

# **SOUTHERN SECTION**

**American Society of Animal Science**

## **ANNUAL MEETING**

**February 6 - 9, 2016  
San Antonio, Texas**

**In conjunction with the 2016 Annual  
Convention of the Southern Association  
of Agricultural Scientists**

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## **PROGRAM EVENTS**

*Most events will take place at The Hyatt  
Regency San Antonio Riverfront. Offsite events  
are noted below.*

## **PROGRAM EVENTS**

### **Friday, February 5**

Academic Quadrathlon (AQ)  
9:00 PM Advisors Meeting  
**College Station – Location TBD**

### **Saturday, February 6**

AQ Lab Practicum and Written Exam  
**Texas A&M University, College  
Station**

### **Sunday, February 7**

AQ Oral Preparation  
6:30 AM–12:00 PM  
Garden Terrace Rooms 123, 125, 127 &  
129

AQ Oral Presentation  
8:00 AM–12:00 PM  
Mesquite

AQ Quiz Bowl  
8:00 AM–1:00 PM  
Blanco

AQ Quiz Bowl Championship/Awards  
and Awards Program  
8:00 AM–4:00 PM  
Llano/Pecos

SCC 81: Sustainable Small Ruminant  
Production IEG  
8:30 AM–4:00 PM  
Frio

Registration  
Regency Ballroom Foyer  
11:30 AM–4:00 PM

Cow-Calf Production in the  
Southeastern US: Potential for Impact  
and Economic Sustainability  
Mesquite  
1:00 PM–3:30 PM

SAAS Board Meeting  
Rio Grande Ballroom East  
2:30 PM–3:30 PM

SAAS Business Meeting  
Rio Grand Ballroom East  
4:00 PM–4:15 PM

SAAS Social (*no Super Bowl party this  
year*)  
4:15 PM – 5:00 PM

SERA 41  
5:00 PM–6:00 PM  
Mesquite

SS-ASAS Advisory Committee and  
Executive Committee  
Directors  
6:00 PM–8:00 PM

**Monday, February 8**  
Registration  
Regency Ballroom Foyer  
7:30 AM–4:00 PM

SS-ASAS Coffee Break  
Bowie A/B Foyer  
9:30 AM–10:30 AM

SS-ASAS Business Meeting and  
Awards Ceremony  
Rio Grande Ballroom - Center  
5:00 PM–7:00 PM

Small Ruminant Subcommittee of the  
NAGP  
Llano/Pecos  
7:00 PM–9:15 PM

**Tuesday, February 9**  
SAAS Board Breakfast Meeting  
La Vista Terrace  
7:00 AM–10:00 AM

Registration  
Regency Ballroom Foyer  
7:30 AM–12:00 PM

Graduate Student Lunch and Learn  
Garden Terrace  
12:00 PM–2:00 PM

Extension Luncheon  
La Vista Terrace  
12:00 PM–2:00 PM

**2016 Symposia**

**Sunday**

**1:00 PM - 3:30 PM**

Cow-Calf Production in the Southeastern  
US: Potential for Impact and Economic  
Sustainability  
Mesquite

**Monday**

**8:00 AM - 11:55 AM**

Bill E. Kunkle Interdisciplinary Beef  
Symposium  
Pecan

**Monday**

**2:00 PM - 4:00 PM**

Antimicrobial Resistance  
Maverick A

**Tuesday**

**8:00 AM - 9:00 AM**

Management Strategies for Intensive,  
Sustainable Cow-Calf Production Systems  
in the Southeastern US Part I  
Pecan

**11:00 AM - 12:00 PM**

Management Strategies for Intensive,  
Sustainable Cow-Calf Production Systems  
in the Southeastern US Part II  
Pecan

**10:00 AM – 10:45 AM**

Submitting higher-quality research  
publications: Selecting the appropriate  
research design and following JAS  
technical guidelines.  
Pecan



# SYMPOSIA AND ORAL SESSIONS

## Sunday, February 7

### **Cow-Calf Production in the Southeastern US: Potential for Impact and Economic Sustainability**

Chair: Guillermo Scaglia,  
Louisiana State University  
Mesquite

1:00 PM

#### **Welcoming Remarks**

1:10 PM

123

#### **Economic Issues for Southeast Cow-Calf Production**

*R. C. Lacy<sup>\*</sup>, University of Georgia, Tifton, GA*

1:45 PM

124

#### **An Overview of Cow-Calf Production in the Southeast: Forage Systems, Cow Numbers and Calf Marketing Strategies**

*J. P. Banta<sup>\*1</sup>, M. J. Hersom<sup>2</sup>, J. W. Lehmkuhler<sup>3</sup>, J. D. Rhinehart<sup>4</sup>, and R. L. Stewart, Jr.<sup>5</sup>, <sup>1</sup>Texas A&M AgriLife Extension, Overton, TX, <sup>2</sup>University of Florida, Gainesville, FL, <sup>3</sup>University of Kentucky, Lexington, KY, <sup>4</sup>University of Tennessee, Spring Hill, TN, <sup>5</sup>University of Georgia, Athens, GA*

2:20 PM

125

#### **Issues Affecting Research and Extension Programs on Cow-Calf Production in the SE Region**

*G. Scaglia<sup>\*1</sup>, P. Beck<sup>2</sup>, D. L. Lalman<sup>3</sup>, and F. M. Rouquette<sup>4</sup>, <sup>1</sup>LSU AgCenter, Jeanerette, LA, <sup>2</sup>University of Arkansas, Hope, AR, <sup>3</sup>Oklahoma State University, Stillwater, OK, <sup>4</sup>Texas A&M AgriLife Research, Overton, TX*

2:55 PM

#### **Panel Discussion**

5:00 PM

#### **SERA 41 Meeting**

# Monday, February 8

## Bill E. Kunkle Interdisciplinary Beef Symposium

Chair: Lawton Stewart,  
University of Georgia  
Pecan

8:00 AM  
**Welcoming Remarks**

8:05 AM 119  
**Assessing the current mineral supplementation needs in pasture-based beef operations in the Southeastern United States.**  
*L. W. Greene, Department of Animal Sciences, Auburn University*

8:50 AM 120  
**Mineral nutrition of forage-fed beef cattle – Impacts on reproduction.**  
*J. Arthington, Range Cattle Research and Education Center, Ona, University of Florida – IFAS*

9:35 AM  
**Break**

9:50 AM 121  
**Impact of mineral and vitamin status on beef cattle immune function and health.**  
*E. B. Kegley<sup>1</sup>, J. J. Ball<sup>1</sup>, and P. A. Beck<sup>2,1</sup> University of Arkansas Division of Agriculture Department of Animal Sciences, Fayetteville<sup>2</sup> University of Arkansas Division of Agriculture Southwest Research and Extension Center, Hope*

10:35 AM 122  
**Assessing the influence of vitamin and mineral nutrition on carcass characteristics and meat quality.**  
*T.E. Lawrence, Department of Agricultural Sciences, West Texas A&M.*

## Graduate Student Competition MS I

Chair: Christy L. Bratcher  
Auburn University  
Chula Vista

8:00 AM 26  
**Effect of doeling traits at weaning on doe survival and reproductive rates through their first production year in the southeastern United States.**  
*P. Khanal<sup>1</sup>, M. L. Browning<sup>2</sup>, M. Byars<sup>1</sup>, and R. Browning, Jr.<sup>1</sup>,<sup>1</sup>Tennessee State University, Nashville, TN, <sup>2</sup>Alabama A&M University, Huntsville, AL*

8:15 AM

28

**Decreasing the frequency and rate of wet brewers grains supplementation did not impact growth but reduced humoral immune response of preconditioning beef heifers.**

*L. F. Artioli<sup>1</sup>, M. Piccolo<sup>1</sup>, M. H. Poore<sup>2</sup>, and P. Moriel<sup>1</sup>, <sup>1</sup>North Carolina State University, Waynesville, NC, <sup>2</sup>North Carolina State University, Raleigh, NC*

8:30AM

29

**Effect of level of Pongamia seedcake on nutrient utilization in cattle consuming forage.**

*L. E. Bohlen<sup>1</sup>, J. E. Sawyer<sup>2</sup>, J. R. Baber<sup>1</sup>, L. A. Redmon<sup>1</sup>, and T. A. Wickersham<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas AgriLife Research, College Station, TX*

8:45 AM

30

**Energy Requirements of Lactating Beef Cows in a Drylot System.**

*C. L. Bayliff<sup>1</sup>, M. D. Redden<sup>1</sup>, J. R. Cole<sup>1</sup>, A. L. McGee<sup>1</sup>, R. Reuter<sup>2</sup>, G. W. Horn<sup>2</sup>, and D. L. Lalman<sup>1</sup>, <sup>1</sup>Oklahoma State University, Stillwater, OK, <sup>2</sup>Oklahoma Agricultural Experiment Station, Stillwater, OK*

9:00 AM

31

**Effect of time of concentrate delivery on nutrient digestibility, ruminal fermentation, and solid passage rate in limit-fed steers consuming wheat straw.**

*J. R. Baber<sup>1</sup>, J. E. Sawyer<sup>2</sup>, L. A. Trubenbach<sup>1</sup>, and T. A. Wickersham<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas AgriLife Research, College Station, TX*

9:15 AM

**Break**

9:30 AM

32

**Effects of shoeing on the joints of the lower forelimb and hoof morphology of mature horses.**

*D. K. Proske<sup>1</sup>, K. J. Stutts<sup>2</sup>, J. L. Leatherwood<sup>2</sup>, C. J. Hammer<sup>3</sup>, J. Coverdale<sup>4</sup>, and M. J. Anderson<sup>2</sup>, <sup>1</sup>Sam Houston State University, Huntsville, TX, <sup>2</sup>Sam Houston State University, Huntsville, TX, <sup>3</sup>North Dakota State University, Fargo, ND, <sup>4</sup>Texas A&M University, College Station, TX*

9:45 AM

33

**Use of ultrasonography to evaluate the accuracy of objective and subjective measures of body composition in horses.**

*K. B. Pritchett<sup>1</sup>, J. L. Leatherwood, K. J. Stutts, and M. J. Anderson, Sam Houston State University, Huntsville, TX*

10:00 AM

34

**Impact of Progesterone Supplementation on Pregnancy Rates Following Timed AI or Embryo Transfer in Beef Cattle Consuming Endophyte-Infected Fescue.**

*J. C. Mackey<sup>1</sup>, T. L. Devine, P. M. Kennedy, A. M.*

Tyson, M. H. Poore, and D. H. Poole, North Carolina State University, Raleigh, NC

10:15 AM 35

**Association of DRD2 with Growth and Performance Traits in Cattle Grazing Endophyte-Infected Tall Fescue.**

K. Jennings<sup>1</sup>, C. J. Kojima<sup>1</sup>, S. L. Pratt<sup>2</sup>, and C. Burnett<sup>2</sup>, <sup>1</sup>University of Tennessee, Knoxville, TN, <sup>2</sup>Clemson University, Clemson, SC

10:30 AM 36

**Development of an equine non-contact thermography device: Evaluation of thermal expression on multiple sites of the horse as an indicator of body temperature.**

H. C. Collins<sup>1,2</sup>, J. L. Leatherwood<sup>2</sup>, M. J. Anderson<sup>2</sup>, M. M. Beverly<sup>2</sup>, F. Yildiz<sup>2</sup>, and K. J. Stutts<sup>2</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Sam Houston State University, Huntsville, TX

**Graduate Student Competition PhD**

Chair: Christy L. Bratcher  
Auburn University  
Bowie AB

8:00 AM 45

**The effect of weaning stress, sex and temperament on fecal microbiota in Brahman calves.**

E. V. Gart<sup>1</sup>, T. H. Welsh, Jr.<sup>2</sup>, R. D. Randel<sup>3</sup>, J. S. Suchodolski<sup>4</sup>, J. Kintzinger<sup>4</sup>, and S. D. Lawhon<sup>1</sup>, <sup>1</sup>Department of Veterinary Pathobiology, Texas A&M University, College Station, TX, <sup>2</sup>Department of Animal Science, Texas A&M University, College Station, TX, <sup>3</sup>Texas A&M AgriLife Research- Overton, Overton, TX, <sup>4</sup>Veterinary Medicine, Texas A&M University, College Station, TX

8:15 AM 46

**Relationships among temperament, endocrinology, and reproductive soundness of performance-tested Angus bulls.**

S. A. Lockwood<sup>1</sup>, H. G. Kattesh<sup>2</sup>, J. D. Rhinehart<sup>3</sup>, P. D. Krawczel<sup>1</sup>, D. Kirkpatrick<sup>1</sup>, L. Strickland<sup>1</sup>, J. B. Wilkerson<sup>1</sup>, and A. M. Saxton<sup>1</sup>, <sup>1</sup>University of Tennessee, Knoxville, TN, <sup>2</sup>Dept. of Animal Science, University of Tennessee, Knoxville, TN, <sup>3</sup>University of Tennessee, Spring Hill, TN

8:30 AM 47

**Reproductive measurements of Angus and Angus × Hereford crossbred heifers treated with long-acting eprinomectin or a combination of moxidectin and oxfendazole.**

E. A. Backes<sup>1</sup>, J. G. Powell<sup>1</sup>, E. B. Kegley<sup>1</sup>, T. D. Lester<sup>1</sup>, A. J. Davis<sup>2</sup>, J. A. Hornsby<sup>1</sup>, J. L. Reynolds<sup>1</sup>, B. P. Shoulders<sup>1</sup>, and R. W. Rorie<sup>1</sup>, <sup>1</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>2</sup>Murray State University, Murray, KY

8:45 AM 48

**Effects of an intensified, semi-confinement cow/calf production system on feedlot performance of growing and finishing steers.**

*M. D. Redden<sup>1</sup>, J. R. Cole<sup>1</sup>, A. L. McGee<sup>1</sup>, C. L. Bayliff<sup>1</sup>, C. R. Krehbiel<sup>1</sup>, G. W. Horn<sup>2</sup>, C. J. Richards<sup>1</sup>, and D. L. Lalman<sup>1</sup>, <sup>1</sup>Oklahoma State University, Stillwater, OK, <sup>2</sup>Oklahoma Agricultural Experiment Station, Stillwater, OK*

9:00 AM Break

**Graduate Student Competition MS II**

Chair: Christy L. Bratcher  
Auburn University  
Bowie AB

9:15 AM 37

**Composition and Quality Assessment of the Woodland Browse Species and Goats' Performance Study under Woodland.**

*R. Khatri<sup>\*</sup>, U. Karki, Y. Karki, N. Gurung, and B. R. Min, Tuskegee University, Tuskegee, AL*

9:30 AM 38

**Effect of dietary energy intake on nutrient utilization, performance, and maintenance requirements in late gestation cows and their calves.**

*N. M. Early<sup>1</sup>, J. E. Sawyer<sup>2</sup>, L. A. Trubenbach<sup>1</sup>, C. J. Boardman<sup>1</sup>, J. R. Baber<sup>1</sup>, N. L. Bell<sup>1</sup>, and T. A. Wickersham<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas AgriLife Research, College Station, TX*

9:45 AM 39

**Effect of surgical castration with or without oral meloxicam on growth, behavior and inflammation in pre-weaned beef calves.**

*S. L. Roberts<sup>1</sup>, J. G. Powell<sup>2</sup>, D. S. Hubbell, III<sup>3</sup>, M. S. Gadberry<sup>4</sup>, P. Beck<sup>5</sup>, E. A. Backes<sup>6</sup>, J. L. Reynolds<sup>2</sup>, and J. T. Richeson<sup>1</sup>, <sup>1</sup>Department of Agricultural Sciences, West Texas A&M University, Canyon, TX, <sup>2</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>3</sup>University of Arkansas Livestock and Forestry Research Station, Batesville, AR, <sup>4</sup>Department of Animal Science, University of Arkansas, Little Rock, AR, <sup>5</sup>University of Arkansas SWREC, Hope, AR, <sup>6</sup>University of Arkansas, Fayetteville, AR*

10:00 AM 40

**Heat production, respiratory quotient, and methane loss subsequent to LPS challenge in beef heifers.**

*A. W. Altman<sup>1</sup>, E. S. Vanzant<sup>1</sup>, J. A. Carroll<sup>2</sup>, N. C. Burdick Sanchez<sup>2</sup>, and K. R. McLeod<sup>1</sup>, <sup>1</sup>University of Kentucky, Lexington, KY, <sup>2</sup>USDA-ARS, Livestock Issues Research Unit, Lubbock, TX*

10:15 AM 41  
**Evaluations of Savanna Sires Compared with Kiko and Spanish Sires for Birth to Weaning Meat Goat Kid Traits.**  
*E. G. Hayes<sup>1</sup>, P. Khanal<sup>1</sup>, R. V. Lourençon<sup>2</sup>, and R. Browning, Jr.<sup>1</sup>, <sup>1</sup>Tennessee State University, Nashville, TN, <sup>2</sup>Universidade Estadual Paulista, Botucatu, Brazil*

10:30 AM 42  
**Changes in Body Condition from Prepartum to Postpartum on Reproduction in Dairy Cattle.**  
*M. Wise<sup>\*</sup>, K. Akers, E. Bowdridge, I. Holaskova, and R. A. Dailey, West Virginia University, Morgantown, WV*

10:45 AM 43  
**Relationships Between Prolactin Genotypes and Dairy Heifer Growth and Development.**  
*L. R. Meyer<sup>\*</sup>, M. A. Sales, and C. F. Rosenkrans, Jr., Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR*

11:00 AM 44  
**Inclusion of post-extraction algal residue in finishing rations of beef steers: Consumer sensory panel ratings and fatty acid composition of ground beef.**  
*J. C. Morrill<sup>\*</sup>, J. E. Sawyer, J. R. Baber, S. B. Smith, R. K. Miller, and T. A. Wickersham, Texas A&M University, College Station, TX*

### **Teaching and Undergraduate Education**

Chair: Erin G. Brown  
Stephen F. Austin State University  
Maverick A

8:00 AM 130  
**The use of a mobile app in teaching beef cattle body condition scoring in undergraduate classes.**  
*N. M. Long<sup>\*</sup>, R. E. Long, and S. G. Lawrence, Clemson University, Clemson, SC*

8:15 AM 131  
**Experiential Learning for Tuskegee University Students: Study Tour of Agricultural Industries.**  
*R. Davis<sup>\*</sup>, O. Bolden-Tiller, and N. Gurung, Tuskegee University, Tuskegee, AL*

8:30 AM 132  
**Equine Assisted And Affiliated Therapies Provide Service-Learning Opportunities For Students.**  
*M. M. Vogelsang<sup>\*</sup>, M. Lazo, K. Harper, and M. Shehane, Texas A&M University, College Station, TX*

8:45 AM 133  
**Student Performance in Animal Nutrition and Feeds and Feeding Based on Prior Enrollment in Chemistry and Nutrition Courses.**  
*J. L. Wahrmund<sup>\*</sup>, Texas A&M University-Commerce, Commerce, TX*

## Undergraduate Student Competition

Chair: Erin G. Brown  
Stephen F. Austin State University  
Maverick A

9:00 AM 134  
**The Influence of a Rider with a Disability on the Equine Walk.**  
*E. M. Rankins\*, E. L. Wagner, and W. H. Weimar, Auburn University, Auburn, AL*

9:15 AM 135  
**The Effect of Submaximal Exercise on Proliferation of Satellite Cells from Yearling Equids.**  
*R. L. Ellis\*, A. Reeg, and S. E. Johnson, Virginia Tech, Blacksburg, VA*

9:30 AM 136  
**How frequency of supplementation containing rumen protected fat affects serum fatty acid profiles in beef heifers.**  
*E. K. Cook\*, R. E. Ricks, S. K. Duckett, and N. M. Long, Clemson University, Clemson, SC*

9:45 AM 137  
**The effects of early or mid-gestation nutrient restriction on bovine fetal pancreatic development.**  
*J. L. Washburn\*, R. K. Taylor, and N. M. Long, Clemson University, Clemson, SC*

10:00 AM 138  
**Effect of processing on the palatability of Pongamia seedcake in cattle.**  
*E. J. Von Edwins<sup>1</sup>, J. E. Sawyer<sup>2</sup>, L. Bohlen<sup>1</sup>, J. R. Baber<sup>1</sup>, and T. A. Wickersham<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas AgriLife Research, College Station, TX*

10:15 AM **Break**

10:30 AM 139  
**A Role for Interleukin-6 mRNA Expression in Caprine Testes.**  
*K. Blount\*, Tuskegee University, Tuskegee, AL*

10:45 AM 140  
**Evaluation of the effects of dam age on growth performance and carcass traits of crossbred steers.**  
*F. W. Pohlman, II<sup>1</sup>, E. A. Backes<sup>1</sup>, J. G. Powell<sup>1</sup>, F. W. Pohlman, I<sup>1</sup>, J. T. Richeson<sup>2</sup>, K. S. Anschutz<sup>1</sup>, J. A. Hornsby<sup>1</sup>, J. L. Reynolds<sup>1</sup>, B. R. Lindsey<sup>1</sup>, and B. P. Shoulders<sup>1</sup>, <sup>1</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>2</sup>Department of Agricultural Sciences, West Texas A&M University, Canyon, TX*

11:00 AM 141

**The effects of zinc supplementation on feedlot performance, carcass characteristics, and blood metabolites of finishing steers.**

*K. E. Kennedy<sup>1</sup>, L. R. Thompson<sup>1</sup>, W. C. Burson<sup>1</sup>, A. J. Thompson<sup>1</sup>, J. O. Baggerman<sup>1</sup>, P. W. Rounds<sup>2</sup>, B. J. Johnson<sup>1</sup>, and B. C. Bernhard<sup>1</sup>, <sup>1</sup>Texas Tech University, Lubbock, TX, <sup>2</sup>Kemin Industries, Inc., Des Moines, IA*

11:15 AM 142

**Effect of Increasing Dietary Energy Consumption on Intake, Digestion, and Ruminal Fermentation in Limit-Fed Steers.**

*K. M. Franks<sup>1</sup>, Texas A&M University, College Station, TX*

11:30 AM 143

**Impact of Hydration Supplements on Blood Electrolyte Concentrations of Exercised Horses During the Summer.**

*B. L. Green<sup>1</sup> and J. L. Wahrmund, Texas A&M University-Commerce, Commerce, TX*

11:45 AM 144

**Decreasing the frequency of wet brewers grains supplementation during late gestation did not impact cow and pre-weaning calf growth performance.**

*M. Piccolo<sup>1</sup>, L. F. Artioli<sup>1</sup>, M. H. Poore<sup>2</sup>, and P. Moriel<sup>1</sup>, <sup>1</sup>North Carolina State University, Waynesville, NC, <sup>2</sup>North Carolina State University, Raleigh, NC*

12:00 PM 145

**Evaluation of a Commercial Supplement in Sheep and Goat Twins.**

*C. Huffman<sup>1</sup>, N. Facey, S. Adjei-Fremah, K. Ekwemalor, L. Young, E. Asiamah, H. Ismail, and M. Worku, North Carolina Agricultural and Technical State University, Greensboro, NC*

12:15 PM 146

**Influence of temperament on the cell-mediated immune response in Brahman heifers.**

*K. C. Garrett<sup>1,2</sup>, D. A. Neuendorff<sup>2</sup>, A. W. Lewis<sup>2</sup>, S. T. Willard<sup>3</sup>, T. H. Welsh, Jr.<sup>1</sup>, and R. D. Randel<sup>2</sup>, <sup>1</sup>Texas A&M University- Department of Animal Science, College Station, TX, <sup>2</sup>Texas A&M AgriLife Research- Overton, Overton, TX, <sup>3</sup>Department Animal & Dairy Science, Mississippi State University, Starkville, MS*



**Breeding and Genetics**  
Chair: J. G. Powell  
University of Arkansas  
Rio Grande Ballroom - Center

1:00 PM 1

**Heritability of temperament at weaning in a crossbred cattle population.**

*B. P. Littlejohn<sup>1,2</sup>, D. G. Riley<sup>2,3</sup>, T. H. Welsh, Jr.<sup>3,4</sup>, R. D. Randel<sup>5</sup>, S. T. Willard<sup>6</sup>, and R. C. Vann<sup>7</sup>,*  
<sup>1</sup>Texas A&M AgriLife Research, Overton, TX, <sup>2</sup>Texas A&M University Department of Animal Science, College Station, TX, <sup>3</sup>Texas A&M AgriLife Research, College Station, TX, <sup>4</sup>Department of Animal Science, Texas A&M University, College Station, TX, <sup>5</sup>Texas A&M AgriLife Research- Overton, Overton, TX, <sup>6</sup>Department Animal & Dairy Science, Mississippi State University, Starkville, MS, <sup>7</sup>MAFES - Brown Loam Experiment Station, Mississippi State University, Raymond, MS

1:15 PM 2

**Effect of Nystatin, a Lipid Raft Inhibitor on Bovine Blood.**

*E. Asiamah<sup>\*</sup>, S. Adjei-Fremah, K. Ekwemalor, and M. Worku,* North Carolina Agricultural and Technical State University, Greensboro, NC

1:30 PM 3

**Genome wide association of beef flavor and tenderness in steaks (with electrical stimulation and without) from carcasses of Nellore-Bos taurus steers.**

*C. Mantilla Rojas<sup>\*1</sup>, P. K. Riggs<sup>2</sup>, C. A. Gill<sup>3</sup>, A. D. Herring<sup>3</sup>, J. O. Sanders<sup>3</sup>, J. E. Sawyer<sup>3</sup>, R. K. Miller<sup>2</sup>, and D. G. Riley<sup>3</sup>,* <sup>1</sup>TEXAS A&M UNIVERSITY, COLLEGE STATION, TX, <sup>2</sup>Texas A&M University, College Station, TX, <sup>3</sup>Department of Animal Science, Texas A&M University, College Station, TX

1:45 PM 4

**Longevity of Brahman, Angus, F<sub>1</sub> and F<sub>2</sub> Brahman-Angus cows.**

*J. K. Bohac<sup>\*1</sup>, J. O. Sanders<sup>2</sup>, A. D. Herring<sup>2</sup>, D. G. Riley<sup>3</sup>, and J. E. Sawyer<sup>4</sup>,* <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas A&M University, Department of Animal Science, College Station, TX, <sup>3</sup>Texas A&M AgriLife Research, College Station, TX, <sup>4</sup>Texas AgriLife Research, College Station, TX

2:00 PM 5

**Relationships Between Prolactin Genotypes and Beef Cow Profitability.**

*L. R. Meyer<sup>\*</sup>, J. G. Powell, B. R. Kutz, K. S. Anschutz, M. A. Sales, and C. F. Rosenkrans, Jr.,* Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR

2:15 PM **Break**

2:30 PM

6

**Age-related weights of second and third generation Nellore-Angus half-blood steers.**

*K. M. Sarlo<sup>1</sup>, D. G. Riley<sup>2</sup>, J. E. Sawyer<sup>3</sup>, C. A. Gill<sup>4</sup>, J. O. Sanders<sup>5</sup>, and A. D. Herring<sup>5</sup>, <sup>1</sup>Texas A&M, College Station, TX, <sup>2</sup>Texas A&M AgriLife Research, College Station, TX, <sup>3</sup>Texas AgriLife Research, College Station, TX, <sup>4</sup>Texas A&M University, College Station, TX, <sup>5</sup>Texas A&M University, Department of Animal Science, College Station, TX*

2:45 PM

7

**Effects of breed type and sex on calf birth weight in reciprocal F2 Angus and Nellore Crosses.**

*L. W. Bauer<sup>1</sup>, J. O. Sanders<sup>2</sup>, D. G. Riley<sup>2</sup>, A. D. Herring<sup>3</sup>, and J. E. Sawyer<sup>3</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas A&M University, Department of Animal Science, College Station, TX, <sup>3</sup>Texas AgriLife Research, College Station, TX*

3:00 PM

8

**Hot Carcass Weight and Longissimus Muscle Area in F<sub>1</sub> and F<sub>2</sub> Nellore-Angus Steers.**

*J. S. Delgadillo<sup>\*</sup>, D. G. Riley, C. A. Gill, J. O. Sanders, J. E. Sawyer, and A. D. Herring, Department of Animal Science, Texas A&M University, College Station, TX*

3:15 PM

9

**Identification of regions of the bovine genome associated with gray coat color in a Nellore-Angus cross population.**

*P. W. Holland<sup>1</sup>, C. A. Gill<sup>2</sup>, A. D. Herring<sup>1</sup>, J. O. Sanders<sup>1</sup>, and D. G. Riley<sup>1</sup>, <sup>1</sup>Texas A&M University, Department of Animal Science, College Station, TX, <sup>2</sup>Texas A&M University, College Station, TX*

3:30 PM

10

**Effect of hair coat shedding on herd performance in crossbred beef cattle.**

*M. M. Foster<sup>\*</sup>, J. G. Powell, E. B. Kegley, B. R. Kutz, E. A. Backes, L. R. Meyer, B. P. Shoulders, and K. S. Anschutz, Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR*

3:45 PM

11

**Effect of hair shedding on reproductive performance in Angus females.**

*T. Smith<sup>\*</sup>, Mississippi State University, Mississippi State, MS*

## **Ruminant Animal Production I**

Chair: Tyron A. Wickersham  
Texas A&M University  
Pecan

1:00 PM 78

### **Impact of breed and forage type on intake, performance, and residual feed intake of beef calves during the backgrounding period.**

*D. Demeterco<sup>1</sup>, R. Walker<sup>2</sup>, G. Scaglia<sup>3</sup>, and N. DiLorenzo<sup>4</sup>, <sup>1</sup>Louisiana State University, Baton Rouge, LA, <sup>2</sup>LSU AgCenter, Homer, LA, <sup>3</sup>LSU AgCenter, Jeanerette, LA, <sup>4</sup>North Florida Research and Education Center, Marianna, FL*

1:15 PM 79

### **Timing of growth implant insertion affects growth and humoral immune response of preconditioning beef steers.**

*P. Moriel<sup>1</sup>, L. F. Artioli<sup>1</sup>, M. Piccolo<sup>1</sup>, and M. H. Poore<sup>2</sup>, <sup>1</sup>North Carolina State University, Waynesville, NC, <sup>2</sup>North Carolina State University, Raleigh, NC*

1:30 PM 80

### **Long-term effects of Pongamia seedcake as a protein supplement in cattle consuming forage.**

*L. E. Bohlen<sup>1</sup>, J. E. Sawyer<sup>2</sup>, N. M. Early<sup>1</sup>, L. A. Thompson<sup>1</sup>, E. J. Von Edwins<sup>1</sup>, L. A. Redmon<sup>1</sup>, and T. A. Wickersham<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas AgriLife Research, College Station, TX*

1:45 PM 81

### **Feedlot performance of crossbred calves vaccinated with Salmonella Newport Extract vaccine.**

*R. C. Vann<sup>\*1</sup>, J. P. Banta<sup>2</sup>, B. P. Littlejohn<sup>3</sup>, A. Snell<sup>2</sup>, S. D. Lawhon<sup>4</sup>, R. D. Randel<sup>5</sup>, and T. H. Welsh, Jr.<sup>6</sup>, <sup>1</sup>MAFES - Brown Loam Experiment Station, Mississippi State University, Raymond, MS, <sup>2</sup>Texas A&M AgriLife Extension, Overton, TX, <sup>3</sup>Texas A&M University Department of Animal Science, College Station, TX, <sup>4</sup>Department of Veterinary Pathobiology, Texas A&M University, College Station, TX, <sup>5</sup>Texas A&M AgriLife Research- Overton, Overton, TX, <sup>6</sup>Texas A&M University- Department of Animal Science, College Station, TX*

2:00 PM 82

### **Methane and VFA Production Rates by in vitro Mixed Ruminant Microorganism Fermentations of Purified Carbohydrates and a Variety of N Sources.**

*S. C. Klopatek<sup>\*</sup>, Texas A&M University, College Station, TX*

2:15 PM **Break**

- 2:30 PM 83  
**Effect of breed type and backgrounding diet on stocker performance and carcass characteristics.**  
*G. Scaglia<sup>1</sup>, R. Walker<sup>2</sup>, and N. DiLorenzo<sup>3</sup>, <sup>1</sup>LSU AgCenter, Jeanerette, LA, <sup>2</sup>LSU AgCenter, Homer, LA, <sup>3</sup>University of Florida, Marianna, FL*
- 2:45 PM 84  
**Effects of monensin and dietary energy intake on maintenance requirements in beef cows.**  
*C. J. Boardman, T. A. Wickersham, L. A. Trubenbach, and J. E. Sawyer, Texas A&M University, College Station, TX*
- 3:00 PM 85  
**Impact of breed and forage conservation method on apparent total tract nutrient digestibility in beef calves during the backgrounding period.**  
*F. M. Ciriaco<sup>1</sup>, D. D. Henry<sup>1</sup>, D. Demeterco<sup>2</sup>, R. Walker<sup>3</sup>, G. Scaglia<sup>4</sup>, G. C. Lamb<sup>1</sup>, and N. DiLorenzo<sup>1</sup>, <sup>1</sup>University of Florida, North Florida Research and Education Center, Marianna, FL, <sup>2</sup>Louisiana State University, Baton Rouge, LA, <sup>3</sup>LSU AgCenter, Homer, LA, <sup>4</sup>LSU AgCenter, Jeanerette, LA*
- 3:15 PM 86  
**Effects of monensin and dietary energy intake on diet utilization, VFA profile and ruminal fill in beef steers.**  
*C. J. Boardman, T. A. Wickersham, L. A. Trubenbach, and J. E. Sawyer, Texas A&M University, College Station, TX*
- 3:30 PM 87  
**Relationship of plasma osmolarity to feed efficiency in beef cattle.**  
*T. D. Harrison and E. Felton, Division of Animal and Nutritional Sciences, West Virginia University, Morgantown, WV*
- 3:45 PM 88  
**Evaluation of initial body weight and supplementation levels on health and performance of newly received stocker calves.**  
*W. C. Wilkins, B. B. Karisch, T. Smith, and D. R. Smith, Mississippi State University, Mississippi State, MS*
- 4:00 PM 89  
**Effect of injectable castration regimen administered at branding on gain performance, testosterone production, and testicle atrophy in beef bull calves.**  
*J. J. Ball<sup>1</sup>, J. G. Powell<sup>2</sup>, P. Beck<sup>3</sup>, E. B. Kegley<sup>2</sup>, J. K. Apple<sup>1</sup>, and D. R. Cox<sup>4</sup>, <sup>1</sup>Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, AR, <sup>2</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>3</sup>University of Arkansas SWREC, Hope, AR, <sup>4</sup>Cowboy Animal Health, LLC, McKinney, TX*

## Meats

Chair: Ty E. Lawrence  
West Texas A&M University  
Maverick A

1:00 PM 49

**Inclusion of post-extraction algal residue in finishing rations of beef steers: Trained sensory panel ratings for strip steaks.**

*J. C. Morrill, J. E. Sawyer, J. R. Baber, S. B. Smith, R. K. Miller, and T. A. Wickersham, Texas A&M University, College Station, TX*

1:15 PM 50

**Peracetic acid effects on shelf life and survival of *E. coli* on beef steaks.**

*C. G. Davenport, L. Wang, and C. L. Bratcher\*, Auburn University, Auburn, AL*

1:30 PM 51

**Consumer Preference for Sirloin Steaks from Post-Extraction Algal Residue (PEAR) Fed Animals.**

*M. D. Johnson<sup>\*1</sup>, R. K. Miller<sup>1</sup>, J. Morrill<sup>1</sup>, D. P. Anderson<sup>1</sup>, J. E. Sawyer<sup>2</sup>, T. A. Wickersham<sup>1</sup>, J. W. Richardson<sup>1</sup>, and M. A. Palma<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas AgriLife Research, College Station, TX*

1:45 PM **Break**

## Antimicrobial Resistance Symposium

Chair: Thomas H. Welsh, Jr.  
Texas A&M University  
Maverick A

1:55 PM  
**Welcoming Remarks**

2:00 PM 115

**Antimicrobial resistance (AMR): Issues and solutions facing the livestock industry.**

*H. M. Scott, Texas A&M University, College Station, TX*

2:30 PM 116

**Methicillin-resistant *Staphylococcus aureus* (MRSA) in livestock production: An overview.**

*S. D. Lawhon\*, Department of Veterinary Pathobiology, Texas A&M University, College Station, TX*

3:00 PM 117

**Probiotics as an alternative for antimicrobials and improving energy availability.**

*J. R. Donaldson, Mississippi State University, Mississippi State, MS*

3:30 PM

118

**Phage applications in animal agriculture and food safety.**

*J. J. Gill<sup>1</sup>, Texas A&M University, College Station, TX*

4:00 PM

**Panel Discussion**

## **Tuesday, February 9**

### **Small Ruminant Production I**

Chair: Travis R. Whitney

Texas A&M AgriLife Research

Medina

8:00 AM

97

**Effect of a Mushroom (*Coriolus versicolor*) Based Probiotic on the expression of Toll-like receptors in Goat Neutrophils.**

*K. Ekwemalor<sup>1</sup>, E. Asiamah, S. Adjei-Fremah, C. Huffman, H. Ismail, and M. Worku, North Carolina Agricultural and Technical State University, Greensboro, NC*

8:15 AM

98

**Effect of sire breed on gain, carcass characteristics and parasite resistance of Katahdin crossbred feedlot-finished lambs.**

*S. A. Bowdridge<sup>1</sup>, C. S. Sotomaior<sup>2</sup>, M. A. McCann<sup>3</sup>, A. M. Zajac<sup>3</sup>, and S. P. Greiner<sup>3, 1</sup>West Virginia University, Morgantown, WV, <sup>2</sup>Pontificia Universidad Catolica do Parana, Curitiba, Brazil, <sup>3</sup>Virginia Polytechnic Institute and State University, Blacksburg, VA*

8:30 AM

99

**Effect of fish meal supplementation rate on parasitism and performance of grazing lambs.**

*S. A. Bowdridge<sup>1</sup>, D. Mata-Padrino, and D. P. Belesky, West Virginia University, Morgantown, WV*

8:45 AM

100

**The effects of mixed and sequential grazing on growth performances and parasitic resistances of kids.**

*S. Gebrelul<sup>1</sup>, R. Marshall, Y. Ghebreyessus, C. Adams, M. Berhane, and E. Runles, Southern University Ag. Center, Baton Rouge, LA*

9:00 AM

101

**Use of Agro-byproducts to Supplement Hair and Wool x Hair Crossbred Lambs Grazing Fescue Pasture: Growth and Gastrointestinal Parasites.**

*S. Wildeus<sup>1</sup>, J. Lee<sup>2</sup>, C. D. Teutsch<sup>3</sup>, and T. J. Nartea<sup>1</sup>, <sup>1</sup>Virginia State University, Petersburg, VA, <sup>2</sup>Fort Valley State University, Fort Valley, GA, <sup>3</sup>Virginia Tech, Blacksburg, VA*

9:15 AM 102

**Use of agro-byproducts to supplement hair and wool x hair crossbred lambs grazing fescue pasture; carcass characteristics.**

*C. Tripp<sup>1</sup>, J. Lee<sup>1</sup>, S. Wildeus<sup>2</sup>, and B. B. Lemma<sup>1</sup>,  
<sup>1</sup>Fort Valley State University, Fort Valley, GA,  
<sup>2</sup>Virginia State University, Petersburg, VA*

9:30 AM 103

**Effects of *Lespedeza cuneata* and *Pinus maritima* condensed tannin extract on ovine *Eimeria* spp. development and infectivity.**

*V. Kelly<sup>1</sup> and J. E. Miller<sup>2</sup>,  
<sup>1</sup>Louisiana State University School of Veterinary Medicine, Baton Rouge, LA,  
<sup>2</sup>Louisiana State University, Baton Rouge, LA*

9:45 AM **Break**

10:00 AM

**Submitting higher-quality research publications: Selecting the appropriate research design and following JAS technical guidelines**

*J. Burke<sup>1</sup>, T. Whitney<sup>2</sup>,  
<sup>1</sup>USDA-ARS, Booneville, AR,  
<sup>2</sup>Texas A&M AgriLife Research, College Station, TX*

10:45 AM 104

**Condensed Tannins-Induced Gene Expression in Meat Goats: A pilot study.**

*B. R. Min<sup>1</sup>, C. Wright<sup>1</sup>, D. Perkins<sup>1</sup>, M. Mienaltowski<sup>2</sup>,  
A. Dawod<sup>3</sup>, N. K. Gurung<sup>1</sup>, and T. H. Terrill<sup>4</sup>,  
<sup>1</sup>Tuskegee University, Tuskegee, AL, <sup>2</sup>College of Agriculture and Environmental Sciences, University of California Davis, ca, CA, <sup>3</sup>Faculty of Veterinary Medicine, University of Sadat City, Sadat, Egypt,  
<sup>4</sup>Fort Valley State University, Fort Valley, GA*

11:00 AM 105

**The influence of breed and supplementation on consumer ratings of meat quality attributes of pasture-raised ground lamb meat.**

*D. O'Brien<sup>1</sup>, S. Wildeus<sup>1</sup>, T. J. Nartea<sup>1</sup>, and J. Lee<sup>2</sup>,  
<sup>1</sup>Virginia State University, Petersburg, VA, <sup>2</sup>Fort Valley State University, Fort Valley, GA*

11:15 AM 106

**Carcass and fatty acid profile of pen-fed and pasture-raised meat goat kids.**

*S. Schoenian<sup>1</sup>, D. O'Brien<sup>2</sup>, J. Semler<sup>3</sup>, D. Gordon<sup>4</sup>,  
and M. B. Bennett<sup>5</sup>,  
<sup>1</sup>University of Maryland, Keedysville, MD, <sup>2</sup>Virginia State University, Petersburg, VA, <sup>3</sup>University of Maryland, Boonsboro, MD, <sup>4</sup>University of Maryland, Derwood, MD, <sup>5</sup>West Virginia University, Martinsburg, WV*

11:30 AM 107

**Effect of semen extender and storage temperature on ram sperm motility over time.**

*M. Acharya<sup>1</sup>, J. M. Burke<sup>2</sup>, E. Smyth<sup>2</sup>, A. Davis<sup>3</sup>, T. D. Lester<sup>1</sup>, and R. W. Rorie<sup>1</sup>,  
<sup>1</sup>Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, AR, <sup>2</sup>USDA-ARS, Booneville, AR, <sup>3</sup>Murray State University, Murray, KY*

11:45 AM 108

**Evaluation of terminal sire breeds for hair sheep production systems on lamb birth, weaning, and grazing performance.**

*A. R. Weaver<sup>1</sup>, D. L. Wright<sup>1</sup>, M. A. McCann<sup>1</sup>, A. M. Zajac<sup>1</sup>, S. A. Bowdridge<sup>2</sup>, and S. P. Greiner<sup>1</sup>,  
<sup>1</sup>Virginia Polytechnic Institute and State University, Blacksburg, VA, <sup>2</sup>West Virginia University, Morgantown, WV*

**Management Strategies for Intensive, Sustainable Cow-Calf Production Systems in the Southeastern US Symposium - Extension**

Chair: Dave Hutcheson,  
Animal-Agriculture Consulting  
Pecan

8:00 AM 126

**Early weaning beef calves from first-calf Bos indicus-influenced cows.**

*J. D. Arthington<sup>\*</sup> and J. M. B. Vendramini, UF/IFAS, Range Cattle Research and Education Center, Ona, FL*

8:30 AM 127

**Potential for more intensive Cow-Calf production in the Southeast Region.**

*M. H. Poore<sup>\*</sup> and D. H. Poole, North Carolina State University, Raleigh, NC*

**Extension I**

Chair: Michael S. Gadberry  
University of Arkansas  
Pecan

9:00 AM 12

**Evaluation of Antibiotic Metaphylactic Therapy for Receiving Calves at Risk for Bovine Respiratory Disease.**

*J. Hawley<sup>1</sup>, J. G. Powell<sup>2</sup>, E. B. Kegley<sup>2</sup>, P. A. Beck<sup>3</sup>, J. L. Reynolds<sup>2</sup>, and J. A. Hornsby<sup>2</sup>, <sup>1</sup>Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, AR, <sup>2</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>3</sup>University of Arkansas SWREC, Hope, AR*

9:15 AM 13

**Form of Se in free-choice mineral mix tends to affect individual ad libitum intake by grazing beef cows and affects cow and suckling calf blood Se levels.**

*W. R. Burris<sup>\*1</sup>, B. Knight<sup>1</sup>, J. D. Patterson<sup>2</sup>, and J. C. Matthews<sup>2</sup>, <sup>1</sup>University of Kentucky, Princeton, KY, <sup>2</sup>University of Kentucky, Lexington, KY*



- 9:30 AM 14  
**Development, implementation and evaluation of an artificial insemination certification course.**  
*J. D. Rhinehart\* and K. W. Thompson, University of Tennessee, Spring Hill, TN*
- 9:45 AM **Break**
- 10:00 AM 15  
**The Economics of Herd Expansion.**  
*C. G. Prevatt\*, University of Florida, Ona, FL*
- 10:15 AM 16  
**Impacts of Western North Carolina Grazing Clinics on Producer Pasture Management.**  
*A. M. Schaller, United States Department of Agriculture Natural Resources Conservation Service, Raleigh, NC*
- 10:30 AM 17  
**Comparing post test scores for an animal handling and control workshop conducted two consecutive years.**  
*M. R. Russell, University of Arkansas, Little Rock, AR*
- 10:45 AM 18  
**Cooperative Extension Programming for Diverse Clientele in the Virginia Swine Industry.**  
*M. Estienne<sup>1</sup>, C. Wood<sup>2</sup>, A. Fabi<sup>2</sup>, J. Wiegert<sup>3</sup>, C. Childs<sup>4</sup>, C. Gregg<sup>5</sup>, J. Hilleary<sup>6</sup>, and T. Mize<sup>7</sup>,  
<sup>1</sup>Virginia Tech Tidewater AREC, Suffolk, VA, <sup>2</sup>Virginia Tech, Blacksburg, VA, <sup>3</sup>North Carolina State University, Raleigh, NC, <sup>4</sup>Virginia Cooperative Extension, Front Royal, VA, <sup>5</sup>Virginia Cooperative Extension, Dinwiddie, VA, <sup>6</sup>Virginia Cooperative Extension, Leesburg, VA, <sup>7</sup>Virginia Cooperative Extension, Warrenton, VA*
- 11:00 AM 19  
**Improving Enterprise Outcomes and Increasing Minority Participation within the Meat Goat Industry through Outreach Activities in the Southeast.**  
*M. L. Browning<sup>1</sup>, T. Cook<sup>2</sup>, and R. Browning, Jr.<sup>3</sup>,  
<sup>1</sup>Alabama A&M University, Huntsville, AL, <sup>2</sup>MS Meat Goat Producers Cooperative, Terry, MS, <sup>3</sup>Tennessee State University, Nashville, TN*
- 11:15 AM 20  
**Southern Section Extension Forum: Strengthening Extension programs across the Southeast.**  
*B. B. Karisch<sup>1</sup>, M. S. Gadberry<sup>2</sup>, M. K. Mullenix<sup>3</sup>, B. M. Nichols<sup>4</sup>, C. M. Holland<sup>3</sup>, D. L. Fernandez<sup>5</sup>, D. Hancock<sup>6</sup>, and J. M. B. Vendramini<sup>7</sup>,  
<sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>Department of Animal Science, University of Arkansas, Little Rock, AR, <sup>3</sup>Auburn University, Auburn, AL, <sup>4</sup>Noble Foundation, Ardmore, OK, <sup>5</sup>University of Arkansas - Pine Bluff, Pine Bluff, AR, <sup>6</sup>University of Georgia, Athens, GA, <sup>7</sup>UF/IFAS, Range Cattle Research and Education Center, Ona, FL*

## Pastures and Forages

Chair: John G. Andrae  
Clemson University  
Llano/Pecos

9:00 AM 52

### **Effects of stocking rate, forage management, and grazing management on performance and economics of cow-calf production in Southwest Arkansas.**

*P. Beck<sup>\*1</sup>, B. Stewart<sup>1</sup>, M. Sims<sup>1</sup>, and J. Jennings<sup>2</sup>,*

<sup>1</sup>University of Arkansas SWREC, Hope, AR,

<sup>2</sup>Department of Animal Science, University of Arkansas, Little Rock, AR

9:15 AM 53

### **Supplementation Levels and Monensin Effects on Performance of Early Weaned Calves Grazing Bahiagrass Pastures.**

*J. M. B. Vendramini<sup>\*1</sup>, V. C. Gomes<sup>2</sup>, F. A.*

*Kuhawara<sup>3</sup>, R. F. Cooke<sup>4</sup>, and J. M. D. Sanchez<sup>5</sup>,*

<sup>1</sup>UF/IFAS, Range Cattle Research and Education

Center, Ona, FL, <sup>2</sup>Sao Paulo State University,

Dracena, Brazil, <sup>3</sup>Sao Paulo State University,

Botucatu, Brazil, <sup>4</sup>Oregon State University - EOARC

Burns, Burns, OR, <sup>5</sup>UF/IFAS Range Cattle Research and Education Center, Ona, FL

9:30 AM 54

### **In Situ Degradation Parameters of Three Chronological Maturities of 'Tifton 85' Bermudagrass from Cattle Supplemented with Varying Levels of Distillers' Dried Grains.**

*W. B. Smith<sup>\*1</sup>, J. L. Foster<sup>2</sup>, K. C. McCuiston<sup>3</sup>, S. J.*

*Abatti<sup>3</sup>, M. Lesak<sup>3</sup>, and F. M. Rouquette<sup>1</sup>,* <sup>1</sup>Texas

A&M AgriLife Research, Overton, TX, <sup>2</sup>Texas A&M

AgriLife Research, Beeville, TX, <sup>3</sup>Texas A&M

University - Kingsville, Kingsville, TX

9:45 AM **Break**

10:00 AM 55

### **Effect of fermented corn silage density and bacterial inoculants on corn silage pH and fermentation end products.**

*W. L. Braman<sup>\*</sup>, J. E. Kurtz, and K. A. Bryan, Chr.*

*Hansen Animal Health and Nutrition, Milwaukee, WI*

10:15 AM 56

### **Stocker cattle performance from grazed stockpiled 'Tifton 85' bermudagrass.**

*K. R. Bivens<sup>\*1</sup>, M. K. Mullenix<sup>1</sup>, J. M. Johnson<sup>1</sup>, B. E.*

*Gamble<sup>2</sup>, and R. B. Muntifering<sup>1</sup>,* <sup>1</sup>Auburn University,

Auburn, AL, <sup>2</sup>Wiregrass Research and Extension

Center, Headland, AL

10:30 AM

57

**Effects of bambarmycin or monensin on performance of growing steers grazing wheat pasture.**

*W. L. Galyen<sup>1</sup>, P. Beck<sup>2</sup>, E. B. Kegley<sup>3</sup>, J. G. Powell<sup>3</sup>, M. S. Gadberry<sup>4</sup>, T. Hess<sup>5</sup>, and D. S. Hubbell, III<sup>5</sup>, <sup>1</sup>Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, AR, <sup>2</sup>University of Arkansas SWREC, Hope, AR, <sup>3</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>4</sup>Department of Animal Science, University of Arkansas, Little Rock, AR, <sup>5</sup>University of Arkansas Livestock and Forestry Research Station, Batesville, AR*

10:45 AM

58

**Virginia wildrye as an alternative to annual ryegrass and wheat for grazing stocker beef steers.**

*J. A. Parish<sup>\*</sup>, T. F. Best, and C. O. Stewart, Mississippi State University, Prairie, MS*

11:00 AM

59

**Distiller's grains as a substitute for fertilizer in summer grazing systems: performance, nitrogen recovery, and profit.**

*R. Reuter<sup>1</sup>, P. A. Lancaster<sup>2</sup>, G. W. Horn<sup>1</sup>, B. D. Wallis<sup>1</sup>, and P. A. Gunter<sup>1</sup>, <sup>1</sup>Oklahoma Agricultural Experiment Station, Stillwater, OK, <sup>2</sup>UF/IFAS Range Cattle Research and Education Center, Ona, FL*

**Physiology I**

Chair: Rhonda C. Vann  
Mississippi State University  
Regency East Ballroom #3

9:00 AM

60

**Ergot alkaloid induced vasoconstriction of bovine uterine and ovarian blood vessels.**

*D. H. Poole<sup>\*</sup>, S. E. Lyons, J. C. Mackey, A. M. Tyson, G. Shaeffer, and M. H. Poore, North Carolina State University, Raleigh, NC*

9:15 AM

61

**Sexually dimorphic innate immune responses but not tissue Salmonella translocation patterns in pigs exposed to an oral Salmonella challenge.**

*N. C. Burdick Sanchez<sup>1</sup>, P. R. Broadway<sup>1</sup>, J. A. Carroll<sup>1</sup>, E. V. Gart<sup>2</sup>, L. K. Bryan<sup>2</sup>, and S. D. Lawhon<sup>2</sup>, <sup>1</sup>USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, <sup>2</sup>Department of Veterinary Pathobiology, Texas A&M University, College Station, TX*

9:30 AM

62

**Influence of sex and temperament on response of Brahman calves to Salmonella Newport Extract vaccine.**

A. Snell<sup>1,2,3</sup>, J. P. Banta<sup>3</sup>, T. H. Welsh, Jr.<sup>1</sup>, R. D. Randel<sup>4</sup>, S. D. Lawhon<sup>5</sup>, and R. C. Vann<sup>6</sup>,

<sup>1</sup>Department of Animal Science, Texas A&M University, College Station, TX, <sup>2</sup>Texas A&M AgriLife Research, Overton, TX, <sup>3</sup>Texas A&M AgriLife Extension, Overton, TX, <sup>4</sup>Texas A&M AgriLife Research- Overton, Overton, TX, <sup>5</sup>Department of Veterinary Pathobiology, Texas A&M University, College Station, TX, <sup>6</sup>MAFES - Brown Loam Experiment Station, Mississippi State University, Raymond, MS

9:45 AM

**Break**

10:00 AM

63

**Effects of energy intake during the breeding season on beef heifer performance, endocrine profiles, and oocyte transcript levels synchronized for artificial insemination.**

R. Walker<sup>1</sup>, G. T. Gentry<sup>2</sup>, G. Scaglia<sup>3</sup>, and K. Bondioli<sup>4</sup>, <sup>1</sup>LSU AgCenter, Homer, LA, <sup>2</sup>LSU AgCenter Dean Lee Research Station, Alexandria, LA, <sup>3</sup>LSU AgCenter, Jeanerette, LA, <sup>4</sup>Louisiana State University School of Animal Sciences, Baton Rouge, LA

10:15 AM

64

**Effect of monensin supplementation on Brahman cow performance and postpartum follicular development.**

A. Snell<sup>1,2,3</sup>, T. H. Welsh, Jr.<sup>1</sup>, R. D. Randel<sup>4</sup>, R. C. Vann<sup>5</sup>, G. D. Hufstedler<sup>6</sup>, J. P. Banta<sup>3</sup>, and D. A. Neuendorff<sup>2</sup>, <sup>1</sup>Department of Animal Science, Texas A&M University, College Station, TX, <sup>2</sup>Texas A&M AgriLife Research, Overton, TX, <sup>3</sup>Texas A&M AgriLife Extension, Overton, TX, <sup>4</sup>Texas A&M AgriLife Research- Overton, Overton, TX, <sup>5</sup>MAFES - Brown Loam Experiment Station, Mississippi State University, Raymond, MS, <sup>6</sup>Elanco Animal Health, Greenfield, IN

10:30 AM

65

**Ergot alkaloid inhibition of cytochrome P450 activity.**

P. Dias Morse<sup>\*1</sup>, S. A. Alrashedi<sup>1</sup>, and C. F. Rosenkrans, Jr.<sup>2</sup>, <sup>1</sup>University of Arkansas, Fayetteville, AR, <sup>2</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR

10:45 AM

66

**Influence of prenatal stress on insulin response to a glucose challenge in yearling Brahman bulls.**

*R. A. d'Orey Branco<sup>\*1,2</sup>, D. A. Neuendorff<sup>2</sup>, S. E. Schmidt<sup>1</sup>, N. C. Burdick Sanchez<sup>3</sup>, J. A. Carroll<sup>3</sup>, T. H. Welsh, Jr.<sup>1</sup>, and R. D. Randel<sup>1</sup>, <sup>1</sup>Department of Animal Science, Texas A&M University, College Station, TX, <sup>2</sup>Texas A&M AgriLife Research, Overton, TX, <sup>3</sup>USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, <sup>4</sup>Texas A&M AgriLife Research-Overton, Overton, TX*

11:00 AM

67

**Effect of trace mineral source on postweaning Bos Taurus beef bull sexual development.**

*D. M. Price<sup>1</sup>, K. M. Havill<sup>1</sup>, S. R. Hayter<sup>1</sup>, L. J. Sims<sup>1</sup>, D. O. Rae<sup>2</sup>, D. M. Irsik<sup>2</sup>, L. J. Spicer<sup>3</sup>, M. J. Hersom<sup>1</sup>, and J. V. Yelich<sup>1</sup>, <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>College of Veterinary Medicine University of Florida, Gainesville, FL, <sup>3</sup>Oklahoma State University, Stillwater, OK*

11:15 AM

68

**Utilization of resynchronization as a strategy to increase the percentage of replacement beef heifers conceiving to artificial insemination (AI) after an initial fixed-time AI (TAI).**

*P. L. P. Fontes<sup>1</sup>, N. Oosthuizen<sup>1</sup>, V. R. G. Mercadante<sup>2</sup>, G. V. de Moraes<sup>3</sup>, D. D. Henry<sup>4</sup>, F. M. Ciriaco<sup>4</sup>, N. DiLorenzo<sup>1</sup>, and G. C. Lamb<sup>1</sup>, <sup>1</sup>University of Florida, Marianna, FL, <sup>2</sup>Virginia Polytechnic Institute and State University, Blacksburg, VA, <sup>3</sup>State University of Maringa, Maringa, Brazil, <sup>4</sup>University of Florida, North Florida Research and Education Center, Marianna, FL*

11:30 AM

69

**Yeast probiotic supplementation mitigates some of the negative effects of heat stress in feedlot heifers.**

*P. R. Broadway<sup>\*1</sup>, J. A. Carroll<sup>1</sup>, N. C. Burdick Sanchez<sup>1</sup>, S. L. Roberts<sup>2</sup>, K. P. Sharon<sup>3</sup>, J. T. Richeson<sup>2</sup>, and J. R. Corley<sup>4</sup>, <sup>1</sup>USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, <sup>2</sup>Department of Agricultural Sciences, West Texas A&M University, Canyon, TX, <sup>3</sup>Texas Tech University, Department of Animal and Food Sciences, Lubbock, TX, <sup>4</sup>Phileo Lesaffre Animal Care, Cedar Rapids, IA*

11:45 AM

70

**The influence of age at first calving on productivity of Brahman females.**

*R. A. d'Orey Branco<sup>\*1,2</sup>, D. A. Neuendorff<sup>1</sup>, W. B. Smith<sup>1</sup>, T. H. Welsh, Jr.<sup>2</sup>, and R. D. Randel<sup>3</sup>, <sup>1</sup>Texas A&M AgriLife Research, Overton, TX, <sup>2</sup>Department of Animal Science, Texas A&M University, College Station, TX, <sup>3</sup>Texas A&M AgriLife Research-Overton, Overton, TX*

## Ruminant Animal Production II

Chair: Tyron A. Wickersham  
Texas A&M University  
Bowie C

9:00 AM 90  
**Effects of Se-fortified Hay Feeding During the Periparturient Period on Measures of Se Status in Cows and Calves.**

*J. Ranches<sup>1</sup>, J. M. B. Vendramini, and J. D. Arthington, UF/IFAS, Range Cattle Research and Education Center, Ona, FL*

9:15 AM 91  
**Effects of dietary energy concentration and intake on ruminal pH during various phases of adaptation.**

*L. A. Trubenbach<sup>1</sup>, T. A. Wickersham<sup>1</sup>, C. J. Boardman<sup>1</sup>, and J. E. Sawyer<sup>2</sup>, <sup>1</sup>Texas A&M University, College Station, TX, <sup>2</sup>Texas AgriLife Research, College Station, TX*

9:30 AM 92  
**Polymorphisms in Stress-Related Genes Affect Body Weights of Angus-Based Crossbred Cows at Weaning.**

*M. A. Sales, L. R. Meyer, J. G. Powell, K. S. Anschutz, B. R. Kutz, and C. F. Rosenkrans, Jr., Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR*

9:45 AM **Break**

10:00 AM 93  
**Effect of trace mineral (TM) source on postweaning *Bos Taurus* bull growth, performance and liver mineral status.**  
*D. M. Price<sup>1</sup>, K. M. Havill<sup>1</sup>, S. R. Hayter<sup>1</sup>, L. J. Sims<sup>1</sup>, R. West<sup>1</sup>, D. O. Rae<sup>2</sup>, D. M. Irsik<sup>2</sup>, L. J. Spicer<sup>3</sup>, M. J. Hersom<sup>1</sup>, and J. V. Yelich<sup>1</sup>, <sup>1</sup>University of Florida, Gainesville, FL, <sup>2</sup>College of Veterinary Medicine University of Florida, Gainesville, FL, <sup>3</sup>Oklahoma State University, Stillwater, OK*

10:15 AM 94  
**Comparison of Organic and Inorganic Trace Minerals Supplementation Strategies for Beef Heifers.**

*R. H. Burnett<sup>1</sup>, E. B. Kegley<sup>2</sup>, J. C. Moore<sup>1</sup>, J. G. Powell<sup>2</sup>, R. W. Rorie<sup>2</sup>, and C. K. Larson<sup>3</sup>, <sup>1</sup>Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, AR, <sup>2</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>3</sup>Zinpro Corporation, Eden Prairie, MN*

10:30 AM 95  
**Metabolomic profiling for identification of biomarkers associated with temperament in feedlot cattle.**  
*M. D. Miller<sup>1</sup>, Texas A&M University, College Station, TX*

10:45 AM

96

**Effects of Rotating Antibiotic and Ionophore Feed Additives on Enteric Methane, Volatile Fatty Acid Production and Rumen Microbial Populations of Steers Consuming a High Forage Diet.**

*W. L. Crossland<sup>†</sup>, Texas A&M University, College Station, TX*

**Management Strategies for Intensive, Sustainable Cow-Calf Production Systems in the Southeastern US Symposium – Ruminant Animal Production**

Chair: Dave Hutcheson,  
Animal-Agriculture Consulting  
Bowie C

11:00 AM

128

**Bermudagrass Pastures Overseeded with Cool-Season Annual Grasses and Clovers.**

*F. M. Rouquette<sup>†</sup>, Texas A&M AgriLife Research, Overton, TX*

11:30 AM

129

**Matching forage systems with cow size and environment for Sustainable Cow-Calf production in the southern region.**

*P. Beck<sup>\*1</sup>, M. S. Gadberry<sup>2</sup>, S. A. Gunter<sup>3</sup>, and J. Jennings<sup>2</sup>, <sup>1</sup>University of Arkansas, Hope, AR, <sup>2</sup>Department of Animal Science, University of Arkansas, Little Rock, AR, <sup>3</sup>USDA-ARS, Woodward, OK*

11:55 AM

**Panel Discussion**

**Small Ruminant Production II**

Chair: Travis R. Whitney  
Texas A&M AgriLife Research  
Medina

1:00 PM

109

**Effect of sire breed on pregnancy rate in landrace hair sheep during summer Mating.**

*S. Wildeus<sup>†</sup> and D. O'Brien, Virginia State University, Petersburg, VA*

1:15 PM

110

**Use of fecal NIRS to predict red cedar intake by goats.**

*S. P. Hart<sup>†</sup> and M. Sawalhah, Langston University, Langston, OK*

1:30 PM

111

**Effects of dietary AcidBuf supplementation with different levels of salt on productive performance and carcass characteristics of growing lambs.**

*I. A. Alhidary<sup>†</sup>, M. M. Abdelrahman, and G. M. Suliman, King Saud University, Riyadh, Saudi Arabia*

1:45 PM **Break**

2:00 PM 112

**Effect of nutritional supplementation and gonadotropin stimulation on fertility of early postpartum lactating ewes.**

*A. Adebisi, A. K. Redhead, C. D. Paul, E. Greenleaf, D. Singh-knights, and M. Knights\*, West Virginia University, Morgantown, WV*

2:15 PM 113

**Quantification of mRNA Expression for the Estrogen-Regulated Gene ISYNA1 in the Goat Testis.**

*E. Richardson\*, Tuskegee University, Tuskegee, AL*

2:30 PM 114

**Blood profiles of kids in mixed and sequential grazing experiment.**

*S. Gebrelul, R. Marshall\*, M. Morgan, C. Adams, and Y. Ghebreyessus, Southern University Ag. Center, Baton Rouge, LA*

## **Extension II**

Chair: Michael S. Gadberry  
University of Arkansas  
Rio Grande Ballroom - East

2:00 PM

**Assessment of a Beef Cattle Management Website for Extending the Reach of Extension Information in Alabama.**

*M. K. Mullenix\*, E. M. Forte, and K. M. Bennett, Auburn University, Auburn, AL*

2:15 PM 22

**Beef Cattle Programming Across State Lines: The 7th Annual Deep South Stocker Conference.**

*E. M. Forte<sup>1</sup>, M. K. Mullenix<sup>1</sup>, R. L. Stewart, Jr.<sup>2</sup>, and B. B. Karisch<sup>3</sup>, <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>University of Georgia, Athens, GA, <sup>3</sup>Mississippi State University, Mississippi State, MS*

2:30 PM 23

**Beef ambassador programming: A case for coming alongside the beef community to develop advocacy and leadership skills in youth.**

*D. Mulvaney<sup>1,2</sup>, W. Greene<sup>1,2</sup>, W. Powell<sup>3</sup>, E. Bates<sup>4</sup>, and B. Smith<sup>5</sup>, <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>Dept. Animal Sciences, Auburn, AL, <sup>3</sup>Alabama Cattlemen's Association, Montgomery, AL, <sup>4</sup>Alabama Cattlewomen's Association, Cullman, AL, <sup>5</sup>Lauderdale County Cattlemen's Association, Green Hill, AL*



2:45 PM

24

**North Carolina Women Cattle Producers' Educational Needs and Sources of Information.**  
*A. D. Shaeffer<sup>\*</sup>, M. J. Kistler, M. H. Poore, J. Bruce, and K. S. U. Jayaratne, North Carolina State University, Raleigh, NC*

3:00 PM

25

**NC Cattle Industry Assessment Program.**  
*M. H. Poore<sup>\*1</sup>, A. D. Shaeffer<sup>1</sup>, and B. Blinson<sup>2</sup>,  
<sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>NC  
Cattlemen's Association, Fuquay-Varina, NC*

## **Physiology II**

Chair: Chair: Rhonda C. Vann  
Mississippi State University  
Bowie C

1:00 PM

71

**Comparison of plasma and hair cortisol concentrations in hair sheep ewes and lambs in response to weaning with or without fence line contact.**

*R. W. Godfrey<sup>\*1</sup>, J. A. Ruggiero<sup>1</sup>, S. A. Lakos<sup>1</sup>, S. A. Lockwood<sup>2</sup>, and H. G. Kattesh<sup>2</sup>,<sup>1</sup>Agricultural Experiment Station, University of the Virgin Islands, St Croix, US Virgin Islands, <sup>2</sup>Dept. of Animal Science, University of Tennessee, Knoxville, TN*

1:15 PM

72

**A probiotic bolus is ineffective in reducing Salmonella shedding in orally-inoculated weaned pigs.**

*P. R. Broadway<sup>\*1</sup>, J. A. Carroll<sup>1</sup>, N. C. Burdick Sanchez<sup>1</sup>, E. V. Gar<sup>2</sup>, L. K. Bryan<sup>2</sup>, and S. D. Lawhon<sup>2</sup>,<sup>1</sup>USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, <sup>2</sup>Department of Veterinary Pathobiology, Texas A&M University, College Station, TX*

1:30 PM

73

**Effect of timing of local anesthesia on physiological responses in calves after dehorning.**

*A. J. Mathias<sup>\*1</sup>, C. C. Williams<sup>1</sup>, M. G. Welborn<sup>2</sup>, C. B. Navarre<sup>1</sup>, J. F. Coetzee<sup>3</sup>, R. M. Orellana<sup>1</sup>, and S. J. Blair<sup>1</sup>,<sup>1</sup>Louisiana State University, Baton Rouge, LA, <sup>2</sup>LSU School of Veterinary Medicine, Baton Rouge, LA, <sup>3</sup>Pharmacology Analytical Support Team, Iowa State University College of Veterinary Medicine, Ames, IA*

1:45 PM

74

**Cytochrome P450 Polymorphisms Influence Growth and Immune Function of Dairy Heifers Grazing Stockpiled Endophyte-Infected Tall Fescue.**

*M. A. Sales<sup>\*1</sup>, L. R. Meyer<sup>2</sup>, and C. F. Rosenkrans, Jr.<sup>1</sup>,<sup>1</sup>Department of Animal Science, Division of Agriculture, University of Arkansas, Fayetteville, AR, <sup>2</sup>University of Arkansas, Fayetteville, AR*

2:00 PM

75

**Development of an equine non-contact thermography device: Relationship of ocular and rectal temperatures to indicators of health status in horses.**

*H. C. Collins<sup>\*1,2</sup>, J. L. Leatherwood<sup>1</sup>, M. J. Anderson<sup>1</sup>, M. M. Beverly<sup>1</sup>, F. Yildiz<sup>1</sup>, N. L. Walker<sup>3</sup>, and K. J. Stutts<sup>1</sup>, <sup>1</sup>Sam Houston State University, Huntsville, TX, <sup>2</sup>Texas A&M University, College Station, TX, <sup>3</sup>Louisiana State University Agricultural Center, Baton Rouge, LA*

2:15 PM

76

**Modulation of the acute phase response following a lipopolysaccharide challenge in pigs supplemented with an all-natural *Saccharomyces cerevisiae* fermentation product.**

*J. A. Carroll<sup>1</sup>, N. C. Burdick Sanchez<sup>1</sup>, P. R. Broadway<sup>1</sup>, B. E. Bass<sup>2</sup>, and J. W. Frank<sup>2</sup>, <sup>1</sup>USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, <sup>2</sup>Diamond V, Cedar Rapids, IA*

2:30 PM

77

**Hair Coat Phenotype in Heifers Alters Physiological Responsiveness to Ergot Alkaloids Commonly Found in Endophyte-Infected Tall Fescue.**

*T. L. Devine<sup>\*</sup>, J. C. Mackey, G. Shaeffer, M. H. Poore, and D. H. Poole, North Carolina State University, Raleigh, NC*