



## SYMPOSIA LIST BY DAY

### Monday, July 8, 2019

#### ALL DAY

##### **ASAS-NANP Pre-Conference Symposium**

- Dr. Mark Hanigan, Virginia Tech University – Introduction to mathematical models
- Dr. Charles Nicholson, Cornell University - Building Models in Animal Nutrition with System Dynamics Modeling
- Dr. Robin White, Virginia Tech University – Introduction to R scripting and data analyses
- Dr. Luis Tedeschi, Texas A&M University – Model evaluation and a brainteaser on machine learning

### Tuesday, July 9, 2019

#### ALL DAY

##### **Beef Species Symposium: Cattle Adapted to Tropical/Subtropical Environments**

- Dr. Rodolfo Cardoso, Texas A&M University – Nutritional programming of puberty in *Bos indicus*-influenced heifers
- Dr. G. Cliff Lamb, Texas A&M University – Reproductive management of beef females in tropical and sub-tropical environments
- Dr. Ky Pohler, Texas A&M University – Reproductive challenges of cattle adapted to tropical and subtropical environments
- Dr. Jose Luiz Moraes Vasconcelos, Sao Paulo State University – Reproductive management of beef females in South America
- Dr. David Riley, Texas A&M University – Genetic aspects of livestock adaptation
- Dr. Jared Decker, University of Missouri – Matching cow's genetics to the environment using genomics
- Dr. Joao Vendramini, University of Florida – Warm-season perennial grass management in tropical and subtropical regions
- Dr. Philippe Moriel, University of Florida – Nutritional management of forage-based cow-calf operations
- Dr. Luis Tedeschi, Texas A&M University – Nutritional management for tropical-subtropical-adapted cattle receiving high-concentrate diets
- Dr. Courtney Daigle, Texas A&M University – Welfare and behavior considerations for cattle in tropical and subtropical environments
- Dr. Steve Smith, Texas A&M University – Carcass development and quality of tropically/subtropically adapted cattle
- Dr. Ronaldo Cerri, University of British Columbia – Dairy cattle overview in tropical and subtropical environments



## **TUESDAY MORNING**

### **Beef Species Symposium: Handling Heat Stress in Beef Cattle Production – Sponsored by ARPAS**

- Dr. R. Rhoads, Virginia Tech University – Physiology of heat stress
- Dr. F. M. Mitloehner, University of California, Davis – The impact of heat stress on feedlot operations; design and management options to reduce its impact
- Dr. Jenny Jennings, Texas A&M University – The impact of heat stress on feedlot operations; nutritional and breeding options to reduce its impact

### **Breeding and Genetics Symposium: How genomic selection has changed livestock breeding in the past 10 years and what is coming next**

- Dr. Ignacy Misztal, University of Georgia – Current status of Genomic selection
- Dr. Tom Lawlor, US Holstein Association – Problems faced by the dairy industry since the implementation of GS, solutions, and future directions
- Dr. Egbert Knol, Topigs Norsvin – Is genomic selection beneficial for the pig industry?
- Dr. Dan Moser, Angus Genetics Inc. – Genomic selection in the beef industry: current achievements and future directions
- Dr. Mak Geha, Corteva – Genomic selection and gene editing in plant breeding– an industry perspective
- Dr. Jack Dekkers, Iowa State University – How new technologies will help livestock breeding in the next years

### **Cell Biology Symposium**

- Dr. Danica Chen, University of California, Berkeley – Mitochondrial metabolic checkpoint, stem cell aging and rejuvenation
- Dr. Fernando J. Peña Vega, University of Extremadura – Redox regulation of stallion spermatozoa and its impact on reproductive biotechnologies
- Dr. Marie-France Palin, Agriculture and Agri-Food Canada – Carnosine prevents oxidative damage in myoblast cells derived from porcine skeletal muscle
- Dr. Josh Selsby, Iowa State University – The Heat is On: Heat stress induces radical changes in skeletal muscle

### **Companion Animal Symposium: Nutrition and Health: Companion Animal Applications**

- Dr. Elizabeth Bobeck, Iowa State University – Functional nutrition to modulate the immune response
- Dr. Jan Suchodolski, Texas A&M University – Effect of dietary intervention on gut microbiome and microbial-derived metabolites
- Dr. David Waters, Gerald P. Murphy Cancer Foundation – Nutrition and pet aging: Principles inform practice
- Dr. Ray Matulka, Burdock Group – Nutritive feed ingredients that pose toxicological potential



## **Contemporary and Emerging Issues Symposium: Communicating the Importance of Animal Science**

- Dr. Alison Van Eenennaam, University of California, Davis – TBD

## **Meat Science and Muscle Biology Symposium: Strategies, fresh meat consequences, and economics of manipulating the nutritional value of meat**

- Dr. Derris Burnett, Mississippi State University – Biology of altering the fatty acid profile of meat
- Dr. Kelsey Phelps-Ronningen, Cargill Meat Solutions – Effect of altering fatty acid profile on fresh meat color stability
- Dr. Jerrad Legako, Texas Tech University – Effect of altering fatty acid profile on fresh meat palatability
- Dr. Glynn Tonsor, Kansas State University – Economics of enhancing the nutritive value of meat

## **TUESDAY AFTERNOON**

### **Animal Behavior and Well-Being Symposium: Precision Technology and Animal Welfare**

- Dr. Lindsey Hulbert, Kansas State University – Precision animal welfare for pigs
- Dr. Courtney Daigle, Texas A&M University – Knowledge hybrid vigor: improving beef cattle management with the integration of environmental and behavioral technologies
- Dr. Gosia Zobel, AgResearch NZ – Individual information and its role in dairy goat management
- Dr. Jasmeet Kaler, The University of Nottingham – Increasing animal welfare and efficiency on-farm with the use of precision technology tools: Technology development, application, and use
- Dr. Joao Cardoso Costa, University of Kentucky – Precision dairy cattle welfare: Use of technology for individual measures, record keeping and early disease detection

### **ASAS Publications Symposium: A How to Guide to Publishing**

- Dr. James Sartin, Auburn University – Editorial Process
- Dr. Sally Johnson, Virginia Tech University – Editorial Pet Peeves
- Dr. Hans Stein, University of Illinois – How to make nutrition tables and figures that work
- Dr. Meghan Wulster-Radcliffe, American Society of Animal Science – Copyright versus plagiarism
- Dr. Teresa Davis, Baylor University – Do we need a Plan B for Plan S?
- Dr. Kristin Govoni, University of Connecticut – ASAS publications—the big picture



## **Companion Animal Symposium: Comparative Animal Nutrition: Sustainability of Meat and Fish Ingredients**

- Dr. Peter Tyedmeiers, University of British Columbia – Sustainability of fish-derived feed inputs: An ecological perspective
- Dr. Nathan Pelletier, University of British Columbia – Sustainability of terrestrial protein sources – TBD
- Dr. Maria Godoy, University of Illinois – Current knowledge in plant protein sources
- Dr. Anna-Kate Shoveller, University of Guelph – Can we help support protein sustainability by considering optimizing dietary protein delivery?
- Dr. Jose Villanon, Nutreco – Current trends in protein sourcing for aquaculture diets

## **Comparative Gut Symposium: Immunometabolism: from concepts to applications in animal production – Sponsored by Pancosma**

- Dr. Barry Bradford, Kansas State University – Immunometabolism—emerging concepts and potential applications in livestock
- Dr. Greg Penner, University of Saskatchewan – TBD
- Dr. Johanna Fink-Gremmels, Utrecht University – Natural feed additives enhancing innate immunity: the gateway to sustainable animal health
- Dr. Mark Lyte, Iowa State University – Microbial endocrinology: The evolutionary-based integration of microbiology and neurobiology as applied to the health and nutrition of farm production animals
- Dr. Andrew Richard Williams, University of Copenhagen – Regulation of pathogen-specific immune function by dietary phytonutrients

## **Growth and Development Symposium**

### **Nonruminant Nutrition Symposium**

- Dr. Artemis P. Simopoulos, Center for Genetics, Nutrition and Health – Nutrigenetics/Nutrigenomics: Nutrient-gene interactions in humans and animals
- Dr. Maria Oczkovicz, National Research Institute of Animal Production Cracow, Poland – Effects of different sources of fat in the diet of pigs on the liver transcriptome estimated by 3`RNA-sequencing
- Dr. Nares Trakooljul, Institute for Genome Biology, Leibniz Institute for Farm Animal Biology, Dummerstorf, Germany – Immediate and long-term consequences of methylating micronutrient supplementation during pregnancy on the offspring's phenotype
- Dr. Shengfa F. Liao, Mississippi State University – A nutrigenomics approach using RNA sequencing technology to study nutrient-gene interactions in agricultural animals



### **WAAP/CSAS Symposium: Enhancing the Efficiency of Livestock**

- Dr. Graham Plastow, University of Alberta – Continuing to enhance efficiency in swine
- Dr. Flavio Schenkel, University of Guelph – Breeding for enhancing feed efficiency in dairy cattle
- Dr. Tim McAllister, Agriculture and Agri-Food Canada – Strategies to improve the efficiency of beef cattle production
- Dr. Naomi Duijvesteijn, University of New England – TBD
- Dr. Ben Wood, Hybrid Turkeys, Hendrix Genetics – TBD
- Dr. Rich Moccia, University of Guelph – TBD



## **Wednesday, July 10, 2019**

### **MORNING**

#### **Animal Health Symposim: CSAS Technology in the Dairy Industry: Old MacDonald or Brave New World?**

- Dr. Joao Cardoso Costa, Univerity of British Columbia – TBD
- Dr. Mike Lohuis, Monsanto – TBD
- Dr. Debora Santschi, Valacta – TBD
- Dr. Trevor DeVries, Univesity of Guelph – Utilizing automation to improve efficiency, health, and production in the dairy industry
- Dr. Nancy Charlton, DeLaval –TBD

#### **Breeding and Genetics Symposium: Challenges and opportunities with big data in animal breeding**

- Dr. Tim Smith, USDA – Genomics in animal agriculture: current technologies and applications
- Dr. Miguel Pérez-Enciso, Universitat Autònoma de Barcelona – DNA sequence assisted prediction: The uncomfortable truth
- Dr. Han Mulder, Wageningen University & Research – Big data and the development of resilience indicators for animal breeding
- Dr. Guilherme Rosa, University of Wisconsin – Leveraging on high-throughput phenotyping technologies to optimize livestock genetic improvement and husbandry

#### **Companion Animal Symposium: Analytical Tools and Techniques to Advance Companion Animal Nutrition**

- Dr. Trevor Faber, Trouw Nutrition – Digestibility and fermentation models
- Dr. Rondo Middleton, Nestle Purina – "Omics" tools in nutrition
- Dr. Leslie McKnight, Trouw Nutrition – Tracers for tracking energetics
- Dr. Kathy Gross, Hill's Pet Nutrition – Wearable devices, behavior, and health outcomes

#### **Contempary and Emerging Issues Symposium: Women in Animal Science**

##### **Horse Species Symposium**

- Dr. Sarah White, Texas A&M University – TBD
- Dr. Brian Nielsen, Michigan State University – TBD
- Dr. Stephanie Valberg, University of Minnesota – TBD





## **WEDNESDAY AFTERNOON**

### **Animal Behavior Symposium: Animal welfare—From Farm-gate to Facebook –**

#### **Sponsored by ELANCO**

- Dr. Courtney Daigle, Texas A&M University – Impact of labor issues on animal welfare
- Dr. Michelle Sarah Calvo-Lorenzo, ELANCO – A review of animal welfare data for cattle and swine
- Dr. Karen Christensen, Tyson Foods – TBD
- Dr. Sara Place, National Cattlemen’s Beef Association – To tweet or not to tweet: What does science communication look like in 2019?

### **Breeding Symposium: Genome editing: Science and Commercialization**

- Dr. David Taylor, University of Texas at Austin – Structure and mechanism of CRISPR/Cas9
- Dr. Kristin Whitworth, University of Missouri – Applications in agriculture-animals
- Dr. Michael Thomson, Texas A&M University – Genome editing applications in plants: High-throughput CRISPR/Cas editing for crop improvement
- Dr. Clint Nesbitt, BIO – Regulatory
- Dr. Amy te Plate-Church, The Center for Food Integrity – TBD

### **Forges and Pastures Symposium: Plant Secondary Compounds in Ruminant Production and Functional Foods Development**

#### **Ruminant Nutrition Symposium**

#### **Small Ruminant Symposium**



**Thursday, July 13, 2019**

**MORNING**

**ASAS-NANP Symposium: Ruminant/Nonruminant Feed Composition Symposium**

- Dr. Andres Schlageter, University of Kentucky – Overview of the NRSP-9/NANP Program
- Dr. William Weiss, The Ohio State University – Statistical methods and importance of screening ingredient composition data sets
- Dr. Elizabeth Koutsos, EnviroFlight LLC – Novel ingredients and challenges for feed formulation
- Dr. George Fahey, University of Illinois – Carbohydrate composition: Challenges to the optimal use of fiber across animal species, and potential solutions

**Beef Symposium: Perinatal nutrient availability in beef calves: Causes and consequences**

**Companion Animal Symposium: Companion Animal Teaching Symposium: Incorporating Companion Animals into an Animal Science Curriculum**

- Dr. Lisa Karr, University of Nebraska-Lincoln – Integration of teaching and extension of companion animal biology and nutrition
- Dr. Sara Albert, University of Illinois – Companion animals outside the classroom: An Overview of experiential learning opportunities
- Dr. Gary Davenport, ADM – An employer perspective: What are employers looking for in terms of companion animal knowledge
- Dr. Beth Kitts-Morgan, Lincoln Memorial University – Challenges and opportunities in developing a companion animal nutrition curriculum for veterinary students

**Growth and Development Symposium**

**Meat Science and Muscle Biology Symposium**

**AFTERNOON**

**Beef Symposium: High Plains Beef**

- TBD, WTAMU Epidemiologist – Causes of death losses throughout the feedlot period
- Nicole Burdick Sanchez, USDA-ARS – Stress and Immunity
- TBD – Metabolic issues during the finishing period
- Jon Beckett, Beckett Consulting Services – Holsteins
- TBD – Beef quality after sickness

**Nonruminant Symposium**