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Animal Science Newsletter

Department of Animal Science

Fall 2018

Animal Science Department News

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Animal Science Department News

Upcoming Events:

December 6-12—Final Exams

December 8—Animal Science Holiday Party

December 14—Retirement Party for Brenda Bjorklund, 2:00pm - 4:00pm
Animal Science Complex lobby

January 2- 4—Beef 2020

January 12—Lamb Bonanza

January 26—Pork Classic

January 26 - February 4—Black Hills Stock Show

March 29-30—Little I

April 5—Bull Sale

Welcome Research Assistant:

Fatima Cecilia Avaroma Gutierrez from Bolivia is working under the direction of **Dr. Tofuko Woyengo** in swine research.



Welcome Visiting Research Scholar:

Saymore Petros Ndou is a native of Mutare, Zimbabwe. He received his B.Sc. in Animal Science from University of Fort Hare, Alice, South Africa in 2010. He received his M.Sc. in Animal Nutrition from the University of KwaZulu-Natal, Pietermaritzburg, South Africa in 2013. He is working on his Ph.D. in Animal Nutrition from the University of Manitoba, Canada. Saymore is working in swine and poultry nutrition with **Dr. Tofuko Woyengo**.



Animal Science Scholarship Awards:



The Animal Science scholarship banquet was held the evening of September 19 at the Volstorff Ballroom in the Student Union on campus. Nearly 300 people were in attendance, including parents, donors, staff and faculty. For the 2018-2019 academic year, approximately \$110,000 was awarded to 118 SDSU students majoring in Animal Science. A sincere thank you to our donors whose support is greatly appreciated!

Departmental awards announced at this year's banquet included the Distinguished Alumni Award, the Friend of the Department Award and the Richard Wahlstrom Animal Science Award for Excellence.

Distinguished Alumni Award

Pictured left to right: Betty MacNeil, Dr. Michael MacNeil and **Dr. Joe Cassady**.

The Distinguished Alumni Award recognizes the accomplishments of alumni of the Animal Science Department at SDSU who have impacted the agricultural industry, communities and individuals across the state, nation, and world. Awarded annually, this year's recipient is **Michael MacNeil**. Dr. MacNeil received his Ph.D. in Animal Science from SDSU in 1982. The emphasis of his Ph.D. program was animal breeding and genetics with minors in economics and computer science. Following completion of his Ph.D., he was employed until 1988 as a statistician and animal scientist at the USDA-ARS U.S. Meat Animal Research Center at Clay Center, NE. From 1988 through 2011 he served as a research geneticist at the Fort Keogh Livestock and Range Research Lab at Miles City, MT. Since 2012 he has been the sole proprietor of Delta G, a beef cattle genetics company which is involved in multiple activities including: developing breeding objectives for multinational beef production enterprises and North American beef cattle breed associations, collaborating with scientists at Bage and Campo Grande on development of breeding objectives (Science without Borders program), developing genetic evaluation systems for economically relevant traits, and ascertaining genetic diversity of various domestic and wildlife species. He serves as a men-



tor and advisor to an emerging industry research team, the South African Agricultural Research Council, Animal Production Institute, as well as many graduate students in the animal sciences.

Dr. MacNeil is one of the world's leading beef cattle geneticists. His research and service is directly responsible for the development of many of the economic selection indexes used by breed associations today. He also was a pioneer in the study of inbreeding in beef cattle. Dr. MacNeil's research is truly global; he has worked extensively to develop the breeding and genetics infrastructure in South America and South Africa. He has previously been honored as a distinguished alumnus at South Dakota State University.

Friend of the Department Award

Awarded annually, the Friend of the Department Award honors a person who has impacted students, staff and faculty of the department, as well as the entire agricultural industry across the state, nation, and world. Congratulations to this year's recipient, **Mike Olson**. Mike majored in Animal Science at SDSU from 1969-1972, graduating from Oregon State University in 1973 with a farrier science degree. He has a long history of involvement with the department across multiple species and discipline programs and is very supportive of students' curricular and extra-curricular activities. His trimming and shoeing program began in 2003 and continues to the present, serving 300 students over the years. The farrier care provided to the Equine Teaching Facility through his program is estimated to be worth more than \$90,000. In addition to teaching students, he has helped make the SDSU Extension Reservation Farrier Apprenticeship a reality. Additionally, he has been a stakeholder in department activities, participating in interviews for vacant equine positions as well as involvement in the curriculum review stakeholder meetings.



Mike's support of students goes well beyond the trimming and shoeing program. He has lent his draft team to the Horse Club for their annual petting zoo as well as for their float in the Hobo Day parade. He and his wife, Kris, continue to assist at Pork Classic raising money for student scholarships. As an advocate for students, he has referred producers searching for interns to department faculty. The department has clearly benefitted from Mike's time, effort, networking, and generosity. He is a true friend of the department. Pictured left to right: Kris Olson, Mike Olson and **Dr. Joe Cassady**.

Richard Wahlstrom Animal Science Award for Excellence

This monetary award is given annually to recognize outstanding scholarship of Animal Science faculty members in the areas of teaching, research, extension and/or outreach. This year's recipient is **Dr. Tofuko Woyengo**.

Dr. Woyengo is an Assistant Professor in the Department of Animal Science whose research is focused on swine nutrition, specifically alternatives to antibiotics in diets, incorporation of feed enzymes and feed processing technologies for improved nutrient utilization, and nutritive value of DDGS in swine diets. Since 2015, **Dr. Woyengo** has published 18 peer reviewed scientific manuscripts and 28 scientific abstracts. He has received over \$2.5 million in funding for his research. This is an impressive productive record for any faculty member; however, especially for an Assistant Professor. The relevance of his work to the U.S., as well as globally, in swine and poultry production is evidenced by invitations to speak and collaborate nationally and internationally along with strong industry financial support for his program. Dr. Woyengo's expertise in basic techniques such as the Ussing Chamber has added an entirely new dimension to the swine research program at SDSU. His students appreciate his dedication to providing them excellent guidance of their graduate programs through experiment design, data collection and finishing with scientific writing of manuscripts. Congratulations, **Dr. Woyengo**! Pictured left to right: **Dr. Tofuko Woyengo** and Dr. Rick Wahlstrom.



Numerous scholarships sponsored by individuals, organizations, endowments, and faculty members were presented that evening. We were pleased to offer four new scholarships this year:

Beef Bucks Scholarship - The Beef Bucks program has been incorporated as a non-profit organization for the purpose of promoting the beef industry as well as educating consumers, since its formation in De Smet, SD in 1997. Pictured left to right: Nancy Montross and Autumn Haan.



Dennis and Bonnie Henley Scholarship - Dennis was raised on a farm in Brown County and graduated from Groton High School. After graduating from SDSU with a Bachelor of Science degree in Animal Science in 1968, he worked at John Morrell Company in Sioux Falls in the Industrial Engineering Department. In addition to his employment with Morrell's in Sioux Falls, he worked in various capacities for them in El Paso, TX; East St. Louis, IL; Sioux City, IA; and finally went to the Corporate Office in Cincinnati, OH as Vice President of International Sales. After twenty-five years with John Morrell he accepted a position with ConAgra/Monfort Pork (later Swift) in Greeley, CO as VP of Pork Product Management. The pork operations were merged with the beef operations and eventually sold to JBS. Dennis held various positions with the Company, retiring in 2007 as Chief Operating Officer of the JBS North American Red Meats. Bonnie taught French and Russian in the Sioux Falls Public Schools, and French in Sioux City Public Schools and Morningside College, as well as in public schools in Union, KY. They have two children, two granddaughters, and a daughter-in-law, all living in Colorado. They spend their time between residences in Estes Park, Co and the northern woods of Wisconsin. Their passion is travel; they have visited all seven continents. Pictured left to right: Mike Barber (SDSU Foundation Development Director for College of Ag, Food and Environmental Sciences) and Logan Kennedy.



Donald E. Ray Scholarship - Donald E. Ray's first teaching position was in the SDSU Department of Animal Science in the early 1960's. Following that, he was a professor in the Animal Science Department at the University of Arizona for 35 years and earned the honor of Professor Emeritus upon his retirement. In his retirement, he traveled the world, educating himself and others. He had many hobbies and joys in life, including aviation and fishing; however, education was always his primary focus. Even after his passing, his charitable contributions will help educate a new generation. He passed away in 2015 and included SDSU's Animal Science Department in his will. Pictured left to right: Don Marshall (SDSU Associate Dean/Professor) and Kate Dentlinger.



Karl K. Riedemann Scholarship - After graduating from Hartley High School in Hartley, IA, Karl attended SDSU majoring in Animal Science and Business. As a member of ROTC, Karl was commissioned as a 2nd Lieutenant in the US Army and became a Captain prior to discharge from Inactive Reserve status. He started his career in animal health with Sioux Nation Ag Supply in Sioux Falls, SD in 1972. In 1975, he was hired by JenSal Laboratories, a manufacturer of animal health products. Over the 38 ½ years in sales and management, he experienced seven mergers/buy-outs in the animal health industry with the final employer being Merck Animal Health. After 40 years in the business, he retired in June of 2014. With his wife, Gayleen, he now travels, raises a few cattle, and spends time with three grandchildren whose parents are also SDSU graduates. He also winters in Arizona. Receiving a degree in Animal Science launched a very successful career. With this scholarship, Karl hopes to help other deserving students interested in the field of Animal Science.

Beef Bowl:

The annual beef BBQ was held next to the Sanford-Jackrabbit Athletic Complex September 15. Approximately 2,000 people were served a BBQ beef sandwich meal prior to the SDSU football game against Arkansas-Pine Bluff. Additionally 20 beef bundles were auctioned. All proceeds from the Beef Bowl meal and auction are available for scholarships for Animal Science undergraduates. Congratulations to Beef Bucks, Inc. for being named the SDSU Friend of the Beef Industry during halftime at this year's Beef Bowl! Beef Bucks is a non-profit organization formed in 1997 that strives to promote the beef industry, educate consumers and support students through scholarships. Accepting the award on behalf of the Beef Bucks organization are two of the Beef Bucks founders Bob and Nancy Montross of De Smet, SD.

Pictured left to right: **Dr. Joseph Cassady**, Dean John Killefer, recipients Bob and Nancy Montross, and President Barry H. Dunn.



South Dakota Sheep Growers Convention:



“Lamb Lovers”
social event



The SD Sheep Growers Convention was held in Brookings at the Days Inn Convention Center September 28-29. The Friday evening “Lamb Lovers” social event, held at the Animal Science Arena, included hors d’oeuvres featuring lamb, cheese, crackers and dessert and allowed attendees to be entertained by watching a sheep shearing contest/demonstration. Saturday activities included the Shepherd’s Shuffle 5K race, 1-mile fun run/walk and 3-mile relay to promote ovine (sheep) GM1 for the treatment of Huntington’s Disease (HD) and/or other neurologic diseases. 2018 Master Lamb winners were announced: Tom and Marilyn Schwebach Family (Egan) and Erk Ranch (Newell). Items created from SDSU Signature Wool yarn and fabric were auctioned during the convention and proceeds were donated to the Signature Wool Project scholarship fund. Thank you to all who made this event a success!

Travel Notes:

Dr. Zach Smith attended the Multi-state Hatch Project Meeting in Logan, UT October 26-27.

Dr. Ryan Samuel and Dr. Bob Thaler attended a Swine Education In-Service in Raleigh, NC October 23-25.

Dr. George Perry presented information from data on “*MicroRNA expression in sperm of bulls with high and low fertility*” at the Roy A. Wallace Symposium on Bovine Reproduction in West Palm Beach, FL October 15-18.

Dr. Ryan Samuel was invited by BIOMIN (Biomin is an animal health and nutrition company headquartered in Inzersdorf-Getzersdorf, Austria that develops and produces feed additives and premixes for livestock animals including swine, poultry, dairy and beef cattle as well as aquaculture) to attend the World Nutrition Forum in Cape Town, South Africa October 3-5.

Dr. Rosie Nold was in Grand Island, NE as an official for the National 4-H Livestock Quiz Bowl Sept. 28-30.



Dr. Tofuko Woyengo and Dr. Crystal Levesque attended the Minnesota Nutrition Conference in Mankato, MN with Lab Technicians **Cristian Sanchez Tovar, Jimena Ibagan Pardo** and Graduate Student **Kevin Jerez Bogota**. The Minnesota Nutrition Conference is a highly regarded and well-known livestock nutrition conference which provides the attendees with the leading-edge, research-based knowledge to advance sustainable production of beef, dairy, equine, poultry, and swine. **Dr. Crystal Levesque** presented “*Considering low allergenicity soybeans for pigs*” and “*Amino acid nutrition in modern sows: Is good ‘good enough’?*”



International Ruminant
Reproduction Symposium

September 16-20, 2018

Foz Do Iguacu, Brazil – Wish Resort Golf & Convention

Dr. George Perry along with Graduate Students **Saulo Menegatti Zoca, Jerica Rich, Emmalee Northrup and Kaitlin Epperson** attended the 10th International Ruminant Reproduction Symposium in Foz Do Iguacu, Brazil September 16-20. IRRS is recognized as one of the most prestigious international conferences on reproduction.

Dr. Keith Underwood presented “*Shop meat processing and meat quality evaluation in North American pork production*” at the New Applied Technology of Swine Nutrition Conference in Nanjing, China September 15-16. **Dr. Underwood** also visited the China Agricultural University in Beijing.



Dr. Zach Smith and Graduate Students, **Wes Gentry** and **Ethan Blom**, attended the 50th Anniversary of the California net Energy System Symposium in Davis, CA September 12-14. This symposium builds on the pioneering work of Professors Lofgreen and Garrett who published their system in the Journal of Animal Science in 1968. Their paper became the basis for feeding growing cattle worldwide today, and was the most cited paper in Animal Science journals for over 25 years. The symposium focus was on cattle energetics, and how the system has been used since 1968 to improve our understanding of animal growth and nutrition through the presentation of fundamental and applied research by national and international speakers.

Dr. Joe Cassady presented at the Angus Association Meeting in St. Joseph, MO September 10.

Dr. Bob Thaler is a member of the U.S. Meat Export Federation’s (USMEF) Heartland Team – a delegation of producers and other agricultural industry leaders from several states. They recently traveled to Japan, specifically Osaka and Tokyo, to observe USMEF marketing activities for U.S. beef, pork and lamb in Japan and assess prospects for further growth in the leading value market for U.S. red meat. The group included participants from Nebraska, Iowa, South Dakota, Oklahoma, Idaho, Missouri and Arkansas. **Dr. Thaler** spoke at two seminars during his visit September 3-8.



Dr. Bob Thaler attended the US Soybean Export Council September 30 - October 6 in the Philippines. He presented a Swine Nutrition and Feed Management Seminar.

Condolences:

We express our sympathy to **Chanda Engel** (B.S. 1997, M.S. 2007) and family on the loss of her father, Michael Engel of Freeman, SD who passed away October 5.

Congratulations :

Graduate student **Grady Ruble** presented a seminar prior to his successful M.S. defense September 27. The seminar was entitled “*Comparison of retaining replacement heifers in a straight-bred Angus system versus purchasing crossbred replacement heifers to be bred to a terminal site.*” Grady is at the Watertown Regional Center as the interim Cow/Calf Extension Field Specialist.

Ella Claire was born to Emily and **Ethan Blom** (graduate student) September 29, 2018. She weighed 9 lbs, 7 oz, and is 20 inches long and joins big brother, Levi at home.



Cameron Pewe (B.S. 2013) married Desiree King (B.S. 2014) October 6, 2018 at the Salem Evangelical Covenant Church in Oakland, NE. Desiree works for the USDA in the Brookings County Farm Service Agency office. Cameron is the Manager at the Swine Education and Research Facility.



Additional Notes:

I-29 Moo University includes Dairy Extension and Dairy Industry Personnel from ND, SD, MN, IA and NE working to grow the dairy industry via outreach education. The group met in Brookings September 5-7 for professional development toured the SDSU Cow/Calf Education and Research Facility.



SDSU Swine Day 2018 was held Tuesday, November 6. Over 100 people attended the one-day event at McCrory Gardens. Speakers included Steve Rommereim (National Pork Board President), Adam Krause (Pig Farmer of Tomorrow) and Dr. Bob Thaler (SDSU Professor and Extension Swine Specialist). Dr. Chris Hostetler (National Pork Board) presented a seminar to SDSU Animal Science personnel November 7.



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STATE UNIVERSITY**

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