

## Iowa Swine Day Pre-conference Symposium

Wednesday, July 24, 2024, 1:00 PM – 5:00 PM, CDT  
Scheman Building, ISU Campus, Rm 004, Ames, IA

### Soybean Meal 360<sup>o</sup> — Expanding our horizons through discoveries and field-proven feeding strategies for improving pork production.



**David Holzgraefe, Ph.D., Owner, Holzgraefe Innovative Services, LLC, Holland, MI**

Dave Holzgraefe earned his B.S. in agricultural science, M.S. in ruminant nutrition (Jesse Hackett fellow), and Ph.D. in nonruminant nutrition from the University of Illinois. He served on the faculty of the Department of Animal Sciences, University of Illinois and in various research capacities with Farmland Industries, Inc., with primary responsibilities related to animal nutrition/feed processing technology research and evaluating emerging technologies for multiple agricultural applications. He joined MoorMans, Inc., as senior manager of swine research and was named vice president of research, following the acquisition of the Moorman Manufacturing Company, Inc., by the Archer Daniels Midland Co. His ADM responsibilities focused on leading the animal nutrition and feed technology research program, including new applications and product development initiatives

with multiple ADM business units. These initiatives included developing strategic alliances with allied industries and university faculty to facilitate technology commercialization and encourage professional development opportunities for research colleagues. Dave established Holzgraefe Innovative Services, LLC to provide innovative consulting services to individuals and businesses producing and/or using agricultural-based products. This initiative includes identifying channels to successfully commercialize technologies for new applications that will add value to agricultural commodities/specialty ingredients and meet identified consumer needs.



**Gordon Denny, General Manager, Gordon Denny, LLC, Thornton, CO**

Gordon Denny grew up working on his family farm and restaurant in southern Indiana. He is a former U.S. Marine Corps Infantry Officer obtaining rank of Major. Gordon retired from Bunge after a 28-year career. Half of his career was spent in commodity trading (director soybean procurement) and half as soybean processing plant manager at multiple locations. He has served as a consultant for United Soybean Board and United States Soybean Export Council since his retirement. He also advises seed technology companies on the quality and value of soybeans and actively trades equities and select commodities. Gordon's specific areas of expertise include: How to buy, sell, and hedge various commodities; use of futures markets, board crush; how to run and

manage soybean processing plants; extensive experience with rail, barge and vessel logistics. Gordon has visited 12 foreign countries helping them utilize U.S. soybeans and soybean meal, and trouble-shoot processing plants to increase volumes, efficiencies and margins. He also has extensive knowledge of processing plant operations and how operations impact the quality of finished products. Gordon graduated from DePauw University. He is an honor graduate of all classes/courses in USMC. He was former board of directors for National Grain and Feed Association, National Oilseed Processors Association, and, during his career, trained in six-sigma, ISO 9001, attended personnel management classes at Pepperdine University, attended advanced leadership/management training at Insead University in France, Agribusiness Management at Purdue University, and senior marketing/management classes at Washington University, St Louis, Missouri.



**Micah Pope, M.S., Senior Consultant, Centrec Consulting Group, Savoy, IL**

Micah Pope is a senior consultant at Centrec Consulting Group, LLC, and has been with the firm for 15 years. His current work involves linking grain and oilseed quality to differentiated value propositions by collecting and analyzing data on the key drivers that impact intrinsic value of soybeans, soybean meal, and soybean oil. This includes the development of decision tools that simplify complex systems and enable stakeholders to communicate product value. His skill set includes economic and market analysis, group facilitation, data analysis, and research project management. Micah received a B.S. in agricultural economics from the University of Illinois and his M.S. in agricultural economics from Purdue University.

Micah grew up on a farm in Western Illinois and is a graduate of the Illinois Agricultural Leadership Program.



**Aaron Gaines, Ph.D., Managing Partner, Ani-Tek, Shelbina, MO**

Aaron Gaines is a managing partner for Ani-Tek. Aaron completed his bachelor's in agriculture, and his masters and doctorate in animal science at the University of Missouri-Columbia. He has worked in the livestock feed industry for nearly 20 years and as a managing partner of Ani-Tek, he is responsible for product development and providing technical support to customers on new product technologies for livestock. He has authored or co-authored 38 peer-reviewed scientific journal articles, 100+ abstracts, and has been an invited speaker at numerous nutrition seminars both nationally and internationally. He has received many awards and recognitions for his research which include National Pork Board Innovation in Applied Research Award; Omega Protein

Innovative Research Award; International Ingredients Pinnacle Research Award; and ASAS Outstanding Agribusiness Award. Aaron and his wife, Selena, reside with their two children in Shelbina, Missouri.



**Hans H Stein, Ph.D., Professor of Nutrition in the Division of Nutritional Sciences and the Department of Animal Sciences, University of Illinois, Champaign, IL**

Hans H. Stein is a Professor of Nutrition in the Division of Nutritional Sciences and the Department of Animal Sciences at the University of Illinois, where he has responsibilities in research, extension, and teaching. His research focuses on feed ingredient evaluation, digestibility and utilization of energy and nutrients by pigs and humans, and development of systems for accurate diet formulation. Dr. Stein has mentored approximately 135 graduate students, post-doctoral research fellows, interns, and visiting scientists. He has authored or co-

authored approximately 360 peer-reviewed publications and he has given invited presentations on nutrition in 41 countries.



**Amy Petry, Ph.D., Assistant Professor, University of Missouri, Columbia, MO**

Amy Petry is an assistant professor in the Division of Animal Sciences, where she leads the MU Monogastric Nutrition Research Lab. Here, her research is largely centered around enhancing energy utilization, the role of dietary fiber in swine diets and investigating the non-nutritive aspects of dietary ingredients and their influence on nutrition and health. Additionally, she works collaboratively within MU to create nutritional biomedical pig models. Through her research, Amy aims to improve the health, sustainability and production of swine through implementing basic and innovative science to develop, advance or improve applied nutrition solutions. Previously, she was an assistant professor of nutritional physiology at Texas Tech University. In her young career, she has secured substantial research grants from federal sources and industry, and published over 60 research articles,

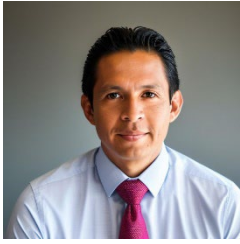
reports, extension documents, abstracts and book chapters. Amy completed her Ph.D. at Iowa State University in 2020.



**Eric van Heugten, Ph.D., Professor, North Carolina State University, Raleigh, NC**

Eric van Heugten is a professor of nutrition and a swine nutrition extension specialist in the Department of Animal Science at North Carolina State University. He earned his B.S. and M.S. degrees in animal science from Wageningen University in The Netherlands and his Ph.D. degree and post-doctoral training from North Carolina State University. Subsequently, he worked as swine research nutritionist at the Wayne Feed Division of Continental Grain Company in Chicago where he developed nutrition and feeding programs for swine and provided leadership in the development of a swine modeling program. In his current role at NC State, he focusses on providing relevant, research-based nutritional and management solutions to support the production

of responsible, healthy, sustainable, and affordable pork. Research includes the evaluation of abatement strategies to reduce the impact of heat stress in pigs and sows, the evaluation of alternative ingredients and enzymes on production efficiency, the application of feed additives to promote health in nursery pigs in the absence of growth-promoting antibiotics, and the nutritional management of manure and recycling of animal waste products.



**David Rosero, Ph.D., Assistant Professor of Animal Science, Iowa State University, Ames, IA**

David Rosero is an assistant professor of animal science at Iowa State University. His research program focuses on conducting applied research on swine nutrition and the practical application of smart farming, with special emphasis on generating new knowledge and developing technologies that increase sustainability, improve animal survivability, and maximize lifetime productivity. He is passionate about training and inspiring the new generation of professionals in the development of innovations to advance the swine industry. He previously served as the technical officer for The Hanor Company, overseeing nutrition, research, and innovation efforts. His doctorate research focused on determining the nutritional value of dietary lipids and essential fatty acids on sow long-term productivity. David's current research portfolio includes: 1) nutritional interventions to improve animal welfare and

survivability; 2) dietary fiber utilization and function in pigs; and 3) the development and validation of smart farming technologies. Recognition for his research includes an Emerging Scholar Award by the American Society of Animal Science and a Research Innovation Award by the National Pork Board.



**Bart Borg, Ph.D., Vice President of Feed and Nutrition, Passel Farms, Ames, IA**

Barton Borg is the vice president of feed and nutrition with Passel Farms . In this role, Bart leads the feed manufacturing and nutrition team supporting Passel Farms production. He received his degrees from Iowa State University (B.S.) in 1982 and South Dakota State University in 1988 (M.S. and Ph.D.). Prior to this role, he spent 9 years as the director of nutrition for Standard Nutrition Services and 14 years as the director of feed operations for Murphy Brown LLC. During his time with Murphy Brown, Bart was involved in nutrition, ingredient procurement, feed manufacturing, R&D activities, and ISO22000 implementation across the Murphy Brown feed-milling system. Prior to joining Murphy Brown, Bart held positions with companies involved in the swine production and feed supply industries. Bart manages a family farming business in northern Iowa that includes 16,000 contract finishing spaces along with a few row crop acres. Bart and his wife, Laureen, live in Ames, Iowa, have three children and two grandchildren.



**R. Dean Boyd, Ph.D., Consultant, Animal Nutrition Research, Alvaton, KY**

R. Dean Boyd is the former technical director and nutrition leader for the Hanor Company and its Triumph Foods group (2002–2020). His team managed the nutrition program for 85,000 sows and 2.35 MIL pigs. His team proved that specific amounts of essential fatty acids resolved seasonal infertility in sows, that SBM mitigates disease stress in growing pigs and the profound life-time effects of low weaning age. His team's research led to a better understanding of energy and amino acid nutrition. He is an adjunct professor at North Carolina State and Iowa State Universities in animal nutrition.