



**Southern Section
American Society of Animal Science**

**Scientific Sessions &
Business Meeting**

**Franklin Marriott Cool Springs
Franklin, TN
February 4 – 7, 2017**

Camera, Video Camera and Cell Phone Policy

Use of cameras, video cameras and cell phones (for calls or as cameras) is prohibited during presentations to minimize disruption and unauthorized dissemination of data. Violators may be asked to leave the session/conference. Exceptions to this policy must be approved by the SSASAS Scientific Program Coordinator.

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Texas A&M University, College Station, TX

General Information

Meeting Location

Franklin Marriott Cool Springs
1st Floor Convention Center

Registration

Saturday, February 411:00 AM – 5:00 PM
Sunday, February 57:30 AM – 5:00 PM
Monday, February 67:30 AM – 4:30 PM
Tuesday, February 77:30 AM – 12:30 PM

Hotel Information

Franklin Marriott Cool Springs
700 Cool Springs Blvd
Franklin, TN 37067
615-261-6100

Courtyard Franklin Cool Springs
2001 Meridian Blvd
Franklin, TN 37067
615-778-0080

Awards Banquet Location

The Factory at Franklin
230 Franklin Rd
Franklin, TN 37064
615-791-1777

Academic Quadrathlon Location

The University of Tennessee
Institute of Agriculture
1000 Main Entrance Dr
Spring Hill, TN 37174

Academic Quadrathlon Schedule of Events

Friday, February 3, 2017

9:00 PM Advisors' Meeting
Marriott

Saturday, February 4, 2017

All Day AQ Lab Practicum and
Written Exam
*University of Tennessee,
Institute of Agriculture
Spring Hill*

Sunday, February 5, 2017

6:30 AM – 12:00 PM Oral Preparation
*Middle Tennessee Research and
Education Center*

8:00 AM – 12:00 PM Oral Presentation
*Middle Tennessee Research and
Education Center*

8:00 AM – 12:00 PM Quiz Bowl
*Middle Tennessee Research and
Education Center*

**Download the SSASAS
Scientific Program to your
Mobile Device**



Meeting Schedule of Events

Unless otherwise noted, all events will be held in
the Franklin Marriott Cool Springs.

Saturday, February 4, 2017

- 1:30 PM – 5:55 PM Pre-Conference: Industry and
Academic Summit: Delivery
Systems for Protein and Energy
Supplements
Room: Carothers
- 6:00 PM – 8:00 PM Summit Social
Rooms: Salon 7 and 8

Sunday, February 5, 2017

- 8:00 AM – 4:00 PM SCC 81: Sustainable Small
Ruminant Production IEG
Rooms: Salon 7 and 8
- 1:00 PM – 3:35 PM SERA 041 Symposium: Forage
Systems to Extend the Grazing
Season in the Southeastern U.S.
*Rooms: Saddlebred/Highland/
Morgan*
- 3:35 PM – 5:30 PM SERA 041 Meeting
*Rooms: Saddlebred/Highland/
Morgan*
- 3:00 PM – 4:30 PM Graduate Student Meet and Greet
Room: Williamson
- 5:30 PM – TBD Super Bowl Party
Room: Salon 5

Monday, February 6, 2017

- 7:45 AM – 11:50 AM Graduate Student Competition:
MS Division
*Rooms: Saddlebred/Highland/
Morgan*
- 8:00 AM – 11:30 AM **Bill E. Kunkle Interdisciplinary
Beef Symposium:** Advances In
Protein Nutrition For Beef Cattle
Rooms: Salon 1 and 2
- 8:00 AM – 10:20 AM Undergraduate Student Competition
Rooms: Palomino/Quarter Horse
- 1:30 PM – 4:20 PM Graduate Student Competition:
PhD Division
*Rooms: Saddlebred/Highland/
Morgan*
- 8:00 AM – 9:10 AM Meats
Rooms: Salon 3 and 4
- 9:30 AM – 10:30 AM Coffee Break
Rooms: Salon 3 and 4 Hallway
- 10:40 AM – 11:50 AM Breeding and Genetics
Rooms: Salon 3 and 4
- 11:00 AM – 1:30 PM Lunch
Rooms: Salon 3 and 4 Hallway
- 1:30 PM – 4:10 PM Physiology I
Rooms: Salon 3 and 4
- 1:30 PM – 5:00 PM Ruminant Animal Production
Rooms: Salon 1 and 2
- 1:30 PM – 2:40 PM Teaching and Undergraduate
Education
Rooms: Palomino/Quarter Horse
- 5:00 PM – 6:00 PM Business Meeting
Rooms: Salon 3 and 4
- 6:30 PM – 9:30 PM Awards Banquet
*Offsite: The Factory,
Liberty Hall Room*
- 7:00 PM – 9:15 PM Small Ruminant Subcommittee of
the NAGP
Rooms: Salon 3 and 4

Tuesday, February 7, 2017

6:30 AM – 8:00 AM	Extension Breakfast <i>Room: Clydesdale</i>
8:00 AM – 11:05 AM	Extension I <i>Room: Salon 4</i>
8:00 AM – 10:40 AM	Pastures and Forages <i>Room: Salon 3</i>
8:00 AM – 10:30 AM	Physiology II <i>Room: Salon 2</i>
8:00 AM – 10:50 AM	Ruminant Animal Production II <i>Room: Saddlebred</i>
8:00 AM – 11:05 AM	Small Ruminant Animal Production <i>Rooms: Morgan/Highland</i>
9:30 AM – 10:30 AM	Coffee Break <i>Rooms: Salon 3 and 4 Hallway</i>
10:30 AM – 12:00 PM	SSASAS Board Meeting <i>Room: Clydesdale</i>
11:30 AM – 1:30 PM	Lunch <i>Rooms: Salon 3 and 4 Hallway</i>
12:00 PM – 2:00 PM	Graduate Student Lunch and Learn <i>Room: Carothers</i>
1:30 PM – 3:10 PM	Extension II <i>Rooms: Palomino/Quarter Horse</i>

Uploading Presentation Files

Only PowerPoint presentations will be accommodated (i.e. no slides, no overheads, no alternative programs allowed).

1. All session rooms will have Master PCs running PowerPoint 2013 or newer in Windows.
2. Individual laptops may not be connected to the projectors in the session rooms.
3. Presentations must be given to the session chair via flash drive at least 15 minutes before the start of the session.

Special Events

Pre-Conference:

Industry and Academic Summit

Saturday, February 4, 2017 • 1:30 PM – 8:00 PM

Rooms: Carothers

The Industry and Academic Summit will focus on delivery systems for protein and energy supplements, and was designed to complement the SERA41 symposium on Sunday, February 5 and the Bill Kunkle symposium on Monday, February 6. Our goal is to share the perspectives of producers, academics, and industry personnel on multiple topics related to supplementation strategies, including limit grazing of high quality annuals, infrequent feeding of supplements, use of protein tubs and liquid supplements. A social will follow the conclusion of the summit in rooms Salon 7-10.

Registration is required.

Graduate Student Meet and Greet

Sunday, February 5, 2017 • 3:00 PM – 4:30 PM

Room: Williamson

The Graduate Student Meet and Greet will provide graduate students with the opportunity to socialize and network in an informal setting. Light refreshments will be provided.

Registration is required.

Super Bowl Party

Sunday, February 5, 2017 • 5:30 PM

Room: Salon 5

Join us for a Super Bowl viewing party with cash bars and snacks. Come see the game on the large projection screens.

Sponsored by Kemin

Business Meeting

Monday, February 6, 2017 • 5:00 PM – 6:00 PM

Rooms: Salon 3 and 4

The SSASAS Business Meeting will be held independent of the Awards Banquet in 2017.

Awards Banquet

Monday, February 6, 2017 • 6:30 PM

Offsite: The Factory, Liberty Hall Room

Join us for an awards banquet at the historic location, The Factory at Franklin, for an evening of food, drinks and catching up with friends as we honor the accomplishments of our 2017 SSASAS Award winners.

Ronald D. Randel Lectureship

Monday, February 6, 2017 • 1:30 PM - 2:20 PM

Rooms: Salon 3 and 4

Tuesday, February 7, 2017 • 8:00 AM - 8:50 AM

Room: Salon 2

The Executive Committee of SSASAS is pleased to announce the establishment of an annual invited lectureship to the Physiology Section. Dr. Randel's contributions to the field of animal physiology and endocrinology have globally benefited animal agriculture. Dedicating his research career to investigating the reproductive physiology of beef cattle, especially for tropically adapted breeds, Dr. Randel evaluated the role of nutrition on reproduction, elucidated the fundamental reproductive biology of Brahman cattle, developed strategies to reduce livestock production risks and resolved practical problems in beef cattle reproduction. This year he will be honored by a two part lectureship at the beginning of each Physiology Session.

Dr. William M. Moseley

Zoetis, Inc. and Positively Mose, LLC.

Ronald D. Randel Lectureship Part I: Who influenced you?

Dr. Thomas R. Hansen

Colorado State University

Ronald D. Randel Lectureship Part II: Interferons During Early Pregnancy and Fetal Response to Viral Infection.

Extension Breakfast

Tuesday, February 7, 2017 • 6:30 AM

Room: Clydesdale

The objective of the Extension breakfast is to coordinate collaborative forage and livestock educational efforts in the southeastern USA. The main topics for the 2017 Extension breakfast will be: discuss the committee structure and approval of the 2016 Extension Luncheon minutes; summarize of the abstracts and symposium; report on the 2016 New Agent Training Webinar series, and plan for the II Forage and Livestock Southeastern Extension Meeting.

Graduate Student Lunch and Learn

Tuesday, February 7, 2017 • 12:00 PM

Room: Carothers

The ASAS-Southern Section Graduate Student Lunch and Learn will provide a unique opportunity for students to obtain valuable information and advice from academic and industry professionals in an exclusive setting. This year's theme is "Fueling the Future," which will be encompassed by 3 topics: making the most of your graduate career; making the transition from graduate student to industry professional; and balancing a successful career and personal life.

SCIENTIFIC SESSIONS

Saturday, February 4, 2017

PRE-CONFERENCE: 2017 INDUSTRY AND ACADEMIC SUMMIT

DELIVERY SYSTEMS FOR PROTEIN AND ENERGY SUPPLEMENTS

*Chair: Philippe Moriel, University of Florida,
Institute of Food and Agricultural Sciences,
Range Cattle Research and Education Center*

1:30 PM - 8:00 PM
Carothers

- 1:30 PM **Free-Choice Supplementation for Beef Cattle.**
*G. W. Horn**, Oklahoma State University,
Stillwater
- 2:00 PM **Limit Grazing High-Quality Forages.**
*S. A. Gunter^{*1} and J. Baker^{*2}*, ¹USDA-ARS
Southern Plains Range Research, ²Southeast
Agriseeds
- 2:45 PM **Liquid Feed Supplementation.**
*J. D. Arthington^{*1} and C. Bandyk^{*2}*, ¹University
of Florida, Range Cattle REC, ²WestWay Feeds
- 3:00 PM **Break**
- 3:10 PM **When Should I Reduce the Supplementation
Frequency?**
*P. Moriel**, University of Florida, Range Cattle
REC
- 3:30 PM **How to Successfully Use Blocks and Tubs.**
*J. W. Lehmkuhler^{*1}, G. Halich^{*1}, M. Robbins^{*2},*
*and A. Scheaffer^{*3}*, ¹University of Kentucky,
²Ridley Block Operations, ³SweetPro Feeds
- 4:30 PM **Break**
- 4:55 PM **Panel Discussion: Producer Insights on
Supplement Delivery Systems.**
- 6:00 PM **Social**

Sunday, February 5, 2017

SYMPOSIA

SERA 041 SYMPOSIUM: FORAGE SYSTEMS TO EXTEND THE GRAZING SEASON IN THE SOUTHEASTERN U.S.

*Chair: Ryon Walker,
Louisiana State University, AgCenter*

**1:00 PM - 5:30 PM
Saddlebred/Highland/Morgan**

- 1:00 PM 123 **Overview of Forage Nutritive Quality and Availability in Relation to Cattle Needs during the Fall Transition Period in the Southeastern US.**
*P. A. Beck^{*1}, S. Gadberry², S. A. Gunter³, and J. A. Jennings⁴, ¹University of Arkansas, Southwest Research and Extension Center, Hope, ²University of Arkansas, Cooperative Extension Service, Little Rock, ³USDA-ARS Southern Plains Range Research, Woodward, OK, ⁴University of Arkansas, Department of Animal Science, Little Rock*
- 1:20 PM 127 **Fall Stockpiling Options and Management for Extending the Grazing Season.**
*M. H. Poore^{*1} and D. L. Lalman^{*2}, ¹North Carolina State University, Raleigh, ²Oklahoma State University, Stillwater*
- 2:05 PM 126 **Cool-Season Annual Grasses and Grass-Legume Mix Options and Management for Extending the Fall Grazing Season.**
*M. K. Mullenix^{*1} and F. M. Rouquette^{*2}, ¹Auburn University, Auburn, AL, Texas A&M University, AgriLife Research, Overton*
- 2:50 PM 125 **Developing a Grazing Management Plan That Matches Forage Systems to the Nutrient Needs of Cattle.**
*J. Jennings^{*1}, P. A. Beck², and S. Gadberry³, ¹University of Arkansas, Department of Animal Science, Little Rock, ²University of Arkansas, Southwest Research and Extension Center, Hope, ³University of Arkansas, Cooperative Extension Service, Little Rock*
- 3:35 PM **SERA 041 Meeting**

Monday, February 6, 2017

SYMPOSIUM

**BILL E. KUNKLE INTERDISCIPLINARY
BEEF SYMPOSIUM: ADVANCES IN PROTEIN
NUTRITION FOR BEEF CATTLE**

*Chair: Paul A. Beck, University of Arkansas
Southwest Research and Extension Center*

**8:00 AM - 11:30 AM
Salon 1 and 2**

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 119 **Using Bypass Amino Acids and Proteins to Meet the Requirements of Beef Cows Consuming Low-Quality Forage.**
P. A. Lancaster and K. A. Johnson, Missouri State University, Springfield*
- 8:50 AM 120 **Protein Supplementation of Beef Cattle to Meet Human Protein Requirements.**
T. A. Wickersham and J. E. Sawyer, Texas A&M University, College Station*
- 9:35 AM **Break**
- 9:45 AM 121 **Opportunities and Challenges of Applying Recent Advances in Dairy Cattle Protein Nutrition to Beef Cattle Nutrition.**
G. I. Zanton, USDA-ARS, U.S. Dairy Forage Research Center, Madison, WI*
- 10:30 AM 122 **Environmental Consequences of Overfeeding Protein to Beef Cattle.**
S. E. Place, Oklahoma State University, Stillwater*
- 11:15 AM **Discussion**

COMPETITIONS

GRADUATE STUDENT COMPETITION: MS DIVISION

*Chair: Clare A. Gill, Texas A&M University,
Department of Animal Science*

7:45 AM - 11:50 AM
Saddlebred/Highland/Morgan

- 7:45 AM **Welcoming Remarks**
- 7:50 AM 22 **Effects of Gradual Reduction on Frequency of Energy Supplementation on Growth and Immunity of Stressed Calves.**
*G. M. Silva^{*1}, P. Moriel¹, N. Henson², J. Ranches¹, G. Santos², and M. H. Poore², ¹University of Florida, Institute of Food and Agricultural Sciences, Range Cattle Research and Education Center, Ona, ²North Carolina State University, Raleigh*
- 8:05 AM 23 **Pre-Weaning Injections of Bovine Somatotropin Enhanced Puberty Attainment of Bos Indicus-Influenced Beef Heifers.**
*M. Piccolo^{*1}, G. M. Silva¹, G. C. Lamb², J. M. B. Vendramini¹, J. D. Arthington¹, and P. Moriel¹, ¹University of Florida, Institute of Food and Agricultural Sciences, Range Cattle Research and Education Center, Ona, ² University of Florida, Institute of Food and Agricultural Sciences, North Florida Research and Education Center, Marianna*
- 8:20 AM 24 **Whole Cottonseed Supplementation Improves Performance and Reduces Emission Intensity of Grazing Cattle.**
*M. R. Beck^{*1}, L. R. Thompson¹, J. E. White¹, G. D. Williams¹, S. A. Gunter², C. A. Moffet³, S. E. Place¹, and R. Reuter⁴, ¹Oklahoma State University, Stillwater, ²USDA-ARS Southern Plains Range Research, Woodward, OK, ³USDA-ARS, Woodward, OK, ⁴Oklahoma Agricultural Experiment Station, Stillwater*
- 8:35 AM 25 **Evaluating Heat Detector Patch Response to Determine Gonadotropin-Releasing Hormone Use at Split-Timed Artificial Insemination on Pregnancy Rates in Beef Cattle.**
*D. Demeterco^{*1}, A. B. Keith², J. Anderson³, and R. Walker³, ¹Louisiana State University, Baton Rouge, ²Louisiana Tech University, Ruston, ³Louisiana State University, AgCenter, Hill Farm Research Station, Homer*

- 8:50 AM 26 **The Effects of Moisture at Baling and Wrapping Delay on Storage Characteristics of Annual Ryegrass Round Bale Silage.**
*T. S. Crook^{*1}, B. Stewart², M. B. Sims², C. P. Weiss¹, K. P. Coffey³, and P. A. Beck⁴,*
¹University of Arkansas, Fayetteville,
²University of Arkansas, Southwest Research and Extension Center, Hope, ³University of Arkansas, Division of Agriculture, Fayetteville,
⁴ University of Arkansas, Department of Animal Science, Little Rock
- 9:05 AM 27 **Milk Production Responses to Beef Cow Energy Intakes.**
*C. M. Spencer^{*1}, C. L. Bayliff¹, M. D. Redden¹, A. L. McGee¹, R. Reuter¹, G. W. Horn¹, C. A. Moffet², and D. L. Lalman¹,* ¹Oklahoma State University, Stillwater, OK, ²USDA-ARS, Woodward, OK
- 9:20 AM 28 **Using Pregnancy-Associate Glycoprotein (PAG) on Day 24 As Marker for Pregnancy on Beef Cattle.**
F. Guirado Dantas^{}, K. E. Zechiel, S. T. Reese, G. A. Franco, J. D. Rhinehart, and K. G. Pohler,* University of Tennessee, Knoxville
- 9:35 AM **Break**
- 9:45 AM 29 **An Economic Comparison Between Limit-Fed and Conventional Cow-Calf Production Systems during Periods of Reduced Forage Availability.**
J. R. Baber^{}, J. E. Sawyer, D. P. Anderson, J. W. Richardson, and T. A. Wickersham,* Texas A&M University, College Station
- 10:00 AM 30 **Effects of Dietary Omega-3 Fatty Acids on Growth and Reproduction in Gilts Farrowed By Sows Fed Diets Rich in Omega-3 Fatty Acids.**
*R. C. Petrone^{*1}, K. J. Fuller¹, K. A. Williams², T. W. Lee², and M. J. Estienne²,* ¹Virginia Polytechnic Institute and State University, Blacksburg, ²Virginia Polytechnic Institute and State University, Tidewater Agricultural Research and Extension Center, Suffolk
- 10:15 AM 31 **Comparison of Post-Weaning Weights and Carcass Traits Between Freemartin and Twin-Heifer Calves.**
*L. R. Parker^{*1}, S. E. Echternkamp², and D. R. Eborn¹,* ¹Texas A&M University, Commerce, ²USDA-ARS, Clay Center, NE

- 10:30 AM 32 **Use of Triptorelin Acetate for Inducing Ovulation and Facilitating Fixed Time Artificial Insemination of Sows Weaned on Small-Scale and Niche Market Pig Farms.**
*A. J. Fabi^{*1}, K. A. Williams², and M. J. Estienne², ¹Virginia Polytechnic Institute and State University, Blacksburg, ²Virginia Polytechnic Institute and State University, Tidewater Agricultural Research and Extension Center, Suffolk*
- 10:45 AM 33 **Effect of Supplementation Method on Protein Supplement Intake and Performance of Individual Beef Steers Grazing Native Range.**
G. D. Williams^{}, M. R. Beck, L. R. Thompson, G. W. Horn, and R. Reuter, Oklahoma State University, Stillwater*
- 11:00 AM 34 **Effect of Creep Feeding on Meat Goat Kid Traits at Weaning.**
*E. G. Hayes^{*1}, R. V. Lourençon², P. Khanal¹, and R. Browning, Jr.¹, ¹Tennessee State University, Nashville, ²Universidade Estadual Paulista, Botucatu, Brazil*
- 11:15 AM 35 **Effects of Moxidectin/Oxfendazole and Long-Acting Eprinomectin Treatment on Fecal Egg Counts and Performance in Newly Received Stocker Calves.**
*A. C. Lewis^{*1}, E. A. Watson¹, A. L. Sonntag¹, K. E. Kasten¹, B. Papajeski², J. C. Robertson¹, E. A. Backes³, C. A. Porr¹, and A. J. Davis¹, ¹Murray State University, Hutson School of Agriculture, Animal/Equine Science, Murray, KY, ²Murray State University, Hutson School of Agriculture, Breathitt Veterinary Center, Murray, KY, ³Purina Animal Nutrition, LLC, Gray Summit, MO*
- 11:30 AM 36 **Effect of Acute or Chronic Water Restriction on Hematological Variables, Rectal Temperature and Performance in Parenteral or Intranasal Modified-Live Viral Vaccinated Beef Calves.**
*E. L. Kaufman^{*1}, P. A. Beck², S. L. Roberts¹, and J. T. Richeson¹, ¹West Texas A&M University, Canyon, ²University of Arkansas, Hope*
- 11:45 AM **Concluding Remarks**

UNDERGRADUATE STUDENT COMPETITION

Chair: Kyle Caires, University of Hawaii

8:00 AM - 10:20 AM
Palomino/Quarter Horse

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 111 **Factors Affecting Cell-Mediated Immune Response in Weaned Brahman Calves.**
*T. J. Garcia^{*1}, D. A. Neuendorff², A. W. Lewis², T. H. Welsh, Jr.¹, and R. D. Randel², ¹Texas A&M University, Department of Animal Science, College Station, ²Texas A&M University, AgriLife Research, Overton*
- 8:20 AM 112 **Natural Antibody Profiles during Early to Mid-Lactation in Jersey Cows.**
H. C. Rivers^{} and L. A. Flatow, Berry College, Mount Berry, GA*
- 8:35 AM 113 **Evaluating the Accuracy of a New Commercial Genetic Test for Response to Fescue Toxicosis in Cattle.**
J. M. Galliou^{}, P. Khanal, K. Mayberry, M. H. Poore, D. H. Poole, and N. V. Serão, North Carolina State University, Raleigh*
- 8:50 AM 114 **Effect of Body Condition Score on Fatty Acid Composition of Equine Visceral Adipose Tissues.**
*A. L. Greene^{*1}, R. M. Humphrey², A. Theradiyil Sukumaran², E. N. Ferjak², R. L. Lemire², C. A. Cavinder¹, D. D. Burnett², and T. Dinh², ¹Mississippi State University, Mississippi State, ²Mississippi State University, Department of Animal and Dairy Sciences, Mississippi State*
- 9:05 AM 115 **Effect of a Pre-Synchronization Protocol on Beef Heifer AI Pregnancy Rates.**
R. E. Monn^{}, J. C. Mackey, H. B. Dudley, and D. H. Poole, North Carolina State University, Raleigh*

- 9:20 AM 116 **Effects of Moxidectin/Oxfendazole and Long-Acting Eprinomectin Treatment on Fecal Egg and Fly Counts, Adg, and Blood Parameters in Newly Received Stocker Calves.**
*E. A. Watson^{*1}, A. C. Lewis¹, A. L. Sonntag¹, K. E. Kasten¹, J. F. Miller², B. Papajeski³, J. C. Robertson¹, E. A. Backes⁴, C. A. Porr¹, and A. J. Davis¹, ¹Murray State University, Hutson School of Agriculture, Animal/Equine Science, Murray, KY, ²Murray State University, Hutson School of Agriculture, Breathitt Veterinary Center, Hopkinsville, KY, ³Murray State University, Hutson School of Agriculture, Breathitt Veterinary Center, Murray, KY, ⁴Purina Animal Nutrition, LLC, Gray Summit, MO*
- 9:35 AM **Break**
- 9:45 AM 117 **Effect of Internal Parasites on Meat Goat Reproductive Traits.**
*M. McFall^{*1}, E. G. Hayes¹, P. Khanal¹, M. L. Leite-Browning², and R. Browning, Jr.¹, ¹Tennessee State University, Nashville, ²Alabama A&M University, Huntsville*
- 10:00 AM 118 **Effects of Two-Stage Weaning Duration on Beef Cattle Growth and Vocalizations.**
E. O. Clark^{}, A. N. Deller, P. L. Harrelson, and F. W. Harrelson, Morehead State University, Morehead, KY*
- 10:15 AM **Concluding Remarks**

**GRADUATE STUDENT COMPETITION:
PHD DIVISION**

*Chair: Clare A. Gill, Texas A&M University,
Department of Animal Science*

**1:30 PM - 4:20 PM
Saddlebred/Highland/Morgan**

- 1:30 PM **Welcoming Remarks**
- 1:35 PM 37 **Zinc Source and Concentration Altered Physiological Responses of Beef Heifers during a Combined Viral-Bacterial Respiratory Challenge.**
*A. B. Word^{*1,2}, P. R. Broadway², N. C. Burdick Sanchez³, J. A. Carroll², S. L. Roberts⁴, E. L. Kaufman⁴, L. R. Fontenot⁴, J. T. Richeson⁴, M. Brown⁵, and K. W. Ridenour⁵, ¹Texas Tech University, Lubbock, ²USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, ³USDA-ARS, Lubbock, TX, ⁴West Texas A&M University, Canyon, ⁵Global Animal Products, Inc., Amarillo, TX*
- 1:50 PM 38 **Effect of Genetic Response to Fescue Toxicity on Body Weight, Body Temperature, Hair Coat, Hair Shed and Body Condition Score in Angus Cows.**
P. Khanal^{}, K. Mayberry, M. H. Poore, D. H. Poole, and N. V. Serão, North Carolina State University, Raleigh*
- 2:05 PM 39 **The Consumer Cold-Chain: A Survey on Consumer Handling Behaviors on Fresh Beef Products during Vehicular Transport from Retail to Residence.**
D. A. Griffing^{} and C. L. Bratcher, Auburn University, Auburn, AL*
- 2:20 PM 40 **Ergot Alkaloids from Endophyte-Infected Tall Fescue Alters Ovarian Follicle Growth and Development in Beef Heifers.**
R. K. Poole^{}, T. L. Devine, J. C. Mackey, M. H. Poore, and D. H. Poole, North Carolina State University, Raleigh*
- 2:35 PM 41 **Chronic Exposure to Ergot Alkaloids Suppresses Growth Hormone in Beef Steers.**
A. W. Bostian^{}, S. E. Lyons, J. C. Mackey, C. L. Pickworth, M. H. Poore, and D. H. Poole, North Carolina State University, Raleigh*

- 2:50 PM 42 **Effects of Roughage Inclusion and Particle Size on Digestion and Ruminal Fermentation Characteristics of Beef Steers.**
*C. P. Weiss^{*1}, W. W. Gentry¹, C. M. Meredith¹, F. T. McCollum¹, N. A. Cole², and J. S. Jennings¹,
¹Texas A&M University, AgriLife Research and Extension Center, Amarillo, ²USDA-ARS, Conservation and Production Research Laboratory, Bushland, TX*
- 3:05 PM **Break**
- 3:15 PM 43 **Evaluation of Statistical Process Control Procedures to Monitor Feeding Behavior Patterns and Detect Onset of Bovine Respiratory Disease in Growing Bulls.**
*W. C. Kayser^{*1}, G. E. Carstens¹, K. S. Jackson¹, W. E. Pinchak², A. Banerjee¹, and Y. Fu¹, ¹Texas A&M University, College Station, ²Texas A&M University, Agrilife Research, Vernon*
- 3:30 PM 44 **Intensified Cow-Calf Production in the Southern Great Plains.**
*A. L. McGee^{*1}, J. R. Cole¹, M. D. Redden¹, C. L. Bayliff¹, C. M. Spencer¹, R. Reuter¹, G. W. Horn², J. G. Warren¹, D. Doye¹, and D. L. Lalman¹, ¹Oklahoma State University, Stillwater, ²Oklahoma Agricultural Experiment Station, Stillwater*
- 3:45 PM 45 **Three-Year Evaluation of Warm-Season Annual Forages in Summer Forage-Finishing Beef Production.**
*D. D. Harmon^{*1}, J. L. Lacey², D. Hancock¹, J. O. Segers², A. M. Stelzleni³, C. D. Teutsch⁴, and L. Stewart², ¹University of Georgia, Department of Crop and Soil Sciences, Athens, ²University of Georgia, Athens, ³University of Georgia, Department of Animal and Dairy Science, Athens, ⁴Virginia Polytechnic Institute and State University, Blacksburg*
- 4:00 PM 46 **Noninvasive Embryo Assessment Technique to Predict Embryo Cryodamage and Potential Sex Selection.**
C. E. Wessels^{}, Texas Tech University, Lubbock*
- 4:15 PM **Concluding Remarks**

GENERAL SESSIONS

MEATS

Chair: Christy L. Bratcher, Auburn University

8:00 AM - 9:10 AM

Salon 3 and 4

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 47 **Inclusion of Bull and Cow Beef in Patty Formulation Results in Persistent Pinking in Cooked Beef.**
*V. G. Wilson**, *J. W. S. Yancey*, *J. K. Apple*, *T. M. Johnson*, and *R. T. Callahan*, *University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville*
- 8:20 AM 48 **Carcass Composition and Meat Quality Assessment of Pork Fed Poultry Fat, Flaxseed Oil and Supplemented with Vitamin E.**
*W. E. Magee**, *C. Huang*, *D. A. Griffing*, *J. E. Smith*, *L. I. Chiba*, and *C. L. Bratcher*, *Auburn University, Auburn, AL*
- 8:35 AM 49 **Marination of Chicken Using Sodium Carbonate As a Processing Aid.**
*J. E. Smith**, *W. N. Tapp*, *W. E. Dukes*, *W. E. Magee*, and *C. L. Bratcher*, *Auburn University, Auburn, AL*
- 8:50 AM 50 **Endophyte-Infected Tall Fescue Seeds Had No Effect on Carcass Characteristics of Beef Cattle.**
*B. J. McClenton*¹, *A. T. Sukumaran*², *A. J. Holtcamp*², *R. L. Lemire*², *R. C. Thompson*¹, *O. L. White*¹, *R. C. Vann*³, *J. R. Blanton*¹, *D. D. Burnett*³, and *T. Dinh*³, ¹*Mississippi State University, Mississippi State*, ²*Mississippi State University, Department of Animal and Dairy Sciences, Mississippi State*, ³*Mississippi State University, Mississippi Agricultural and Forestry Experiment Station, Brown Loam Branch, Raymond*
- 9:05 AM **Concluding Remarks**

BREEDING AND GENETICS

Chair: Lisa A. Kriese-Anderson, Auburn University

10:40 AM - 11:50 AM
Salon 3 and 4

- 10:40 AM **Welcoming Remarks**
- 10:45 AM 1 **Genetic Parameters for Fecal Egg Count and Body Weight in Katahdin Lambs.**
*L. Ngere^{*1,2}, J. M. Burke¹, D. R. Notter³, J. Morgan⁴, and J. E. Miller⁵, ¹USDA-ARS, Booneville, AR, ²Oak Ridge Institute for Science and Education, Oak Ridge, TN, ³Virginia Polytechnic Institute and State University, Blacksburg, ⁴Katahdin Hair Sheep International, Fayetteville, AR, ⁵Louisiana State University, Baton Rouge*
- 11:00 AM 2 **Prolactin, a Candidate Gene for Productivity Traits in Angus-Based Cattle.**
*L. R. Meyer^{*1}, J. G. Powell¹, B. R. Kutz¹, M. L. Looper², and C. F. Rosenkrans, Jr.¹, ¹University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville, ²University of Arkansas, Fayetteville*
- 11:15 AM 3 **Evaluation of Udder and Teat Scores in Beef Cattle and the Relationship to Calf Performance.**
T. Smith^{}, C. D. Glenn, R. C. White, and W. E. White, Mississippi State University, Mississippi State*
- 11:30 AM 4 **Recommended Duration for Evaluating Feed Intake and Validating the Residual Feed Intake Model in Brangus Heifers.**
L. A. Kriese-Anderson^{}, L. E. Mahler, T. D. Brandebourg, and M. K. Mullenix, Auburn University, Auburn, AL*
- 11:45 AM **Concluding Remarks**

PHYSIOLOGY I

**Chair: Randy L. Stanko, Texas A&M University,
Department of Animal, Rangeland
and Wildlife Sciences**

**1:30 PM - 4:10 PM
Salon 3 and 4**

- 1:30 PM **Welcoming Remarks**
- 1:35 PM 60 **Ronald D. Randel Lectureship Part I:
Who influenced you?**
*W. M. Moseley^{*1,2}, ¹Zoetis, Inc., Kalamazoo, MI,
²Positively Mose, LLC, Kalamazoo, MI*
- 2:20 PM **Introductory Remarks**
- 2:25 PM 61 **Effect of Omega-3 Polyunsaturated Fatty
Acid (n-3 PUFA) Supplementation to
Lactating Sows on Growth and Indicators of
Stress in the Post-Weaned Pig.**
*J. M. McAfee¹, H. G. Kattesh^{*1}, M. D.
Lindemann², B. H. Voy¹, C. J. Kojima¹, J.
A. Carroll³, N. C. Burdick Sanchez³, B. E.
Gillespie¹, and A. M. Saxton¹, ¹University of
Tennessee, Department of Animal Science,
Knoxville, ²University of Kentucky, Lexington,
³USDA-ARS, Livestock Issues Research Unit,
Lubbock, TX*
- 2:40 PM 62 **Factors Affecting Antibody Mediated
Immune Response in Weaned Brahman
Calves.**
*C. L. Cook^{*1}, T. J. Garcia^{1,2}, A. W. Lewis², D.
A. Neuendorff², J. Bray³, W. Mwangi^{2,3}, R.
D. Randel², and T. H. Welsh^{1,4}, ¹Texas A&M
University, Department of Animal Science,
College Station, ²Texas A&M University,
AgriLife Research, Overton, ³Texas A&M
University, Department of Veterinary
Pathobiology, College Station*
- 2:55 PM 63 **Clostat® Reduces the Negative Impacts of
a Salmonella Challenge in Weaned Holstein
Steers.**
*P. R. Broadway^{*1}, J. A. Carroll¹, N. C. Burdick
Sanchez¹, T. R. Callaway², S. D. Lawhon³, L.
K. Bryan³, E. V. Gart³, D. O'Connor⁴, and P.
W. Rounds⁴, ¹USDA-ARS, Livestock Issues
Research Unit, Lubbock, TX, ²USDA-ARS,
College Station, TX, ³ Texas A&M University,
Department of Veterinary Pathobiology, College
Station, ⁴Kemin Industries, Inc., Des Moines, IA*
- 3:10 PM **Break**

- 3:20 PM 64 **Factors Affecting Growth of Berkshire Pigs in Alternative Production Systems.**
H. S. PARK and S. H. OH, North Carolina Agricultural and Technical State University, Greensboro*
- 3:35 PM 65 **Factors Affecting Growth and Body Dimensions of Pigs Reared in Alternative Production.**
H. S. PARK and S. H. OH, North Carolina Agricultural and Technical State University, Greensboro*
- 3:50 PM 66 **Relationship of Growth on Age at First Calving in Brahman Heifers.**
*R. A. d'Orey Branco*¹, D. A. Neuendorff¹, T. H. Welsh², and R. D. Randel¹, ¹Texas A&M University, AgriLife Research, Overton, ²Texas A&M University, Department of Animal Science, College Station*
- 4:05 PM **Concluding Remarks**

RUMINANT ANIMAL PRODUCTION I

***Chair: Brandi B. Karisch,
Mississippi State University,
Department of Animal and Dairy Sciences***

**1:30 PM - 5:00 PM
Salon 1 and 2**

- 1:30 PM **Welcoming Remarks**
- 1:35 PM 74 **Effect of Acute or Chronic Water Restriction on Acute Phase Protein and Antibody Responses in Parenteral or Intranasal Modified-Live Viral Vaccinated Beef Calves.**
*E. L. Kaufman*¹, P. A. Beck², S. L. Roberts¹, H. D. Hughes¹, and J. T. Richeson¹, ¹West Texas A&M University, Canyon, ²University of Arkansas, Hope*
- 1:50 PM 75 **The Efficacy of Norgestomet Implants on Performance and Preventing Pregnancy in Grazing Postpubertal Beef Heifers.**
*J. Hawley*¹, J. G. Powell¹, E. B. Kegley¹, R. W. Rorie¹, A. P. Fidler², and P. C. Taube³, ¹University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville, ²North Carolina State University, College of Veterinary Medicine, Raleigh, ³Zoetis Inc., Kalamazoo, MI*

- 2:05 PM 76 **Manipulation of Neonatal Leptin Profile Via Exogenous Cortisol in Beef Calves.**
*L. K. Lewis**, *R. E. Ricks*, and *N. M. Long*,
Clemson University, Clemson, SC
- 2:20 PM 77 **Comparison of Tulathromycin and Gamithromycin on Growth Performance, Morbidity, and Treatment Cost in High-Risk, Newly Received Beef Calves.**
*J. J. Ball**, *E. B. Kegley*, *J. A. Hornsby*, *J. L. Reynolds*, and *J. G. Powell*, *University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville*
- 2:35 PM 78 **Comparison of Long-Acting or Conventional Growth Implants on Performance in Steers Grazed for 180 Days.**
*J. J. Ball**, *M. C. Hickinbotham*, *E. B. Kegley*, *J. T. Richeson*, *M. P. Rowe*, and *J. G. Powell*, *University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville*
- 2:50 PM 79 **Dietary Energy Utilization in Limit-Fed Beef Cattle.**
*L. A. Trubenbach**¹, *T. A. Wickersham*¹, *V. P. Briani*¹, and *J. E. Sawyer*^{1,2}, ¹*Texas A&M University, College Station*, ²*Texas A&M University, AgriLife Research, College Station*
- 3:05 PM **Break**
- 3:15 PM 80 **Evaluation of Angus Cattle Hair Coat Length and Its Associations with Tolerance to Fescue Toxicosis.**
*K. Mayberry**, *T. L. Devine*, *M. H. Poore*, *N. V. Serão*, and *D. H. Poole*, *North Carolina State University, Raleigh*
- 3:30 PM 81 **Sire Effect on Pregnancy Associated Glycoprotein (PAG) Concentrations in Nelore Beef Cows.**
*G. A. Franco**¹, *R. F. G. Peres*², *C. F. G. Martins*³, *J. L. M. Vasconcelos*², and *K. G. Pohler*¹, ¹*University of Tennessee, Knoxville*, ²*Universidade Estadual Paulista, Faculdade de Medicina Veterinária e Zootecnia, Departamento de Produção Animal, Botucatu, Brazil*, ³*Agropecuária Fazenda Brasil, Barra do Garças, Brazil*
- 3:45 PM 82 **The Effects of Feeding Monensin to Bred Heifers Fed in a Drylot on Nutrient and Energy Balance.**
*C. N. Hemphill**¹, *T. A. Wickersham*¹, *J. E. Sawyer*¹, *H. C. Freetly*², and *K. E. Hales*², ¹*Texas A&M University, College Station*, ²*USDA-ARS, U. S. Meat Animal Research Center, Clay Center, NE*

- 4:00 PM 83 **Pregnancy Associated Glycoprotein (PAG) Concentrations at Day 24 Gestation from Dairy Heifers Predicted to Maintain Pregnancy.**
*S. T. Reese*¹, M. C. Pereira², J. L. M. Vasconcelos^{2,3}, and K. G. Pohler¹, ¹University of Tennessee, Knoxville, ²San Paulo State University, Botucatu, Brazil, ³Universidade Estadual Paulista, Faculdade de Medicina Veterinária e Zootecnia, Departamento de Produção Animal, Botucatu, Brazil*
- 4:15 PM 84 **The Effects of Late Gestation Nutrient Restriction on Heifer Offspring Feed Intake and Metabolites and Hormones During a Feeding Challenge.**
J. E. Tipton, R. E. Ricks, C. T. LeMaster, and N. M. Long, Clemson University, Clemson, SC*
- 4:30 PM 85 **Impact of Three Weaning Strategies on Calf Activity and Behavior at Weaning and Productivity after Weaning.**
*S. R. Freeman*¹, C. L. Pickworth Poole¹, M. H. Poore¹, and M. L. Alley², ¹North Carolina State University, Raleigh, ²Zoetis, Inc., Cary, NC*
- 4:45 PM **Concluding Remarks**

TEACHING AND UNDERGRADUATE EDUCATION

Chair: Kyle Caires, University of Hawaii

**1:30 PM - 2:40 PM
 Palomino/Quarter Horse**

- 1:30 PM **Welcoming Remarks**
- 1:35 PM 107 **Teaching a Stocker-Backgrounding and Feedlot Cattle Production Course in Northwest Tennessee.**
E. K. Buttrey, B. S. Buttrey, and J. R. Pruitt, University of Tennessee, Martin*
- 1:50 PM 108 **No, I'm Not a Veterinarian! Increasing Student Awareness of Career Diversity within the Animal Sciences.**
E. K. Buttrey and C. S. Darroch, University of Tennessee, Martin*

- 2:05 PM 109 **Student Demographics in an Introductory Animal Science Course at a Regional Public University.**
P. L. Harrelson and F. W. Harrelson, Morehead State University, Morehead, KY*
- 2:20 PM 110 **Changes in Student Perceptions Following Completion of an Introductory Animal Science Course at a Regional Public University.**
P. L. Harrelson and F. W. Harrelson, Morehead State University, Morehead, KY*
- 2:35 PM **Concluding Remarks**

Tuesday, February 7, 2017

GENERAL SESSIONS

EXTENSION I

*Chair: Joao Vendramini, University of Florida,
Institute of Food and Agricultural Sciences
Range Cattle Research and Education Center*

**8:00 AM - 11:05 AM
Salon 4**

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 5 **Evaluation of Metal Loss through Simulated Rainfall-Induced Leaching of Salt-Based, Free-Choice Mineral Supplements: An Extension Service.**
J. D. Arthington, J. Ranches, and M. L. Silveira, University of Florida, Institute of Food and Agricultural Sciences, Range Cattle Research and Education Center, Ona*
- 8:20 AM 6 **Use of Radio-frequency Identification Technology to Assess the Frequency of Cattle Visits to Mineral Feeders.**
J. Ranches, J. D. Arthington, and U. Pardelli, University of Florida, Institute of Food and Agricultural Sciences, Range Cattle Research and Education Center, Ona*
- 8:35 AM 7 **The Effects of an Injectable Mineral Supplement on Weight Gain and Conception Rate.**
C. B. Sherrill, W. A. Storer, B. L. Ivey, and C. E. Ferguson, McNeese State University, Lake Charles, LA*

- 8:50 AM 8 **Comparison of Heifer Conception Rates to Artificial Insemination after Synchronization with CO-Synch + Cidr with and without 14 d Cidr Pretreatment.**
*C. B. Sherrill**, *W. A. Storer*, *B. L. Ivey*, and *C. E. Ferguson*, *McNeese State University, Lake Charles, LA*
- 9:05 AM 9 **Evaluating Variation in Haylage Collected in Arkansas: An Internship Project in Animal Science Extension Programming.**
P. Tipton^{*1}, *M. S. Gadberry*², *J. Gunsaulis*³, *K. J. Simon*², *M. B. Sims*⁴, *P. A. Beck*⁵, *J. A. Jennings*², and *C. A. Ahrens*⁶, ¹*Arkansas Tech University, Russellville*, ²*University of Arkansas, Department of Animal Science, Little Rock*, ³*University of Arkansas, Bentonville*, ⁴*University of Arkansas, Southwest Research and Extension Center, Hope*, ⁵*University of Arkansas, Hope*, ⁶*University of Arkansas, Little Rock*
- 9:20 AM 10 **Beef 101: A Hands-on Workshop Highlighting Carcass Fabrication and Processing.**
B. B. Karisch^{*1} and *W. C. Rutherford*²,
¹*Mississippi State University, Department of Animal and Dairy Sciences, Mississippi State*,
²*Mississippi State University, Mississippi State*
- 9:35 AM **Break**
- 9:45 AM 11 **The Effect of Various Levels of Dietary Starch on Glycogen Replenishment in the Light Working Horse.**
C. A. Phillips^{*1}, *C. A. Cavinder*², *D. H. Sigler*¹, and *J. D. Fluckey*¹, ¹*Texas A&M University, College Station*, ²*Mississippi State, Mississippi State*
- 10:00 AM 12 **Sand Mountain Elite Heifer Development Program I: Forage Growth and Utilization.**
M. K. Stanford^{*1}, *M. L. Marks*², *L. A. Kriese-Anderson*³, and *M. K. Mullenix*³, ¹*Alabama Cooperative Extension System, Crossville*,
²*Alabama Cooperative Extension System, Centre*, ³*Auburn University, Auburn, AL*
- 10:15 AM 13 **Sand Mountain Elite Heifer Development Program II: Heifer Performance.**
L. A. Kriese-Anderson^{*1}, *M. L. Marks*², *M. K. Stanford*³, and *M. K. Mullenix*¹, ¹*Auburn University, Auburn, AL*, ²*Alabama Cooperative Extension System, Centre*, ³*Alabama Cooperative Extension System, Crossville*

- 10:30 AM 14 **Sand Mountain Elite Heifer Development Program III: Heifer Reproductive Performance and Program Costs.**
*M. L. Marks^{*1}, M. K. Stanford², and L. A. Kriese-Anderson³, ¹Alabama Cooperative Extension System, Centre, ²Alabama Cooperative Extension System, Crossville, ³Auburn University, Auburn, AL*
- 10:45 AM 15 **Evaluating the Post-Course Application of the Livestock Education and Certification for Agricultural Law Enforcement (LECALE) Extension Curriculum.**
*C. Wickens^{*1}, M. Hersom², E. Jennings¹, B. Stice¹, J. Shuffitt¹, and J. Brown¹, ¹University of Florida, Gainesville, ²University of Florida, Department of Animal Sciences, Gainesville*
- 11:00 AM **Concluding Remarks**

PASTURES AND FORAGES

Chair: Russell B. Muntifering, Auburn University

**8:00 AM - 10:40 AM
Salon 3**

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 51 **The Effect of Stocking Rate on Steer Performance Grazing ‘Nelson’ Ryegrass.**
G. Scaglia^{}, Louisiana State University, AgCenter, Iberia Research Station, Jeanerette*
- 8:20 AM 52 **Evaluation of Nitrogen Delivery Methods for Stocker Cattle Grazing Annual Ryegrass.**
P. A. Gunter^{}, R. W. Peacock, R. B. Muntifering, and M. K. Mullenix, Auburn University, Auburn, AL*
- 8:35 AM 53 **BMR-6 Forage Sorghum Silage As an Alternative to Corn Silage for Growing Cattle.**
S. Ingram^{} and M. H. Poore, North Carolina State University, Raleigh*
- 8:50 AM 54 **Evaluating Yield and Nutritive Value of Tifton-85 Bermudagrass and Tifton-85 Bermudagrass-Alfalfa Mixtures As Baleage in the Southeast.**
*T. J. Hendricks^{*1}, J. J. Tucker², D. Hancock³, and R. L. Stewart, Jr.⁴, ¹University of Georgia, Athens, ²University of Georgia, Tifton, ³University of Georgia, Department of Crop and Soil Sciences, Athens, ⁴University of Georgia, Department of Animal and Dairy Science, Athens*

- 9:05 AM 55 **Development of a Conceptual Model for Integration of the Forage-Animal Interface As a Foundation for Decision Support Systems.**
*W. B. Smith^{*1}, A. B. Norris², F. M. Rouquette¹, and L. O. Tedeschi², ¹Texas A&M University, AgriLife Research, Overton, ²Texas A&M University, College Station*
- 9:20 AM 56 **Response of Growing Cattle to a Cumulative Management Strategy Including an Implant, Ionophore, and Byproduct Feed Supplementation While Grazing Tall Fescue Pastures with Varying Toxicity.**
*J. Diaz^{*1}, M. S. Gadberry², P. A. Beck³, G. D. Hufstedler⁴, D. S. Hubbell, III⁵, J. D. Tucker⁵, and T. Hess⁵, ¹University of Arkansas, Fayetteville, ²University of Arkansas, Department of Animal Science, Little Rock, ³University of Arkansas, Hope, ⁴Elanco Animal Health, Greenfield, IN, ⁵University of Arkansas, Livestock and Forestry Research Station, Batesville*
- 9:35 AM **Break**
- 9:50 AM 57 **Effects of Selenium-Form Phenotypes on Steers Grazing Endophyte-Infected Tall Fescue.**
*Y. Jia^{*1}, Q. Li¹, G. E. Aiken², P. Bridges¹, and J. C. Matthews¹, ¹University of Kentucky, Lexington, ²USDA-ARS, Lexington, KY*
- 10:05 AM 58 **Summer-Long Grazing of Endophyte-Infected Tall Fescue By Growing Beef Steers Inhibits Expression of Genes Responsible for Prolactin and ACTH Synthesis.**
Q. Li^{}, P. Bridges, and J. C. Matthews, University of Kentucky, Lexington*
- 10:20 AM 59 **Effects of Ergot Alkaloids during Mid-to-Late Gestation on Uteroplacental Sufficiency and Fetal Growth.**
J. L. Britt^{}, M. F. Miller Jr., B. M. Koch, N. M. Long, S. L. Pratt, J. G. Andrae, and S. K. Duckett, Clemson University, Clemson, SC*
- 10:35 AM **Concluding Remarks**

PHYSIOLOGY II

Chair: Michelle R. Garcia, Texas A&M University

8:00 AM - 10:30 AM

Salon 2

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 67 **Ronald D. Randel Lectureship Part II: Interferons During Early Pregnancy and Fetal Response to Viral Infection.**
T. R. Hansen, H. Van Campen, J. V. Bishop, and K. Knapek, Colorado State University, Fort Collins*
- 8:50 AM **Introductory Remarks**
- 8:55 AM 68 **Hair Shedding Score and Hair Coat Color Affect Body Temperature during Heat Stress in Weaned Beef Heifers.**
*J. A. Parish*¹, J. A. Carroll², P. R. Broadway², T. F. Best¹, C. O. Stewart¹, and N. C. Burdick Sanchez², ¹Mississippi State University, Prairie, ²USDA-ARS, Livestock Issues Research Unit, Lubbock, TX*
- 9:10 AM 69 **Evaluation of the Effect of Hot Iron Branding on Cortisol and Cortisol Binding Globulin Concentrations in Young Senepol Cattle.**
*R. W. Godfrey*¹, S. R. Joseph¹, J. A. Martinez², H. C. Nelthropp¹, S. A. Lakos¹, R. L. Stanko^{2,3}, H. G. Kattesh⁴, S. A. Lockwood⁴, and B. E. Gillespie⁴, ¹University of the Virgin Islands, Agricultural Experiment Station, St Croix, ²Texas A&M University, Department of Animal, Rangeland, & Wildlife Sciences, Kingsville, ³Texas A&M University, AgriLife, Animal Reproduction Laboratory, Beeville, ⁴ University of Tennessee, Department of Animal Science, Knoxville*
- 9:25 AM 70 **Evaluation of the Effect of Hot Iron Branding on Pen Score, Chute Score, Exit Velocity and Flight Distance in Young Senepol Cattle.**
*R. W. Godfrey*¹, S. R. Joseph¹, J. A. Martinez², H. C. Nelthropp¹, S. A. Lakos¹, R. L. Stanko^{2,3}, H. G. Kattesh⁴, and S. A. Lockwood⁴, ¹University of the Virgin Islands, Agricultural Experiment Station, St Croix, ²Texas A&M University, Department of Animal, Rangeland, & Wildlife Sciences, Kingsville, ³Texas A&M University, AgriLife, Animal Reproduction Laboratory, Beeville, ⁴ University of Tennessee, Department of Animal Science, Knoxville*

- 9:40 AM 71 **Evaluation of the 14-d CIDR-PG and 9-d CIDR-PG Protocols for Synchronization of Estrus in Bos indicus-Influenced and Bos taurus Beef Heifers.**
*J. M. Thomas^{*1}, J. W. C. Locke¹, B. E. Bishop¹, J. M. Abel¹, M. R. Ellersieck¹, J. V. Yelich², S. E. Pooch¹, M. F. Smith¹, and D. J. Patterson¹, ¹University of Missouri, Columbia, ²University of Florida, Department of Animal Sciences, Gainesville*
- 9:55 AM 72 **Reproduction in Gilts and Sows Fed Gestation and Lactation Diets Containing Menhaden Fish Oil.**
*R. C. Petrone¹, K. J. Fuller¹, K. A. Williams², T. W. Lee², and M. J. Estienne^{*2}, ¹Virginia Polytechnic Institute and State University, Blacksburg, ²Virginia Polytechnic Institute and State University, Tidewater Agricultural Research and Extension Center, Suffolk*
- 10:10 AM 73 **Prostaglandin at Initiation of 7-d CO-Synch + Cidr Protocol Improves Estrus Response but Not Pregnancy Rate in a Modified Split-Time AI Program.**
*T. C. Rocha^{*1}, J. Ramirez², B. B. Carpenter³, C. Howell², J. King², T. J. Machado¹, and R. L. Stanko^{1,4}, ¹Texas A&M University, Department of Animal, Rangeland, & Wildlife Sciences, Kingsville, ²Flying B Ranches, Kent, TX, ³Texas A&M University, Department of Animal Science, College Station, ⁴Texas A&M University, AgriLife, Animal Reproduction Laboratory, Beeville*
- 10:25 AM **Concluding Remarks**

RUMINANT ANIMAL PRODUCTION II

Chair: Bryan Nichols, Noble Foundation

**8:00 AM - 10:50 AM
Saddlebred**

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 86 **Pre-Conditioning Beef Calves with High-Moisture Stored Forages or Hay and Co-Product Feeds.**
E. M. Forte^{}, M. K. Mullenix, R. W. Peacock, W. G. Bergen, and D. E. Fields, Auburn University, Auburn, AL*

- 8:20 AM 87 **Effect of Feeding Method on Performance of Mid-Gestation Cows.**
*J. R. Baber**, *J. E. Sawyer*, *L. A. Trubenbach*, and *T. A. Wickersham*, *Texas A&M University, College Station*
- 8:35 AM 88 **Effects of Prenatal Transportation Stress on Days of Age at First Calving in Brahman Heifers and Their Calves' Growth and Temperament at Weaning.**
*B. P. Littlejohn^{*1,2}*, *D. A. Neuendorff²*, *J. A. Carroll³*, *R. C. Vann⁴*, *T. H. Welsh, Jr.^{1,5}*, and *R. D. Randel²*, ¹*Texas A&M University, Department of Animal Science, College Station*, ²*Texas A&M University, AgriLife Research, Overton*, ³*USDA-ARS, Livestock Issues Research Unit, Lubbock, TX*, ⁴*Mississippi State University, Mississippi Agricultural and Forestry Experiment Station, Brown Loam Branch, Raymond*, ⁵*Texas A&M University, AgriLife Research, College Station*
- 8:50 AM 89 **Effect of Concentration of Starch in Pasture-Finished Beef Cattle Supplementation on Growth, Carcass Traits, and Meat Quality.**
*C. T. Price**, *C. L. Pickworth*, *A. D. Shaeffer*, and *M. H. Poore*, *North Carolina State University, Raleigh*
- 9:05 AM 90 **Associations Among Bovine Melatonin Receptor 1A and Dopamine D2 Receptor Gene Mutations, Hair Coat Scores, and Calving Rates in Beef Cattle.**
*L. R. Meyer^{*1}*, *J. G. Powell¹*, *B. R. Kutz¹*, *M. L. Looper²*, and *C. F. Rosenkrans, Jr.¹*, ¹*University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville*, ²*University of Arkansas, Fayetteville*
- 9:20 AM 91 **Effects of *Saccharomyces Cerevisiae* Cncm 1-1077 Supplementation on Feeding Behaviors and Growth Efficiency in Crossbred Beef Steers Fed a High-Grain Diet.**
W. C. Kayser¹, *I. L. Parsons^{*1}*, *G. E. Carstens¹*, *M. L. Jenks¹*, *A. G. Cupples¹*, *J. E. Sawyer¹*, *K. Barling²*, and *E. Chevaux³*, ¹*Texas A&M University, College Station*, ²*Lallemand Animal Nutrition, Iola, TX*, ³*Lallemand SAS, Blagnac, France*
- 9:35 AM **Break**

- 9:45 AM 92 **Effect of Pre- and Postnatal Trace Mineral (TM) Sources on Post-Weaning Sexual Development in Angus and Brangus Bulls.**
*D. M. Price¹, K. G. Arriola², D. O. Rae³, D. M. Irsik³, M. Hersom^{*1}, and J. V. Yelich¹,*
¹University of Florida, Department of Animal Sciences, Gainesville, ²University of Florida, Institute of Food and Agricultural Sciences, Department of Animal Sciences, Gainesville, ³University of Florida, College of Veterinary Medicine, Gainesville
- 10:00 AM 93 **Effect of Pre- and Postnatal Trace Mineral (TM) Sources on Growth, Body Composition, Performance, and Liver Mineral Status in Angus and Brangus Bulls.**
*D. M. Price¹, M. M. O'Neil¹, W. B. Watson III¹, R. West¹, D. O. Rae², D. M. Irsik², M. Hersom^{*1}, and J. V. Yelich¹,*
¹University of Florida, Department of Animal Sciences, Gainesville, ²University of Florida, College of Veterinary Medicine, Gainesville
- 10:15 AM 94 **Utilization of Exogenous Enzymes As Enhancers of Creep Feeding Rations.**
*J. M. Lourenço^{*1}, B. T. Campbell², J. R. Segers³, and R. L. Stewart, Jr.¹,*
¹University of Georgia, Department of Animal and Dairy Science, Athens, ²DSM Nutritional Products, LLC., Parsippany, NJ, ³University of Georgia, Department of Animal and Dairy Science, Tifton
- 10:30 AM 95 **Weather Influences Daily Feed Intake in Developing Beef Bulls in Spring and Summer.**
*J. A. Parish^{*1}, B. B. Karisch², T. F. Best¹, and C. O. Stewart¹,*
¹Mississippi State University, Prairie, ²Mississippi State University, Department of Animal and Dairy Sciences, Mississippi State
- 10:45 AM **Concluding Remarks**

SMALL RUMINANT PRODUCTION

Chair: Joan M. Burke, USDA-ARS

8:00 AM - 11:05 AM

Morgan/Highland

- 8:00 AM **Welcoming Remarks**
- 8:05 AM 96 **Limit Feeding Hay to Ewes.**
*C. L. Pickworth**, *B. L. Roper*, and *G. B. Garrison*, *North Carolina State University, Raleigh*
- 8:20 AM 97 **Grazing Behavior and Distribution Patterns of Kiko Wethers in Southern-Pine Silvopastures.**
*U. Karki**, *Y. Karki*, *R. Khatri*, *A. Tillman*, and *N. Gurung*, *Tuskegee University, Tuskegee, AL*
- 8:35 AM 98 **Effects of Replacing Corn and Soybean Meal with Dried Distillers Grains with Solubles on Blood Metabolites, Milk Composition and Fatty Acid Profile of Dairy Goats Consuming Eastern Gamagrass Hay during Late Lactation.**
*T. L. Williams**, *B. Kouakou*, and *J. H. Lee*, *Fort Valley State University, Fort Valley, GA*
- 8:50 AM 99 **Effect of Dietary Immunomodulator on Captive White-Tailed (*Odocoileus virginianus*) Breeding Doe Performance and Hematological Variables.**
*A. M. Adams**, *G. D. Bigham*, *T. E. Lawrence*, and *J. T. Richeson*, *West Texas A&M University, Canyon*
- 9:05 AM 100 **Growth Rate and Fitness of Purebred and Crossbred Hair Sheep Lambs Gradually Removed from Soy Hull Supplementation before Harvest.**
S. Wildeus¹, *J. H. Lee²*, *T. J. Nartea¹*, and *C. D. Teutsch³*, *¹Virginia State University, Petersburg, GA, ²Fort Valley State University, Fort Valley, GA, ³Virginia Polytechnic Institute and State University, Blacksburg*
- 9:20 AM 101 **The Effects of Olive Pomace As a Wintering Supplement When Analyzing Weight Gain, Consumption Trends, and Costs in *Capris Aegagrus Hircus*.**
*P. Urso**, *Sam Houston State University, Huntsville, TX*
- 9:35 AM **Break**

- 9:45 AM 102 **Affect of Ram Semen Extenders and Supplements on Computer Assisted Sperm Analysis Parameters.**
*M. Acharya^{*1}, J. M. Burke², and R. W. Rorie¹,
¹University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville,
²USDA-ARS, Booneville, AR*
- 10:00 AM 103 **Use of Liquid Semen Artificial Insemination in Katahdin Sheep in a Commercial Farm Setting.**
*S. Wildeus¹, D. L. Wright², and D. O'Brien^{*1},
¹Virginia State University, Petersburg, ²Virginia Polytechnic Institute and State University, Blacksburg*
- 10:15 AM 104 **Evaluation of Pre-Weaning and Grazing Performance of Terminal Sire Breeds for Hair Sheep Production Systems.**
*A. R. Weaver^{*1}, D. L. Wright¹, D. R. Notter¹,
A. M. Zajac¹, S. A. Bowdridge², and S. P. Greiner¹, ¹Virginia Polytechnic Institute and State University, Blacksburg, ²West Virginia University, Morgantown*
- 10:30 AM 105 **Sire's Estimated Breeding Value (EBV) for Fecal Egg Count (FEC) Influences BW, FEC, and Anemia Measures of Offspring in Katahdin Sheep.**
*J. M. Burke^{*1}, D. R. Notter², and J. E. Miller³,
¹USDA-ARS, Booneville, AR, ²Virginia Polytechnic Institute and State University, Blacksburg, ³Louisiana State University, Baton Rouge*
- 10:45 AM 106 **Effect of Sire Breed on Gain, Carcass Characteristics and Parasite Resistance of Katahdin Crossbred Feedlot-Finished Lambs: Year 2.**
*S. A. Bowdridge^{*1}, J. J. Garza¹, E. A. Shepherd¹,
B. Russ¹, D. Middleton¹, A. M. Zajac², and S. P. Greiner², ¹West Virginia University, Morgantown, ²Virginia Polytechnic Institute and State University, Blacksburg*
- 11:00 AM **Concluding Remarks**

EXTENSION II

Chair: Mary K. Mullenix, Auburn University

1:30 PM - 3:10 PM Palomino/Quarter Horse

- 1:30 PM **Welcoming Remarks**
- 1:35 PM 16 **Assessment of an Online Management Course for Southeastern Beef Producers.**
*K. M. Bennett^{*1}, M. K. Mullenix¹, J. J. Tucker², L. A. Kriese-Anderson¹, S. P. Rodning¹, A. Tiguel¹, and L. Marks¹, ¹Auburn University, Auburn, AL, ²University of Georgia, Tifton*
- 1:50 PM 17 **UF Beef Cattle Economics Webinar Series.**
C. G. Prevatt^{}, University of Florida, Ona*
- 2:05 PM 18 **An Economic Analysis of Grazing Cool-Season Annual Forages.**
*C. G. Prevatt^{*1}, J. J. Tucker², and M. K. Mullenix³, ¹University of Florida, Ona, ²University of Georgia, Tifton, ³Auburn University, Auburn, AL*
- 2:20 PM 19 **Relationships Between Producer Characteristics and Production Practices of Kentucky Beef Cattle Producers Participating in the UK Beef IRM Farm Program.**
*B. R. Crites^{*1}, G. Conway¹, E. S. Vanzant¹, K. D. Bullock¹, J. W. Lehmkuhler¹, W. R. Burris², and L. Anderson¹, ¹University of Kentucky, Lexington, ²University of Kentucky, Princeton*
- 2:35 PM 20 **Fescue Summit Brings Together Industry and Academia at Southern Section ASAS.**
M. H. Poore^{} and A. D. Shaeffer, North Carolina State University, Raleigh*
- 2:50 PM 21 **Do Beef Cattle Producers Understand the Economics of Natural Production?**
*J. M. Lourenço¹, L. Stewart^{*2}, L. Russell², J. O. Segers², D. Hancock³, J. Duggin⁴, and R. C. Lacy⁵, ¹University of Georgia, Department of Animal and Dairy Science, Athens, ²University of Georgia, Athens, ³University of Georgia, Department of Crop and Soil Sciences, Athens, ⁴University of Georgia, Calhoun, ⁵Mississippi State University, Stoneville*
- 3:05 PM **Concluding Remarks**

2017 Southern Section ASAS Committees

General Committees

Academic Quadrathlon Committee

MS B. J. Rude*
TN J. G. Carter
GA J. A. Daniel

Advisory Committee

TX J. C. Paschal*
AR M. L. Looper
GA J. F. Baker
SC J. R. Strickland

Necrology Committee

KY D. G. Ely*
AL L. W. Greene
AR P. A. Beck

Nominating Committee

VI R. W. Godfrey*
AL L. W. Greene
OK D. L. Lalman
FL J. D. Arthington
MS J. A. Parish

Resolutions Committee

FL J. V. Yelich*
TX G. E. Carstens
NC M. H. Poore

*Chair

Award Committees

Distinguished Service Award

LA	D. L. Morrison*
OK	S. W. Coleman
TX	T. H. Welsh, Jr.
AR	T. R. Troxel
OK	G. W. Horn

Emerging Scholar Award

GA	R. L. Stewart*
SC	S. K. Duckett
TX	V. A. Corriher
MS	J. E. Larson
OK	R. R. Reuter

Extension Award

FL	M. J. Hersom*
KY	L. A. Kriese-Anderson
KY	J. W. Lehmkuhler
TN	J. D. Rhinehart

Graduate Student Paper Competition

TX	C. A. Gill*
TX	N. C. Burdick-Sanchez
VA	E. R. Gilbert
TN	J. T. Mulliniks

Undergraduate Student Paper Competition

GA	K. C. Caires*
AR	J. W. Yancey
SC	N. M. Long
OK	B. K. Wilson
TX	J. L. Leatherwood

Young Animal Scientist – Education Award

TX	R. L. Stanko*
FL	J. V. Yelich
TX	K. J. Stutts
AL	C. L. Bratcher
AL	C. E. Huntington

*Chair

Young Animal Scientist – Research Award

NC	N. C. Whitley*
GA	C. L. Bratcher
FL	G. C. Lamb
FL	N. DiLorenzo

Program Committees

Breeding and Genetics

AL	L. A. Kriese-Anderson*
OK	M. M. Rolf
FL	R. G. Mateescu
MS	T. Smith

Extension

FL	J. M. B. Vendramini*
MS	B. B. Karisch
AL	M. K. Mullinex
AR	C. A. Ahrens

Meats

AL	C. L. Bratcher*
KY	G. K. Rentfrow
LA	S. M. Cruzen
TX	J. F. Legako

Pastures and Forages

AL	R. B. Muntifering*
AR	P. A. Beck
LA	G. Scaglia
TX	M. D. Cravey
OK	R. R. Reuter

Physiology

TX	R. L. Stanko*
TX	M. R. Garcia
FL	V. R. G. Mercadante
TX	P. R. Broadway

*Chair

Ruminant Animal Production

MS B. B. Karisch*
OK B. M. Nichols
NC P. Moriel
TX C. A. Bandyk

Small Ruminant Animal Production

AR J. M. Burke*
OK S. P. Hart
AR C. A. Ahrens

Teaching and Undergraduate Education

GA K. C. Caires*
AR J. W. Yancey
SC N. M. Long
OK B. K. Wilson
TX J. L. Leatherwood

*Chair

Past Presidents

2015-16	J. D. Arthington	University of Florida
2014-15	D. L. Lalman	Oklahoma State University
2013-14	L. W. Greene	Auburn University
2012-13	R. W. Godfrey	University of the Virgin Islands
2011-12	T. H. Welsh, Jr.	Texas A&M University
2010-11	M. H. Poore	North Carolina State University
2009-10	D. G. Morrison	Louisiana State University Agricultural Center
2008-09	E. B. Kegley	University of Arkansas
2007-08	C. C. Chase, Jr.	USDA-ARS, STARS
2006-07	D. A. Coleman	Auburn University
2005-06	R. D. Randel	Texas A&M University
2003-05	K. L. Esbenshade	North Carolina State University
2002-03	D. K. Aaron	University of Kentucky
2001-02	T. R. Troxel	University of Arkansas
2000-01	L. L. Southern	Louisiana State University
1999-00	R. P. Wettemann	Oklahoma State University
1998-99	J. D. Armstrong	Purdue University
1997-98	D. G. Ely	University of Kentucky
1996-97	P. R. Harms	Texas A&M University
1995-96	P. R. Utley	University of Georgia
1994-95	D. S. Buchanan	Oklahoma State University
1993-94	P. R. Nolan	University of Arkansas
1992-93	D. R. Marple	Auburn University
1991-92	R. W. Harvey	North Carolina State University
1990-91	D. E. Franke	Louisiana State University
1989-90	A. L. Eller, Jr.	Virginia Tech University
1988-89	C. R. Long	Texas A&M University
1987-88	D. G. Spruill	University of Georgia
1986-87	G. L. Cromwell	University of Kentucky
1985-86	B. Baker, Jr.	Mississippi State University
1984-85	C. B. Ammerman	University of Florida
1983-84	W. G. Luce	Oklahoma State University
1982-83	J. R. Hill	Clemson University
1981-82	J. W. Turner	Louisiana State University
1980-81	A. M. Sorenson	Texas A&M University
1979-80	W. C. McCormick	University of Georgia
1978-79	E. R. Barrick	NC State University
1977-78	R. L. McGuire	Auburn University
1976-77	J. J. Guenther	Oklahoma State University
1975-76	C. J. Brown	University of Arkansas
1974-75	S. L. Hansard	University of Tennessee
1973-74	M. Koger	University of Florida
1972-73	J. P. Fontenot	Virginia Tech University

1971–72	G. E. Mitchell, Jr.	University of Kentucky
1970–71	L. S. Pope	Texas A&M University
1969–70	L. C. Ulberg	NC State University
1968–69	R. C. Carter	Virginia Tech University
1967–68	G. L. Robertson	Louisiana State University
1966–67	C. E. Lindley	Mississippi State University
1965–66	R. F. Sewell	University of Georgia
1964–65	W. M. Warren	Auburn University
1963–64	R. F. Wheeler	Clemson University
1962–63	E. J. Warrick	USDA
1961–62	G. K. Davis	University of Florida
1960–61	W. Gifford	University of Arkansas
1959–60	J. A. Whatley	Oklahoma State University
1957–58	B. L. Southwell	University of Georgia
1956–57	W. P. Garrigus	University of Kentucky
1955–56	J. C. Miller	Texas A&M University
1954–55	R. A. Damon	Louisiana State University
1953–54	A. E. Cullison	University of Georgia
1952–53	C. M. Kincaid	Virginia Tech University
1951–52	R. S. Glasscock	University of Florida
1950–51	H. H. Levek	Mississippi State University
1949–50	J. E. Foster	University of Maryland
1948–49	H. M. Briggs	Oklahoma State University
1947–48	E. C. Godbey	Clemson University
1946–47	J. C. Grimes	Auburn University
1941–42	R. E. Hunt	Virginia Tech University
1940–41	M. G. Snell	Louisiana State University
1939–40	L. E. Richardson	University of Tennessee
1938–39	E. W. Sheets	USDA
1937–38	L. I. Case	North Carolina State University
1936–37	M. P. Jarnigan	University of Georgia
1935–36	J. B. Francioni	Louisiana State University
1934–35	A. L. Shealy	University of Florida
1933–34	L. V. Starkey	Clemson University
1932–33	W. L. Blizzard	Oklahoma State University

PAST AWARD RECIPIENTS

Distinguished Service Award

2016	G. W. Horn	Oklahoma State University
2015	T. R. Troxel	University of Arkansas
2014	T. H. Welsh, Jr.	Texas A&M University
2013	D. K. Aaron	University of Kentucky
2012	D. G. Morrison	Louisiana State University
2011	P. G. Harms	Texas A&M University
2010	M. Rouquette, Jr.	Texas AgriLife Research
2009	Not Given	
2008	R. D. Randel	Texas A&M University
2007	A. H. Brown, Jr.	Arkansas
2006	G. M. Hill	Georgia
2005	S. W. Coleman	USDA
2004	D. G. Ely	Kentucky
2003	D. E. Franke	Louisiana
2002	F. A. Thrift	Kentucky
2001	R. Wettmann	Oklahoma
2000	P. Utley	Georgia
1999	P. R. Noland	Arkansas
1998	Not Given	
1997	W. G. Luce	Oklahoma
1996	R. W. Harvey	North Carolina
1995	G. L. Cromwell	Kentucky
1994	G. E. Mitchell, Jr.	Kentucky
1993	L. E. McDowell	Florida
1992	J. P. Fontenot	Virginia
1991	R. N. Totusek	Oklahoma
1990	V. W. Hays	Kentucky
1989	F. Baker	Arkansas
1988	C. B. Ammerman	Florida
1987	L. E. Walters	Oklahoma
1986	L. Goode	North Carolina
1985	O. M. Hale	Georgia
1984	L. C. Ulberg	North Carolina
1983	C. J. Brown	Arkansas
1982	W. C. McCormick	Georgia
1981	E. R. Barrick	North Carolina
1980	J. A. Whatley, Jr.	Oklahoma
1979	M. Koger	Florida
1978	T. J. Marlowe	Virginia
1977	L. S. Hansard	Tennessee
1976	J. C. Hillier	Oklahoma

1975	J. K. Riggs	Texas
1974	T. J. Cunha	Florida
1973	O. D. Butler	Texas
1972	G. W. Litton	Virginia
1971	R. H. Dutt	Kentucky
1970	R. C. Carter	Virginia
1969	H. H. Leveck	Mississippi
1968	W. P. Garrigus	Kentucky
1967	B. L. Southwell	Georgia
1966	C. S. Hobbs	Tennessee

Extension Award

2016	W. J. Lehmkuhler	University of Kentucky
2015	M. J. Hersom	University of Florida
2014	L. Anderson	University of Kentucky
2013	C. Richards	Oklahoma State University
2012	M. S. Gadberry	University of Arkansas
2011	R. D. Coffey	University of Kentucky
2010	M. T. See	North Carolina
2009	E. van Heugten	North Carolina
2008	T. McCollum	Texas A&M University
2007	M. H. Poore	North Carolina
2006	A. F. Harper	Virginia
2005	G. Selk	Oklahoma State University
2004	R. E. L. McCraw	North Carolina
2003	K. D. Bullock	Kentucky
2002	W. W. Gill	Tennessee
2001	W. R. Burris	Kentucky
2000	T. R. Troxel	Arkansas
1999	G. V. Davis, Jr.	Arkansas
1998	G. L. M. Chappel	Kentucky
1997	S. H. Umberger	Virginia
1996	C. D. Lane, Jr.	Tennessee
1995	J. T. Johns	Kentucky
1994	D. W. Freeman	Oklahoma
1993	J. R. Jones	North Carolina
1992	J. B. Neel	Tennessee
1991	K. S. Lusby	Oklahoma
1990	J. Hughes	Oklahoma
1989	H. Webster	Clemson
1988	D. R. Gill	Oklahoma
1987	H. J. Gerken, Jr.	Virginia
1986	M. K. Cook	Georgia
1985	W. G. Luce	Oklahoma
1984	C. Cooper	Virginia

1983	C. W. Absher	Kentucky
1982	C. M. Triplett	Georgia
1981	A. N. Huff	Virginia
1980	A. L. Eller, Jr.	Virginia

Academic Quadrathlon

2016	Texas A&M University
2015	Oklahoma State University
2014	Texas A&M University
2013	Oklahoma State University
2012	Texas A&M University
2010	University of Florida
2009	University of Georgia
2008	University of Kentucky
2007	Texas A&M University
2006	Texas A&M University
2005	North Carolina State University
2004	University of Kentucky
2003	Texas A&M University
2002	University of Florida
2001	University of Kentucky
2000	Texas A&M University
1999	University of Kentucky
1998	University of Kentucky
1997	Oklahoma State University
1996	Oklahoma State University
1995	Virginia Tech University
1994	Oklahoma State University
1993	Texas A&M University
1992	Oklahoma State University
1991	University of Kentucky
1990	Virginia Tech University
1989	Oklahoma State University
1988	Texas A&M University
1987	University of Georgia
1986	University of Georgia
1985	University of Kentucky
1984	Texas A&M University

Young Animal Scientist Award

2016 ¹	C. E. Huntington	Auburn University
2016 ²	N. DiLorenzo	University of Florida
2015 ¹	C. L. Bratcher	Auburn University
2015 ²	K. Urschel	University of Kentucky
2014 ¹	K. J. Stutts	Sam Houston State University
2014 ²	C. L. Bratcher	Auburn University
2013 ¹	E. L. Wagner	Auburn University
2013 ²	M. C. Satterfield	Texas A&M University
2012 ²	S. Suman	University of Kentucky
2012 ¹	D. P. L. VanOverbeke	Oklahoma State University
2011 ²	J. C. Brooks	Texas Tech University
2011 ¹	J. C. Brooks	Texas Tech University
2010 ²	T. J. Wistuba	Morehead State University
2010 ¹	D. L. VanOverbeke	Oklahoma State University
2009 ²	M. L. Looper	USDA, ARS
2009 ¹	G. Hilton	Oklahoma State University
2008 ²	J. Escobar	Virginia Tech University
2008 ¹	J. A. Sterle	Texas A&M University
2007 ²	S. W. Kim	Texas Tech University
2007 ¹	L. Anderson	University of Kentucky
2006 ²	S. T. Willard	Mississippi State University
2006 ¹	M. L. Looper	USDA, ARS
2005 ²	C. R. Krehbiel	Oklahoma State University
2004 ¹	M. T. See	North Carolina State University
2004 ²	T. Van Kempen	North Carolina State University
2003 ¹	S. Jackson	Texas Tech University
2003 ²	T. Spencer	Texas A&M University
2002 ¹	J. Yelich	University of Florida
2002 ²	B V.. B. Kegley	University of Arkansas
2001 ¹	S. Ramsey	Texas A&M University
2001 ²	J. K. Apple	University of Arkansas
2000 ¹	A. D. Herring	Texas Tech University
1999 ²	C. C. Chase, Jr.	USDA, ARS
1998 ¹	M. F. Miller	Texas Tech University
1998 ²	A. L. Goetsch	Langston University
1997 ¹	T. Marshall	University of Florida
1996 ¹	W. L. Flowers	North Carolina State University
1996 ²	M. F. Miller	Texas Tech University
1995 ¹	C. H. Wood	University of Kentucky
1995 ²	J. D. Armstrong	North Carolina State University
1994 ¹	D. K. Aaron	University of Kentucky
1994 ²	P. J. Hansen	University of Florida

1993 ¹	K. Pond	North Carolina State University
1993 ²	R. Geisert	Oklahoma State University
1992 ¹	D. S. Buchanan	Oklahoma State University
1992 ²	J. L. Sartin	Auburn University
1991 ¹	W. E. Beal	Virginia Tech University
1991 ²	W. Greene	Texas A&M University
1990 ¹	J. W. Mabry	University of Georgia
1990 ²	T. H. Welsh	Texas A&M University
1989	J. W. Spears	North Carolina State University
1988	S. B. Smith	Texas A&M University
1987	D. L. Thompson, Jr.	Louisiana State Univ.
1986	G. J. Hausman	USDA, ARS, Athens, GA
1985	J. W. Savell	Texas A&M University
1984	D. R. Notter	Virginia Tech University
1983	T. S. Stahly	University of Kentucky
1982	D. N. Marple	Auburn University

¹Education

² Research

National Pork Board Swine Industry Award

2016	N. C. Burdick Sanchez	USDA-ARS
2015	P. R. Broadway	Texas Tech University
2014	M. D. Johnson	Texas A&M University
2013	J. R. Donaldson	Mississippi State University
2012	M. J. Estienne	Virginia Tech University
2011	M. J. Estienne	Virginia Tech University
2010	J. A. Carroll	ARS, USDA
2009	E. Van Heugten	NC State University
2008	S. W. Kim	North Carolina State University
2007	C. O’Gormon	Texas A&M University
2006	J. A. Carroll	USDA, ARS
2005	Z. B. Johnson	University of Arkansas
2004	J. K. Apple	University of Arkansas
2003	T. van Kempen	North Carolina State University
2002	K. Cole	University of Arkansas
2001	G. E. Conatser	University of Tennessee

2000	Not Given	
1999	Not Given	
1998	R. A. Cushman	North Carolina State University
1997	M. T. See	North Carolina State University
1996	W. L. Flowers	North Carolina State University
1995	M. T. See	North Carolina State University
1994	R. Dove	University of Georgia

Emerging Scholar Award

2016	Not Given	
2015	D. S. Rosero	The Hanor Company
2014	A. R. Mays	University of Arkansas
2013	A. P. Foote	University of Kentucky
2012	J. Hicks	North Carolina State University
2011	R. S. Fry	North Carolina State University
	J. T. Richeson	University of Arkansas
2010	C. Taylor-Edwards	University of Kentucky

Joseph P. Fontenot Student Travel Scholarship

2016	D. M. Price	University of Florida
2015	B. P. Littlejohn	Texas A&M University
	K. Sharon	Texas Tech University
2014	S. L. DeGeer	Auburn University
2013	L. Jury	Mississippi State University
	D. M. Price	University of Florida
2012	A. R. Mays	University of Arkansas

Graduate Student Paper Award

2016	C. L. Bayliff	Oklahoma State University
	N. M. Early	Texas A&M University
	S. A. Lockwood	University of Tennessee
2015	K. Sharon	Texas Tech University
2014	L. K. Mabry	North Carolina State University
2013	P. Moriel	University of Florida
2012	L. M. Wiley	Texas A&M University
2011	L. A. Smith	Tennessee State University
2010	J. S. Fry	North Carolina State University
2009	S. J. Winterholler	Oklahoma State University
2008	S. L. Hansen	North Carolina State University
2007	P. Williams	Texas A&M University- Kingsville

2006	L. R. Legleiter	North Carolina State University
2005	M. Bowman	University of Arkansas
2004	E. G. Brown	Texas A&M University
2003	C. Realini	University of Georgia
2002	J. A. Parish	University of Georgia
2001	J. Montgomery	Texas Tech University
2000	M. R. Stivarious	University of Arkansas
1999	T. E. Engle	North Carolina State University
1998	C. Barnett	University of Tennessee
1997	D. H. Crews, Jr.	Louisiana State University
1996	Not Given	
1995	E. B. Kegley	North Carolina State University
1994	R. D. Coffey	University of Kentucky
1993	D. K. Bishop	Oklahoma State University
1992	R. L. Stanko	North Carolina State University
1991	G. A. Rohrer	Texas A&M University
1990	K. A. Meurer	Mississippi State Univ.
1989	G. M. Davenport	University of Kentucky
1988	M. J. Esteinne	University of Georgia
1987	T. W. Burnell	University of Kentucky
1986	M. J. Wylie	Texas A&M University
1985	M. W. Richards	Clemson University
1984	J. C. Betts	Texas A&M University
1983	J. B. Lutz	University of Georgia
1982	K. R. Pond	Texas A&M University
1981	L. W. Greene	Virginia Tech University
1980	D. K. Aaron	University of Kentucky
1979	T. W. Robb	University of Kentucky
1978	E. F. Gray	University of Kentucky
1977	T. A. Puglisi	University of Georgia
1976	D. L. Thomas	Oklahoma State University
1975	J. C. Cornwell	Louisiana State University
1974	D. M. Hallford	Oklahoma State University
1973	A. C. Mills	University of Florida
1972	C. McLellan, Jr.	Oklahoma State University
1971	C. L. Fields	University of Kentucky
1970	A. R. Bellve	North Carolina State University
1969	W. L. Brown	Auburn University

1968	W. E. Powell	Auburn University
1967	F. W. Bazer	North Carolina State University
1966	D. G. Ely	University of Kentucky
1965	R. D. Goodrich	Oklahoma State University
1964	C. K. Vincent	North Carolina State University
1963	C. B. Ramsey	University of Tennessee
1962	J. R. Crockett	University of Florida

Undergraduate Student Paper Award

2016	F. W. Pohlman	University of Arkansas
2015	T. C. Rocha	Texas A&M University
2014	K. M. Doran	Berry College
2013	A. Arellano	Texas A&M University
2012	W. B. Smith	Auburn University
2011	J. Tyus	Tennessee State University
2010	W. N. Tapp III	University of Arkansas
2009	C.M. Ballou	North Carolina State University
2008	C.R. Boldt	Texas A&M University
2007	K. Starkey	University of Arkansas
2006	D. Sykes	Mississippi State University
2005	N. C. Burdick	Texas A&M University- Kingsville
2004	J. L. Roberts	Oklahoma State University
2003	M. Seitz	Mississippi State University
2002	B. Spader	University of Missouri
2001	R. Horsley	Virginia Tech University
2000	B. Robbins	Virginia Tech University
1999	J. L. Bardugone	Virginia Tech University
1998	S. F. Flohr	Virginia Tech University
1997	T. M. Weick	Louisiana State University
1996	K. J. Goodson	Texas A&M University
1995	B. C. Bloom	Auburn University
1994	B. Good	Oklahoma State University
1993	C. J. Kirby	North Carolina State University



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**as of January 18, 2017*



Future Meeting Locations

2018

February 3-6 / Fort Worth, TX