

Symposium	Day	Speaker
ASN/ASAS Pre-Conference: Gut Microbiota, Diet, and Health	<b>Tuesday, July 19 All Day</b>	Jens Walter Laura Cox John Cyran Michelle McGuire Ruurd Zijlstra Mark Morrison John Wallace Kelly Swanson

Symposium	Day	First Name Last Name
ARPAS Symposium: Inflammation alters nutrient metabolism and animal performance	<b>Wednesday, July 20 Morning</b>	Kirk Klasing T.G. Nagaraja Chris Chase Reinaldo Cooke

Symposium	Day	First Name Last Name
Non-nutrition, the future of nutrition? (PANCOSMA symposium)	<b>Wednesday, July 20 All Day</b>	

Symposium	Day	First Name Last Name
Horse Species/WSASAS - Pasture and Forages Symposium	<b>Wednesday, July 20 Morning</b>	

Symposium	Day	First Name Last Name
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Modeling Symposium (ruminant)

**Wednesday, July  
20 Morning**

Jan Dijkstra  
Ermias Kebreab  
Normand St. Pierre  
Luis Tedeschi

Symposium	Day	First Name Last Name
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International Animal Agriculture: The Future of  
Pastoral Production Systems

**Wednesday, July  
20 Morning**

Adegbola Adesogan  
Anne Mottet  
Maria Wurzinger  
Chanda Nimbkar  
Layne Coppock  
Helen Leitch

Symposium	Day	First Name Last Name
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Teaching/Education: Animal Science Education in the  
Current Environment

**Wednesday, July  
20 Morning**

Mary Clement  
Jodi Sterle  
Martin Maquivar  
Amin Ahmadzadeh

Symposium	Day	First Name Last Name
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Dairy Food Division: Increasing Utilization of Dairy Co-Products	<b>Wednesday, July 20 Morning</b>
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Rohit Kapoor  
Bill Graves  
Mary Anne Drake  
Karen Smith  
Jayendra Amamcharla  
Tonya Schoenfuss

Symposium	Day	First Name Last Name
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Animal Behavior and Well-Being: Metrics for on-farm animal welfare assessment - current state and future needs	<b>Wednesday, July 20</b>
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Richard Blatchford  
Dee Griffin  
Monique Pairis-Garcia  
Elsa Vasseur

Symposium	Day	First Name Last Name
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Bovine Respiratory Disease	<b>Wednesday, July 20 Afternoon</b>
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Symposium	Day	First Name Last Name
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ASAS Cell Biology Symposium	<b>Wednesday, July 20 Afternoon</b>
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Sidney Whiteheart  
Crislyn D'Souza-Schorey  
Mariana Nicolova-Karakashian  
Stephen Smith

Symposium	Day	First Name Last Name
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Small Ruminant: Enhancing small ruminant profitability	<b>Wednesday, July 20 Afternoon</b>
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David Anderson  
Jim Morgan  
Richard Browning  
Richard Ehrhardt

Symposium	Day	First Name Last Name
Contemporary and Emerging Issues	<b>Wednesday, July 20 Afternoon</b>	

Allyson Perry  
William Hallman  
Dan Kahan  
Daren R. Williams

Symposium	Day	First Name Last Name
ADSA Southern Regional	<b>Wednesday, July 20 Afternoon</b>	

Albert de Vries  
Stephen C. Nickerson  
Ky Pohler  
Emily Miller-Cushon

Symposium	Day	First Name Last Name
Forages and Pastures: Greenhouse gas emissions in pasture-based dairy and beef cattle systems: Current practices and future opportunities and challenges	<b>Wednesday, July 20 Afternoon</b>	

Al Rotz  
Pablo Gregorini  
Tom Davison  
Alan Iwaasa

Christopher Antwi

Symposium	Day	First Name Last Name
ADSA Production (Robotics)	<b>Thursday, July 21</b> <b>Morning</b>	

Symposium	Day	First Name Last Name
Horse Species: Urban Students Symposium	<b>Thursday, July 21</b> <b>Morning</b>	John Parrish Carrie Hammer Kristine Vernon Jodi Sterle

Symposium	Day	First Name Last Name
Joint Extension and Physiology & Endocrinology: Enhancing adoption of reproductive management tools for beef and dairy producers	<b>Thursday, July 21</b> <b>Morning</b>	Sandy Johnson Matt Lucy Dave Patterson Jeff Stevenson Reinaldo Cooke Ronaldo Cerri

Symposium	Day	First Name Last Name
Comparative Gut Physiology	<b>Thursday, July 20</b> <b>All Day</b>	Sandrine Claus Sharon Donovan

Gerard Clarke  
Phillip Myer  
Greg Penner  
John Cryan

Symposium	Day	First Name Last Name
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International Perspectives on Bioethical Issues Affecting Animal Agriculture Symposium	<b>Thursday, July 21</b> <b>Morning</b>
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Lily Edwards-Callaway  
Raymond Anthony  
Roxi Beck

Symposium	Day	First Name Last Name
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Beef NRC	<b>Thursday, July 21</b> <b>Morning</b>
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Symposium	Day	First Name Last Name
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Production, Environment and Management Symposium: Impacts of Livestock Production on Environmental Reactive Nitrogen	<b>Thursday, July 21</b> <b>Morning</b>
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Jay Ham  
Richard Todd  
April Leytem  
Wendy Powers  
Jesse Bash

Symposium	Day	First Name Last Name
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Meeting today's animal care standards: Are you ready? (AALAC/ASAS Joint Symposium)	<b>Thursday, July 21</b> <b>Morning</b>
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Symposium	Day	First Name Last Name
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Translational Genomics

**Thursday, July 21**  
**Morning**

Thomas Spencer  
Pablo Pinedo  
Jerry Taylor  
Daniel Ciobanu

Symposium	Day	First Name	Last Name
Improving Welfare of Beef Cattle	<b>Thursday, July 21</b> <b>Afternoon</b>	Cassandra Tucker Clinton Krehbiel Jennifer Walker Karen Schwartzkopf-Genswein Lily Edwards-Callaway	

Symposium	Day	First Name	Last Name
Growth and Development: New-OMICS technologies to understanding the biological processes and network pathways associated with cattle growth and health	<b>Thursday, July 21</b> <b>Afternoon</b>	Milton Thomas Antonio Reverter Juan F. Medrano Leluo Guan	

Symposium	Day	First Name	Last Name
Horse Species: Nutrition Immunology Symposium	<b>Thursday, July 21</b> <b>Afternoon</b>	Kirk Klasing Lori Warren	

Tanja Hess  
Amanda Adams

Symposium	Day	First Name Last Name
Meat Science Symposium	<b>Thursday, July 21</b> <b>Afternoon</b>	

Symposium	Day	First Name Last Name
Livestock Water Symposium	<b>Thursday, July 21</b> <b>Afternoon</b>	

Symposium	Day	First Name Last Name
Toxic Plant Research Symposium	<b>Thursday, July 21</b> <b>Afternoon</b>	

Kevin Welch  
Ben Green  
John Keele  
Glen Aiken  
Daniel Cook  
Zane Davis

Symposium	Day	First Name Last Name
Dairy Foods (JDS)	<b>Thursday, July 21</b> <b>Afternoon</b>	

Symposium	Day	First Name Last Name
Dairy Food Division: Advances in Sustainability within the Dairy Processing Industry	<b>Friday, July 22</b> <b>Morning</b>	

Ying Wang  
Elizabeth Comera  
Joe Curran  
Denise Skidmore

Symposium	Day	First Name Last Name
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Food Safety: The spectrum of food safety improvement in foods of animal origin

**Friday, July 22 All Day**

Kim Stanford  
Todd Callaway  
Alvaro Garcia  
Ty Schmidt  
JoAnn Van Kessel  
Francisco Diez Gonzalez

**Symposium Day First Name Last Name**

Lactation Biology Symposium **Friday, July 22 All Day**

**Symposium Day First Name Last Name**

CSAS Symposium: Reducing the use of antibiotics in livestock production **Friday, July 22 Afternoon**

Pierre Lacasse  
Dirkjan Schokker  
Graham Plastow  
Martin Nyachoti  
Leluo Guan  
Tim McAllister

**Symposium Day First Name Last Name**

ADSA Production Division (High Throughput) **Friday, July 22 Afternoon**

**Symposium Day First Name Last Name**

Breeding & Genetics: Resilience of Livestock to Changing Environments **Friday, July 22 Afternoon**

Lance Baumgard  
Peter J. Hansen  
Panya Sae-Lim  
Matt Littlejohn

Ignacy Misztal  
María Jesús Carabaño

Symposium	Day	First Name	Last Name
Companion Animal: Protein Nutrition	<b>Friday, July 22</b> <b>Afternoon</b>	Guido Bosch Dan Schaefer Kate Shoveller Andrea Fascetti	

Symposium	Day	First Name	Last Name
Extension Education Symposium: Growing Extension's Impacts with changing budgets and personnel	<b>Friday, July 22</b> <b>Afternoon</b>	Greg Lardy Wendy Powers Mike Overton Allen Young Noelle Cockett	

Symposium	Day	First Name	Last Name
MILK Symposium	<b>Friday, July 22</b> <b>Afternoon</b>		

Symposium	Day	First Name	Last Name
Functional Annotation of Animal Genomes (FAANG)	<b>Saturday, July 23</b> <b>All Day</b>		

Symposium	Day	First Name Last Name
Growth and Development: Triennial Growth - New perspectives and insight into intramuscular adipose tissue with differential gene expression, identification of progenitor cells, regulatory molecular mechanisms and genetic landscape and multi-layered omics data to genome-wide association studies	<b>Saturday, July 23</b> <b>All Day</b>	

Brian Paul Dalrymple  
 Elke Albrecht  
 Clinton Krehbiel  
 Myunggi Baik  
 Marcio S. Duarte  
 Joan Estany  
 Marcel Amills  
 Juan P. Steibel  
 Takafumi Gotoh  
 Steve Smith  
 Mike McMorris

Symposium	Day	First Name Last Name
Physiology & Endocrinology	<b>Saturday, July 23</b> <b>Morning</b>	

Stephanie Wesolowski (Thorn)  
Caleb Lemley  
Skip Bartol  
Kristen Govoni

Symposium	Day	First Name Last Name
Companion Animal: Human-Animal Bond	<b>Saturday, July 23</b> <b>Morning</b>	Bill Milgram Ragen McGowan Candace Croney Cheryl Morris
Symposium	Day	First Name Last Name
Animal Health Symposium	<b>Saturday, July 23</b> <b>Morning</b>	
Symposium	Day	First Name Last Name
ASAS Graduate Student Symposium	<b>Date to be</b> <b>determined</b>	