

2014 JAM Symposia

Confirmed speakers as of December 18, 2013

Please note speakers are subject to change without notice.

- ADSA Foundation: Meeting the Present and Future Demand for Employees with a PhD in Dairy Science (Tuesday, July 22, 2014; 2:00 pm-5:00 pm)
 - Current problems with funding PhD programs. *Lance Baumgard, Iowa State*
 - Current situation for finding qualified people with a PhD; an industry perspective, dairy production. *William Weldon, Elanco*
 - Current situation for finding qualified people with a PhD; an industry perspective, dairy foods. *Charlotte Allen, Kraft Foods*
 - Short term employment opportunities in industry for people pursuing graduate degrees. *Cindy Johnson, Land O'Lakes*
 - Current situation for finding qualified people with PhDs, an academic prospective. *Vikram Mistry, South Dakota State University*

- ADSA MILK Symposium: Water: Considerations for the Future of Animal and Food Production and Processing (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
 - Drought Devastation: Lessons to Learn in Agriculture. *Richard Stillman, ERS, USDA.*
 - Water Sources and Chemical Quality Considerations for Animal Production and Food Processing. *Andrea Dietrich, Department of Civil and Environmental Engineering, Virginia Tech, Blacksburg.*
 - U.S. Dairy Water Footprint in Context. *Ying Wang, Dairy Research Institute, Rosemont, IL.*
 - Water Rights: International and Domestic Choices for the Future. *Speaker to be identified/confirmed.*
 - Water Case Studies: Examples in Dairy and Beef Production and Food Processing – “Rethinking the dairy supply chain: Innovative opportunities for creating value, efficiency and sustainability.” *Ryan Sirolli, Cargill Dairy Enterprise Group*

- ADSA Southern Section Symposium: Housing Options for Hot, Humid Climates (Monday, July 21, 2014; 2:00 pm - 5:00 pm)

- ADSA-ASAS Northeast Section Symposium: Opportunities to Meet Changing Consumer Preferences for Animal Products (Wednesday, July 23, 2014; 10:30 am - 12:30 pm)
 - The “Greek yogurt effect”.:” Impact on milk production and the dairy industry in New York. *Tom Overton, Cornell University*
 - New approaches to low-fat meat products to better meet consumer demands. *Ed Mills, Pennsylvania State University*
 - Curb appeal: Improving the color and packaging of beef. *Richard Mancini, University of Connecticut*
 - The Science and Art of Artisan Cheese making. *Kerry Kaylegian, Pennsylvania State University*

- Animal Frontiers Symposium: Focus on the Human-Animal Bond

- Animal Health I

- Animal Health II

- Animal Science in the Real World (Panel Discussion followed by lunch) (Wednesday, July 23, 2014; 10:30 am - 12:30 pm)
 - Panel Members:
 - *Forrest Roberts, National Cattleman's Beef Association*

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- *Ross Wilson, Texas Cattle Feeders Association*
- *Juan Tricarico, Dairy Research Institute*
- *Chris Hostetler, National Pork Board*

- ARPAS Symposium: Customer/Consumer confidence in the livestock industry - Ethics (Tuesday, July 22, 2014; 9:30 am - 12:30 pm)
 - Feed industry perspective. *Lawrence Dwain Bunting, ADM Alliance Nutrition, Lubbock, TX*
 - University perspective. *Michael L. Galyean, Texas Tech University, Lubbock, TX*
 - Gate keeper – ARPAS. *Kenneth Cummings, ARPAS, Stockton, NJ*

- ASAS Cell Biology Symposium: Long-Term Consequences of Maternal and Neonatal Nutrition for Pregnancy and Postnatal Outcomes (Thursday, July 24, 2014; 8:30 am - 11:30 am)
 - Lactocrine programming of postnatal growth/development. *Frank (Skip) Bartol, Auburn University*
 - Nutritional and Hormonal Regulation of Neonatal Gut Health and Disease. *Doug Burrin, USDA-ARS Children's Nutrition Research Center, Baylor*
 - Intrauterine growth restriction and programming of diabetes and obesity. *Rebecca Simmons, University of Pennsylvania*

- ASAS Graduate Student Symposium: Research Ethics: What are they and why are they needed? (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
 - What are research ethics? *Michelle Calvo-Lorenzo, Oklahoma State University*
 - Why are research ethics important and how do they affect academia? *Mike Galyean, Texas Tech University*
 - Why are research ethics important and how do they affect industry? *Mike Brown, Global Animal Products, Amarillo, TX*

- ASAS-ASN: Preconference Workshop (Sunday, July 20, 2014; all day)

- Beef Cattle Nutrition Symposium: Beef Cow Nutrition (Tuesday, July 22, 2014; 2:00 pm-5:00 pm)
 - Prediction of dry matter intake on forage-based diets. *Paul Beck, University of Arkansas*
 - Revisiting energy requirements based on milk production. *John D. Arthington, University of Florida*
 - Fetal programming - part 1. *Nathan M. Long, Clemson University*
 - Fetal programming - part 2. *Joel S. Caton, North Dakota State University*

- Beef Species: Making more, but using less: The future of the U.S. beef industry with a reduced cowherd and the challenge to feed the US and the world; Session I: The U.S. stocker and feedlot industries (Monday, July 21, 2014; 9:30 am - 12:30 pm)
 - Current state of the U.S. and North American Beef Industry. *Randy Blach, Cattle-Fax*
 - What is the future of genetic selection and cattle sorting technologies in the stocker and feedlot industries? *Bob Weaber, Kansas State University*
 - Nutritional strategies to improve efficiency in the stocker and feedlot industries in a consumer conscious market. *Monty Kerley, University of Missouri*
 - Beef quality vs. quantity in today's market. *Brad Johnson, Texas Tech University*
 - Economic considerations related to rebuilding the U.S. cowherd. *Lee Schultz, Iowa State University, and Glynn Tysor, Kansas State University*

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- Beef Species: Making more, but using less: The future of the U.S. beef industry with a reduced cowherd and the challenge to feed the US and the world; Session II: The U.S. cow-herd (Monday, July 21, 2014; 2:00 pm - 5:00 pm)
 - Where can we support more cows? Overview of the beef cow herd and land use, CRP issues, federal grazing land issues. *John Patterson, NCBA*
 - How can we improve replacement heifers as we rebuild the cowherd? *Scott Lake, University of Wyoming*
 - Can we improve cow efficiency or manipulate feeding strategies to reduce inputs? *Harvey Freetly, US Meat Animal Research Center, USDA-ARS*
 - Can we build the cowherd by increasing longevity of females? *Andy Roberts, Ft. Keough Livestock and Range Research Laboratory, USDA-ARS*
 - Can we develop a cow-less cowherd? Using sexed semen and early weaning in single-calf heifer systems. *George Seidel, Colorado State University*

- BetaAgonist: What the Data Say? (Sunday, July 20, 2014; all day)
 - Muscle Fat/Biology
 - Muscle-*Brad Johnson, Texas Tech University*
 - Fat-*Steve Smith, Texas A&M University*
 - Live/Carcass Performance
 - Swine-*Todd See, North Carolina State University*
 - Beef-*Jon Beckett, California*
 - Carcass Transfer/Composition
 - Swine-*Eric Berg, North Dakota State University*
 - Beef-*Ty Lawrence, West Texas A&M University*
 - Sensory Characteristics (color/palatability)
 - Swine-*Dustin Boler, University of Illinois*
 - Beef-*Chance Brooks, Texas Tech University*
 - Trade Barriers
 - *Paul Clayton, United States Meat Export Federation*

- Bioethics: Effects of Science, Government, and the Public in Directing the Future of Animal Agriculture (Monday, July 21, 2014; 9:30 am - 12:30 pm)

- Breeding and Genetics: Is modeling still important in the age of genomic selection? (Tuesday, July 22, 2014; 9:30 am - 12:30 pm)
 - The evolution and future of genetic models in dairy cattle breeding. *Flavio Schramm Schenkel, University of Guelph, Guelph, ON, Canada*
 - The progression of exploitation of data structure. *Robert L. Weaber, Kansas State University, Manhattan, KS*
 - Practical experiences in genetic modeling. *Esa Mantysaari, MTT Agrifood Research Finland, Jokioinen, Finland*
 - Experiences in bioinformatics. *Luc Janss, Aarhus University, Tjele, Denmark*

- Companion Animals: Companion animals and sustainability: Today's impact on the future (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
 - Nutritional Sustainability of Pet Foods. *Rebecca Carter, The Nutro Company*
 - How Sustainability Influences Ingredient Sourcing, Quality and Safety. *David Meeker, National Renderers Association and Fats & Protein Research Foundation*
 - Sustainability of Non-traditional Companion Animals. *Gordon Ballam, Purina Land-O-Lakes*

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- Sustainable Ecosystems: Cats and Their Effect on Wildlife Populations . *Beth Kitts-Morgan, Berry College*
- Future Aspects and Perceptions of Companion Animal Nutrition and Sustainability. 2013 Corbin Award Winner: *Kelly S. Swanson, University of Illinois*
- Companion Animals: Preparing future companion animal biologists (Monday, July 21, 2014; 2:00 pm - 5:00 pm)
 - Challenges in Training Companion Animal Biologists: Missing the Research Component, How to Overcome it? *John McNamara, Washington State University*
 - Extension Outreach: Use of Technology in Companion Animal Biology and Nutrition. *Lisa Karr-Lilienthal, University of Nebraska*
 - Preparing for a Career in the Companion Animal Industry. *Kate Shoveller, P&G PetCare*
 - How to Effectively Communicate Science with Pet Owners and Society. *Kadri Koppel, Kansas State University*
 - Round Table Discussion. Moderator: *Gregory Aldrich*
- Comparative Gut Physiology: Comparative Gut Physiology (all day) (Tuesday, July 22, 2014; 9:30 am - 12:30 pm and 2:00 pm - 5:00 pm (all day = 2 - 3 hour blocks))
 - Integrated responses to feeding: comparative aspects. *J. Furness, Univ. Melbourne Australia*
 - Gut physiology for ruminants. *E. Connor, USDA, Maryland*
 - Host-microbiome interactions during gut development across species: the role of milk. *T. McFadden, Univ. of Missouri*
 - Human nutrition, the gut microbiome, and immune system. *A. Kau, Washington Univ. School of Medicine*
 - Integration of nutrition and immune systems in poultry. *H. Lillehoj, USDA, Maryland*
 - Commensal microbiome effects on mucosal immune system development in the ruminant gastrointestinal tract . *P. Griebel, Univ. of Saskatchewan, Canada*
- CSAS Symposium: Understanding Feeding Behaviour to Improve Animal Well-being and Productivity (Tuesday, July 22, 2014; 9:30 am - 12:30 pm)
 - The psychobiology of feeding behavior and its cultural inflection. *Juan J. Villalba, Agricultural Experiment Station, Logan, UT*
 - The physiology of feed intake regulation. *Mike Allen, Michigan State University, East Lansing, MI*
 - Good eating habits lead to good growth and welfare of dairy calves. *Trevor deVries, University of Guelph, Guelph, Canada*
 - Feeding behaviour, productivity and welfare of dairy cows. *Marina Von Keyserlingk, University of British Columbia, Vancouver, Canada*
 - Feeding behaviour, productivity and welfare of sows. *Sandra Edwards, University of Newcastle, Newcastle Upon Tyne, United Kingdom*
- Dairy Foods: Advances in Delivery of Dairy Ingredients for Health and Functional Benefits (Monday, July 21, 2014; 2:00 pm - 5:00 pm)
- Dairy Foods: Dairy foods consumption, gut microbiota and human health (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
 - Probiotics and health benefits with reference to synthesis of gamma-aminobutyric acid (GABA) by selected probiotic bacteria. *Nagendra Shah, The University of Hong Kong, Hong Kong*

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- Gut microbiota, probiotics and CLA, USFA, trans-fatty acids and their relationship to health. *Harsharn Gill, RMIT University, Melbourne, Australia*
- Overview of whey protein based bioactives (including colostrum) in gut and health promotion. *Anne Pihlanto, MTT Agrifood Research Finland*
- Milk fat globule membrane components and gut health effects. *Robert E. Ward, Nutrition and Food Sciences, Utah State University*
- Dairy foods consumption, gut microbiota and human health. *Michael Lefevre, Utah State University*
- Dairy Foods: Milk Protein-Hydrocolloid Interactions: Recent Impacts (Tuesday, July 22, 2014; 2:00 pm-5:00 pm)
 - Functionality and structure of hydrocolloids in dairy foods. *Douglas H Goff, University of Guelph, Guelph, ON, Canada*
 - Exopolysaccharides- A world of opportunities. *Ashraf Hassan, South Dakota State University, Brookings*
 - A tale of in-body magnetic resonance imaging of foods and gut feelings. *Luca Marciani, Nottingham Digestive Diseases Centre, The University of Nottingham, Nottingham, UK*
 - Impact of starch on milk protein functionality in food applications. *Erhan Yildiz, Ingredion Incorporated, Bridgewater, NJ*
- EAAP: Equine Symposium (Thursday, July 24, 2014; 8:30 am - 11:30 am)
- Extension Education: Decision Support Tools in Extension (Wednesday, July 23, 2014; 10:30 am - 12:30 pm)
 - Evolution and use of the Estrus Synchronization Planner. *Sandy Johnson, Kansas State University*
 - Assessing the need, project development and impact of the National Swine Reproduction Troubleshooting and Management Guide. *Don Levis, Levis Worldwide Swine Consultancy*
 - Online decision support tools available for dairy farm management. *Victor Cabrera, University of Wisconsin-Madison*
- Food Safety: Global Challenges to a Safe Food Supply (Monday, July 21, 2014; 9:30 am - 12:30 pm)
 - Raw Milk - Is It Safe? *Bhushan Jayarao, Penn State University, University Park, PA*
 - The Shift from Reaction to Prevention for Animal Feedstuffs. *Dan McChesney, Office of Surveillance and Compliance, FDA/CVM*
 - Retailer Perspective of Food Safety in International Markets. *Natalie Dyenson- Senior Director, Supplier Food Safety at Walmart Stores, Inc., Bentonville, AR*
- Forages and Pastures: Use of marginal lands and fibrous byproducts in efficient beef and dairy production systems (Tuesday, July 22, 2014; 9:30 am - 12:30 pm)
 - Improving efficiency of production in pasture/range based beef and dairy systems. *Travis Mullinix, University of Tennessee, Crossville*
 - Forage breeding programs aimed at increasing productivity of marginal lands. *Brink Geoff, USDA-ARS, Madison, WI*
 - Improving soil health and productivity on marginal lands using managed grazing livestock. *Russell R James, Iowa State University, Ames, IA*
 - Optimizing use of fibrous residues in beef and dairy diets. *Galen E. Erickson, University of Nebraska - Lincoln, Lincoln, NE*

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- Joint Growth & Development and Meat Science & Muscle Biology - Applications of proteomics in animal production (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
- Horse Species: Advances in Equine Stem Cell Biology (Monday, July 21, 2014; 9:30 am - 12:30 pm)
 - Understanding the Link Between Inflammation and Muscle Satellite Cells in the Horse. *Sarah A. Reed, University of Connecticut, Storrs, CT*
 - Use of Mesenchymal Stem Cells in Bone Repair. *Kristen E. Govoni, University of Connecticut, Storrs, CT*
 - Equine cartilage stem cells. *James Macleod, University of Kentucky, Lexington, KY*
- Horse Species: Developmental Programming: Applications in the Horse (Tuesday, July 22, 2014; 2:00 pm-5:00 pm)
 - Overview of Developmental Programming. *Kim Vonnahme, North Dakota State University, Fargo, ND*
 - Glucorticoid Programming Of Development During Early Life. *Abigail Fowden, University of Cambridge, Cambridge, England*
 - Nutritional programming and the impact on mare and foal performance. *Josie Coverdale, Texas A and M University, College Station, TX*
- International Animal Agriculture: Global prospective of livestock production systems to meet the growing need for animal protein in human diets: impacts on production and human health. (Wednesday, July 23, 2014; 10:30 am - 12:30 pm)
 - Parallel comparisons of intensive meat production in developed and developing countries. What can we learn from each other's systems? *Ruben Barajas, Universidad de Sinaloa, Mexico*
 - Use of low quality feeds in intensifying livestock production systems. *Flavio Portela Santos, Uni de Sao Paulo, Brazil*
 - Food safety. What efforts are underway internationally to improve food safety? *Corey Bryant, Office of International Programs, FDA*
- Meat Science and Muscle Biology Invited Speaker: A discussion on Muscle Metabolism (Tuesday, July 22, 2014; 2:00 pm-5:00 pm)
- Milk Protein and Enzymes Committee: Protein functionality in cheese systems: Natural, process cheese and analogs
 - Commercial and Functional Considerations when formulating foods with dairy proteins. *Tony McCarthy, Schreiber Foods*
 - A model for the formation of the aggregated network in process cheese products that can be used to predict functional properties. *Lloyd Metzger, South Dakota State University*
 - Autocatalytic multistage structure formation during processed cheese manufacture. *Ulrich Kulozik, University of München*
 - Protein functionality in processed cheese - fundamental principles and practical observations. *David Reid, Fonterra*
 - Impact of emulsifying salts on milk proteins and process cheese properties. *John Lucey, University of Wisconsin*
- National Funding (followed by lunch panel) (Monday, July 21, 2014; 9:30 am - 12:30 pm)
- Nonruminant Nutrition: Functional Amino Acids: New Paradigm Shifts in Understanding Animal Protein Nutrition (Tuesday, July 22, 2014; 9:30 am - 12:30 pm)

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- Amino acid signaling for embryonic and fetal development. *Guoyao Wu, Texas A&M University, College Station, TX*
- The role of AA in protein synthesis in neonates. *Teresa A. Davis, Baylor College of Medicine, CNRC, Houston, TX*
- Tryptophan: functions beyond protein synthesis. *Sung Woo Kim, North Carolina State University, Raleigh, NC*
- Methionine and cysteine in cell signaling and nutrition. *Douglas G. Burrin, Children's Nutrition Research Center, Houston, TX*
- Glutamate and glutamine: Nonessential or essential amino acid. *Malcolm Watford, Rutgers, New Brunswick, NJ*

- Physiology and Endocrinology: Reproductive Success in Ruminants: A Complex Interaction Between Endocrine, Metabolic and Environmental factors (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
 - Recent advances in the hypothalamic control of reproduction. *Iain Clarke, Monash University, Clayton, Victoria, Australia*
 - Cellular and molecular mechanisms of heat stress related to bovine ovarian function. *Zvi Roth, The Hebrew University of Jerusalem, Rehovot, Israel*
 - Heat Stress in Reproduction / Post-partum Endometritis. *Jose E Santos, University of Florida, Gainesville, FL*
 - Mechanisms linking infection and innate immunity in the female genital tract with infertility in dairy cattle. *Iain Martin Sheldon, Swansea University, Singleton Park, Swansea, United Kingdom*
 - Influence of Stress on Male Reproductive Physiology. *Thomas H. Welsh, Jr., Texas A&M University, Department of Animal Science, College Station, TX*

- Joint Production, Management and the Environment & Ruminant Nutrition: Mitigation of greenhouse gas emission from cattle (Monday, July 21, 2014; 2:00 pm - 5:00 pm)

- Small Ruminant: Sustainable Small Ruminant Production Strategies to Meet Global Demands (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
 - Sustainable Production
 - *Pasture development and sustainable grazing management. Steven Hart, Langston University/Garza Inst*
 - *Internal parasite resistance and control. James Miller, Louisiana State University*
 - *Strategies for advancing small ruminant production efficiency*
 - *Genetic selection for enhanced production efficiency*
 - *Efficiency of small ruminant reproduction management. Marlon Knights, West Virginia University*
 - *Global challenges facing small ruminant production*
 - *Global and ethnic demands for small ruminant products. Gary Williams, Texas A&M University*
 - *Managing for a changing climate. Pauline Aad, Notre Dame University, Lebanon*

- Swine Species: Procedures and methodology for determining SID amino acid digestibility and energy of feedstuffs (Wednesday, July 23, 2014; 10:30 am - 12:30 pm)
 - Procedures and methodology for determining SID amino acid digestibility and energy of feedstuffs. *Hans Stein, University of Illinois*

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- Procedures and methodology for determining ME and DE of feedstuffs. *Layi Adeola, Purdue University*
- Procedures and methodology for determining NE of feedstuffs. *Martin Nyachoti, University of Manitoba*
- Swine Species Invited Speaker: Opportunities and challenges with the use of carbohydrase and protease enzymes in swine formulations (Monday, July 21, 2014; 9:30 am - 12:30 pm)
 - Opportunities and challenges with the use of carbohydrase and protease enzymes in swine formulations. *Ruurd Zijlstra, University of Alberta*
- Teaching/Undergraduate and Graduate Education: Pedagogy in the Animal Sciences: Understanding, Conducting, Analyzing, and Disseminating Teaching Research (Monday, July 21, 2014; 2:00 pm - 5:00 pm)
 - Effectiveness of teaching methodologies and the importance of assessing the value of changes in teaching style. *Josef Broder, University of Georgia*
 - Methodologies and strategies for student outcome assessments. *Jeffory Hattey, The Ohio State University*
 - Perspective on creative, engaging pedagogy in science disciplines. *Linda Thurston, Kansas State University*
 - Pedagogy research as a component of graduate student training and career development. *Linda Martin, The Ohio State University*
- Triennial Lactation/BOLFA (with Lactation Biology): Nutrigenomics in dairy cows (Sunday, July 20, 2014; all day)
- Workshop: Making your talk TED worth (Thursday, July 24, 2014; 8:30 am - 11:30 am)
- Workshop: Using Case Studies as a Means of Introducing Bioethics in the Education of Animal Science and Veterinary Medicine Students (Thursday, July 24, 2014; 8:30 am - 11:30 am)
- Hot Topic Symposia (TBD)