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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AAFC, Sherbrooke, QC, Canada

Dr. Mark Petersen, Director-at-Large
USDA-ARS, Miles City, MT

Dr. Teresa Davis, Director-at-Large
Baylor College of Medicine, Houston, TX
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Southern Section
American Society of Animal Science

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Dr. John Arthington, Past President
University of Florida, Range Cattle Research and Education Center, Ona, FL

Dr. Jeffery Carroll, Secretary-Treasurer
USDA-ARS, Livestock Issues Research Unit, Lubbock, TX

Dr. Paul Beck, Secretary-Treasurer Elect
University of Arkansas, Hope, AR

Dr. Matthew Poore, Southern Section Director
North Carolina State University, Raleigh, NC

Sierra Lockwood, Graduate Student Representative
University of Tennessee, Knoxville, TN

Brittni Littlejohn, Graduate Student Representative
Texas A&M University, College Station, TX
General Information

Meeting Location
Franklin Marriott Cool Springs
1st Floor Convention Center

Registration
Saturday, February 4 ..............................11:00 AM – 5:00 PM
Sunday, February 5 .................................7:30 AM – 5:00 PM
Monday, February 6 ................................7:30 AM – 4:30 PM
Tuesday, February 7 ...............................7:30 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 SSAS 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 PM – 5:55 PM</td>
<td>Pre-Conference: Industry and Academic Summit: Delivery Systems for Protein and Energy Supplements</td>
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<tr>
<td></td>
<td><em>Room: Carothers</em></td>
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<tr>
<td>6:00 PM – 8:00 PM</td>
<td>Summit Social</td>
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<tr>
<td></td>
<td><em>Rooms: Salon 7 and 8</em></td>
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</tbody>
</table>

## Sunday, February 5, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM – 4:00 PM</td>
<td>SCC 81: Sustainable Small Ruminant Production IEG</td>
</tr>
<tr>
<td></td>
<td><em>Rooms: Salon 7 and 8</em></td>
</tr>
<tr>
<td>1:00 PM – 3:35 PM</td>
<td>SERA 041 Symposium: Forage Systems to Extend the Grazing Season in the Southeastern U.S.</td>
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<tr>
<td></td>
<td><em>Rooms: Saddlebred/Highland/Morgan</em></td>
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<tr>
<td>3:35 PM – 5:30 PM</td>
<td>SERA 041 Meeting</td>
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<tr>
<td></td>
<td><em>Rooms: Saddlebred/Highland/Morgan</em></td>
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<tr>
<td>3:00 PM – 4:30 PM</td>
<td>Graduate Student Meet and Greet</td>
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<tr>
<td></td>
<td><em>Room: Williamson</em></td>
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<tr>
<td>5:30 PM – TBD</td>
<td>Super Bowl Party</td>
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<td></td>
<td><em>Room: Salon 5</em></td>
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<tr>
<td>Time</td>
<td>Event</td>
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<tr>
<td>7:45 AM – 11:50 AM</td>
<td>Graduate Student Competition: MS Division</td>
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<td></td>
<td><em>Rooms: Saddlebred/Highland/Morgan</em></td>
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<tr>
<td>8:00 AM – 11:30 AM</td>
<td><strong>Bill E. Kunkle Interdisciplinary Beef Symposium:</strong> Advances In Protein Nutrition For Beef Cattle</td>
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<td></td>
<td><em>Rooms: Salon 1 and 2</em></td>
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<tr>
<td>8:00 AM – 10:20 AM</td>
<td>Undergraduate Student Competition</td>
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<tr>
<td></td>
<td><em>Rooms: Palomino/Quarter Horse</em></td>
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<tr>
<td>1:30 PM – 4:20 PM</td>
<td>Graduate Student Competition: PhD Division</td>
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<tr>
<td></td>
<td><em>Rooms: Saddlebred/Highland/Morgan</em></td>
</tr>
<tr>
<td>8:00 AM – 9:10 AM</td>
<td>Meats</td>
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<tr>
<td></td>
<td><em>Rooms: Salon 3 and 4</em></td>
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<tr>
<td>9:30 AM – 10:30 AM</td>
<td>Coffee Break</td>
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<td></td>
<td><em>Rooms: Salon 3 and 4 Hallway</em></td>
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<tr>
<td>10:40 AM – 11:50 AM</td>
<td>Breeding and Genetics</td>
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<tr>
<td></td>
<td><em>Rooms: Salon 3 and 4</em></td>
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<tr>
<td>11:00 AM – 1:30 PM</td>
<td>Lunch</td>
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<td></td>
<td><em>Rooms: Salon 3 and 4 Hallway</em></td>
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<tr>
<td>1:30 PM – 4:10 PM</td>
<td>Physiology I</td>
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<tr>
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<td><em>Rooms: Salon 3 and 4</em></td>
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<tr>
<td>1:30 PM – 5:00 PM</td>
<td>Ruminant Animal Production</td>
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<tr>
<td></td>
<td><em>Rooms: Salon 1 and 2</em></td>
</tr>
<tr>
<td>1:30 PM – 2:40 PM</td>
<td>Teaching and Undergraduate Education</td>
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<tr>
<td></td>
<td><em>Rooms: Palomino/Quarter Horse</em></td>
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<tr>
<td>5:00 PM – 6:00 PM</td>
<td>Business Meeting</td>
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<td><em>Rooms: Salon 3 and 4</em></td>
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<tr>
<td>6:30 PM – 9:30 PM</td>
<td>Awards Banquet</td>
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<td><em>Offsite: The Factory, Liberty Hall Room</em></td>
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<tr>
<td>7:00 PM – 9:15 PM</td>
<td>Small Ruminant Subcommittee of the NAGP</td>
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<td><em>Rooms: Salon 3 and 4</em></td>
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<tr>
<td>Time</td>
<td>Event</td>
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<tr>
<td>6:30 AM – 8:00 AM</td>
<td>Extension Breakfast</td>
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<tr>
<td>8:00 AM – 11:05 AM</td>
<td>Extension I</td>
</tr>
<tr>
<td>8:00 AM – 10:40 AM</td>
<td>Pastures and Forages</td>
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<tr>
<td>8:00 AM – 10:30 AM</td>
<td>Physiology II</td>
</tr>
<tr>
<td>8:00 AM – 10:50 AM</td>
<td>Ruminant Animal Production II</td>
</tr>
<tr>
<td>8:00 AM – 11:05 AM</td>
<td>Small Ruminant Animal Production</td>
</tr>
<tr>
<td>9:30 AM – 10:30 AM</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30 AM – 12:00 PM</td>
<td>SSASAS Board Meeting</td>
</tr>
<tr>
<td>11:30 AM – 1:30 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:00 PM – 2:00 PM</td>
<td>Graduate Student Lunch and Learn</td>
</tr>
<tr>
<td>1:30 PM – 3:10 PM</td>
<td>Extension II</td>
</tr>
</tbody>
</table>

**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.
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. Gunter1 and J. Baker2, 1USDA-ARS Southern Plains Range Research, 2Southeast Agriseeds

2:45 PM  Liquid Feed Supplementation. 
J. D. Arthington1 and C. Bandyk2, 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. Lehmkuhler1, G. Halich1, M. Robbins2, and A. Scheaffer3, 1University of Kentucky, 2Ridley Block Operations, 3SweetPro Feeds

4:30 PM  Break


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. Beck1, 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


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
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. Silva1, 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. Piccolo1, 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, 2University 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. Beck1, L. R. Thompson1, J. E. White1, G. D. Williams1, S. A. Gunter2, C. A. Moffet1, 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
D. Demeterco1, A. B. Keith2, J. Anderson3, and R. Walker4, 1Louisiana State University, Baton Rouge, 2Louisiana Tech University, Ruston, 3Louisiana State University, AgCenter, Hill Farm Research Station, Homer
The Effects of Moisture at Baling and Wrapping Delay on Storage Characteristics of Annual Ryegrass Round Bale Silage.


1University of Arkansas, Fayetteville, 2University of Arkansas, Southwest Research and Extension Center, Hope, 3University of Arkansas, Division of Agriculture, Fayetteville, 4University of Arkansas, Department of Animal Science, Little Rock

Milk Production Responses to Beef Cow Energy Intakes.

C. M. Spencer*, C. L. Bayliff, M. D. Redden†, A. L. McGee*, R. Reuter*, G. W. Horn†, C. A. Mofﬁ†, and D. L. Lalman†, Oklahoma State University, Stillwater, OK, USDA-ARS, Woodward, OK

Using Pregnancy-Associate Glycoprotein (PAG) on Day 24 As Marker for Pregnancy on Beef Cattle.


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

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†*, K. J. Fuller†, K. A. Williams†, T. W. Lee†, and M. J. Estienne†, Virginia Polytechnic Institute and State University, Blacksburg, Virginia Polytechnic Institute and State University, Tidewater Agricultural Research and Extension Center, Suffolk

Comparison of Post-Weaning Weights and Carcass Traits Between Freemartin and Twin-Heifer Calves.

L. R. Parker†*, S. E. Echternkamp, and D. R. Eborn†, Texas A&M University, Commerce, USDA-ARS, Clay Center, NE
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*, K. A. Williams, and M. J. Estienne, Virginia Polytechnic Institute and State University, Blacksburg. Virginia Polytechnic Institute and State University, Tidewater Agricultural Research and Extension Center, Suffolk.


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, P. A. Beck, S. L. Roberts, and J. T. Richeson, West Texas A&M University, Canyon, University of Arkansas, Hope.

Concluding Remarks
8:00 AM  
**Welcoming Remarks**

8:05 AM  
111 **Factors Affecting Cell-Mediated Immune Response in Weaned Brahman Calves.**

T. J. Garcia¹, 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.**


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. Mom*, J. C. Mackey, H. B. Dudley, and D. H. Poole, North Carolina State University, Raleigh
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, A. C. Lewis, A. L. Sonntag, K. E. Kasten, J. F. Miller, B. Papajeski, J. C. Robertson, E. A. Backes, C. A. Porr, and A. J. Davis, Murray State University, Hutson School of Agriculture, Animal/Equine Science, Murray, KY, Murray State University, Hutson School of Agriculture, Breathitt Veterinary Center, Hopkinsville, KY, Murray State University, Hutson School of Agriculture, Breathitt Veterinary Center, Murray, KY, Purina Animal Nutrition, LLC, Gray Summit, MO

Effect of Internal Parasites on Meat Goat Reproductive Traits.

M. McFall, E. G. Hayes, P. Khanal, M. L. Leite-Browning, and R. Browning, Jr., Tennessee State University, Nashville, Alabama A&M University, Huntsville

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

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. Word¹², P. R. Broadway², N. C. Burdick Sanchez³, J. A. Carroll⁴, 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. Khanal⁶, 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
Effects of Roughage Inclusion and Particle Size on Digestion and Ruminal Fermentation Characteristics of Beef Steers.
C. P. Weiss*, 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

Evaluation of Statistical Process Control Procedures to Monitor Feeding Behavior Patterns and Detect Onset of Bovine Respiratory Disease in Growing Bulls.
W. C. Kayser*, G. E. Carstens¹, K. S. Jackson¹, W. E. Pinchak², A. Banerjee³, and Y. Fu¹, ¹Texas A&M University, College Station, ²Texas A&M University, Agrilife Research, Vernon

Intensified Cow-Calf Production in the Southern Great Plains.
A. L. McGee*, J. R. Cole¹, M. D. Redden¹, C. L. Bayliff⁴, C. M. Spencer⁵, R. Reuter¹, G. W. Horn⁶, J. G. Warren⁴, D. Doye⁴, and D. L. Lalman¹, ¹Oklahoma State University, Stillwater, ²Oklahoma Agricultural Experiment Station, Stillwater

Three-Year Evaluation of Warm-Season Annual Forages in Summer Forage-Finishing Beef Production.
D. D. Harmon*, 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

Noninvasive Embryo Assessment Technique to Predict Embryo Cryodamage and Potential Sex Selection.
C. E. Wessels*, Texas Tech University, Lubbock

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. McClenton1*, A. T. Sukumaran2, A. J. Holtcamp2, R. L. Lemire3, R. C. Thompson1, O. L. White1, R. C. Vann1, J. R. Blanton1, D. D. Burnett2, and T. Dinh3, 1Mississippi State University, Mississippi State, 2Mississippi State University, Department of Animal and Dairy Sciences, Mississippi State, 3Mississippi 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\textsuperscript{1,2}, J. M. Burke\textsuperscript{1}, D. R. Notter\textsuperscript{3}, J. Morgan\textsuperscript{4}, and J. E. Miller\textsuperscript{5}, \textsuperscript{1}USDA-ARS, Booneville, AR, \textsuperscript{2}Oak Ridge Institute for Science and Education, Oak Ridge, TN, \textsuperscript{3}Virginia Polytechnic Institute and State University, Blacksburg, \textsuperscript{4}Katahdin Hair Sheep International, Fayetteville, AR, \textsuperscript{5}Louisiana State University, Baton Rouge

11:00 AM  2 Prolactin, a Candidate Gene for Productivity Traits in Angus-Based Cattle.
L. R. Meyer\textsuperscript{1}, J. G. Powell\textsuperscript{1}, B. R. Kutz\textsuperscript{1}, M. L. Looper\textsuperscript{2}, and C. F. Rosenkrans, Jr.\textsuperscript{1}, \textsuperscript{1}University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville, \textsuperscript{2}University of Arkansas, Fayetteville

T. Smith\textsuperscript{1}, 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\textsuperscript{1}, 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. Kattesh1*, M. D. Lindemann2, B. H. Voy1, C. J. Kojima1, J. A. Carroll3, N. C. Burdick Sanchez2, 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. Cook1*, T. J. Garcia1,2, A. W. Lewis2, D. A. Neuendorff1, J. Bray3, W. Mwangi2, R. D. Randel2, and T. H. Welsh1, 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. Broadway1*, J. A. Carroll1, N. C. Burdick Sanchez1, T. R. Callaway2, S. D. Lawhon3, L. K. Bryan1, E. V. Gart1, 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 Branco1, D. A. Neuendorff2, 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. Kaufman1, 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. Hawley1, J. G. Powell1, E. B. Kegley1, R. W. Rorie1, A. P. Fidler2, and P. C. Taube2, 1University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville, 2North Carolina State University, College of Veterinary Medicine, Raleigh, 3Zoetis Inc., Kalamazoo, MI
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

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

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

L. A. Trubenbach1, T. A. Wickersham1, V. P. Briani1, and J. E. Sawyer1,2,1Texas A&M University, College Station, 2Texas A&M University, AgriLife Research, College Station

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

Sire Effect on Pregnancy Associated Glycoprotein (PAG) Concentrations in Nelore Beef Cows.
G. A. Franco*,1, R. F. G. Peres2, C. F. G. Martins3, J. L. M. Vasconcelos2, and K. G. Pöhler1, 1University of Tennessee, Knoxville, 2Universidade Estadual Paulista, Faculdade de Medicina Veterinária e Zootecnia, Departamento de Produção Animal, Botucatu, Brazil, 3Agropecuária Fazenda Brasil, Barra do Garças, Brazil

The Effects of Feeding Monensin to Bred Heifers Fed in a Drylot on Nutrient and Energy Balance.
C. N. Hemphill*, T. A. Wickersham1, J. E. Sawyer1, H. C. Freetly2, and K. E. Hales2, 1Texas A&M University, College Station, 2USDA-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. Reese¹, M. C. Pereira², J. L. M. Vasconcelos²,³, 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. Freeman¹, 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. Buttrey¹ and C. S. Darroch, University of Tennessee, Martin
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  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  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  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
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<td>8:50 AM</td>
<td>8</td>
<td>Comparison of Heifer Conception Rates to Artificial Insemination after Synchronization with CO-Synch + Cidr with and without 14 d Cidr Pretreatment.</td>
<td>C. B. Sherrill*, W. A. Storer, B. L. Ivey, and C. E. Ferguson, McNeese State University, Lake Charles, LA</td>
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<td>9:05 AM</td>
<td>9</td>
<td>Evaluating Variation in Haylage Collected in Arkansas: An Internship Project in Animal Science Extension Programming.</td>
<td>P. Tipton*, M. S. Gadberry, J. Gunsaulis, K. J. Simon, M. B. Sims, P. A. Beck, J. A. Jennings, C. A. Ahrens, Arkansas Tech University, Russellville, University of Arkansas, Department of Animal Science, Little Rock, University of Arkansas, Bentonville, University of Arkansas, Southwest Research and Extension Center, Hope, University of Arkansas, Hope, University of Arkansas, Little Rock</td>
<td>1Arkansas Tech University, Russellville, 2University of Arkansas, Department of Animal Science, Little Rock, 3University of Arkansas, Bentonville, 4University of Arkansas, Southwest Research and Extension Center, Hope, 5University of Arkansas, Hope, 6University of Arkansas, Little Rock</td>
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<td>9:20 AM</td>
<td>10</td>
<td>Beef 101: A Hands-on Workshop Highlighting Carcass Fabrication and Processing.</td>
<td>B. B. Karisch* and W. C. Rutherford, Mississippi State University, Department of Animal and Dairy Sciences, Mississippi State, Mississippi State</td>
<td>1Mississippi State University, Department of Animal and Dairy Sciences, Mississippi State, 2Mississippi State University, Mississippi State</td>
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<td>9:35 AM</td>
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<td>Break</td>
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<td>9:45 AM</td>
<td>11</td>
<td>The Effect of Various Levels of Dietary Starch on Glycogen Replenishment in the Light Working Horse.</td>
<td>C. A. Phillips*, C. A. Cavinder, D. H. Sigler, and J. D. Fluckey, Texas A&amp;M University, College Station, Mississippi State</td>
<td>1Texas A&amp;M University, College Station, 2Mississippi State University, Mississippi State</td>
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10:30 AM  14  Sand Mountain Elite Heifer Development Program III: Heifer Reproductive Performance and Program Costs.  

10:45 AM  15  Evaluating the Post-Course Application of the Livestock Education and Certification for Agricultural Law Enforcement (LECALE) Extension Curriculum.  
C. Wickens*, M. Hersom, E. Jennings, B. Stice, J. Shuffitt, and J. Brown, University of Florida, Gainesville, Florida, University of Florida, Department of Animal Sciences, Gainesville

11:00 AM  Concluding Remarks

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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

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*, J. J. Tucker, D. Hancock, and R. L. Stewart, Jr, University of Georgia, Athens, University of Georgia, Tifton, University of Georgia, Department of Crop and Soil Sciences, Athens, University of Georgia, Department of Animal and Dairy Science, Athens
W. B. Smith1*, 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. Diaz1*, 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. Jia1*, 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.

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  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  Hair Shedding Score and Hair Coat Color Affect Body Temperature during Heat Stress in Weaned Beef Heifers.
J. A. Parish*, 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

R. W. Godfrey1*, S. R. Joseph1, J. A. Martinez3, H. C. Nelthropp1, S. A. Lakos1, R. L. Stanko2,3, 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, 4University of Tennessee, Department of Animal Science, Knoxville

R. W. Godfrey1*, S. R. Joseph1, J. A. Martinez2, H. C. Nelthropp1, S. A. Lakos1, R. L. Stanko3,3, 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, 4University of Tennessee, Department of Animal Science, Knoxville
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. Petrone, K. J. Fuller, K. A. Williams, T. W. Lee, and M. J. Estienne.  
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.  
1Texas A&M University, Department of Animal, Rangeland, & Wildlife Sciences, Kingsville, 2Texas 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.  
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. Vann³, T. H. Welsh, Jr.1,3, and R. D. Randel², ¹Texas A&M University, Department of Animal Science, College Station, ²Texas A&M University, AgriLife Research, Overton, ³USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, 4Mississippi State University, Mississippi Agricultural and Forestry Experiment Station, Brown Loam Branch, Raymond, 5Texas 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, ¹University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville, ²University of Arkansas, Fayetteville

W. C. Kayser¹, I. L. Parsons³, G. E. Carstens¹, M. L. Jenks¹, A. G. Cupples¹, J. E. Sawyer¹, K. Barling², and E. Chevaux³, ¹Texas A&M University, College Station, ²Lallemand Animal Nutrition, Iola, TX, ³Lallemand 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. Irsik², 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
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. Wildeus*, J. H. Lee2, T. J. Nartea1, and C. D. Teutsch3, 1Virginia State University, Petersburg, 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. Acharya¹, 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’Brien¹, ¹Virginia State University, Petersburg, ²Virginia Polytechnic Institute and State University, Blacksburg

A. R. Weaver¹, D. L. Wright², D. R. Notter¹, A. M. Zajac¹, S. A. Bowdridge², and S. P. Greiner², 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. Burke¹, D. R. Notter², and J. E. Miller³, ¹USDA-ARS, Booneville, AR, ²Virginia Polytechnic Institute and State University, Blacksburg, ³Louisiana State University, Baton Rouge

S. A. Bowdridge¹, 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
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. Tigue1, 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. Dackett
- **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

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### Teaching and Undergraduate Education

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*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. Ebsenbadge  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. Wetterman  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
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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
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
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**Extension Award**

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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
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1 Education  
2 Research

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**National Pork Board Swine Industry Award**

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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
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Future Meeting Locations

2018

February 3-6 / Fort Worth, TX