearborn** who passed away in Brandon, SD on August 20. Dr. Dearborn served as the Dean of the SDSU College of Agriculture and Biological Sciences from 1974 to 1985 and was formerly a member of the Animal Science faculty as well as department head from 1971-74.

-Are expressed to **Deon Simon** on the passing of her father, Charley J. Simon, on July 31 in Brookings. He had been a mechanic/welder at Ellsworth Air Force Base and lived in New Underwood most of his life.

## News from Research/Teaching Facilities



On October 3 more than 200 people, including producers from neighboring states, attended groundbreaking for the Swine Education and Research Facility north of campus. Swine Club president **Caitlyn Brandt, Dean Barry Dunn, SD Secretary of Agriculture Lucas Lentsch, Governor Dugaard, Heartland Pork Representative Dave Uttecht and President Chicoine** are pictured with the groundbreaking shovels. Thank you to all state and industry supporters.

SDSU Beef Bowl was held September 20 under the big tent near Coughlin Alumni Football Stadium. **Dr. Cody Wright** coordinated the event with assistance from Animal Science faculty, staff and students. They fed sliced BBQ beef sandwiches, beans, chips and ice cream to approximately 2000 people. Twenty beef bundles were auctioned during the meal and two steers were sold during the football game. Moneys raised will fund scholarships in the Animal Science and Athletic Departments.



Brookings hosted the South Dakota Sheep Growers 77<sup>th</sup> Annual Convention on September 26-27. **Dr. Jeff Held**, Sheep Unit Manager **Ann Kolthoff** and Meat Lab Manager **Adam Rhody** assisted with workshops held in the SDSU Meat Lab and Animal Science Arena. An "Experience Lamb" reception was held at McCrory Gardens Visitor Center on Friday night. Saturday's agenda included industry updates, recognition of SD Master Lamb Producers at a noon luncheon and concluded with an auction, "Make It With Wool" style show and banquet. At the auction, **Dr. Joe Cassady** became the proud owner of a wool wall hanging created by Barb Uhrig, Shepherds Pride, Newell, SD.

SDSU Horse Unit was host to the SDSU Horse Club Petting Zoo on October 11. Children, parents and others enjoyed the beautiful day by viewing and learning about a variety of animals in the barn stalls (pictured below). Faculty members **Drs. Rebecca Bott, Sara Tanner, Michael Gonda** and Horse Unit Manager **Jen Eide**, as well as Horse Club members assisted with the animals. Many children were thrilled with the experience of riding a horse. Featured animals include a Muscovy duck, Golden-Laced Wyandotte chickens, Cavy, a miniature cow and a camel.



## News.....

**Drs. Rebecca Bott and Sara Tanner** were involved in organizing a workshop titled "Best Management Practices for Horse Owners" held at SDSU on August 16. This educational program featured eight experts from five national equine programs and was attended by horse owners of small acreages, stable managers, hobbyists and anyone interested in caring for their horses while taking care of the land.

**Joshua Cribbs** and the SDSU Livestock Judging Team hosted the second annual "Battle of the Borders" contest on October 18. Teams from ND, SD, NE, IA and MN were invited to attend.

**Dr. Keith Underwood** was instrumental in organizing the Des Moines District Food Safety Summit held in Sioux Falls October 21. He gave a presentation on "Jerky Guidelines". Fifty people attended from six states. The Summit was intended for those interested in food safety and public health and was attended by industry representatives, public health officials and regulatory agency personnel.



The international travel classes from the College of Agriculture and Biological Sciences were represented in the Hobo Day Parade on October 25. The float followed the Hobo Day theme “Never Stop Wandering” and featured a large globe. Rider participants were College of Agriculture and Biological Sciences **Dean Barry Dunn** and **Dr. Michael Gonda**. **Doug** and **Cheryl Beste** enjoyed the parade.



## International Travel



**Dr. Rebecca Bott** was invited to present at the 7<sup>th</sup> International Colloquium on Working Equids in Royal Hollow, University of London June 30-July 4. Dr. Bott’s presentation was titled *Community-based participatory research interfaced with equine welfare assessment to learn about working equids and their owners in Vera Cruz, Mexico*. Dr. Bott was chosen to present to HRH Princess Anne while at the meeting. While in England, she networked with colleagues worldwide and attended a follow-up workshop in Sidmouth, England at the headquarters for the World Donkey Sanctuary.

**Dr. George Perry** and graduate student **Erin Larimore** attended the August 25-29 International Ruminant Reproduction Symposium in Obihiro, Japan on August 25-29. Dr. Perry presented a poster titled *Identification of changes in bovine oviductal mRNA expression by RNAseq from animals with high and low circulating estradiol concentrations during timed artificial insemination*. Ms. Larimore presented a poster titled *Association of circulating concentrations of estradiol during the preovulatory period and expression of steroidogenic enzymes in beef cows*.

**Dr. Bob Thaler** traveled to Tokyo, Japan on September 6-9 to attend the US Meat Export Federation Conference. He gave a presentation to an international trade group.



**Dr. Elaine Grings** traveled to China Agricultural University in Beijing, China September 14-October 1. While there she presented lectures which included research updates. She visited Professor Hailing Luo and her students at State Key Laboratory of Animal Nutrition, College of Animal Science and Technology, China Agricultural University.



**Dr. Bob Thaler** was an invited speaker at the 3<sup>rd</sup> Annual Leman China Swine Conference on October 15-20. This exhibition and educational event was intended to provide science-driven solutions for the global swine industry.

**Dr. Rebecca Bott** attended an Equitarian Workshop in Grarada, Nicaragua on October 19-26. Her presentation at the workshop was titled *Initiating an Equitation Project on American Indian Reservations in South Dakota*. Dr. Bott and others provided health care and education to owners and their horses in developing areas of Nicaragua. SDSU graduate **Angie Gebhart** led educational activities for youth. They also collected data for a pilot project investigating consistency and accuracy of body condition scoring working equids using the Henneke scale.



## More Travel Notes

### **May 13-14 Ranch Sustainability Forum in Sheridan, WY**

**Dr. Elaine Grings** attended *Impact Beef Production in the Future*.

### **May 19-21 NCERA-57 Meeting in Lincoln, NE**

**Dr. Jeff Clapper** presented research updates

### **May 20-22 NCCC 308 Annual Meeting in Wooster OH**

**Dr. Robbi Pritchard**, committee member, gave research updates. Post Doc **Anna Taylor** also attended.

### **May 28-30 WERA-1 Research Committee, College Station, TX**

**Dr. Michael Gonda** presented cattle breeding research.

### **June 4-5 World Pork Expo in Des Moines, IA**

**Dr. Bob Thaler** attended industry sessions and committee meetings.

### **June 10-11 NCERA-214 Committee Meeting, University of Rhode Island, in Kingston, RI**

**Dr. Jeff Held**, committee member, presented *Increased Efficiency of Sheep Production*.

### **June 15-18 Reciprocal Meats Conference in Madison, WI**



**Drs. Keith Underwood, Stacy Scramlin, and Amanda Blair**, graduate

students **Mo Jia, Jesse Fulton, Darcy Burton, Kaleigh Kerns, Jarrod Bumstead, Simon Kerns**, undergraduate students **Christina Fehrman, Samantha Berg, Josh Kirchenbauer, Desiree King, Jesse Topel, Kayla Johnson**, and Meat Lab Manager **Adam Rhody** attended to present research, and to compete in Quiz Bowl and Iron Chef Competition

### **June 18-21 Beef Improvement Federation Convention in Lincoln, NE**

**Dr. Joe Cassady**, Executive



Director of BIF, attended as well as **Dr. Michael Gonda** and graduate

students **Jamie Parham, Stephanie Perkins** and **Kara Marley**.

### **June 19-21 American Association of Meat Processors Convention in Milwaukee, WI**

**Dr. Keith Underwood** attended Education/Training Committee meeting and Meat Lab Manager **Adam Rhody** learned new processing techniques.

### **June 25-27 American Society of Animal Science Western Section Meeting in San Angelo, TX**

Graduate student **Jesse Fulton** presented a poster titled *Effects of Zilperterol Hydrochloride supplementation on growth performance, carcass characteristics and Production economics of steers differing in biological type*.

**Dr. Ken Olson** also presented a poster.

### **July 18-21 Society for the Study of Reproduction Meetings in Grand Rapids, MI**

Graduate student **Erin Larimore** presented a poster titled *Administration of exogenous gonadotropin-releasing hormone to alter circulating concentrations of*

estradiol prior to a GnRH-induced ovulation in beef cows.



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### July 20-24 National Animal Science Meetings in Kansas City, MO

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**Dr. Elaine Grings** presented *Nitrogen excretion from beef cattle for 6 cover crop mixes as estimated by a nutritional model.*

Graduate student **Adolph Sacky**, presented *Comparison of camelina meal and DDGS in the diet of replacement beef heifers.*

Graduate student **Stephanie Perkins** presented *Microarray Studies in High and Low RFI Cattle Reveal a Potential Role for Gonadotropin Releasing Hormone (GnRH) in Regulating Feed Efficiency*

Graduate student **Brittany Richardson** presented a poster titled *Meta-analysis of the effect of estrus expression before fixed-time AI on conception rates in beef cattle.* This poster was selected as one of the 2014 President's Picks.

Graduate student **Steve Crego** presented a poster titled *Effect of timing of artificial insemination and estrus expression using sexed semen on pregnancy rates in Holstein dairy cows.*

Post Doc **Anna Taylor** presented a poster titled *Maternal energy status during mid-gestation affects the immune response in the resultant beef offspring.*

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### August 14-16 NE1041 Committee Meeting, Brookings, SD

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**Dr. Rebecca Bott** hosted the USDA multi-state group NE1041



"Environmental Impacts of Equine Operations". Attendees from UMN, Rutgers, Virginia Tech, Penn State, University of Vermont and SDSU joined in the two day workshop and a Saturday outreach event. **Dr. Sara Tanner** also participated.

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### October 5-7 Innovate 2014: Global Food in Brainerd, MN

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**Dr. Julie Walker** and graduate student **Agatha Ampaire** learned about new research on protein production to meet global food demand.

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### October 22-24 2014 Roy A. Wallace Symposium on Bovine Reproduction in Columbus, OH

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**Dr. George Perry** presented data on recent research projects and discussed collaborative projects to improve reproductive efficiency in the US beef herd.

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