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Animal Science Newsletters

Department of Animal Science

Summer 2020

Animal Science Department News

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Animal Science Department News

Dates of Interest:

August 19: Classes begin

November 25-27: Thanksgiving Break

December 2-4 & 7-8: Final Exams

Welcome Extension Field Specialist:



We welcome **Kiernan Brandt** as Cow/Calf Extension Field Specialist. **Kiernan** joined us June 22 in Watertown.

We welcome **Jaelyn Whaley** as Sheep Extension Field Specialist. **Jaelyn** will join us September 9 in Rapid City.



Welcome New Faculty:



We welcome **Dr. Kelly Froehlich** as Assistant Professor/Extension Specialist in Small Ruminant Production. She graduated with two B.S. degrees in Animal Science and Agricultural Education (2014) from the University of Minnesota and a M.S. in Dairy Science (2016) from South Dakota State University. She received her Ph.D. August 2020 in Animal Science at Lincoln University in New Zealand.

We welcome **Dr. Jameson Brennan** as Assistant Professor Research and Extension Specialist Livestock Grazing. **Dr. Brennan** will join us August 24 in Rapid City.



Welcome New Graduate Students:

Hannah Miller received her B.S. in Agriculture, Major in Animal Sciences and Industry, Pre-Veterinary Option in May 2020 from Kansas State University. She is pursuing her M.S. degree in Swine Nutrition with **Dr. Crystal Levesque**.



Thomas Hamilton received his B.S. in Animal Science and production in May 2020 from the University of Idaho. He is pursuing his M.S. degree in Ruminant Nutrition with **Dr. Zach Smith**.

Clay Newton received his B.S. in Animal Science from South Dakota State University in December 2019. He is pursuing his M.S. degree in Meat Science with **Dr. Amanda Blair**.



Alexandria Kelly received her B.S. in Animal and Veterinary Science from the University of Idaho in May 2020. She is pursuing her M.S. degree in Beef Nutrition with **Dr. Michael Gonda** and **Dr. Cody Wright**.



Marissa LaRosae received her B.S. in Animal Science (Production) from Purdue University in May 2020. She is pursuing her M.S. degree in Swine Nutrition with **Dr. Ryan Samuel**.



Yesid Garavito Duarte received his B.S. from Univesidad Nacional de Colombia in 2017. He is pursuing his M.S. degree in Swine Nutrition with **Dr. Crystal Levesque**.

Congratulations :

The Plains Nutrition Conference was originally scheduled for early April. Although the PNC meeting was canceled, the poster committee evaluated posters and interviewed the top seven students. **Dr. Zach Smith** was the only Principal Investigator with two students selected to be in the top seven. The top five posters were recognized. Ph.D. student **Warren Rusche** won the competition with his presentation entitled "*Evaluation of KWS Hybrid Rye on Growth Performance, Carcass Traits, and Efficiency of Net Energy Utilization in Feedlot Finishing Steers*". M.S. student **Elizabeth Buckhaus** placed 4th with her presentation entitled "*Effect of Inclusion Rate of Silage with or without the Presence of Alpha-amylase on Growth Performance, Carcass Characteristics, and Agronomic Efficiency Measures*."

Graduate student **Austin Egolf** presented a seminar entitled "*Feeding Increasing Levels of Reduced-Oil Distillers Dried Grains with Solubles from Two Ethanol Fermentation Methods Impacts Pig Growth Performance and Belly Quality*" prior to his successful M.S. defense on April 30.

Graduate student **Bradie Schmidt** presented a seminar entitled "*Partitioning Variation in Measurements of Beef Carcass Traits Using Ultrasound*" prior to her successful M.S. defense on April 30.

Graduate student **Kevin Jerez Bogota** presented a seminar entitled "*Optimization of Conditions for Heat Pretreatment and Enzymatic Predigestion of DDGS for Pigs*" prior to his successful M.S. defense on May 18.

Graduate student **Christina Bakker** presented a seminar entitled "*Impacts of Postweaning Management Strategies on Beef Carcass Characteristics and Meat Quality*" prior to her successful Ph.D. defense on May 22.

Graduate student **Joe Wollbrink** presented a seminar entitled "*The Effect of Triptorelin on Ovulation Rate and Conception Rate in Gilts and the Endocrine Profile in Non-Pregnant and Early Pregnant Gilts*" prior to his successful M.S. defense on June 8.

Graduate student **Lily Hernandez** presented a seminar entitled "*Evaluating the Effects of Yeast Cell Wall Component, Phytochemical Oil, and Vitamin Stereoisomer on Sow Antioxidant Status and Growth Performance of Dam and Offspring*" prior to her successful M.S. defense on June 26.

Graduate student **Jerica Rich** presented a seminar entitled "*Characterization and Effects of Systemic and Ovarian GnRH in Beef Cattle*" prior to her successful Ph.D. defense on July 21.

Graduate student **Tiffany Bruhn** presented a seminar entitled "*Impact of Altering Lys:Energy Ratio During Gestation on Sow Productivity, Piglet Robustness, and Piglet Post-Wean Growth Performance*" prior to her successful M.S. defense on July 22.

Graduate student **Jessica Janssen** presented a seminar entitled "*Characterization of Bison Harvest and Finishing Systems: Effects on Carcass and Meat Quality Characteristics*" prior to her successful M.S. defense on August 14.

Graduate student **Samantha Egolf** recently completed the Certificate of College Teaching Development – Foundational Knowledge. She will be recognized at the GTA Orientation in August 2020, and then formally recognized at the Certification Ceremony in the spring of 2021.

It's a girl! Riley Nicole was born to Bryan and **Stacy Zuelly** (former Assistant Professor in Meat Science) April 20, 2020. She weighed 6lbs 13oz and was 19.25" long. She joins her big sister Bailey at home.



Kevin Eric was born to Jason and **Kaleigh (Kerns) Schomacker** (former Meat Science graduate student) May 24 (on his dad's birthday!). He weighed 7lbs 7oz and was 21 inches long.



Paisley Christine was born to Ashley and **Louis K. Muench** (former Meat Science graduate student) on August 7, 2020. She was 6lb 11oz and 19 3/4 inches long. She is welcomed home by two big sisters.



Caroline Grube and graduate student **Clay Newton** were married on June 13 in Echo, MN. Clay is pursuing his M.S. degree in Meat Science and Caroline is teaching 3rd grade at Marshall Public Schools, Marshall, MN.



Cody Hoyes and **Natalie Howard** (Animal Science Academic Advisor) were married June 27, 2020 in Brookings, SD. The couple lives on an acreage near Arlington, SD.



Shyan Womack (SDSU Financial Aid Assistant) and Assistant Professor **Dr. Zachary Smith** were married August 1 in Roby, TX.

Caden Wright son of **Dr. Cody Wright** graduated from Brookings High School. He will be attending SDSU this fall.

Jacob Carlson and Nick Carlson, sons of **Judy Carlson** (Animal Science Senior Secretary) graduated from Lake Preston High school. Jacob will be attending Lake Area Tech and Nick will be attending DSU this fall.

Emily Nold, daughter of **Dr. Rosie Nold** graduated from ORR (Oldham, Ramona, Rutland) High School. She will be attending SDSU this fall.

Lane Vander Wal, son of **Kevin Vander Wal** (CCERF Manager) graduated from Sioux Valley High School. He will be attending Wayne State College this fall.

2020 South Dakota Leopold Conservation Award:

Professor/Extension Specialist **Dr. Amanda Blair**'s family receives prestigious award:

Blair Brothers Angus Ranch of Sturgis has been selected to receive the 2020 South Dakota Leopold Conservation Award. It recognizes private landowners who inspire others with their dedication to the land, water and wildlife resources in their care.

"Leave it better than you found it" is more than a familiar motto. It describes the land ethic that drives this South Dakota cattle ranching family.

Brothers Ed and Rich Blair, and their sons Chad and Britton are the namesakes of Blair Brothers Angus Ranch. The cow-calf, stocker and feed lot business spans



Blair Family:
Dr. Blair pictured 2nd from right.

40,000 acres of deeded and leased rangeland near the Black Hills of western South Dakota. Embracing conservation practices that enhance soil, water, livestock and wildlife has allowed the ranch to evolve and grow with each generation since Enos Blair established it more than a century ago.

Today, in addition to providing leadership to livestock and general agriculture organizations, the family has formed working partnerships with local, state and national agencies and organizations to learn new conservation practices.



Christina Bakker and **Lydia Hite** both earned first place during the 66th International Congress of Meat Science and Technology/73rd Reciprocal Meat Conference ePoster Competition. On August 3-6, 2020 the 66th ICOMST and 73rd RMC was held virtually. Prior to the conference several SDSU graduate students in the ePoster competition recorded their poster presentation and participated in a live question and answer session with judges through an online platform. Sixty-four students from 37 various universities (both from the US and International) participated in the competition.

COMPARISON OF WINTER COW FEEDING STRATEGIES ON OFFSPRING CARCASS CHARACTERISTICS AND MEAT QUALITY

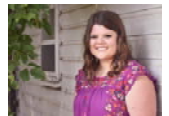
Erin Gubbels, Robin R. Salverson, Cody L. Wright, Kristi M. Cammack, Jerrad F. Legako, Zachary K. Smith, J. K. Grubbs, Keith R. Underwood, Kenneth C. Olson, Amanda D. Blair. *Presented by Erin Gubbels* - This abstract received the Chairman's Selected Abstract Award and was a featured abstract in the Improving Productivity Session.

HEAVIER BEEF HOT CARCASS WEIGHTS IMPACT SENSORY TRAITS

Samantha Egolf, Jessica Janssen, Ryan Cox, Austin Egolf, Heather Rode, Lydia Hite, Christina Bakker, Amanda Blair, Judson Grubbs, Keith Underwood. *Presented by Samantha Egolf*

INFLUENCE OF CARCASS CHILLING SYSTEM ON CHUCK, LOIN AND ROUND TEMPERATURE DECLINE

Lydia M. Hite, Christina E. Bakker, Trevor C. DeHaan, Amanda D. Blair, Keith R. Underwood, Judson K. Grubbs. *Presented by Lydia Hite*



INCREASED INTERNAL TEMPERATURE IN HEAVY BEEF CARCASSES INFLUENCES PRODUCT QUALITY

Samantha Egolf, Austin Egolf, Heather Rode, Lydia Hite, Christina Bakker, Amanda Blair, Keith Underwood, Judson Grubbs. *Presented by Samantha Egolf*

EVALUATION OF BEEF CAMERA GRADING TECHNOLOGY TO ASSESS BISON CARCASS CHARACTERISTICS

Jessica K. Janssen, Kristi M. Cammack, Willy J. Horne, Judson K. Grubbs, Keith R. Underwood, John Hansen, Carter Kruse, Amanda D. Blair. *Presented by Jessica Janssen*

INFLUENCE OF BISON HARVEST SYSTEMS ON ANIMAL STRESS RESPONSE, CARCASS TRAITS, AND MEAT QUALITY CHARACTERISTICS

Jessica K. Janssen, Kristi M. Cammack, Judson K. Grubbs, Keith R. Underwood, John Hansen, Carter Kruse, Amanda D. Blair. *Presented by Jessica Janssen*

INFLUENCE OF BISON FINISHING SYSTEMS ON CARCASS CHARACTERISTICS AND MEAT QUALITY

Jessica K. Janssen, Kristi M. Cammack, Jerrad F. Legako, Judson K. Grubbs, Keith R. Underwood, John Hansen, Carter Kruse, Amanda D. Blair. *Presented by Jessica Janssen*

(ICoMST cont'd on page 5)

INFLUENCE OF FEEDING A COVER CROP MIXTURE INCLUDING BRASSICAS DURING BACKGROUNDING ON CARCASS CHARACTERISTICS AND BEEF TENDERNESS

Christina E. Bakker, Lydia M. Hite, Amanda D. Blair, Judson K. Grubbs, Cody L. Wright, Derek W. Brake, Alexander J. Smart, Keith R. Underwood. *Presented by Christina Bakker*



In addition, four students competed in the Quiz Bowl that was held virtually August 1st and 2nd. While classes were shifted online, these students had been practicing and gaining further knowledge all semester to better prepare for the competition. The students included Reid Anema, Leona Meyer, Elizabeth Steever and Blake Wolters, pictured with their coach, Lydia Hite. These students attended the virtual conference and will be competing in an Iron Chef competition this fall.

Above and Beyond:

Above and Beyond recognizes SDSU employees, faculty and students for individual and team efforts that go Above and Beyond making the campus community better. This summer Above and Beyond recognized those helping with the swine industry.

The swine industry has been hit hard by the COVID-19 pandemic. The closure of meat packing plants across the country left producers with few options. Many producers have struggled to find places to harvest.

SDSU Extension swine specialists along with Department of Animal Science faculty, staff and students who specialize in meat science have worked together to provide resources and aid to producers. Extension specialists have guided producers facing shutdowns as well as located consumers wishing to purchase and process their hogs.

The SDSU Meat Lab is providing state-inspected slaughters as a service to South Dakota pork producers. Students who work in the SDSU Meat Lab gain hands-on experience processing hogs. The lab also has contactless ordering and pick up of beef, pork and lamb products to help provide more meat to the community.

Those who are serving the industry from SDSU are pictured:

- ◆ Keith Underwood
- ◆ Austin Egolf
- ◆ Samantha Egolf
- ◆ Adam Rhody
- ◆ Reid Anema
- ◆ Clay Newton
- ◆ Thomas Mitzel
- ◆ Christina Bakker
- ◆ Trevor DeHaan
- ◆ Erin Gubbels
- ◆ Lydia Hite



Not pictured: Amanda Blair, Bob Thaler, Joe Cassidy, Kyle Grubbs, Ryan Samuel, Madison Kovarna and Natalie Acosta Castellanos.

Thank you all for going Above and Beyond to help local pork producers under unique circumstances. The services they provide are important not only to producers, but to consumers as well. In the face of adversity, they continue to combat one of the world's biggest challenges; creating and sustaining our food supply.

-Excerpt from an edition of President Barry Dunn's Monday Morning Message

Teacher of the Year:

Congratulations! **Dr. Kyle Grubbs** has been selected for the 2020 Teacher of the Year Award in the SDSU College of Agriculture, Food and Environmental Sciences (CAFES). Each year, clubs and organizations within CAFES have the opportunity to nominate a professor they feel has gone above and beyond in their duties as an educator. Two finalists are chosen and voted on by CAFES students.



Dr. Grubbs, Assistant Professor in the Department of Animal Science, teaches Introduction to Meat Science and the advanced meat science courses. Those who nominated him for this honor noted that he is dedicated to ensuring his students understand and retain the information presented in his courses. He provides students with relevant information about the meat industry throughout his courses and has the ability to relate content to the everyday life of his students.



Farewell Reception - July 21:

A farewell reception was held for **Dr. George Perry** on July 21. Several co-workers and graduate students attended the reception. After 17 years of service to SDSU, **Dr. Perry** has accepted a research position at Texas A & M.

HELP WANTED:

Meat Processors in South Dakota are seeking employees to fill a number of open positions in facilities across the state. Contact Amanda Blair (Professor, Extension Meat Science Specialist; amanda.blair@sdstate.edu) for more information about positions in Aberdeen, Fort Pierre, and western South Dakota.

Condolences:

We express our sympathy to Meat Lab Manager **Adam Rhody** and family on the loss of his grandmother, Barbara Rhody from Brookings, SD. She passed away May 29.

If you know someone who may be interested in receiving the SDSU Animal Science newsletter, email terese.vanravenswaay@sdstate.edu.



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