

2003 Midwest Section Award Winners

Young Animal/Dairy Science Leader Outstanding Researcher Award Sponsored by Roche Vitamins Inc.

Timothy P. L. Smith began exploring the molecular genetics of livestock at the U.S. Meat Animal Research Center as a postdoc in 1992, studying the occurrence of heritable melanomas in miniature swine. He became a permanent scientist at MARC in 1994, focusing on the development and application of genome maps for cattle, sheep, and swine. Studies in his laboratory have elucidated DNA sequence variation underlying major phenotypes, such as double muscling in cattle and callipyge in sheep. Dr. Smith directs the MARC DNA sequencing facility and



served on the editorial board of the *Journal of Animal Science* from 1998 to 2002. He holds a B.S. in microbiology from Montana State and a Ph.D. in chemistry from the University of Oregon Institute of Molecular Biology. He was named Early Career Scientist of the Year for ARS Northern Plains Area in 2001.

Young Animal/Dairy Science Leader Outstanding Teacher Award Sponsored by ADM Alliance Nutrition, Inc.

Steven C. Kelm joined the faculty of the University of Wisconsin-River Falls (UWRF) in January 1998 as a member of the Animal and Food Science Department. He completed his undergraduate degree at Cal Poly-San Luis Obispo and received his M.S. and Ph.D. from Iowa State University. Dr. Kelm's teaching responsibilities include upper-division dairy management courses, animal breeding, senior seminar, and dairy cattle judging. Dr. Kelm



was the recipient of UWRF's highest faculty honor, the Distinguished Teacher Award, in spring of 2002. His current research focuses on the investigation of breed differences in susceptibility to Johne's disease. Steve and his wife, NolaKay, live in River Falls and are the proud parents of three young children.

Young Animal/Dairy Science Leader Outstanding Extension Award Sponsored by Land O'Lakes

Wendy J. Powers joined the Department of Animal Science at Iowa State University as an assistant professor in 1997. She earned a bachelor's degree from Cornell



University and her graduate degrees from the University of Florida. Her extension programs focus on the impact of nutrition on whole-farm nutrient balance. Applied research evaluates livestock emissions and potential mitigation techniques. Powers serves on numerous committees related to air quality and nutrient management to influence policymaker knowledge of animal agriculture. She

participates in three regional committees that address manure management issues related to air and nutrient quality. Powers currently serves on the FASS Committee for Environment, Waste Management, and Ecosystems.

ASAS/ADSA Outstanding Young Agribusiness Award Sponsored by ExSeed Genetics

Joy M. Campbell received a B.S. in dairy science from Iowa State University and an M.S. in ruminant nutrition and Ph.D. in nutritional sciences from the University of Illinois at Urbana-Champaign. Upon graduation, Dr. Campbell joined the Iowa State University swine nutrition group as a postdoctoral research associate working to develop value-added corn for swine nutrition applications. Following her postdoc work, Dr. Campbell joined APC, Inc., working in research and development. Dr. Campbell's research at APC includes development of new products for improved animal

health and nutrition. Dr. Campbell works with multiple species and has conducted research trials both domestically and internationally. Her work has focused on the role of functional proteins on the intestinal health of domestic animals. When administered orally, functional proteins can exert some physiological response, often associated with the immune system. Joy has documented significant changes in animal health in response to the administration of functional proteins in the diet. Her work has led to the development of several innovative products for the swine, poultry, aquaculture, and pet food industries.

Dr. Campbell also provides technical support worldwide. Dr. Campbell is a member of several professional associations and has authored or co-authored 15 refereed publications, 25 abstracts, 1 patent, and 16 proceedings and technical publications. Dr. Campbell and her husband, Rick, reside in Ames, IA, with their daughter, Cara.



Innovation in Dairy Research Award
Sponsored by
Land O'Lakes

Sarah L. Kolath graduated with high honors from Michigan State University with a B.S. in animal science in 2001. As an undergraduate, she worked at the Michigan State University Dairy Farm and participated in Dairy Club. Through these experiences, Sarah became interested in the dairy industry and decided to pursue a M.S. degree in reproductive physiology. In 2002, she joined Dr. Matthew Lucy's laboratory at the University of Missouri. During her master's degree program, Sarah has been studying gene expression in heat-

stressed dairy cattle using microarrays. This research is helping to reveal molecular mechanisms through which heat stress affects reproductive tissues, such as the dominant follicle, the corpus luteum, and the uterus in dairy cattle.

NATIONAL PORK BOARD: RESEARCH AWARD. Effects of sire line, sire, and sex on plasma

urea nitrogen (PUN), body weight, and backfat thickness in offspring of Duroc and Landrace boars and heritabilities. J. Klindt*, R. M. Thallman, J. T. Yen, and T. Wise, USDA-ARS, U.S. Meat Animal Research Center.

*John Klindt conducts porcine physiology, endocrinology, and nutrition research at the Meat Animal Research Center. His research capitalizes on the collaborative opportunities to



gain an understanding of age-related changes in hormone secretion, responses to pST and IGF-I administration, relationships among somatotrophic hormone secretion and animal performance, and nutritional influences on pubertal development. He served as editor of the growth and development section of the *Journal of Animal Science*. Dr.

Klindt received his training at the University of Manitoba Health Sciences Center, Washington State University, University of Idaho, and University of Wyoming.

NATIONAL PORK BOARD: RESEARCH AWARD. Increasing weaning age improves pig growth performance and profitability in a three-site production system. R. G. Main*, S. S. Dritz, M. D. Tokach, R. D. Goodband, and J. L. Nelssen, Kansas State University, Manhattan.

*Rodger Main is a doctoral candidate working on commercially applied swine research with the Food Animal Health and Management Center and Department



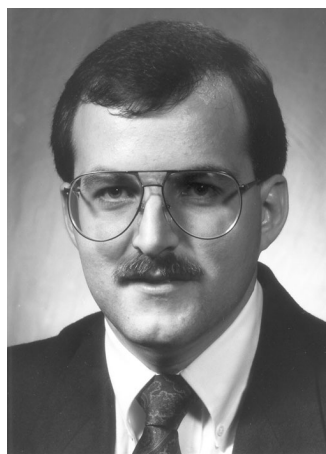
of Animal Science at Kansas State University. Research efforts have been focused on evaluating the effects of weaning age in isowean pig production, along with a series of lysine requirement evaluations. These projects have all been completed in commercial facilities through cooperative arrangements between commercial producers and Kansas State University. Rodger received his DVM from Iowa

State in 1996 and has been employed by the Midwestern division of Murphy Farms since that time.

NATIONAL PORK BOARD: EDUCATION AWARD. Measuring pork quality to educate producers

and allow them to obtain value-added marketing opportunities. M. T. See*, North Carolina State University, Raleigh NC.

*M. Todd See graduated from Michigan State University with a B.S. degree and received his M.S. and Ph.D. degrees from the University of Georgia. In 1992,



he joined the faculty at North Carolina State University as an assistant professor. In 1998, he was promoted to associate professor and named swine commodity coordinator. While at NCSU, Dr. See has developed internationally recognized extension and research programs in swine genetics and management. He works closely with all pork producers, providing specialized educational programs to vertically integrated producers and assisting independent producers in production, cooperative buying, and value-added marketing. He resides in Raleigh, NC, with his wife, Leslie, and their two children.

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**Graduate Student Research Paper
Competition—Ph.D. Division
Sponsored by
Akey**

First Place

Rodger Main is a doctoral candidate working on commercially applied swine research with the Food Animal Health and Management Center and Department of Animal Science at Kansas State University. Research efforts have been focused on evaluating the effects of weaning age in isowean pig production, along with a series of lysine requirement evaluations. These projects have all been completed in commercial facilities through cooperative arrangements between commercial producers and Kansas State University. Rodger received his DVM from Iowa State in 1996 and has been employed by the midwestern division of Murphy Farms since that time.

Second Place

Mark H. Whitney was raised on a small diversified farm south of Mapleton, MN. He completed his B.S. degree in 1995 from North Dakota State University, majoring in animal science. Mark then worked as an assistant swine extension assistant while completing a M.S. degree in animal nutrition from North Dakota in 1997. His research evaluated hull-less oat inclusion in practical nursery diets. Upon completion, Mark accepted a full-time research fellow position in the De-

partment of Animal Science, University of Minnesota. After 2 yr, Mark began a Ph.D. program in nutrition under the guidance of Jerry Shurson; Mark is currently finishing his Ph.D., which focuses on using nutritional manipulation to improve gastrointestinal health during an ileitis challenge.

Third Place

Justin Sexten was raised on a diversified livestock and grain farm near Washington Court House, OH. He received his B.S. degree in animal sciences from the University of Kentucky in 1998. Justin received his M.S. degree in 2001 while working with Dan Faulkner at the University of Illinois at Urbana-Champaign. His thesis was entitled "Weaning age and prepubertal dietary management affects performance of crossbred beef heifers." Justin is currently finishing his Ph.D. in ruminant nutrition at the University of Illinois with Dan Faulkner. His research focuses on prepubertal dietary protein and the age at first calving on the reproductive and lactation characteristics of developing replacement heifers.

**Graduate Student Research Paper
Competition - M.S. Division
Sponsored by
DeKalb Feeds, Inc.**

First Place

Justin Luther was raised on a small-acreage sheep enterprise near Colby, WI. During his formative years, he was actively involved in 4-H and FFA. He earned his B.S. degree in agricultural education with a minor in animal science from the University of Wisconsin at River Falls. While attending there, he was an active member of Block & Bridle and the Intercollegiate Livestock Judging Team. Justin graduated from Wisconsin in 2002 and accepted a graduate position in reproductive physiology at North Dakota State University under the guidance of Dale Redmer and Anna Grazul-Bilska. His research focused on the application of ovine assisted reproductive technologies, and he completed his M.S. degree in December 2002. Justin is currently pursuing a Ph.D. in nutrition and pregnancy interactions at North Dakota and in collaboration with the Rowett Research Institute, in Aberdeen, Scotland, under the guidance of Lawrence Reynolds, Dale Redmer, and Jacqueline Wallace.

Second Place

Dan Shike grew up on a livestock and grain farm in Alexis, IL. He was active in 4-H and FFA and was a member of the state livestock judging team. After graduation in 1996, he attended Black Hawk East. He received his A.S. degree in 1998 and transferred to Kansas State University. He was a member of the live-

stock judging team, academic quadrathlon team, and the Gamma Sigma Delta Honor Society of Agriculture. He earned his B.S. degree in animal science in 2000. Dan is currently enrolled in a master's program at the University of Illinois under the direction of Dan Faulkner and Doug Parrett, studying early weaning and creep feeding. Dan will receive his M.S. in 2003 and plans to continue his education at the University of Illinois.

Third Place

Jim MacDonald grew up on a registered cow/calf ranch near Bismarck, ND. He was involved with the American Salers Junior Association, 4-H, and FFA. He received his B.S. in animal science from North Dakota State University in 1999. While attending North Dakota, Jim was active in FarmHouse Fraternity, Saddle and Sirloin Club, and Blue Key National Honor Fraternity. Jim participated in the University of Nebraska feedlot internship program and then began working on his M.S. degree from the University of Nebraska under the guidance of Terry Klopfenstein. His master's thesis focused on sorting strategies for cattle grown in a yearling production system. He is currently working on his Ph.D. in ruminant nutrition at the University of Nebraska.

**Undergraduate Student Research
Paper Competition
Sponsored by
Midwest Branch ADSA
and Midwestern Section ASAS**

First Place

Ann Harvey grew up on a dairy farm near Ree Heights, SD. While growing up, she was active in 4-H, earning trips to several national conferences. She graduated from Miller High School in 1998 and began

college at South Dakota State University. While at South Dakota, Ann participated in Dairy Club and in Block & Bridle, and was on the 2001 Dairy Products Judging Team. During the summer of 2001, she interned at the Land O'Lakes Answer Farm in the calf milk replacer department. Ann received a Joe Nelson Undergraduate Research award that enabled her to do a research project that focused on determining the accuracy of an on-farm kit for detecting failure of passive transfer. Ann graduated in May 2003 with dairy production and animal science degrees.

Second Place

Ben Stegman grew up near Cavalier, ND, the oldest of 11 children. During his youth, he raised chickens, ducks, and dairy goats. As his interest in animals intensified and when it came time to get a job, he spent 3 yr on a farrow-to-finish hog farm. When the farm closed, he worked for another local farmer on his beef herd. During these years, Ben volunteered almost 1,500 h at a local vet clinic; Stegman is a veterinary assistant there now. He currently studies pre-vet at North Dakota State University and works with the NDSU ARS department as a research assistant.

Third Place

David Spickler grew up on a ranch in central North Dakota. His family runs 275 head of Angus cattle, along with 80 commercial cows. He is a junior at North Dakota State University majoring in animal science. At North Dakota, he is active in Ag Ambassadors, Judging Club, and the Saddle and Sirloin Club. David will be managing the 78th Little International, a livestock show that is the state's largest student-run production. He competed at the National Meat Animal Evaluation contest and the Midwest Regional Quadrathlon. At the National Junior Angus Show, he was a member of the winning Quiz Bowl team.