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- 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; Room 2102A)
  - 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
  - Current situation for finding qualified people with PhDs, an academic prospective. Vikram Mistry, South Dakota State University
  - Short term employment opportunities in industry for people pursuing graduate degrees. Cindy Johnson, Land O’Lakes

- 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; Room 2101)
  - Drought Devastation: Lessons to Learn in Agriculture. K. Matthews, ERS, USDA, Washington, DC.
  - 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.
  - Rethinking the dairy supply chain: Innovative opportunities for creating value, efficiency and sustainability” Ryan Sirolli, Cargill Dairy Enterprise Group, Windsor, CO.

- ADSA Southern Section Symposium: Housing Options for Hot, Humid Climates (Monday, July 21, 2014; 2:00 pm - 5:00 pm; Room 2102A)
  - Impacts of heat stress on cow and calf. Sha Tao, University of Georgia, Tifton.
  - Implications of overstocking on the behavior, health, and productivity of dairy cows in the Southeast. Peter D. Krawczel, The University of Tennessee, Knoxville.
  - Managing heat stress in dairy calves and heifers: Housing considerations. Stephanie Ward, Mississippi State University, Mississippi State.
  - Compost bedded pack barns as a lactating cow housing system for the Southeast. Jeffery M. Bewley, University of Kentucky, Lexington.

- ADSA-ASAS Northeast Section Symposium: Opportunities to Meet Changing Consumer Preferences for Animal Products (Wednesday, July 23, 2014; 10:30 am - 12:30 pm; Room 3501B)
  - The “Greek yogurt effect”: Impact on milk production and the dairy industry in New York. A. Novakovic, Cornell University
  - New approaches to low-fat meat products to better meet consumer demands. Ed Mills, Pennsylvania State University
  - The Science and Art of Artisan Cheese making. Kerry Kaylegian, Pennsylvania State University

- Animal Science in the Real World (Panel Disscussion followed by lunch) (Wednesday, July 23, 2014; 11:00 am - 2:00 pm; Room 2101)
  - Panel Members:
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- 30,000 foot overview: Beef Industry. Forrest Roberts, National Cattlemen’s Beef Association
- 30,000 foot overview: Feedyards. Ross Wilson, Texas Cattle Feeders Association
- 30,000 foot overview: Dairy Industry. Juan Tricarico, Dairy Research Institute
- 30,000 foot overview: Pork Industry. 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; Room 2102B)
  - Perspectives on business ethics in a new-age feed industry. Lawrence Dwain Bunting, ADM Alliance Nutrition, Lubbock, TX
  - Customer/consumer confidence in the livestock industry – Ethics: University perspective. Michael L. Galyean, Texas Tech University, Lubbock, TX
  - Veterinary perspective. Chris Ashworth, Elanco Dairy Business, Fort Smith, AR.
  - Regulatory definitions, processes, and functionality assessment for animal food. M. G. Alewynse, Center for Veterinary Medicine, Olney, MD.

- 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; Room 2502)
  - Lactocrine programming of postnatal reproductive tract development. Frank (Skip) Bartol, Auburn University
  - Long-term consequences of maternal and neonatal nutrition for pregnancy and postnatal outcomes. Doug Burrin, USDA-ARS Children’s Nutrition Research Center, Baylor
  - The epigenetic landscape of the beta-cell in IUGR rats. 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; Room 2102A)
  - 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)
  - Techniques for imaging and correlating functional and physical early brain development influenced by nutrition. R. W. Johnson, University of Illinois at Urbana-Champaign.
  - Perturbations in calcium and phosphorus homeostasis. J. S. Radcliffe, Purdue University, West Lafayette, IN.
  - Stem cell biology & beyond in GI research. D. G. Burrin, Baylor College of Medicine, Houston, TX.
  - SCID pig model. C. Tuggle, Iowa State University, Ames.
  - Gut enteroids – What are they and how can we use them? S. E. Blut, Baylor College of Medicine, Houston, TX.
  - Microbiome applications in animals. K. Swanson, University of Illinois at Urbana-Champaign.
  - Functional crosstalk between the metagenome and metabolome. T. Savidge, Baylor College of Medicine, Houston, TX.
  - Use of forward genetics to locate genetic regions controlling calcium absorption in vitamin metabolites. J. Fleet, Purdue University, West Lafayette, IN.
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- Beef Cattle Reproduction Symposium: Rebuilding the U.S. Cowherd: Rethinking the Way Industry Selects and Develops Replacements (Tuesday, July 22, 2014; 2:00 pm-5:00 pm; Room 2101)
  - Rebuilding the U.S. cowherd: Rethinking the way industry selects and develops replacements. *D. S. Brown, University of Missouri, Columbia.*
  - Physiology and endocrinology of puberty in Heifers. *J. Atkins, American Simmental Association, Bozeman, MT.*
  - Beef heifer replacement considerations related to breed and biological type. *A. L. Van Eenennaam, University of California-Davis.*
  - Nutritional development and the target weight debate. *J. B. Hall, University of Idaho, Carmen.*
  - Management strategies for adding value to replacement beef Heifers: A working model-the Missouri Show-Me-Select replacement Heifer program. *D. J. Patterson, University of Missouri, Columbia.*

- 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 U.S. and the world; Session I: The U.S. stocker and feedlot industries (Monday, July 21, 2014; 9:30 am - 12:30 pm; Room 2101)
  - 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. *Glynn Tonsor, Kansas State University and Lee Schultz, Iowa 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 U.S. and the world; Session II: The U.S. cow-herd (Monday, July 21, 2014; 2:00 pm - 5:00 pm; Room 2101)
  - Where can we support more cows? Overview of the beef cow herd and land use. *John Patterson, National Cattlemen’s Beef Association, Centennial, CO.*
  - 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? Beef production without mature cows. *George Seidel, Colorado State University*

- Beta Agonist: What the Data Say? (Sunday, July 20, 2014; 9:00 am – 4:00 pm; Room 2502)
  - 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-*R. Rathman, Texas Tech University*
  - Carcass Transfer/Composition
    - Swine-*J. Apple, University of Arkansas, Fayetteville*
    - Beef-*Ty Lawrence, West Texas A&M University*
  - Sensory Characteristics (color/palatability)
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• Swine-Dustin Boler, University of Illinois
  • Beef-Chance Brooks, Texas Tech University
  o Private Industry Perspectve
    • K. Karr, Cactus Feeders, Amarillo, TX
  o Trade Barriers
    • Paul Clayton, United States Meat Export Federation

• Companion Animals: Companion animals and sustainability: Today's impact on the future (Tuesday, July 22, 2014; 2:00 pm - 5:00 pm; Room 3501B)
  o Nutritional Sustainability of Pet Foods. Rebecca Carter, The Nutro Company
  o How Sustainability Influences Ingredient Sourcing, Quality and Safety. David Meeker, National Renderers Association and Fats & Protein Research Foundation
  o Sustainability of Non-traditional Companion Animals. Gordon Ballam, Purina Land-O-Lakes
  o Sustainable Ecosystems: Cats and Their Effect on Wildlife Populations. Beth Kitts-Morgan, Berry College
  o Future Aspects and Perceptions of Companion Animal Nutrition and Sustainability. 2013 Corbin Award Winner: Kelly S. Swanson, University of Illinois

• Companion Animals: George C. Fahey Companion Animal Nutrition Symposium: Preparing future companion animal biologists (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm; Room 3501D)
  o Extension Outreach: Use of Technology in Companion Animal Biology and Nutrition. Lisa Karr-Lilienthal, University of Nebraska
  o Preparing for a Career in the Companion Animal Industry. Kate Shoveller, P&G PetCare
  o How to Effectively Communicate Science with Pet Owners and Society. Kadri Koppel, Kansas State University
  o Round Table Discussion. Moderator: Gregory Aldrich

• Comparative Gut Physiology: Session I (Tuesday, July 22, 2014; 9:30 am - 12:30 pm; Room 2103A)
  o Integrated responses to feeding, comparative aspects. J. Furness, University of Melbourne, Parkville, Australia.
  o Expression of nutrient transporter mRNA in the jejunum of high and low efficiency steers. A. M. Meyer, Division of Animal Sciences, University of Missouri, Columbia.
  o Comparative physiology of glucagon-like peptide 2-Implications and applications for production and health of ruminants. E. E. Connor, USDA-ARS, BFGL, Beltsville, MD.
  o The role of the microbiome in gut immune system development in newborn and mature cattle. P. J. Griebel, University of Alberta, Edmonton, AB, Canada.
  o The effects of intentionally-induced leaky gut on metabolism and production in lactating Holstein dairy cows. S. K. Stoakes, Iowa State University, Ames

• Comparative Gut Physiology: Session II (Tuesday, July 22, 2014; 2:00 pm - 5:00 pm; Room 2103A)
  o Manipulating goblet cell function to protect against enteric infection. M. Wlodarska, University of British Columbia, Vancouver, BC, Canada.
  o Nutritional immunology in swine. Y. Liu, University of Illinois at Urbana-Champaign.
  o Mucosal IgA responses to members of the gut microbiota in healthy vs. malnourished Malawian children. A. Kau, Center for Genome Sciences & Systems Biology, St-Louis, MO.
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- Effect of dietary supplementation of Capsicum extract on immune responses, blood cell counts, blood chemistry, and oxidative stress markers in lactating dairy cows. *J. Oh, Department of Animal Science, The Pennsylvania State University, University Park.*
- Host-microbiome interactions during gut development across species: The role of milk. *T. B. McFadden, University of Missouri, Columbia.*

- **CSAS Symposium: Understanding Feeding Behaviour to Improve Animal Well-being and Productivity** (Tuesday, July 22, 2014; 9:30 am - 12:30 pm; Room 2101)
  - The psychobiology of feeding behavior and its cultural inflection. *Juan J. Villalba, Agricultural Experiment Station, Logan, UT*
  - Physiological mechanisms controlling feeding behavior. *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*

- **Dairy Foods: Advances in Delivery of Dairy Ingredients for Health and Functional Benefits** (Monday, July 21, 2014; 2:00 pm - 5:00 pm; Room 3501C)
  - Emerging uses of new dairy ingredients in cheese, yogurt, beverages and other products. *L. Metzger, Midwest Dairy Foods Research Center, South Dakota State University, Brookings.*
  - An update on carrier and delivery systems using casein micelles from bovine milk. *F. Harte, University of Tennessee, Knoxville.*
  - Protein modification for health benefits. *J. A. Lucey, Department of Food Science, University of Wisconsin-Madison.*

- **Dairy Foods: Dairy foods consumption, gut microbiota and human health** (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm; Room 3501C)
  - 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*
  - 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*
  - Human gut microbiota, diet and health. *Michael Lefevre, Utah State University*

- **Dairy Foods: Milk Protein-Hydrocolloid Interactions: Recent Impacts** (Tuesday, July 22, 2014; 2:00 pm-5:00 pm; Room 3501C)
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• Functionality and structure of hydrocolloids in dairy foods. *Douglas H Goff, University of Guelph, Guelph, ON, Canada*

• Exopolysaccharides from lactic acid to bacteria- 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*

• Dairy Foods Symposium: Protein Functionality In Cheese Systems: Natural, Process Cheese And Analogs (Tuesday, July 22, 2014; 9:30 am – 12:30 pm; Room 3501C)
  o Commercial and functional considerations when formulating foods with dairy proteins. *T. McCarthy, Schreiber Foods, Green Bay, WI.*
  o A model for the formation of the aggregated network in process cheese products that can be used to predict functional properties. *L. Metzger, Midwest Dairy Foods Research Center, South Dakota State University, Brookings.*
  o Autocatalytic multistage gel formation reaction in dairy based systems in relation to compositional factors. *U. Kulozik, Technische Universität München, Freising-Weihenstephan, Germany.*
  o Protein functionality in processed cheese – Fundamental principles and practical observations. *D. C. Reid, Fonterra Research and Development Centre, Palmerston North, New Zealand.*
  o Impact of emulsifying salts on milk proteins and process cheese properties. *J. A. Lucey, University of Wisconsin-Madison.*

• EAAP Equine Symposium: Know-How And Future Challenges for Developing the Horse Sector In Europe: The Activity of the EAAP Horse Commission (Thursday, July 24, 2014; 8:30 am - 11:30 am; Room 3501C)
  o Recent aspects in stallion sperm preservation for artificial insemination. *M. Magistrini, INRA, Nouzilly, France.*
  o The growth of social sciences in equine research: Essential to create new understandings of the horse industry’s growth and evolution. *R. Evans, Norwegian University College of Agriculture and Rural Development, Jaeren, Norway.*
  o Equids contribution to sustainable development in Europe: Modern aspects and transfer of knowledge. *N. Miraglia, Molise University, Campobasso, Italy.*

• Extension Education: Decision Support Tools in Extension (Wednesday, July 23, 2014; 10:30 am - 12:30 pm; Room 2102A)
  o History and development of the bovine estrus synchronization planner. *Sandy Johnson, Kansas State University*
  o Assessing the need, project development and impact of the National Swine Reproduction Troubleshooting and Management Guide. *Don Levis, Levis Worldwide Swine Consultancy*
  o Impact of 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; Room 2102A)
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- Raw Milk - Is It Safe? Bhushan Jayaraoo, 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 Wal-Mart 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; Room 2104A)
  - 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. M. Casler, 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. J. C. MacDonald, University of Nebraska - Lincoln, Lincoln, NE

- Joint Growth & Development and Meat Science & Muscle Biology - Applications of proteomics in animal production (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm)
  - Proteomics in Animal Science. J. Lippolis, National Animal Disease Center, Ames, IA.
  - Proteomics in Fat Metabolism and Development. L. Guan, University of Alberta, Edmonton, AB, Canada.

- Horse Species: Advances in Equine Stem Cell Biology (Monday, July 21, 2014; 9:30 am - 12:30 pm; Room 3501F)
  - 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
  - Developmental progenitor cells of articular chondrocytes. 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; Room 3501F)
  - Developmental programming in agriculturally relevant species: An overview. 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; Room 2505A)
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- Introduction: Not just nutrition and management: We need a Total Nutrition and Management Program. F. R. Valdez, Kemin Industries, Inc., Des Moines, IA
- Intensifying beef production to meet human nutrition needs. D. Grace, International Livestock Research Institute, CGIAR Program, Nairobi, Kenya.
- 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
- Methods to improve nutrient intake in grazing cattle: Pasture management and supplementation. 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

- Nonruminant Nutrition: Functional Amino Acids: New Paradigm Shifts in Understanding Animal Protein Nutrition (Tuesday, July 22, 2014; 9:30 am - 12:30 pm; Room 2504)
  - Amino acid signaling for embryonic and fetal development. Guoyao Wu, Texas A&M University, College Station, TX
  - Leucine: A potent nutrient signal for 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
  - New insights into sulfur amino acid function in gut health and disease. 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; Room 2103C)
  - 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

- Ruminant Nutrition: The Rumen Microbiome and Nutritional Health and Production (Monday, July 21, 2014; 2:00 pm - 5:00 pm; Room 2103B)
  - How to use data on the microbiome to improve our understanding of nutrition. J. L. Firkins, The Ohio State University, Columbus.
  - The microbiome and health. G. B. Penner, University of Saskatchewan, Saskatoon, SK, Canada.
  - Use of genomics and transcriptomics to identify strategies to lower ruminal methanogenesis. T. A. McAllister, Agriculture and Agri-Food Canada, Lethbridge, AB, Canada.
  - Increasing condensed corn distillers solubles alters the rumen microbiome of beef cattle. J. C. McCann, University of Illinois at Urbana-Champaign.
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- The microbiome composition of the hindgut is altered following weaning in dairy calves: impact of different weaning strategies. S. C. Li, Department of Animal Science, University of Manitoba, Winnipeg, MB, Canada.
- Effects of different dry period managements on rumen microbiome composition. H. Khazanehei, Department of Animal Science, University of Manitoba, Winnipeg, MB, Canada

- Ruminant Nutrition: The Glen Broderick Symposium – Improving Nitrogen Utilization in Dairy Cows (Wednesday, July 23, 2014; 2:00 pm – 5:00 pm; Room 2103B)
  - Opening remarks and overall impact of Dr. Glen Broderick on research around the world. A. Faciola, University of Nevada, Reno.
  - Conundrums of protein and peptide metabolism in the rumen. R. J. Wallace, Rowett Institute of Nutrition and Health, Aberdeen, United Kingdom.
  - Dr. Glen Broderick’s contributions to in vivo quantification of ruminal nitrogen metabolism using the omasal sampling technique. P. Huhtanen, Swedish University of Agricultural Sciences (SLU), Umea, Sweden.
  - Dr. Glen Broderick’s contributions to protein and amino acid nutrition of the dairy cow. A. N. Hristov, Department of Animal Science, The Pennsylvania State University, University Park.
  - Exploring milk urea-N excretion as a nutritional and environmental management tool for the dairy industry. M. A. Wattiaux and P. M. Crump, University of Wisconsin-Madison.
  - Effects of different dry period managements on rumen microbiome composition. H. Khazanehei, Department of Animal Science, University of Manitoba, Winnipeg, MB, Canada

- Small Ruminant: Sustainable Small Ruminant Production Strategies to Meet Global Demands (Wednesday, July 23, 2014; 2:00 pm - 5:00 pm; Room 2102B)
  - Pasture development and sustainable grazing management. Steven Hart, Langston University/Garza Inst
  - Internal parasite resistance and control. James Miller, Louisiana State University
  - Efficiency of small ruminant reproduction management. Marlon Knights, West Virginia University
  - Global demands for small ruminant products. Gary Williams, Texas A&M University
  - Managerial steps to alleviate the effects of heat stress, water deprivation and low pasture quality in small ruminants. 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; Room 2503)
  - Procedures and methodology for determining SID amino acid digestibility and energy of feedstuffs. Hans Stein, University of Illinois
  - Procedures for determining digestible and metabolizable energy contents of feedstuffs. Layi Adeola, Purdue University
  - Procedures and methodology for determining the net energy content of feedstuffs. Martin Nyachoti, University of Manitoba

- Swine Species Mini-Symposium: Opportunities and challenges with the use of carbohydrase and protease enzymes in swine formulations (Monday, July 21, 2014; 9:30 am - 12:30 pm; Room 2504)
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- Opportunities and challenges with the use of carbohydrazase and protease enzymes in swine formulations. Ruurd Zijlstra, University of Alberta

- Triennial Lactation/BOLFA (with Lactation Biology): Nutrigenomics in dairy cows (Sunday, July 20, 2014; all day; Room 2505B)
  - Utilizing ‘omic’ techniques to understand energy balance in the lactating dairy cow. J. R. Roche, DairyNZ, Hamilton, New Zealand.
  - Insights provided by nutrigenomics into the effect of diet on metabolism and milk production. K. J. Harvatine, Pennsylvania State University, University Park.
  - Nutrigenomics in dairy cows. M. Bionaz, Oregon State University, Corvallis.
  - Systems biology and the role of nutrition in coordinating adaptations to lactation. J. J. Loor, University of Illinois at Urbana-Champaign.
  - Nutrient partitioning during intramammary inflammation: A key to severity of mastitis and risk of subsequent disease? K. M. Moyes, Department of Animal and Avian Sciences, University of Maryland, College Park.
  - Nutritional effects on immunology and inflammation in dairy cattle. E. Trevisi, Università Cattolica del Sacro Cuore, Piacenza, Italy.
  - H. Allen Tucker Lactation and Endocrinology Award Ceremony

- Workshop: Making your talk TED worth (Thursday, July 24, 2014; 8:30 am - 11:30 am; Marriott Downtown)

- Workshop: Crafting USAID’s Livestock Research Agenda – Animal Science Priorities Under Feed The Future (Thursday, July 24, 2014; 8:30 am - 11:30 am; Room 3501G)
  - Feed the future research strategy and USAID’s global livestock investments. S. Moon Chapotin, U.S. Agency for International Development, Washington, DC.
  - Nutritional value of animal source foods. L. Iannoti, Institute for Public Health, Washington University, St. Louis, MO.
  - The indispensable role of mixed small holder systems in global food and nutritional security. J. Smith, International Livestock Research Institute, Washington, DC.
  - The role of new technologies in increasing livestock production. D. Nkrumah, Bill and Melinda Gates Foundation, Seattle, WA.
  - H. Allen Tucker Lactation and Endocrinology Award Ceremony