

**SOUTHERN SECTION**

**American Society of Animal Science**

**ANNUAL MEETING**

**February 6-8, 2011  
Corpus Christi, Texas**

**In conjunction with the 108<sup>th</sup>  
Annual Convention of the Southern  
Association of Agricultural Scientists**

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**Young Animal Scientist – Education**

**Emerging Scholar Award**

Pfizer Animal Health  
New York, New York

**Undergraduate Paper Competition**

**Graduate Student Awards  
Competition**

## **PROGRAM EVENTS**

### **Friday, February 4**

Academic Quadrathlon (AQ)  
9:00 PM Advisors Meeting  
College Station, TX

### **Saturday, February 5**

AQ Lab Practicum and Written Exam  
College Station, TX

### **Bayfront Corpus Christi, TX**

### **Sunday, February 6**

AQ Oral Preparation  
6:30 AM – noon  
Nueces Ballroom A and B

AQ Oral Presentation  
8:00 AM – noon – Capano

AQ Quiz Bowl  
8:00 AM – 1:00 PM - Matagorda

AQ Quiz Bowl Championship/Awards  
and Awards Program  
8:00 AM – 4:00 PM – Laguna Madre

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

Registration  
11:00 AM – 4:00 PM  
Preassembly Area

SCC 72: Enhancing Reproductive  
Efficiency in Cattle IEG  
1:00 PM – 4:00 PM - Capano

SERA 41: Beef Cattle Production Using  
Forages in the Southeast  
1:00 PM – 4:00 PM – Matagorda

SAAS Board Meeting  
2:30 PM – 3:30 PM - Bayview

SAAS General Session/Business  
Meeting  
4:00 PM – 6:00 PM  
Nueces Ballroom A

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

SAAS Reception/“Super Bowl Party”  
6:00 PM – 10:00 PM  
Brewster Street Icehouse

**Monday, February 7**

*Interested in taking an ARPAS exam at the ASAS  
Southern Section Meeting?  
Contact ARPAS at [arpas@assochq.org](mailto:arpas@assochq.org) for  
information or to schedule an exam.*

**Registration**  
7:30 AM – 4:00 PM  
Preassembly Area

SS-ASAS Coffee Break  
9:30 AM – 10:30 AM  
Preassembly Area

SS-ASAS Emerging Scholar  
Awards Presentation  
1:00 PM – 1:45 PM  
Nueces Ballroom B

SS-ASAS Business Meeting and  
Awards Ceremony  
5:00 PM – 7:00 PM  
Nueces Ballroom A

Small Ruminant Subcommittee of the  
NAGP  
7:00 PM – 9:15 PM – Laguna Madre

**Tuesday, February 8**

SAAS Board Breakfast Meeting  
7:00 AM – 10:00 PM – Bayview

**Registration**

8:00 AM - noon  
Preassembly Area

SS-ASAS Emerging Scholar  
Award Presentation  
8:00 AM – 8:45 AM  
Nueces Ballroom B

Graduate Student Luncheon  
12:00 PM – 2:00 PM  
Nueces Ballroom B

Extension Luncheon  
12:00 PM – 2:00 PM  
Bayview



# **SYMPOSIUM AND ORAL SESSIONS**

## **Sunday, February 6**

### **SCC 81: Sustainable Small Ruminant Production IEG**

**Aransas**

8:00 AM

**SCC 81: Sustainable Small Ruminant Production  
IEG.**

### **SCC 72: Enhancing Reproductive Efficiency in Cattle IEG**

**Capano**

1:00 PM

**SCC 72: Enhancing Reproductive Efficiency in  
Cattle IEG.**

### **SERA 41: Beef Cattle Production Using Forages in the Southeast**

**Matagorda**

1:00 PM

**SERA 41: Beef Cattle Production Using Forages  
in the Southeast.**

### **SS-ASAS Advisory Committee and Executive Committee Partnership Boardroom**

6:00 PM

**SS-ASAS Advisory Committee and Executive  
Committee.**

# Monday, February 7

## SYMPOSIA AND ORAL SESSIONS

### Graduate Student Competition I Chair: David Riley, Texas A&M University Nueces Ballroom A

8:00 AM 1  
**Effect of implants and nutrient restriction prior to feeding on carcass quality.**  
J Robinette\*, P Beck, B Barham, S Gadberry, and J Apple, *University of Arkansas, Fayetteville.*

8:15 AM 2  
**The accuracy of ultrasound measurements taken prior to slaughter to measure carcass traits in beef cattle.**  
C. H. Hughes\*<sup>1</sup>, F. R. B. Ribeiro<sup>1</sup>, J. A. Carter<sup>1</sup>, L. O. Tedeschi<sup>2</sup>, G. E. Carstens<sup>2</sup>, R. K. Miller<sup>2</sup>, S. B. Smith<sup>2</sup>, R. D. Rhoades<sup>3</sup>, and B. M. Bourg<sup>2</sup>, <sup>1</sup>*Texas A&M University, Commerce*, <sup>2</sup>*Texas A&M University, College Station*, <sup>3</sup>*Texas A&M University, Kingsville.*

8:30 AM 3  
**The relationship of body condition score and subcutaneous and internal fat measurements by real-time ultrasound in crossbred beef cows.**  
K. N. Gates\*<sup>1</sup>, F. R. B. Ribeiro<sup>1</sup>, J. A. Carter<sup>1</sup>, C. A. Hughes<sup>1</sup>, S. Stewart<sup>1</sup>, and R. G. Tait, Jr.<sup>2</sup>, <sup>1</sup>*Texas A&M University, Commerce*, <sup>2</sup>*Iowa State University, Ames.*

8:45 AM 4  
**Effects of genotype and fescue cultivar on steer gain and carcass traits.**  
A.M. Webb\*<sup>1</sup>, M.L. Looper<sup>2</sup>, M.A. Sales<sup>1</sup>, C.R. Krehbiel<sup>3</sup>, D.L. VanOverbeke<sup>3</sup>, S. Reiter<sup>1</sup>, and C.F. Rosenkrans, JR<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA/ARS, DBSFRC, Bonneville, AR*, <sup>3</sup>*Oklahoma State University, Stillwater.*

9:00 AM 5  
**A comparison of ruminal and large intestinal microbial population of residual feed intake-indexed Brahman bulls under grazing conditions.**  
L. M. Wiley\*<sup>1</sup>, L. O. Tedeschi<sup>1</sup>, T.D.A. Forbes<sup>2</sup>, F.M. Rouquette, Jr.<sup>3</sup>, R.D. Randel<sup>3</sup>, F.R.B. Ribeiro<sup>4</sup>, and S.E. Dowd<sup>5</sup>, <sup>1</sup>*Texas A&M University, College Station*, <sup>2</sup>*Texas Agrilife Research, Uvalde*, <sup>3</sup>*Texas Agrilife Research, Overton*, <sup>4</sup>*Texas A&M University, Commerce*, <sup>5</sup>*Medical Biofilm Research Institute and Research and Testing Laboratory, Lubbock, TX.*

9:15 AM 6

**Effects of residual feed intake classification on feed efficiency, ultrasound and feeding behavior traits in Angus based composite steers.**

J.C. Bailey\*, G.E. Carstens, J.T. Walter, A.N. Hafila, E.D. Mendes, and L.O. Tedeschi, *Texas A&M University, College Station.*

9:30 AM 7

**Effects of spray-dried porcine plasma (SDPP) administered as an oral gavage on pre-weaning growth performance in piglets.**

L.M. Wittish\* and M.J. Estienne, *Virginia Polytechnic Institute and State University, Blacksburg.*

9:45 AM 8

**Effect of timing of BRD vaccination on performance of stocker cattle during receiving.**

K Poe\*, P Beck, D Hubbell, T Hess, and J Richeson, *University of Arkansas, Fayetteville.*

**Teaching and Undergraduate Education**

**Chair: Charles Rosenkrans, Jr.,  
University of Arkansas  
Nueces Ballroom B**

8:15 AM 9

**Cattle handling demonstrations for undergraduate students.**

W. Owsley\* and C. Bratcher, *Auburn University, Auburn, AL.*

8:30 AM

**Discussion.**

**OTHER EVENTS**

**Interdisciplinary Beef Cattle Symposium**

**Chair: Matt Poore, North Carolina State University  
Aransas**

8:30 AM

**Rethinking heifer development. Slow vs. accelerated development (and challenging our traditional target weight concepts).**

Rick Funston, *University of Nebraska.*

9:15 AM

**Advances in estrous synchronization programs for heifers (including new information specific to Indicus heifers).**

Gary Williams, *Texas A&M University.*

10:00 AM

**Break.**

10:20 AM

**Addressing nutrition and management challenges for replacement heifers.**

John Arthington, University of Florida.

11:05 AM

**Designing and developing the replacement heifer of the future.**

Glenn Rogers, Pfizer Animal Health.

11:50 AM

**Discussion.**

## **SYMPOSIA AND ORAL SESSIONS**

**Undergraduate Student Competition  
Chair: Charles Rosenkrans, Jr.,  
University of Arkansas  
Matagorda**

9:00 AM 10

**Forage characteristics and beef cattle production from continuously stocked triticale, wheat and ryegrass pasture.**

L. A. Smith\*, S. P. Schmidt, W. F. Owsley, and R. B. Muntifering, *Auburn University, Auburn, AL.*

9:15 AM 11

**Effects of grazing stockpiled endophyte-infected tall fescue pastures on growth and physiological indices of dairy heifers.**

R. Henry\*<sup>1</sup>, J. Huff<sup>1</sup>, S. Reiter<sup>1</sup>, W. Coblenz<sup>2</sup>, M. Looper<sup>3</sup>, and C. Rosenkrans, Jr.<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA-ARS, Marshfield, WI*, <sup>3</sup>*USDA-ARS, Booneville, AR.*

9:30 AM 12

**Variability in nutritive value of distillers' grains.**

M. L. Drewery\*<sup>1</sup>, J. E. Sawyer<sup>1</sup>, N. M. Kenney<sup>1</sup>, M. S. Cabaniss<sup>1</sup>, W. E. Pinchak<sup>2</sup>, and T. A. Wickersham<sup>1</sup>, <sup>1</sup>*Texas A&M University, College Station*, <sup>2</sup>*Texas AgriLife Research, Vernon, TX.*

9:45 AM 13

**Effects of pre-weaning traits on BVDV type I immunoglobulin response to vaccination in beef calves.**

W. J. Downum\*, A. H. Brown, Jr., J. G. Powell, E. B. Kegley, Z. B. Johnson, D. B. Galloway, J. A. Hornsby, and B. R. Lindsey, *University of Arkansas, Division of Agriculture, Fayetteville.*

10:00 AM 14

**Identification of QTL for two measures of feed efficiency in Nellore-Angus F<sub>2</sub> steers.**

J. D. Luck\*, T. S. Amen, D. G. Riley, A. D. Herring, P. K. Riggs, J. E. Sawyer, J. O. Sanders, and C. A. Gill, *Texas A&M University, Department of Animal Science, College Station.*

10:15 AM

**Break.**

10:30 AM 15

**Effects of clarified Noni juice or Noni pulp on the shelf life and color stability of ground beef patties.**

C. R. Ahrens\*, J. W. S. Yancey, J. K. Apple, T. M. Johnson, C. A. Keys, R. J. Stackhouse, and N. A. Browne, *University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville.*

10:45 AM 16

**The effect of adipocyte determination and differentiation factor-1 (ADD1) on fresh pork quality.**

M. L. Penick\*<sup>1</sup>, T. J. Wistuba<sup>1</sup>, S. J. Moeller<sup>2</sup>, H. N. Zerby<sup>2</sup>, and R. S. Emnett-Miculinich<sup>1</sup>, <sup>1</sup>*Morehead State University, Morehead, KY*, <sup>2</sup>*The Ohio State University, Columbus.*

11:00 AM 17

**Effects of on-arrival versus delayed vaccination with or without metaphylaxis on performance and health of stocker cattle.**

K. M. Newsom\*<sup>1</sup>, A. J. Cain<sup>1</sup>, J. F. Roberts<sup>1</sup>, C. S. Darroch<sup>1</sup>, and C. R. Bailey<sup>2</sup>, <sup>1</sup>*University of Tennessee, Martin*, <sup>2</sup>*Stephen F. Austin State University, Nacogdoches, TX.*

11:15 AM 18

**Utilizing tropical forage legumes to supplement young goats fed a basal diet of sudangrass hay.**

T. E. Lutz\*, F. N. Mhlanga, S. G. Fox, M. A. Nicodemus, and E. Pierce, *Abilene Christian University, Abilene, TX.*

11:30 AM 19

**Evaluating the combined effects of RADEX and TASC0-14 on utilization of poor quality roughages by small ruminants.**

A. Simon\*<sup>1</sup>, F. N. Mhlanga<sup>1</sup>, R. H. Anderson<sup>2</sup>, J. Cosby<sup>1</sup>, and E. Pierce<sup>1</sup>, <sup>1</sup>*Abilene Christian University, Abilene, TX*, <sup>2</sup>*Andersons Consulting & Training Service Inc, Weatherford, TX.*

## OTHER EVENTS

### Coffee Break (Preassembly Area)

9:30 AM

Coffee Break.

## SYMPOSIA AND ORAL SESSIONS

### Graduate Student Competition II Chair: David Riley, Texas A&M University Nueces Ballroom A

10:15 AM 20

#### **Effects of forage and breed type on grazing behavior and temperament of beef heifers.**

A. R. Boyer<sup>\*1</sup>, M. L. Loooper<sup>2,1</sup>, K. P. Coffey<sup>1</sup>, and C. F. Rosenkrans, Jr.<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*Dale Bumpers Small Farms Research Center, Booneville, AR*.

10:30 AM 21

#### **Performance of stocker steers grazing native warm-season grasses during the summer in Tennessee.**

W.M. Backus\*, J.C. Waller, P.D. Keyser, G.E. Bates, C.A. Harper, M.G. Welborn, and B.T. Campbell, *University of Tennessee, Knoxville*.

10:45 AM 22

#### **Effects of cow weight at weaning on forage intake, milk yield, and calf weaning weight.**

G.L. Mourer\*, C.P. McMurphy, A.J. Sexten, and D.L. Lalman, *Oklahoma State University, Stillwater*.

11:00 AM 23

#### **Influence of fescue and heat shock protein haplotype on heifer growth.**

J. D. Patterson<sup>\*1</sup>, M. L. Loooper<sup>2</sup>, B. C. Williamson<sup>1</sup>, M. A. Sales<sup>1</sup>, R. J. Page<sup>1</sup>, and C. F. Rosenkrans, Jr.<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA/ARS DBSFRC, Booneville, AR*.

11:15 AM 24

#### **Concentration effects of ergot alkaloids on cytochrome P450 using the Promega™ P450-glo assay.**

N.S. Ezell<sup>\*1</sup>, A. Moubarak<sup>1</sup>, C. Rosenkrans, Jr.<sup>1</sup>, and M.L. Loooper<sup>2</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA-ARS, Booneville, AR*.

11:30 AM 25

**Effects of bale feeder design and processing on hay waste, intake, and performance of beef cattle.**

A. J. Sexten<sup>\*1</sup>, C. P. McMurphy<sup>1</sup>, G. L. Mourer<sup>1</sup>, C. J. Richards<sup>1</sup>, C. Jones<sup>1</sup>, R. Huhnke<sup>1</sup>, T. J. Kraus<sup>2</sup>, and D. L. Lalman<sup>1</sup>, <sup>1</sup>*Oklahoma State University, Stillwater*, <sup>2</sup>*John Deere, Ottumwa, IA*.

11:45 AM 26

**Relationships among single nucleotide polymorphisms in the cytochrome P450 gene and the enhancer region of the prolactin gene, molecular breeding values, and steer performance.**

B. C. Williamson<sup>\*1</sup>, M. L. Loofer<sup>2</sup>, J. D. Patterson<sup>1</sup>, M. A. Sales<sup>1</sup>, K. P. Coffey<sup>1</sup>, M. Ata<sup>1</sup>, and C. F. Rosenkrans, Jr.<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA/ARS,DBSFRC, Booneville, AR*.

12:00 PM 27

**Determining effects of two deworming protocols on fecal egg counts and growth performance in beef calves.**

S.A. O'Berg<sup>\*</sup>, J.G. Powell, K.P. Coffey, C.A. Tucker, M.P. Rowe, and J.L. Reynolds, *University of Arkansas, Fayetteville*.

**Ruminant Animal Production I  
Chair: Adegbola Adesogan,  
University of Florida  
Nueces Ballroom B**

1:00 PM 28

**SS-ASAS Emerging Scholar Award:  
Dietary and genetic effects on cellular copper homeostasis in cattle.**

R.S. Fry<sup>\*</sup>, M.S. Ashwell, and J.W. Spears, *North Carolina State University, Raleigh*.

1:45 PM 29

**Variability in mineral composition of distillers' grains.**

M.L. Drewery<sup>\*1</sup>, J.E. Sawyer<sup>1</sup>, N.M. Kenney<sup>1</sup>, M.S. Cabaniss<sup>1</sup>, W.E. Pinchak<sup>2</sup>, and T.A. Wickersham<sup>1</sup>, <sup>1</sup>*Texas A&M University, College Station*, <sup>2</sup>*Texas AgriLife Research, Vernon, TX*.

2:00 PM 30

**Effect of daily or alternate day distillers grains supplementation with or without Rumensin<sup>®</sup> on performance of growing heifers.**

P. Beck<sup>\*1</sup>, J. Butterbaugh<sup>2</sup>, B. Rudolph<sup>2</sup>, J. Smith<sup>1</sup>, and B. Stuart<sup>1</sup>, <sup>1</sup>*University of Arkansas Division of Agriculture, Little Rock*, <sup>2</sup>*Furst-McNess Co., Freeport, IL*.

2:15 PM 31

**Intake control agents for self-fed distillers' grains.**

J. D. Sugg<sup>\*1</sup>, T. A. Wickersham<sup>1</sup>, W. E. Pinchak<sup>3</sup>, S. A. Clement<sup>2</sup>, and J. E. Sawyer<sup>1,2</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas Agrilife Research, McCreagor, TX, <sup>3</sup>Texas Agrilife Research, Vernon, TX.

2:30 PM 32

**Dried distiller grains fed to calves on bahiagrass and bermudagrass pastures before weaning.**

G. M. Hill<sup>\*1</sup>, K. C. Halbig<sup>1</sup>, A. N. Franklin<sup>1</sup>, and V. A. Corriher<sup>2</sup>, <sup>1</sup>University of Georgia, Tifton, <sup>2</sup>Texas AgriLife Ext. Ctr., Overton, TX.

2:45 PM 33

**Performance of beef calves provided molasses-based creep supplements.**

J. D. Arthington<sup>\*</sup>, University of Florida-IFAS, Range Cattle Research and Education Center, Ona.

**Graduate Student Competition III**  
**Chair: David Riley, Texas A&M**  
**University**  
**Nueces Ballroom A**

1:15 PM 34

**Heart rate and physical activity in growing Bonsmara heifers with divergent residual feed intake fed in confinement or on pasture.**

A. N. Hafila<sup>\*1</sup>, G. E. Carstens<sup>1</sup>, T. D. A. Forbes<sup>2</sup>, J. C. Bailey<sup>1</sup>, and E. A. Dany<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas AgriLife Research, Uvalde, TX.

1:30 PM 35

**The relationship of cow size and calf birth weight to calf weaning weight in a commercial Brangus cow/calf operation.**

C.D. Dobbs<sup>\*1</sup>, M.A. Brown<sup>2</sup>, and D.L. Lalman<sup>1</sup>, <sup>1</sup>Oklahoma State University, Stillwater, <sup>2</sup>USDA ARS Grazinglands Research Laboratory, El Reno, OK.

1:45 PM 36

**Glycerol inhibition of ruminal lipolysis *in vitro*.**

H. Edwards<sup>\*1</sup>, R. Anderson<sup>2</sup>, R. Miller<sup>1</sup>, T.M. Taylor<sup>1</sup>, M. Hardin<sup>1</sup>, S. Smith<sup>1</sup>, N. Krueger<sup>2</sup>, and D. Nisbet<sup>2</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>United States Department of Agriculture/Agricultural Research Service, Southern Plains Agricultural Research Center, Food & Feed Safety Research Unit, College Station, TX.

2:00 PM 37

**Identification of key proteins associated with fat accretion in broiler chickens using a proteomics approach.**

G. Kelley<sup>\*</sup>, A. Stewart, X. Wang, F. Chen, and S. Nahashon, Tennessee State University, Nashville.



2:15 PM 38

**Evaluation of optimum calcium and phosphorus requirement for pearl grey guinea fowl laying hens.**

L. Glover\*, G. Kelley, T. Boatswain, J. Tyus, and S. Nahashon, *Tennessee State University, Department of Agricultural Sciences, Nashville.*

2:30 PM 39

**Evidence for the expression of a genetically diverse glucose-dependent insulinotropic polypeptide (GIP) gene in the avian hypothalamus.**

J. Tyus\*, N. Bonner, and S. Nahashon, *Tennessee State University, Department of Agricultural Sciences, Nashville.*

2:45 PM

**Break.**

3:00 PM 40

**Developing a low-cost, sustainable feeding system using sweet potato forage for growing rabbits.**

R. Flores\*, S. D. Lukefahr, G. Schuster, K. C. McCuiston, and T. Verma, *Texas A&M University, Kingsville.*

3:15 PM 41

**The effects of ergot alkaloids on bovine sperm motility.**

R. J. Page\*<sup>1</sup>, R. W. Rorie<sup>1</sup>, T. D. Lester<sup>1</sup>, C. L. Williams<sup>1</sup>, M. L. Looper<sup>2</sup>, J. D. Patterson<sup>1</sup>, M. P. Rowe<sup>1</sup>, and C. F. Rosenkrans<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville,* <sup>2</sup>*USDA-ARS, Booneville, AR.*

3:30 PM 42

**The effect of plant-tannins on mature fat cells regulation in goats.**

F. Xie\*<sup>1</sup>, R.A. Katchko<sup>1</sup>, B. Fielder-Dierking<sup>1</sup>, M.A. Ramires<sup>1</sup>, E.A. Benavides<sup>1</sup>, R.L. Stanko<sup>1,2</sup>, and M.R. Garcia<sup>1</sup>, <sup>1</sup>*Texas A&M University, Kingsville,* <sup>2</sup>*Texas AgriLife Research Station, Beeville, TX.*

3:45 PM 43

**Leptin influences normal formation of the corpus luteum in the caprine species.**

M.A. Ramirez\*<sup>1</sup>, F. Xie<sup>1</sup>, E.A. Benavides<sup>1</sup>, R.A. Katchko<sup>1</sup>, L. Ayala<sup>1</sup>, D.H. Keisler<sup>3</sup>, R.L. Stanko<sup>1,2</sup>, and M.R. Garcia<sup>1</sup>, <sup>1</sup>*Texas A&M University, Kingsville,* <sup>2</sup>*Texas A&M University, AgriLife Research Station, Beeville,* <sup>3</sup>*University of Missouri, Columbia.*

4:00 PM 44

**Relationship of Angus x Charolais cow measurements prepartum with subsequent calf performance.**

A Davis\*<sup>1</sup>, M. L. Looper<sup>2</sup>, T. P. Neidecker<sup>3</sup>, B. C. Williamson<sup>1</sup>, D. L. Kreider<sup>1</sup>, and C. F. Rosenkrans<sup>1</sup>, <sup>1</sup>*University of Arkansas, Department of Animal Science, Fayetteville,* <sup>2</sup>*USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR,* <sup>3</sup>*Neidecker Farms, Van Buren, AR.*

**Small Ruminant Production I:  
Parasite Control  
Chair: Niki Whitely, North Carolina  
A&T University  
Laguna Madre**

1:30 PM 45

**Small ruminant integrated parasite management and FAMACHA® training in the United States.**

N.C. Whitely\*<sup>1</sup>, M.A. Perdue<sup>2</sup>, S. Schoenian<sup>3</sup>, R.M. Kaplan<sup>4</sup>, B. Storey<sup>4</sup>, T.H. Terrill<sup>5</sup>, J.M. Burke<sup>6</sup>, S. Mobini<sup>5</sup>, and J.E. Miller<sup>7</sup>, <sup>1</sup>*North Carolina A&T State University, Greensboro*, <sup>2</sup>*University of Maryland, Eastern Shore, Princess Anne*, <sup>3</sup>*University of Maryland Extension, Keedysville*, <sup>4</sup>*University of Georgia, Athens*, <sup>5</sup>*Fort Valley State University, Fort Valley, GA*, <sup>6</sup>*ARS USDA DBSFRC, Booneville, AR*, <sup>7</sup>*Louisiana State University, Baton Rouge*.

1:45 PM 46

**Evaluation of sericea lespedeza grazed as a summer forage and natural gastrointestinal parasite control for goats.**

J-M. Luginbuhl\*<sup>1</sup>, H.M. Glennon<sup>1</sup>, J.E. Miller<sup>2</sup>, and T.H. Terrill<sup>3</sup>, <sup>1</sup>*North Carolina State University, Raleigh*, <sup>2</sup>*Louisiana State University, Baton Rouge*, <sup>3</sup>*Fort Valley State University, Fort Valley, GA*.

2:00 PM 47

**Effect of feeding sericea lespedeza leaf meal on establishment of gastrointestinal nematode larvae in goats.**

D.S. Kommuru\*<sup>1</sup>, T.H. Terrill<sup>1</sup>, B.R. Joshi<sup>1</sup>, A. Mechineni<sup>1</sup>, S. Gujja<sup>1</sup>, J.E. Miller<sup>2</sup>, J.A. Mosjidis<sup>3</sup>, and J.M. Burke<sup>4</sup>, <sup>1</sup>*Fort Valley State University, Fort Valley, GA*, <sup>2</sup>*Louisiana State University, Baton Rouge*, <sup>3</sup>*Auburn University, Auburn, AL*, <sup>4</sup>*USDA/ARS/DBSFRC, Booneville, AR*.

2:15 PM 48

**Influence of condensed tannins from sericea lespedeza on fecal shedding of antibiotic resistance-selected *Escherichia coli* O157:H7 in rams.**

M.L. Looper\*<sup>1</sup>, T.S. Edrington<sup>2</sup>, J.M. Burke<sup>1</sup>, J.E. Miller<sup>3</sup>, J.A. Mosjidis<sup>4</sup>, T.H. Terrill<sup>5</sup>, K.J. Genovese<sup>2</sup>, T.R. Callaway<sup>2</sup>, B.C. Williamson<sup>6</sup>, and C.F. Rosenkrans, Jr.<sup>6</sup>, <sup>1</sup>*USDA-ARS, Booneville, AR*, <sup>2</sup>*USDA-ARS, College Station, TX*, <sup>3</sup>*Louisiana State University, Baton Rouge*, <sup>4</sup>*Auburn University, Auburn, AL*, <sup>5</sup>*Fort Valley State University, Fort Valley, GA*, <sup>6</sup>*University of Arkansas, Fayetteville*.

2:30 PM 49

**Comparison of copper oxide wire particles, copper sulfate and anthelmintic treatment for controlling gastrointestinal nematode infection in lambs.**

J.E. Miller\*<sup>1</sup>, J.M. Burke<sup>2</sup>, J. Garza<sup>1</sup>, S. Callahan<sup>1</sup>, and T.H. Terrill<sup>3</sup>, <sup>1</sup>*Louisiana State University, Baton Rouge*, <sup>2</sup>*USDA ARS, Booneville, AR*, <sup>3</sup>*Fort Valley State University, Fort Valley, GA*.

2:45 PM

**Break.**

3:00 PM 50

**The efficacy of Rabon (tetrachlorvinphos) as a treatment for trichostrongylosis in small ruminants.**

J. Garza<sup>\*1</sup>, J. Bunagan<sup>2</sup>, V. Kelly<sup>3</sup>, and J. Miller<sup>1</sup>,  
<sup>1</sup>Louisiana State University, <sup>2</sup>University of Texas, Pan American, <sup>3</sup>Oklahoma State University, Stillwater.

3:15 PM 51

**Influence of season of lambing on gastrointestinal nematode infection of lambs.**

J.M. Burke<sup>\*1</sup> and J.E. Miller<sup>2</sup>, <sup>1</sup>USDA, ARS, Booneville, AR, <sup>2</sup>Louisiana State University, Baton Rouge.

3:30 PM 52

**Testing efficacy of anthelmintic combinations in goats.**

S. Hart<sup>\*1</sup>, L. Dawson<sup>2</sup>, and Z. Wang<sup>1</sup>, <sup>1</sup>Langston University, E (Kika) de la Garza American Institute for Goat Research, Langston, OK, <sup>2</sup>Oklahoma State University, Boren College of Veterinary Medicine, Stillwater.

3:45 PM 53

**Efficacy of garlic juice, copper oxide wire particles, and anthelmintics to control gastrointestinal nematodes in goats.**

A. D. Courter<sup>\*1</sup>, M. K. Neary<sup>1</sup>, T. K. Hutchens<sup>2</sup>, K. Andries<sup>3</sup>, J. E. Miller<sup>4</sup>, L. M. Pezzanite<sup>1</sup>, J. E. Tower<sup>1</sup>, and M. E. Einstein<sup>1</sup>, <sup>1</sup>Purdue University, West Lafayette, IN, <sup>2</sup>University of Kentucky, Lexington, <sup>3</sup>Kentucky State University, Frankfort, <sup>4</sup>Louisiana State University, Baton Rouge.

4:00 PM 54

**Sunhemp with chicory or pearl millet to minimize gastrointestinal nematode infection in weaned goats.**

J.M. Burke<sup>\*1</sup>, J.A. Mosjidis<sup>2</sup>, J.E. Miller<sup>3</sup>, P. Casey<sup>4</sup>, and T.H. Terrill<sup>5</sup>, <sup>1</sup>USDA, ARS, Booneville, AR, <sup>2</sup>Auburn University, Auburn, AL, <sup>3</sup>Louisiana State University, Baton Rouge, <sup>4</sup>Heifer International, Perryville, AR, <sup>5</sup>Fort Valley State University, Fort Valley, GA.

**Breeding and Genetics**  
**Chair: Lisa Kriese-Anderson, Auburn**  
**University**  
**Aransas**

2:00 PM 55

**Genetic parameter estimates for weaning chute behavior score as an indicator trait for temperament in purebred Angus calves.**

A. H. Brown, Jr.<sup>\*1</sup>, Z. B. Johnson<sup>1</sup>, S. W. Coleman<sup>2</sup>, M. A. Elzo<sup>3</sup>, F. A. Thrift<sup>4</sup>, S. M. DeRouen<sup>5</sup>, D. E. Franke<sup>5</sup>, W. E. Wyatt<sup>5</sup>, R. C. Vann<sup>6</sup>, G. R. Hansen<sup>7</sup>,

and D. G. Riley<sup>8</sup>, <sup>1</sup> *University of Arkansas, Division of Agriculture, Fayetteville*, <sup>2</sup> *USDA/ARS, Brooksville, FL*, <sup>3</sup> *University of Florida, Marianna*, <sup>4</sup> *University of Kentucky, Lexington*, <sup>5</sup> *Louisiana State University Agcenter, Homer, Baton Rouge, Iberia, Baton Rouge*, <sup>6</sup> *Mississippi State University, Raymond*, <sup>7</sup> *North Carolina State University, Plymouth*, <sup>8</sup> *Texas A&M Agrilife, College Station*.

2:15 PM 56

**QTL mapping for overall temperament at weaning in Nellore-Angus cattle using Bayesian Inference.**

L.L. Hulsmann<sup>1</sup>, S.O. Peters<sup>2</sup>, J.O. Sanders<sup>1</sup>, A.D. Herring<sup>1</sup>, C.A. Gill<sup>1</sup>, and D.G. Riley<sup>1</sup>, <sup>1</sup> *Texas A&M University, Department of Animal Science, College Station*, <sup>2</sup> *New Mexico State University, Department of Animal and Range Sciences, Las Cruces, NM*.

2:30 PM 57

**Factors affecting birth weight in Bolivian purebred Nelore cattle.**

E. L. Oxford<sup>1</sup>, A. H. Brown, Jr.<sup>1</sup>, J. A. Pereira<sup>2</sup>, J. H. Landivar<sup>3</sup>, C. F. Rosenkrans, Jr.<sup>1</sup>, and B. R. Kutz<sup>1</sup>, <sup>1</sup> *University of Arkansas, Division of Agriculture, Fayetteville*, <sup>2</sup> *University Gabriel Rene Moreno, Santa Cruz, Bolivia*, <sup>3</sup> *Asociacion Boliviana de Criadores de Cebu Bolivian Association of Cebu Breeders (ASOCEBU), Santa Cruz, Bolivia*.

2:45 PM 58

**Heterosis for calving and weaning rates in Brahman- Hereford cows.**

L. Boenig<sup>\*</sup>, D.G. Riley, J.O. Sanders, and J.A. Sawyer, *Texas A&M University, College Station*.

3:00 PM

**Break.**

3:15 PM 59

**Evaluation of F1 cows by Brahman, Boran, and Tuli bulls for reproductive, maternal and longevity traits.**

C.T. Muntean<sup>\*</sup>, J.O. Sanders, A.D. Herring, and D.G. Riley, *Texas A&M University, College Station*.

3:30 PM 60

**Coefficient of heritability for underline scores in Beefmaster cattle.**

B. R. Kutz<sup>1</sup>, A. H. Brown, Jr.<sup>1</sup>, T. L. Perkins<sup>2</sup>, Z. B. Johnson<sup>1</sup>, and C. F. Rosenkrans, Jr.<sup>1</sup>, <sup>1</sup> *University of Arkansas, Division of Agriculture, Fayetteville*, <sup>2</sup> *Beefmaster Breeders United, San Antonio, TX*.

3:45 PM 61

**Effects of hair coat shedding on weaning performance and association to hair measurements in beef cattle females.**

N. B. Simmons<sup>\*</sup>, M. L. Marks, J. A. Parish, S. T. Willard, and T. Smith, *Mississippi State University, Starkville*.

4:00 PM 62

**Effects of osteopontin single nucleotide polymorphisms on bull semen quality.**

C.L. Williams\*, T.D. Lester, M.P. Rowe, C.F. Rosenkrans, Jr., and R.W. Rorie, *University of Arkansas Division of Agriculture, Fayetteville.*

## OTHER EVENTS

**Small Ruminant Subcommittee of the  
NAGP  
Laguna Madre**

7:00 PM

**Small Ruminant Subcommittee of the NAGP.**

## Tuesday, February 8

### SYMPOSIA AND ORAL SESSIONS

**Ruminant Animal Production II  
Chair: Adegbola Adesogan,  
University of Florida  
Nueces Ballroom B**

8:00 AM 63

**SS-ASAS Emerging Scholar Award:**

**Weaning management of newly received beef calves with or without exposure to a persistently infected bovine viral diarrhea virus type 1b calf: Effects on health, performance, bovine viral diarrhea virus type 1a titers, and circulating leukocytes**

J. T. Richeson<sup>\*1</sup>, E. B. Kegley<sup>1</sup>, B. L. Vander Ley<sup>2</sup>, and J. F. Ridpath<sup>3</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*Iowa State University, Ames*, <sup>3</sup>*USDA-ARS, National Animal Disease Center, Ames, IA.*

8:45 AM 64

**Performance of beef steers finished on three forage systems in the deep South.**

G. Scaglia<sup>\*1</sup>, J. Rodriguez<sup>2</sup>, G. Gentry<sup>2</sup>, K. McMillin<sup>2</sup>, and J. Gillespie<sup>3</sup>, <sup>1</sup>*Louisiana State University, Agricultural Center, Iberia Research Station, Jeanerette*, <sup>2</sup>*Louisiana State University, Agricultural Center, School of Animal Sciences, Baton Rouge*, <sup>3</sup>*Louisiana State University, Agricultural Center, Department of Agricultural Economics and Agribusiness, Baton Rouge.*

9:00 AM 65

**Do heating treatments change the *cis-9, trans-11* conjugated linoleic acid level in dairy products?**

G. Davila- El Rassi and V. Banskalieva\*, *Oklahoma State University, Robert M. Kerr Food and Agricultural Products Center, Sillwater.*

9:15 AM 66

**Effects of form and level of nitrogen intake on serum urea nitrogen and urine urea nitrogen concentrations, and total nitrogen excretion in feedlot cattle.**

A Gueye\*<sup>1,2</sup>, C.R. Richardson<sup>2</sup>, and N.A. Cole<sup>3</sup>,  
<sup>1</sup>Mount Ida College, Newton Center, MA, <sup>2</sup>Texas Tech University, Lubbock, <sup>3</sup>USDA-ARS Conservation and Production Research Laboratory, Bushland, TX.

9:30 AM 67

**Influence of crude glycerin in the growing diet on Angus and Braunvieh-sired steer calves.**

M.H. Poore\*, J.P. Cassady, M.A. Alley, and K.A. Gray, *North Carolina State University, Raleigh.*

9:45 AM 68

**Evaluation of an ear-mounted thermometer device and antibiotic metaphylaxis in newly received beef calves.**

J. T. Richeson\*, J. G. Powell, E. B. Kegley, and J. A. Hornsby, *University of Arkansas, Fayetteville.*

## Extension I

**Chair: Jeff Lehmkuhler, University of Kentucky  
Capano**

8:15 AM 69

**A survey of soil and plant tissue nutrient status of established bahiagrass pastures in south west Florida.**

R.D. Speckmann\*<sup>1</sup>, M.L. Silveira<sup>1</sup>, B. Carlisle<sup>2</sup>, C.L. Kirby<sup>2</sup>, R.W. Gornto<sup>2</sup>, and L.F. Wiggins<sup>2</sup>, <sup>1</sup>University of Florida, Range Cattle Research and Education Center, Ona, <sup>2</sup>University of Florida, IFAS Extension, Gainesville.

8:30 AM 70

**Forage/management systems for beef cow-calf production.**

R. Burris\*, L. Anderson, D. Bullock, J. Lehmkuhler, and J. Randolph, *University of Kentucky, Princeton.*

8:45 AM 71

**Effect of stocking rate on the dawn to dusk activity of non-lactating beef cows.**

M.S. Gadberry<sup>1</sup>, G. Montgomery\*<sup>2</sup>, and W. Whitworth<sup>2</sup>, <sup>1</sup>University of Arkansas, Coop Ext Serv, Little Rock, <sup>2</sup>University of Arkansas, SEREC, Monticello.

9:00 AM 72

**An intensive production system using lightweight stocker cattle as an alternative to traditional systems.**

R. R. Reuter\*, J. K. Rogers, J. D. Springer, B. C. Flatt, and J. T. Biermacher, *The Samuel Roberts Noble Foundation, Inc., Ardmore, OK.*

9:15 AM 73

**UGA basic balancer: A computer based ration balancing program.**

R.L. Stewart, Jr.\*<sup>1</sup>, D.W. Hancock<sup>1</sup>, and R.C. Lacy<sup>2</sup>,  
<sup>1</sup>*University of Georgia, Athens,* <sup>2</sup>*University of Georgia, Tifton.*

9:30 AM 74

**Evaluation of ranking performance tested bulls by reducing the testing period from 112 Days to 84 days.**

F.D. Kirkpatrick\*, J.B. Neel, and B.T. Campbell,  
*University of Tennessee, Knoxville.*

9:45 AM 75

**Using estrus synchronization and AI to improve market value of calves.**

L. H. Anderson\*<sup>1</sup>, K. D. Bullock<sup>1</sup>, J. D. Rhinehart<sup>2</sup>, J. W. Lehmkuhler<sup>1</sup>, and W. R. Burris<sup>1</sup>, <sup>1</sup>*University of Kentucky, Lexington,* <sup>2</sup>*University of Tennessee, Knoxville.*

10:00 AM

**Break.**

**Pastures and Forages  
Chair: Joao Vendramini, University  
of Florida  
Matagorda**

8:15 AM 76

**Effects of sow stocking rates on soil nutrients in a bermudagrass (*Cynodon dactylon*) pasture.**

S. Pietrosemoli\*<sup>1</sup>, J. C. Guevara<sup>2</sup>, and J. T. Green<sup>3</sup>,  
<sup>1</sup>*North Carolina State University, Animal Science Department, Raleigh.,* <sup>2</sup>*Alternative swine research and extension project, Raleigh, NC,* <sup>3</sup>*North Carolina State University, Crop Science Department, Raleigh.*

8:30 AM 77

**Effects of year-round stocking rates and stocking methods on cow-calf productivity and forage nutritive value.**

W. E. Wyatt\*<sup>1</sup>, B. C. Venuto<sup>2</sup>, J. M. Gillespie<sup>3</sup>, and D. C. Blouin<sup>3</sup>, <sup>1</sup>*Louisiana State University Agricultural Center, Jeanerette,* <sup>2</sup>*Grazing Lands Research Laboratory, USDA, ARS, El Reno, OK,* <sup>3</sup>*Louisiana State University Agricultural Center, Baton Rouge.*

8:45 AM 78

**Comparing nitrogen fertilizer to interseeded clovers or alfalfa in bermuagrass pastures for growing calves.**

P. Beck\*<sup>1</sup>, T. Hess<sup>1</sup>, D. Hubbell<sup>1</sup>, J. Jennings<sup>1</sup>, and D. Miller<sup>2</sup>, <sup>1</sup>*University of Arkansas, Division of Agriculture, Little Rock*, <sup>2</sup>*Producers Choice Seed, Nampa, ID*.

9:00 AM 79

**Intake and digestibility of corn stover by beef cattle.**

M.H. Poore, S.R. Freeman\*, S.M. White, G. Whitener, A.D. Shaeffer, and S.L. Vick, *North Carolina State University, Raleigh*.

9:15 AM 80

**Relationships between performance and feed efficiency in Bonsmara heifers when confinement fed or on pasture.**

L.M. Wiley\*<sup>1,2</sup>, T.D.A. Forbes<sup>2</sup>, A.N. Hafila<sup>1</sup>, C.M. Hensarling<sup>2</sup>, B.G. Warrington<sup>2</sup>, and G.E. Carstens<sup>1</sup>, <sup>1</sup>*Texas A&M University, College Station*, <sup>2</sup>*Texas AgriLife Research, Uvalde, TX*.

9:30 AM

**Break.**

9:45 AM 81

**Effect of cultivar, maturity, and harvest form of peanut (*Arachis hypogaea*) on nutritive value and in situ degradation kinetics.**

J. L. Foster\*<sup>1</sup>, G. C. Lamb<sup>2</sup>, B. Tillman<sup>3</sup>, J. Marois<sup>3</sup>, D. Wright<sup>3</sup>, and M. K. Maddox<sup>2</sup>, <sup>1</sup>*Texas A&M University, Texas AgriLife Research, Department of Soil and Crop Sciences, Beeville*, <sup>2</sup>*North Florida Research and Education Center, University of Florida Department of Animal Sciences, Marianna*, <sup>3</sup>*North Florida Research and Education Center, Agronomy Department, Marianna*.

10:00 AM 82

**Seeding winter legumes into Bermudagrass (*Cynodon dactylon*) pastures: forage yield and impact on subsequent summer hay crop.**

S.R. Freeman\*, M.H. Poore, A.D. Shaeffer, and H.M. Glennon, *North Carolina State University, Raleigh*.

10:15 AM 83

**Forage quality of triticale fertilized with poultry litter or commercial fertilizer.**

C. Britton, W. Owsley\*, R. Muntifering, and C. Wood, *Auburn University, Auburn, AL*.

10:30 AM 84

**Effect of endophyte infected tall fescue seed extract on cytochrome P450 system.**

A.S. Moubarak\*<sup>1</sup>, Z.B. Johnson<sup>1</sup>, M.L. Looper<sup>2</sup>, and C.F. Rosenkrans, Jr<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA-ARS, Booneville, AR*.



10:45 AM 85

**Ingestion of tall fescue (*Festuca arundinacea* Schreb.) seed reduces surface temperature of Angus steers in a thermoneutral environment.**

B. Junell\*, G. Huntington, M. Ashwell, M. Poore, and A. Rodger, *North Carolina State University, Raleigh.*

**Physiology I**

**Chair: Peter Ryan, Mississippi State University  
Laguna Madre**

8:15 AM 86

**Differential response to lipopolysaccharide (LPS) and corticotrophin-releasing hormone (CRH) on immune parameters.**

N.C. Burdick\*<sup>1,2</sup>, L.E. Hulbert<sup>1,3</sup>, J.A. Carroll<sup>1</sup>, L.C. Caldwell<sup>2</sup>, M.A. Ballou<sup>3</sup>, R.C. Vann<sup>4</sup>, A.N. Loyd<sup>2</sup>, T.H. Welsh, Jr.<sup>2</sup>, and R.D. Randel<sup>5</sup>, <sup>1</sup>*Livestock Issues Research Unit, USDA-ARS, Lubbock, TX*, <sup>2</sup>*Texas AgriLife Research, Texas A&M System, College Station*, <sup>3</sup>*Texas Tech University, Department of Animal and Food Sciences, Lubbock*, <sup>4</sup>*MAFES, Mississippi State University, Raymond*, <sup>5</sup>*Texas AgriLife Research, Overton, TX.*

8:30 AM 87

**Effect of temperament on response to cannulation and glucose challenge in crossbred beef heifers.**

B.L. Bradbury\*<sup>1</sup>, R.C. Vann<sup>2</sup>, L.C. Mapel<sup>3</sup>, A.W. Lewis<sup>1</sup>, T.H. Welsh Jr.<sup>3</sup>, and R.D. Randel<sup>1</sup>, <sup>1</sup>*Texas AgriLife Research, Overton, TX*, <sup>2</sup>*MAFES-Brown Loam Experiment Station, Raymond, MS*, <sup>3</sup>*Texas AgriLife Research, College Station, TX.*

8:45 AM 88

**Plasma cortisol levels in roping calves.**

A.L. Greathouse\*, B. Pousson, K. Comeaux, J. Browning, and C.E. Ferguson, *McNeese State University, Lake Charles, LA.*

9:00 AM 89

**Body temperature measurements of senepol and crossbred calves in the tropics.**

D.L. Rubino\*<sup>2</sup>, A.J. Weis<sup>1</sup>, A.M. Hogg<sup>1</sup>, and R.W. Godfrey<sup>1</sup>, <sup>1</sup>*University of the Virgin Islands, St Croix*, <sup>2</sup>*Delaware Valley College, Doylestown, PA.*

9:15 AM 90

**A novel role for arginine in enhancing neonatal thermogenesis.**

S.M. Greff\*, G. Wu, and M.C. Satterfield, *Texas A&M University, College Station.*

9:30 AM

**Break.**

9:45 AM 91

**Effects of GnRH and prostaglandin combined with a short progestin regimen on the synchrony of estrus and pregnancy rate in ewes.**

J.W. Dickison\*, W.S. Ramsey, D.W. Forrest, G.A. Holub, and C.A. Cavinder, *Texas A&M University, College Station.*

10:00 AM 92

**Evaluation of organic versus inorganic trace mineral supplementation on bull semen quality.**

M.P. Rowe\*, C.L. Williams, R.J. Page, T.D. Lester, C.F. Rosenkrans, Jr., J.G. Powell, and R.W. Rorie, *University of Arkansas, Division of Agriculture, Fayetteville.*

10:15 AM 93

**Conception rates of sex-sorted semen in beef heifers and cows.**

J. D. Rhinehart<sup>1</sup>, A. M. Arnett<sup>2</sup>, L. H. Anderson<sup>3</sup>, W. D. Whittier<sup>4</sup>, J. E. Larson<sup>5</sup>, W. R. Burris<sup>3</sup>, J. B. Elmore<sup>6</sup>, D. T. Dean<sup>7</sup>, and J. M. DeJarnette<sup>2</sup>, <sup>1</sup>*University of Tennessee, Knoxville,* <sup>2</sup>*Select Sires Inc., Plain City, OH,* <sup>3</sup>*University of Kentucky, Lexington,* <sup>4</sup>*Virginia Tech University, Blacksburg,* <sup>5</sup>*Mississippi State University, Starkville,* <sup>6</sup>*Auburn University, Auburn, AL,* <sup>7</sup>*Sexing Technologies, Navasota, TX.*

10:30 AM 94

**Use of MATRIX<sup>®</sup> and P.G. 600<sup>®</sup> in combination to synchronize estrus in replacement gilts.**

M.J. Estienne\*, *Virginia Polytechnic Institute and State University, Blacksburg.*

10:45 AM 95

**The incidence of calving was influenced by barometric pressure and maximum and minimum temperatures.**

T. R. Troxel<sup>1</sup> and Z. B. Johnson<sup>2</sup>, <sup>1</sup>*University of Arkansas, Little Rock,* <sup>2</sup>*University of Arkansas, Fayetteville.*

**Small Ruminant Production II:  
Nutrition, Carcass and Reproduction  
Chair: Ken Andries, Kentucky State  
University  
Aransas**

8:30 AM 96

**Growth performance and carcass characteristics of Awassi lambs fed diets containing carob pods (*Ceratonia siliqua* L).**

B. S. Obeidat\*, M. A. Alrababah, A. Y. Abdullah, M. N. Alhamad, M. A. Gharaybeh, T. M. Rababah, and M. A. Abu Ishmais, *Jordan University of Science and Technology, Irbid, Jordan.*

8:45 AM 97

**Carcass characteristics of wether lambs fed increasing levels of distillers dried grains with solubles.**

G. Abdelarhim<sup>\*1</sup>, J. Khatiwada<sup>1</sup>, J. Vizcarra<sup>1</sup>, N. Gurung<sup>2</sup>, and D. Rankins<sup>3</sup>, <sup>1</sup>Alabama A&M University, Huntsville, <sup>2</sup>Tuskegee University, Tuskegee, AL, <sup>3</sup>Auburn University, Auburn, AL.

9:00 AM 98

**Carcass characteristics of pasture-raised goats.**

S.G. Schoenian<sup>\*1</sup>, M.B. Bennett<sup>5</sup>, E.N. Escobar<sup>6</sup>, D.G. Gordon<sup>3</sup>, J.W. Semler<sup>2</sup>, and M.S. Updike<sup>4</sup>, <sup>1</sup>University of Maryland, Keedysville, <sup>2</sup>University of Maryland, Boonsboro, <sup>3</sup>University of Maryland, Derwood, <sup>4</sup>University of Maryland, College Park, <sup>5</sup>West Virginia University, Martinsburg, <sup>6</sup>University of Maryland, Eastern Shore, Princess Anne.

9:15 AM 99

**Effect of feeding tannins-containing pine bark on growth performance, rumen fermentation, blood metabolites, and carcass traits in Kiko-cross goats.**

B.R. Min<sup>\*1</sup>, S. Solaiman<sup>1</sup>, N. Gurung<sup>1</sup>, J. Behrends<sup>2</sup>, J. Eun<sup>3</sup>, E. Taha<sup>1</sup>, and J. Rose<sup>1</sup>, <sup>1</sup>Tuskegee University, Tuskegee, AL, <sup>2</sup>Mississippi State University, Mississippi State, <sup>3</sup>Utah State University, Logan.

9:30 AM

**Break.**

9:45 AM 100

**Treated olive cake as a non-forage fiber source: effects on nutrient intake, nutrient digestibilities, and performance of finishing Awassi lambs.**

M. S. Awawdeh<sup>\*</sup>, Jordan University of Science and Technology, Irbid, Jordan.

10:00 AM 101

**Performance of two breeds of lactating hair sheep ewes fed rumen by-pass fat following winter lambing.**

S. Wildeus<sup>\*</sup> and E.J. Chozu, Virginia State University, Petersburg.

10:15 AM 102

**Evaluating the influence of breed on hair coat characteristics and body temperature of hair sheep in the tropics.**

T. Creighton<sup>\*2</sup>, A.M. Hogg<sup>1</sup>, and R.W. Godfrey<sup>1</sup>, <sup>1</sup>University of the Virgin Islands, St Croix, <sup>2</sup>Tuskegee University, Tuskegee, AL.

10:30 AM 103

**The effects of increased molybdenum on testicular morphology and serum testosterone in Boer-Cross goats.**

O. U. Bolden-Tiller<sup>\*</sup>, T. Atkinson, K. Beguesse, and S. Solaiman, Tuskegee University, Tuskegee Institute, AL.

**Extension II**  
**Chair: Justin Rhinehart, University of**  
**Tennessee**  
**Capano**

10:15 AM 104

**Assessing variability of on-farm post-weaning feeder calf performance.**

J.W. Lehmkuhler\*, K. Burdine, and W.R. Burris,  
*University of Kentucky, Lexington.*

10:30 AM 105

**Using electronic forms for rapid response.**

J.W. Lehmkuhler\*, S.R. Smith, G.D. Lacefield, M. Bilderback, and W.R. Burris, *University of Kentucky, Lexington,.*

10:45 AM 106

**Use of a cattle artificial insemination school as extension programming.**

J. A. Parish, M. L. Marks\*, and J. E. Larson,  
*Mississippi State University, Mississippi State.*

11:00 AM 107

**Use of a twice monthly videoconference to meet extension needs.**

D.L. Rankins, Jr.\* and W.N. Presley, *Auburn University, Auburn, AL.*

11:15 AM 108

**Beef IQ: Use of critical control points to evaluate and improve beef cattle management practices.**

B. L. Barham\*<sup>1</sup>, M.S. Gadberry<sup>1</sup>, P. Beck<sup>2</sup>, W. Witworth<sup>3</sup>, J. Jennings<sup>1</sup>, and J. Powell<sup>4</sup>, <sup>1</sup>*University of Arkansas, Division of Agriculture, Little Rock,* <sup>2</sup>*University of Arkansas, Division of Agriculture, Hope,* <sup>3</sup>*University of Arkansas, Division of Agriculture, Monticello,* <sup>4</sup>*University of Arkansas, Division of Agriculture, Fayetteville.*

11:30 AM 109

**Beef IQ program: 2-year follow-up survey of participants.**

M.S. Gadberry\*<sup>1</sup>, B.L. Barham<sup>1</sup>, T.R. Troxel<sup>1</sup>, P. Beck<sup>2</sup>, W. Whitworth<sup>3</sup>, J. Powell<sup>4</sup>, and J. Jennings<sup>1</sup>, <sup>1</sup>*University of Arkansas, Coop Ext Serv, Little Rock,* <sup>2</sup>*University of Arkansas, SWREC, Hope,* <sup>3</sup>*University of Arkansas, SEREC, Monticello,* <sup>4</sup>*University of Arkansas, Dept. of ANSC, Fayetteville.*

**Extension III**  
**Chair: Jason Banta, Texas A&M**  
**University**  
**Capano**

1:15 PM 110

**Building confidence and skills of female livestock extension agents.**

A.D. Shaeffer\*, M.H. Poore, M.J. Kistler, J.A. Moore,

and M.L. Alley, *North Carolina State University, Raleigh.*

1:30 PM 111

**The impact of "Beef Cattle Time" as perceived by Tennessee beef producers.**

C.L. Perez, J.B. Neel\*, R.G. Waters, C.A. Stephens, and B.T. Campbell, *University of Tennessee, Knoxville.*

1:45 PM 112

**Effect of size of beef operations on management techniques.**

J.B. Neel\*<sup>1</sup>, C.D. Lane<sup>1</sup>, F.D. Kirkpatrick<sup>1</sup>, W.W. Gill<sup>2</sup>, and B.T. Campbell<sup>1</sup>, <sup>1</sup>*University of Tennessee, Knoxville,* <sup>2</sup>*Middle Tennessee State University, Murfreesboro.*

2:00 PM 113

**Effect of producer characteristics on size of beef operations and management practices.**

B.T. Campbell\*<sup>1</sup>, J.B. Neel<sup>1</sup>, C.D. Lane<sup>1</sup>, F.D. Kirkpatrick<sup>1</sup>, and W.W. Gill<sup>2</sup>, <sup>1</sup>*University of Tennessee, Knoxville,* <sup>2</sup>*Middle Tennessee State University, Murfreesboro.*

2:15 PM 114

**Affects of fat content and source on consumption time by two year old quarter horses.**

M.L. McMillan\*, K.R. Hall, S.F. Kelley, and L.R. McMillan, *Sam Houston State University, Huntsville, TX.*

## **Meats**

### **Chair: Ty Schmidt, Mississippi State University Laguna Madre**

1:15 PM 115

**Effects of phase-feeding beef tallow on growth performance and carcass characteristics of growing-finishing pigs fed dried distillers grains with solubles.**

N. A. Browne\*, J. K. Apple, C. V. Maxwell, J. W. S. Yancey, C. L. Bradley, R. J. Stackhouse, and C. A. Keys, *University of Arkansas, Division of Agriculture, Department of Animal Science, Fayetteville.*

1:30 PM 116

**Effects of residual feed intake classification on carcass characteristics, tenderness and value in Angus-based composite steers.**

J.W. Behrens\*, R.K. Miller, J.C. Bailey, J.T. Walter, L.O. Tedeschi, and G.E. Carstens, *Texas A&M University, College Station.*

1:45 PM 117

**Translocation of surface-inoculated *Escherichia coli* into whole muscle non-intact beef striploins following blade tenderization.**

D. Johns<sup>1</sup>, C. Bratcher<sup>\*1</sup>, C. Kerth<sup>2</sup>, and T. McCaskey<sup>1</sup>, <sup>1</sup>*Auburn University, Auburn, AL*, <sup>2</sup>*Texas A&M University, College Station*.

2:00 PM 118

**Evaluating the flavor profile of pre-cooked roasts from forage versus grain fed beef.**

K. McMurtrie<sup>1</sup>, C. Bratcher<sup>\*1</sup>, C. Kerth<sup>2</sup>, B. Smith<sup>3</sup>, and P. Curtis<sup>1</sup>, <sup>1</sup>*Auburn University, Auburn, AL*, <sup>2</sup>*Texas A&M University, College Station*, <sup>3</sup>*John R White, Birmingham, AL*.

2:15 PM 119

**Effects of cytochrome P450 genotype and tall fescue cultivar on taste panel evaluation of and alkaloid concentrations in beef.**

C. Rosenkrans, Jr.<sup>\*1</sup>, M. Looper<sup>2</sup>, C. Krehbiel<sup>3</sup>, D. VanOverbeke<sup>3</sup>, and N. Hill<sup>4</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA-ARS, Booneville, AR*, <sup>3</sup>*Oklahoma State University, Stillwater*, <sup>4</sup>*University of Georgia, Athens*.

2:30 PM 120

**Demographics of branded beef consumers: Have they changed over time?**

M. Beverly<sup>\*1</sup>, K. Stutts<sup>1</sup>, S. Kelley<sup>1</sup>, R. Hanagriff<sup>2</sup>, and R. Rhoades<sup>2</sup>, <sup>1</sup>*Sam Houston State University, Huntsville, TX*, <sup>2</sup>*Texas A&M University, Kingsville*.

2:45 PM 121

**Product characteristics and promotional items that impact consumer beef purchases.**

K. J. Stutts<sup>\*1</sup>, M. M. Beverly<sup>1</sup>, S. F. Kelley<sup>1</sup>, R. D. Hanagriff<sup>2</sup>, and R. D. Rhoades<sup>2</sup>, <sup>1</sup>*Sam Houston State University, Huntsville, TX*, <sup>2</sup>*Texas A&M University, Kingsville*.

## Physiology II

**Chair: Olga Bolden-Tiller, Tuskegee University  
Aransas**

1:15 PM 122

**Insulin resistance in Brahman bulls and heifers selected for residual feed intake.**

G. L. Shafer<sup>\*1,2</sup>, A. W. Lewis<sup>1</sup>, D. A. Neuendorff<sup>1</sup>, L. C. Mapel<sup>2</sup>, T. D. A. Forbes<sup>3</sup>, T. H. Welsh, Jr<sup>2</sup>, and R. D. Randel<sup>1</sup>, <sup>1</sup>*Texas AgriLife Research, Overton*, <sup>2</sup>*Texas AgriLife Research, College Station*, <sup>3</sup>*Texas AgriLife Research, Uvalde*.

1:30 PM 123

**Chromium supplementation enhances the acute phase response of steers to a lipopolysaccharide (LPS) challenge.**

N.C. Burdick\*<sup>1</sup>, B.C. Bernhard<sup>2</sup>, J.A. Carroll<sup>1</sup>, J.W. Dailey<sup>1</sup>, R.J. Rathmann<sup>2</sup>, and B.J. Johnson<sup>2</sup>,  
<sup>1</sup>Livestock Issues Research Unit, USDA-ARS, Lubbock, TX, <sup>2</sup>Texas Tech University, Department of Animal and Food Sciences, Lubbock.

1:45 PM 124

**Acute modulation of cytokine gene expression in bovine PBMCs by endogenous cortisol.**

N.C. Burdick\*<sup>1,3</sup>, B.J. Agado<sup>2</sup>, R.D. Randel<sup>2</sup>, D.A. Neuendorff<sup>2</sup>, J.A. Carroll<sup>3</sup>, R.C. Vann<sup>4</sup>, C.G. Chitko-McKown<sup>5</sup>, S.D. Lawhon<sup>6</sup>, and T.H. Welsh, Jr.<sup>1,6</sup>,  
<sup>1</sup>Texas AgriLife Research, Texas A&M System, College Station, <sup>2</sup>Texas AgriLife Research, Texas A&M System, Overton, <sup>3</sup>Livestock Issues Research Unit, USDA-ARS, Lubbock, TX, <sup>4</sup>MAFES, Mississippi State University, Raymond, <sup>5</sup>US Meat Animal Research Center, USDA-ARS, Clay Center, NE, <sup>6</sup>Texas A&M University, College of Veterinary Medicine, College Station.

2:00 PM 125

**Comparison of peripheral concentrations of adrenocorticotropin (ACTH), cortisol (CS) and insulin-like growth factor-I (IGF-I) in term septic and non-septic neonatal foals.**

J. R. Gold<sup>1</sup>, L. C. Caldwell\*<sup>2</sup>, B. L. Ideus<sup>2</sup>, N. D. Cohen<sup>1</sup>, and T. H. Welsh, Jr.<sup>2</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas AgriLife Research, College Station, TX.

2:15 PM 126

**Differences in hepatic IGF signaling in IUGR and IUGA fetuses from nutrient restricted dams.**

M.C. Satterfield\*, R.M. Simmons, S.M. Greff, and K.A. Dunlap, Texas A&M University, College Station.

2:30 PM 127

**Effects of monensin on *Campylobacter* and *Salmonella* in vitro.**

N.A. Krueger\*<sup>1</sup>, R.C. Anderson<sup>1</sup>, J.A. Byrd<sup>1</sup>, M.D. Flythe<sup>2</sup>, and D.J. Nisbet<sup>1</sup>, <sup>1</sup>Food & Feed Safety Research Unit, United States Department of Agriculture, Agriculture Research Service, College Station, TX, <sup>2</sup>University of Kentucky, Forage Animal Production Research Unit, Lexington.

2:45 PM 128

**Bioluminescence imaging of luciferase reporter gene expression within intact porcine ovarian follicles *in vitro*.**

S. Jung\* and S. T. Willard, Mississippi State University, Mississippi State.