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Animal Science Newsletter

Department of Animal Science

7-31-2017

News of the Department of Animal Science

Department of Animal Science
South Dakota State University

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News of the Department of Animal Science

South Dakota State University

7/31/2017

Volume 37, Issue 2

Congratulations!



Prior to her successful M.S. defense, graduate student **Jessica Reiners** presented a seminar March 9 entitled, *Lysine bioavailability among several lipid coated lysine products after exposure to alfalfa- or corn-silage with different amounts of acidity*. Jessica studied under the direction of **Drs. Derek Brake and Jeff Held**.

Graduate student **Brooke Brunsvig**, presented a seminar prior to her successful M.S. defense on April 4. It was entitled, *Effect of grazing pressure on cattle grazing annual cool season forages*. **Brooke** studied under the direction of **Dr. Derek Brake**.



On April 28, graduate student **Heather Rode** presented a seminar titled *The influence of chromium supplementation on the insulin pathway, carcass traits, and meat quality of feedlot steers* prior to her successful M.S. defense. **Heather** studied under the direction of **Dr. Keith Underwood**.

Prior to her successful M.S. defense, graduate student **Ann Kolthoff** presented a seminar May 16 entitled *Pre-marketing management practices of lambs*. **Ann** studied under the direction of **Dr. Jeff Held**.



Graduate student **Amanda Cross** presented a seminar prior to her successful Ph.D. defense on June 27. It was titled *Genetic factors associated with thermal tolerance in grow-finish pigs as measured by feeding behavior*. **Amanda** studied under the direction of **Dr. Joe Cassady**.

Megan Webb, Ph.D. student was among those Graduate Teaching Assistants who earned a Graduate Teaching Certificate of Excellence during the 2016-2017 academic year and was officially recognized at a breakfast ceremony on April 28.



Emily J. Rosenthal received third place in the undergraduate competition May 31 at the Equine Science Society meeting for her presentation *Equine feeding practices and nutrition knowledge in the Upper Midwest*. **Dr. Sara Mastellar** also attended the meeting.

Upcoming events



August 21 - Fall Semester begins

September 12 - Animal Science Scholarship Banquet, Volstorff Ballroom, Student Union

September 16 - Beef Bowl BBQ
SDSU vs Drake

September 29-30 - SD Sheep Growers, Brookings

October 14 - Hobo Day
SDSU vs Northern Iowa

November 28-30 - Range Beef Cow Symposium, Cheyenne, WY

March 23-24, 2018 - Little I

May 5, 2018 SDSU 131st Annual Commencement

Dr. Julie Walker was promoted to the rank of Professor. She serves as an Extension Beef Specialist and teaches study abroad classes.



Isaiah Li Wienek was born January 27 to Blaine and **Xuwen (Sheng) Wieneke** (M.S. '13) weighing 6 lbs 12 oz. Xuwen is currently finishing her Ph.D. at Oklahoma State.



Brandon and **Sara (Winterholler) Trojan**, former Animal Science faculty member, welcomed Abigail Claire into their family on February 28. She joins big sister Katie.



Rebecca Starkenburg, was crowned the 2017 Wisconsin Fairest of the Fairs in January. She is a junior at SDSU, majoring in Ag Communications and minoring in Animal Science and Meat Science.



Madison Schafer, Goodhue, MN was one of three named inaugural Pig Farmers of Tomorrow at the 2017 National Pork Industry Forum held in Atlanta in March. She is a sophomore at SDSU double majoring in Agricultural Communication and Agricultural Leadership with minors in Animal Science, Speech Communication and Marketing.



Mary Nold, daughter of Jerry and **Rosie Nold**, was among 12 students honored at the Argus Leader Academic All-Stars banquet April 12 in Sioux Falls. Mary graduated from Rutland High School in May, 2017 and plans to attend SDSU this fall.



Women of Distinction

Several women from Animal Science were chosen for the 2017 Dr. April Brooks Woman of Distinction Awards. Honored at the award tea March 29 were **Dr. Crystal Levesque**, Assistant Professor, Swine Nutrition (pictured left), Faculty division and **Veronica Shriver**, Senior Computer Support Specialist (pictured right) in the Civil Service category. **Dr. Rosie Nold** was nominated in the Administrative division.



Condolences

We express our sympathy to the family of **Dr. Paul 'Buck' Kohler**, of Brookings, who passed away February 6. He joined the Animal Science faculty at South Dakota State College in 1951 and taught courses in Livestock Judging, Horse Production, Equitation and Livestock Management and Evaluation. Dr. Kohler successfully coached the livestock judging team for 17 years and his 1962 team won the national contest at the International Livestock Show in Chicago. He retired in 1985. His wife Phyllis continues to reside in Brookings, SD.



We express our sympathy to **Dr. Bob Thaler** and family on the loss of his mother, Ramona Thaler, of Wagner, SD who passed away March 4 after an accident. She and her husband farmed together nearly 64 years on the farm that was her parents. She is survived by her husband Charles.

We express our sympathy to Sondra and **Dr. Lowell Slyter**, Professor Emeritus of Animal Science, on the passing of Leroy Furey on March 10 in Brookings. Sondra's father lived in Manhattan, KS prior to moving to Brookings in 2009.

We express our sympathy to **Dr. Jeff Clapper** and Joan on the loss of his brother Eric on March 20 in Zanesville, WI.

Pork Classic



The annual Pork Classic held Saturday, January 21 at Frost Arena on the SDSU Campus raised approximately \$8,000 for Animal Science scholarships. Prior to the women's basketball game, approximately 400 people enjoyed a delicious BBQ pork loin sandwich meal, with the loins donated by John Morrell. Twenty pork bundles, also donated by John



Morrell, were sold. Retirees **Dr. Richard** and **LaRayne Wahlstrom**, **Steve Goodfellow** and **Dr. Lowell Slyter** attended as well as many friends who support the pork industry. Special thanks to **Drs. Bob Thaler, Jeff Clapper** and **Crystal Levesque** for organizing this successful event.

Lamb Bonanza

The 25th annual Lamb Bonanza was held on February 4th at SDSU Frost Arena. More than 650 people



were treated to smoked lamb leg sandwiches and lamb meatballs prior to the women's basketball game. The food was served by Animal Science staff and SD Sheep Growers Association members. Those who volunteered time and talents resulted in a premier outcome in promoting the SD sheep industry and demonstrates the strong partnership between a commodity organization and our department. Six lamb pelts were auctioned for the purpose of scholarship support during halftime of the men's game. The

auction netted \$6,000. Thanks to all who supported the event including the successful pelt auction bidders: Dick Rogan, Brandon, SD; John, Kelly and Khloe Neill, Elkton, SD; Rusty and Sherry Antonen, Lake Norden, SD; Wes and Lois Tschetter, Brookings, SD; Harry and Colleen Mansheim, Brookings, SD; Carlyle Halverson, Brookings, SD.

Celebration of Faculty Excellence

The annual Celebration of Faculty Excellence event was held February 21 in the University Student Union. This event recognizes and honors faculty members in each of the University's colleges for outstanding research, teaching and service. Prior to the evening banquet, four faculty scholars delivered Sewrey



lectures to raise awareness and show scholarship in research and scholarship, creative and fine arts, teaching and learning, and service. **Heidi Carroll**, representing Service, presented a lecture titled *Discussing Animal Well-Being*. At the evening banquet, **Dr. Cody Wright** received the Timothy J. Nicholas Excellence in Undergraduate Student Advising Award.

ASAS Midwest Meetings

The American Society of Animal Science Midwest Branch met in Omaha, NE March 12-15. **Dr. Joe Cassady** serves as an ASAS Director-at-Large. **Dr. Crystal Levesque** served as Chair of the Non-Ruminant Nutrition Symposium, Programming of the Immune System. **Dr. Tofuko Woyengo** served as

Chair of the session Nonruminant Nutrition VII: Feed Additives/Ingredients. Others attending included **Drs. Agatha Ampaire, Michael Gonda, Benoit St-Pierre, and Julie Walker**; graduate students **Amy Abrams, Ethan Blom, Brooke Brunsvig, Christina Fehrman, Wes Gentry, Cheyenne Hron, Lee Opdahl, Prakesh Poudel, Samantha Welu.**

Oral Presentation, M.S.:

Jerica Rich, *Influence of GnRH Supplementation at CIDR Removal on Estrus Expression and Interval to Estrus in Beef Cattle.*

Jung Lee, *Porcine in-Vitro Degradation and Fermentation Characteristics of Canola Co-Products without or with Fiber-Degradng Enzyme.*

Jake Kopeke, *Evaluation of a Bio-Processed Soybean Meal on Nursery Pig Performance and Immune Status.*

Jamie Ortman, *Comparative Analysis of Bacterial Composition in the Ileum of Early Post-Weaned Piglets Fed Microbially Enhanced Soybean Meal and Fishmeal.*

Oral Competition, Ph.D.

Megan Webb, *Impact of Maternal Protein Restriction on Meat Quality and Fatty Acid Profile of Progeny.*

Amanda Cross, *Genetic improvement of Sow Lifetime Productivity.*

Amanda Cross, *Genome-Wide Association of Myoglobin Concentrations in Pork Loins.*

Oral Competition, Undergraduate:

Christina Mogck, *Effects of Post-Insemination Dam Nutrition on Longevity and Calf Performance.*

Molly Renken, *The Impact of Oregano Essential Oil Supplementation over Two Complete Reproductive Cycles in Multiparous Sows.*

Physiology Symposium

George Perry, *Characterization of Proteins in the Bovine Epididymal and Seminal Fluid and Proteins attached to Epididymal and Ejaculated Sperm*

Poster – Screen

Prakash Poudel, *Evaluation of Commercial Products to Improve Gut Health and Digestibility in Lactating Dairy Cows.*

Emily Scholtz, *Evaluation of Berberine as an Alternative to Antibiotics in Nursery Pig Diets.*

Jung Lee, *Porcine In Vitro Degradation and Fermentation Characteristics of Oats and Nutritive Value of Extruded Cold-Pressed Camelina Cake for Pigs.*

Venkata Bandarupalli, *Identification of a Novel Rumen Bacteria Using Starch as a Selective Nutrient in Batch Cultures.*

Poster

Emmalee Northrup, *Impact of Estrus Expression and Conceptus Presence on Plasma and Uterine Glucose Concentrations Up Until Maternal Recognition of Pregnancy in Beef Cattle.*

Casey Zangaro, *Enhancing the Nutritive Values of Corn DDGS via Pretreatment and Digestion. Porcine In Vitro Digestion and Fermentation Characteristica and DDGS Without or With Multi-Carbohydrase.*

Dalen Zuidema (undergraduate), *Comparison of Igenity Silver Profile and Zoetis Predic Gen DNA Tests in Crossbred Beef Cattle.*

2017 South Africa Study Abroad Course



Drs. Michael Gonda and Sharon Clay traveled to South Africa with 16 students March 3-16. The purpose of the class was to learn more about South African agriculture, wildlife and culture. They traveled to the provinces of Gauteng, Limpopo, North West, and Free State. Additional information on their trip is available at <https://sdsouthafrica2017.blogspot.com/>

2017 New Zealand Study Abroad Class



Dr. Julie Walker along with **Ethan Blom**, PhD graduate student, traveled to New Zealand with 29 students May 7-23. During the trip, students stayed several nights with farm hosts. Read about their experiences on their travel blog at <http://sdstatenewzealand2017.blogspot.com/>

2017 China Study Abroad Course



Seventeen students and **Dr. Robert Thaler** traveled to China May 8-21. One student commented, "When you consider the access to agricultural facilities in addition to the cultural and historical tourism, the

nice hotels, awesome meals, and professional local tour guides in each city-- this is truly a great way to travel!" More information on the trip is available at <http://sdsu2017chinaagtravel.blogspot.com/>.

Little International 2017

The 94th Little International "Best in the Midwest" was held March 30 – April 1. Pictured L to R: **Brady**



Wulf, High Point Upperclassman; **Dallis VanderWal**, Champion Round Robin; **Lacey Schmitz**, Reserve Champion Round Robin; **Kalyn Naatz**, High Point Freshman. Sigma Alpha Sorority was high Point Club. **Mike and Betty Brink**, from Redfield, SD were named Honored Agriculturalists. **Mike**, an SDSU Agricultural Education alumnus, received his B.S. in 1976. **Devin Jacobs**, Newcastle, NE was given the Pete Pritchett Memorial Award. **Dr. Cody Wright** was honored as Ag & Bio Teacher of the Year. An alumni social was held in the Animal Science lobby Saturday afternoon prior to the

evening events. For more award winners and pictures visit <http://www.sdsulittleinternational.com/>. Next year's Little I is scheduled for March 23-24, 2018. **Kendrah Schafer**, Goodhue, MN will serve as Manager and **Tristin Fliehe**, Tulare, SD as Assistant Manager.

Celebration of Achievement

The SDSU Chapter of Gamma Sigma Delta held a Celebration of Achievement and Initiation Ceremony on April 3 in the Volstorff Ballroom, University Student Union. Among those participating in the student poster competition were:

Jerica Rich, M.S. *Differences in abundance of GnRH-I and GNRH-II among bovine antral follicles;*

Samantha Welu, M.S. *Effects of dietary Microfused™ Essential Oils technology on growth performance, jejunal histology, and meat quality;*

Ethan Blom, Ph.D. *Evaluation of hay and silage in receiving diets of newly weaned calves;*

Wes Gentry, Ph.D. *Effect of suckling phase implants on weaning weight and post-weaning performance of steer calves;*

Emmalee Northrop, Ph.D. *Influence of preovulatory estradiol on embryo survival and uterine glucose transporter expression;*

Dalen Zuidema was awarded first place in the undergraduate contest with his poster titled *Comparison of igenity silver profile and Zoetis PredicGEN DNA tests in crossbred beef cattle.*

Dr. Michael Gonda presented a seminar entitled *Philosophy for Success*. Gamma Sigma Delta initiates for 2017 include faculty member **Dr. Crystal Levesque**, graduate student **Samantha Welu** and undergraduate student **Devin Jacobs**. Officers for 2017-2018 include **Dr. Julie Walker**, Treasurer, **Warren Rusche**, Secretary and **Dr. Michael Gonda**, Historian.

Annual Bull Sale

The 25th Annual SDSU Bull Sale was held Friday, April 7 at the new SDSU Cow/Calf Education and



Research Facility (CCERF) located northwest of campus. The Block and Bridle Club served a beef sandwich lunch with the limited auction following. **Dr. Cody Wright's** Seedstock Merchandising class was responsible for the preparation and coordination of the sale. Thirty-two bulls were sold; the overall average sale price was \$3,742. Co-high sellers, bringing \$5,000 each, included an Angus purchased by M & J Gauger's Angus from Clear Lake, SD and a Simangus purchased by Jarret Lee of

Madison, SD. Special thanks to CCERF manager **Kevin Vander Wal**, assistant manager **Alejandro Casella** as well as student employees.

Annual Hampshire Sale

The 7th annual SDSU Hampshire Sheep Sale was held May 3 with an on-line auction format. Fifteen lots, five spring ram lambs and 10 spring ewe lambs, were offered this year with the sale average of \$660. The top selling animal was Lot 5 SDSU 7050, a ram lamb sired by Wheaton 6-189, for \$2,000 to Fryman Farms in Kentucky. The sale attracted Hampshire breeders from more than 12 states. The SDSU Hampshire flock goals over the past 10 years have been to create a medium-framed sheep with excellent structural soundness, added core muscling characteristics as well as the growth performance expected from Hampshires. The SDSU Hampshire flock is the oldest established flock of Hampshire sheep in the U.S. Thank you to manager **Ann Kolthoff** and the undergraduate students employed at the Sheep Education and Research Unit for the excellent presentation of the consignment for the on-line auction.



Wool Judging Team



The 2017 SDSU Wool Judging Team pictured standing L to R: **Ann Kolthoff**, Coach; **Justin Ringkob**, Lake City, SD; **Morgan Busack**, Echo, MN ; **Danielle Evers**, Student Coach, and **Dr. Joe Cassady**, Animal Science Department Head. Seated L to R: **Brooke Hendrickx**, New York Mills, MN; **Addison Magill**, Verona, ND; **Logan Ellingson**, Stratford, SD; and **Molly Kroeger**, Lennox, SD. At the National Western Stock Show, the team finished ninth overall and placed fourth in the hand spinning competition. The team also participated in the

Houston Livestock Show Wool Judging Contest.

Meat Judging Team

The 2017 SDSU Meat Judging Team included seven team members. Back row: **Shaye Jungwirth**, Hoven, S.D.; **Erin Gubbels**, Laurel, NE; **Kathryn Haeska**, Lake City, MN; Coach **Christina Fehrman**. Front row: **Cassidy Wulf**, Magdalena de Kino, Sonora, Mexico; **Paige Binger**, Tulare, S.D.; **Kiera Leddy**, Stockholm, SD; **Bailey McConnell**, Balaton, MN. The team earned fifth place honors at the National Western and Southwestern Intercollegiate Judging Contests and fourth place at the Iowa State Intercollegiate Judging Contest with a special highlight of placing first in both processed ham and summer sausage judging with a perfect score in the summer sausage category. The team is looking forward to the fall season that will begin at the National Barrow Show Meat Judging Contest in September.



Livestock Judging Team

Pictured is the 2017 SDSU Livestock Judging Team at the Houston Livestock Show and Rodeo. Back row, L to R: Coach **Grady Ruble**; **Colin Geppert**, Kimball, SD; **Kyler Johnson**, Baltic, SD; **Dalton Vroman**, Marshall, MN; **Cade Opheim**, Mound City SD; **Andrew Berg**, Pipestone, MN; **Halley Becking**, Florence, SD; Assistant Coach **Wyatt Smith**, Ex Officio Coach Joshua Cribbs. Front row, L to R: **Riley Ruble**, Albert Lea, MN; **Austin Rohrs**, Granville, IA; **Maria Weber**, Lake Benton, MN;



Carlie Jackson, Sanborn, MN; **Sterling Kappes**, Aberdeen, SD and **Nolan Hohenstein**, Lakefield, MN. The team had a successful spring season finishing third overall at the Iowa Beef Expo. They also received first in overall placings and third in team reasons. Individually, **Dalton Vroman** was ranked as the high individual in placings. **Riley Ruble** was fourth in placings and tenth overall. **Austin Rohrs** received ninth in placings and fifth overall. **Maria Weber** placed ninth in reasons. At the San Antonio Stock Show and Rodeo, the team finished tenth overall. Individually, **Colin Geppert** placed third in cattle, **Halley Becking** fourth in cattle; **Austin Rohrs** fourth in sheep and seventh in goats while **Andrew Berg** placed seventh in swine. The last competition of the season was the Houston Livestock Show and Rodeo where the team finished sixth overall, fifth in cattle and fifth in reasons. Individually, **Carlie Jackson** placed ninth overall, ninth in placings, ninth in swine, and ninth in reasons. **Sterling Kappes** finished thirteenth overall. **Maria Weber** was nineteenth overall. **Cade Opheim** received second overall in the alternate division, **Halley Becking** fifth in the alternate division and **Kyler Johnson** eleventh in the alternate division. **Riley Ruble** finished seventh in cattle.

Rodeo Team

Six members of the SDSU Rodeo Team competed at the College National Finals Rodeo in Casper, WY June



11th-17th. With an average of 50 competitors in each event, **Hope Petry** of Hudson, IA finished the highest with eighth place in the Goat Tying. **Madison Rau**, Mobridge, SD finished fourteenth in Barrel Racing and Jim Bob Ellsworth, finished fourteenth in the Bareback Riding after placing third in the third round. **Jacey Hupp**, won the first round of Goat Tying with a 6.1 second run and duplicated that run in the third round for another win, however the goat did not stay tied for five seconds and thus received a “no time”. The women’s team placed 14th out of 38 schools who had points. The men’s team finished 54th out of 58 teams with points with only two team members qualifying. The CNFR championship round will be aired on ESPN August 17th and 18th at 7pm.

Livestock Judging Camp

The SDSU Youth Livestock Judging Camp held two sessions in the Animal Science Arena. Session 1 took place June 4-6 with Session 2 on June 8-10. The sessions were available to students age 8-18 years. Instruction at the camp covered live evaluation of the primary livestock species (cattle, sheep/goats and swine), as well as preparation and critique of oral reasons. Additionally, guest speakers on livestock nutrition and production were available to all campers along with question and answer sessions.

Reciprocal Meat Conference

American Meat Science Association 70th Reciprocal Meat Conference (RMC) was held June 16-21 at Texas A & M University, College Station, TX under the theme *Where History, Tradition and Science Meet*.

Dr. Keith Underwood received the Distinguished Achievement Award. He was recognized for significant



scientific skills in muscle foods research and technology that contribute to the animal products industry. **Dr. Underwood** has been active in expanding a variety of extension programs to further meet the needs of producers, packers, processors and consumers. He has continued the Beef 2020 program designed to provide beef producers with an understanding of harvest, fabrication and processing of beef. He also initiated the BBQ Bootcamp program that has educated hundreds of South Dakota residents on proper cooking, cut selection and food safety.

Megan Webb, below, received first place in the Ph.D. poster competition for her poster titled *Identifying consumer preference for beef raised with different production systems*. **Christina Fehrman**, right, Ph.D. student and SDSU Meat Judging Team Coach competed and received first place, Expert Division - Graduate Student Processed Meat Judging Contest. She also coached the Quiz Bowl Team.



Pictured below, SDSU students **Kathryn Haeska**, Lake City, MN; **Rachel Deurmier**, Eureka, SD; **Paige Binger**, Tulare, SD; **Erin Gubbels**, Laurel, NE participated in the Quiz Bowl and Iron Chef Contest.

Amanda Blair chaired the Muscle Biology Symposium: “-omic” Approaches to Solve Meat Quality Issues and **Kyle Grubbs** served as 2017 chair for the ePoster competition and co-chair for abstracts. **Drs. Underwood, Blair** and **Grubbs** were also members of the 2017 RMC Planning Committee and visited with potential students at the annual Career Fair.



News...

Dr. Bradley C. Johnson, former member of the SDSU Animal Science faculty (1997-2000) who is currently the Gordon W. Davis Regent’s Chair in Meat Science and Muscle Biology in the Texas Tech University Department of Animal and Food Sciences, was recently selected to a five-year term on a prestigious committee that evaluates the safety of food additives. The Joint Expert Committee on Food Additives (JECFA) is a collection of international food safety experts from around the world that not only ensures the safety of food additives but also includes evaluating contaminants, naturally occurring toxicants and residues of veterinary drugs in food. The JECFA is administered by the Food and Agriculture Organization (FAO) of the United Nations and the World Health Organization (WHO). Johnson brings more than 25 years of experience to the committee, working with veterinary drugs used for global meat-animal production.



The Swine Club, along with various campus organizations and industry partners, hosted Julie Borlaug, well-known anti-hunger advocate, to speak on campus April 12. Ms. Borlaug serves as an associate director at The Borlaug Institute at Texas A&M University and is the granddaughter of Dr. Norman Borlaug, 1970 Nobel Peace prizewinner and Founder of The Green Revolution. She gave a presentation titled *Biotechnology: Friend or Foe in Fighting World Hunger*.



The Horse Club and SD Horse Council co-sponsored a Spring Clinic April 22. The clinic was dedicated to the late **Dr. Paul “Buck” Kohler** who was prominent in the equine industry in SD. SDSU students who were enrolled in equine courses presented posters on various topics related to the horse industry.

Drs. Joe Cassady, Amanda Blair, as well as **Stacy Hadrick** and **Megan Webb**, Ph.D. student attended the 2017 National Cattleman’s Beef Association Convention January 31-February 5 in Nashville, TN.

Dr. George Perry travelled to Uberlandia, MG, Brazil March 20-25 to meet with students from Sao Paulo University and speak at XXI Curso “Novos Enfoques na Produção e Reprodução de Bovinos”. He gave two presentations: *Effects of peri-AI nutritional management on embryo development and pregnancy success* and *Role of estrus and preovulatory estradiol in pregnancy success*.

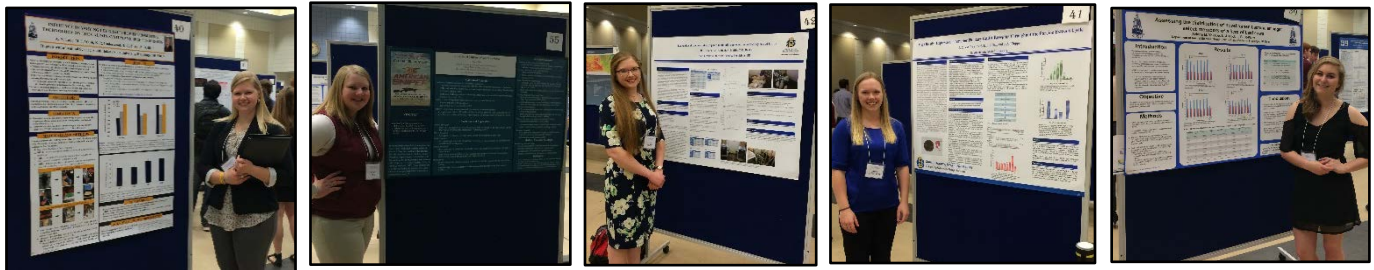
Dr. Robbi Pritchard was an invited symposium speaker at The Plains Nutrition Council – Spring Conference held April 13-14 in San Antonio, TX. His presentation was titled *Estimating Energy Values of Feedstuffs – Approaches and Problems*. Graduate research posters were presented by **Ethan Blom**, *Evaluation of hay and silage in receiving diets of newly weaned calves* and **Wes Gentry**, *Effect of suckling phase implants on weaning weight, and post-weaning performance of steer calves*. **Dr. Derek Brake** and **Warren Rusche** also attended.

Dr. Tofuko Woyengo attended ESPN 2017, 21st European Symposium on Poultry Nutrition held May 5-11 in Tarragona, Spain. He collaborated with other world scientists regarding poultry nutrition research.

Drs. Bob Thaler, Crystal Levesque, Ryan Samuel as well as **Chelsea Sorensen** went to Des Moines, IA June 8-9 to attend World Pork Expo. They met with research clients, suppliers, producers and potential students.

Dr. Ken Olson, Adele Harty, and Warren Rusche attended Western Section Animal Science meetings in Fargo, ND June 20-22.

Research and Creative Activity Day



Poster presentations at Undergraduate Research Scholarship and Creative Activity Day (URSCAD) held April 11 included Animal Science undergraduate students pictured above: **Amanda Lage**, *Influence of Varying Levels of Growth-Promoting Technology on the Calpain System and Beef Tenderness*; **Carly Fritz**, *A Rhetorical Criticism of American Sniper*; **Hattie Cramer**, *Evaluation of Commercially Prepared Lamb Milk Replacers for Artificially Raised Lambs*; **Janet Van De Stroet**, *Mean Relative Expression of Anterior Pituitary GnRH Throughout the Porcine Estrous Process*; **Selena Yakabe**, *Assessing the Distribution of Novel Rumen Bacteria Amongst Select Members of a Herd of Beef Cows*. **Dr.'s Ben St-Pierre, Rosie Nold, Michael Gonda and Crystal Levesque**, were judges for the poster presentations. Organized by the Honors College, the purpose of URSCAD is to encourage, promote and recognize faculty and student involvement in undergraduate research at SDSU.

Graduation Recognition Event

Sixty-eight undergraduate candidates for graduation (spring, summer and fall 2016), and their families were invited to attend a recognition event in the Animal Science Complex on Friday afternoon, May 5. Tours of the laboratory areas and animal units were offered. A PowerPoint presentation highlighting our graduates was viewed while the guests enjoyed refreshments. **Dr. Joe Cassady** provided a welcome, presented the students and invited them to introduce themselves and their family as well as indicate their future plans.

Four Animal Science undergraduates, **Andrea Beck**, Corning, IA; **Carly Fritz**, Holland, MN; **Devin Jacobs**, Newcastle, NE and **Janet Van De Stroet**, Fairview, SD graduated with Van D. and Barbara B. Fishback Honors College Distinction. **Francis Tusha**, Emery, SD was commissioned as a Second Lieutenant at graduation for completion of Army ROTC.

SDSU Pre-veterinary students accepted to Veterinary schools for Fall 2017 included six Animal Science students. They are **Madison Bieber**, Bowdle, SD and **Ashley Swanson**, Pukwana, SD both attending Iowa State University; **Megan Blanchard**, Worthington, MN and **Nicole Vanden Berg**, Edgerton, MN both attending University of Minnesota; **Nathan Howlett**, Harrisburg, SD and **Nina Manzey**, Cleveland, MN both attending Ross University and **Ashley Ourada**, Lucan, MN attending University of Missouri.



Dr. Amanda Cross, Dr. Agatha Ampaire and Dr. Janna Kincheloe (L to R) participated in Graduate Commencement held May 6 where they received Doctor of Philosophy degrees in Animal Science. **Dr. Cross** graduated with highest honor.

Animal Science 2017 Undergraduate Graduation Candidates

<i>Devon Baum</i>	<i>Elgin, NE</i>	<i>Elizabeth Olander</i>	<i>Cambridge, MN</i>
<i>Andrea Beck</i>	<i>Corning, IA</i>	<i>William Osborne</i>	<i>New Ulm, MN</i>
<i>Levi Becker</i>	<i>Fairmont, MN</i>	<i>Alexis Ostrom</i>	<i>Warsaw, IN</i>
<i>Madison Bieber</i>	<i>Bowdle, SD</i>	<i>Ashley Ourada</i>	<i>Lucan, MN</i>
<i>Megan Blanchard</i>	<i>Worthington, MN</i>	<i>Brittany Paquin</i>	<i>Kenyon, MN</i>
<i>Jacob Brandt</i>	<i>Clear Lake, SD</i>	<i>Tyler Pierson</i>	<i>Watertown, MN</i>
<i>Rachel Deurmier</i>	<i>Eureka, SD</i>	<i>Krista Petersen</i>	<i>Watertown, SD</i>
<i>Tyler Dolieslager</i>	<i>Doon, IA</i>	<i>Hope Petry</i>	<i>Hudson, IA</i>
<i>Danielle Evers</i>	<i>Hawarden, IA</i>	<i>Jenetta Porter</i>	<i>Geddes, SD</i>
<i>Carly Fritz</i>	<i>Holland, MN</i>	<i>Molly Renken</i>	<i>Le Mars, IA</i>
<i>Savanna Glaus</i>	<i>Chamberlain, SD</i>	<i>Jessica Reynolds</i>	<i>Des Moines, IA</i>
<i>Ethan Groos</i>	<i>Howard Lake, MN</i>	<i>Andrea Rief</i>	<i>Missouri Valley, IA</i>
<i>Morgan Hall</i>	<i>Neligh, NE</i>	<i>Emily Rosenthal</i>	<i>El Cajon, GA</i>
<i>Lacey Hanson</i>	<i>Owatonna, MN</i>	<i>Gabrielle Ryan</i>	<i>New Prague, MN</i>
<i>Logan Harris</i>	<i>Jasper, MN</i>	<i>Carrietta Schalesky</i>	<i>Faith, SD</i>
<i>Jessica Hipsag</i>	<i>Milaca, MN</i>	<i>Raivenne Scott</i>	<i>Hillsboro, OR</i>
<i>Robert Hoiten</i>	<i>Montrose, SD</i>	<i>Nicole Siebold</i>	<i>West Jefferson, OH</i>
<i>Victoria Holmes</i>	<i>Bennett, CO</i>	<i>Elen Skaar</i>	<i>Minneota, MN</i>
<i>Erica Hughes</i>	<i>Sioux Falls, SD</i>	<i>Lexi Slack</i>	<i>Viborg, SD</i>
<i>Devin Jacobs</i>	<i>Newcastle, NE</i>	<i>Krista Smit</i>	<i>Lennox, SD</i>
<i>Brittany Johannsen</i>	<i>Sutherland, IA</i>	<i>Wyatt Smith</i>	<i>Adair, OK</i>
<i>Liena Kalnmals</i>	<i>Chicago, IL</i>	<i>Mark Strong</i>	<i>Maysville, MO</i>
<i>Nicole Knips</i>	<i>Magnolia, MN</i>	<i>Kelsey Swainston</i>	<i>Nampa, ID</i>
<i>Amanda Lage</i>	<i>Postville, IA</i>	<i>Ashley Swanson</i>	<i>Pukwana, SD</i>
<i>Kelli Larson</i>	<i>Hayti, SD</i>	<i>Eric Tesch</i>	<i>Goodwin, SD</i>
<i>Samantha Lehner</i>	<i>Remsen, IA</i>	<i>Bobbie Till</i>	<i>Dupree, SD</i>
<i>Cheyenne Leonhardt</i>	<i>Groton, SD</i>	<i>Savanna Tomoson</i>	<i>Marshall, MN</i>
<i>Sarah Lynd</i>	<i>Urbandale, IA</i>	<i>Francis Tusha</i>	<i>Emery, SD</i>
<i>Nina Manzey</i>	<i>Cleveland, MN</i>	<i>Janet Van De Stroet</i>	<i>Fairview, SD</i>
<i>Kay Marrs</i>	<i>Whitewood, SD</i>	<i>Taylor Van Roekel</i>	<i>Rock Rapids, IA</i>
<i>Christina Mogck</i>	<i>Olivet, SD</i>	<i>Hailey Waagmeester</i>	<i>Sioux Falls, SD</i>
<i>Kelly Morrison</i>	<i>Belle Plaine, MN</i>	<i>Erin Wicker</i>	<i>Kimball, MN</i>
<i>Tony Munsterteiger</i>	<i>Ogilvie, MN</i>	<i>Shayanne Zaragoza</i>	<i>Ruthven, IA</i>
<i>Justin Murray</i>	<i>Buffalo Center, IA</i>	<i>Dalen Zuidema</i>	<i>Blomkest, MN</i>

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Submitted by Carol Kleinjan, Editor