

2021 Florida Ruminant Nutrition Symposium

Speaker Biographies



Dr. Terry Engle is a professor and associate department head in the Department of Animal Sciences at Colorado State University. Dr. Engle is recognized for his research in beef cattle nutrition, in particular for studying trace mineral metabolism and supplementation in feedlot and grazing beef cattle and impacts of mineral sources on digestion in cattle.



Dr. John Arthington is a professor and chair in the Department of Animal Sciences at the University of Florida. Dr. Arthington is recognized for his research in cow-calf nutrition, in particular for studying mineral supplementation in grazing beef cattle and nutritional and management methods to minimize stress and improve calf health post-weaning.



Dr. Kenneth Griswold is the ruminant technical manager for Micronutrients in the USA. Dr. Griswold completed his graduate work in ruminant nutrition and rumen microbiology at West Virginia University and at the University of Illinois, and a post-doctorate at the Ohio State University. After a period in academia at Southern Illinois University and Penn State University, Dr. Griswold moved to the private sector working in technical service and research in ruminant nutrition initially with Kemin Industries and, more recently, with Micronutrients.



Dr. Frank Mitloehner is a professor in the Department of Animal Sciences at the University of California Davis. Dr. Mitloehner has pioneered the study of the contributions of livestock production to emissions in agriculture. He has quantified the emissions of ammonia, dust and odors in dairy and beef production and established guidelines for reducing the footprint of animal agriculture to carbon emissions.

Dr. Mitloehner has extensively advocated for the use of technologies that improve efficiency of production and reduce the footprint of animal products. He is very active in educating consumers through the use of social media at @GHGGuru.



Dr. Juan Tricarico is the vice-president for sustainability research at Dairy Management Inc. Juan completed his PhD degree in ruminant nutrition at the University of Kentucky. After a period of 10 years as a research manager for ruminant nutrition at Alltech Inc., Dr. Tricarico joined Dairy Management Inc. initially as the director for the Cow of the Future™ project and then as vice-president for sustainability research. He collaborates with scientists, nutritionists, veterinarians, and producers to clarify the role of animal agriculture and develop solutions to minimize the footprint of dairy production.



Dr. Jim Wallace is the senior vice president for environmental research at Dairy Management Inc. Dr. Wallace completed his PhD in Biological and Biosystems Engineering at Michigan State University.

Before joining Dairy Management Inc., Dr. Wallace was the senior vice president of engineering & business development for Newtrient, LLC where he was responsible for developing and leading new technology and project initiatives, supporting environmental market-based development efforts and led the technical phase of the dairy industry's Net Zero Initiative.

At Dairy Management Inc., he is responsible for leading strategy and oversight of the environmental science and research program to position US dairy in a global food system. He also leads the foundational work for environmental research for the dairy industry's Net Zero Initiative.



Caleb Harper is the executive director of the Dairy Scale for Good (DS4G) Initiative working to help US dairies pilot and integrate new technology and management practices to reach net zero emissions or better while increasing farmer livelihood.

Harper is a National Geographic Explorer, a member of the World Economic Forum (WEF) New Vision for Agriculture working group, a member of the Annenberg Foundation working group on food security, and a member of the World Wildlife Fund (WWF) thought leadership advisory group. Harper's

agricultural work has been featured on 60 Minutes, The Wall Street Journal, Financial Times, WIRED, Forbes, Popular Science, among other vehicles of communication.



Dr. Jesse P. Goff is an emeritus professor in the College of Veterinary Medicine at Iowa State University. Before joining Iowa State, Jesse spent many years as a research scientist with the National Animal Disease Center within the Agricultural Research Service of the USDA where he and colleagues studied mineral and vitamin metabolism in dairy cows, in particular aspects related to hypocalcemia in dairy cattle. During his years with the USDA, Dr. Goff developed acidogenic products for prevention of hypocalcemia that are now marketed to dairy producers. After leaving the USDA, he joined

West Central Soy (now Landus Cooperative) as director of technical support. From Landus, Dr. Goff returned to academia at Iowa State University where he studied the role of vitamin D on animal and human health.



Dr. Holger Martens is an emeritus professor in the Department of Veterinary Physiology, Freie Universitat of Berlin, Germany. Dr. Matens is a renowned expert on gastrointestinal physiology in ruminants, particularly on mechanisms of mineral transport across the rumen and intestinal epithelia of cattle and sheep. His work has elucidated the mechanisms of transport of magnesium in the digestive tract of ruminants and established dietary strategies to prevent hypomagnesemia in cattle.



Dr. Gerhard Breves is a professor and director of the Institute of Physiology of the Veterinary University of Hanover. Dr. Breves is a renowned expert on gastrointestinal physiology and metabolism in ruminants. His research focuses on the physiology of the digestive tract in ruminants, mineral absorption and metabolism, and comparative aspects of rumen and hind-gut microbial metabolism.



Dr. Mirja Wilkens is a professor of animal nutrition and head of the Institute Animal Nutrition, Nutritional Diseases and Dietetics at the University of Leipzig, Germany. Dr. Wilkens completed her post-graduate studies in Hannover on transepithelial mineral transport in ruminants. Her research focuses on vitamin D metabolism and mineral homeostasis in ruminant species, calcium metabolism in particular.