

**Southern Section  
AMERICAN SOCIETY OF ANIMAL SCIENCE**

**ANNUAL MEETING**

**February 2-5, 2008  
Dallas, Texas**

**In conjunction with the 105<sup>th</sup>  
Annual Convention of the Southern  
Association of Agricultural Scientists**

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**ANIMAL SCIENCE**

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**Swine Industry Award for Innovation**  
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**Young Animal Scientist – Education**

**Undergraduate Paper Competition**

**Graduate Student Awards Competition**

## **PROGRAM EVENTS**

### **Friday, February 1**

Academic Quadrathlon (AQ)  
9:00 PM Advisor's Mtg. College Station, TX

### **Saturday, February 2**

AQ Lab Practicum &  
Written Exam College Station, TX

### **Sunday, February 3**

AQ Oral Preparation Adam's Mark  
6:30 AM — NOON Pearl Rooms 1, 2, 3, 4

AQ Oral Presentation Adam's Mark  
8:00 AM — NOON Pearl Room 5

AQ Quiz Bowl Adam's Mark  
8:00 AM — 1:00 PM Live Oak Room

AQ Quiz Bowl Championship  
& Awards Program Adam's Mark  
8:00 AM — 4:00 PM Seminar Theater

Registration Conference Center  
11:00 AM — 4:00 PM Grand Hall

#### Information Exchange Groups:

SCC-81 — Sustainable small  
ruminant production Adam's Mark  
10:00 AM — 4:00 PM City View Room 6

SERA-36 — Beef/forage  
production in Southeast Adam's Mark  
1:00 PM — 4:00 PM Pearl Room 4

SCC-72 — Enhancing  
reproductive efficiency  
in cattle Adam's Mark  
1:00 PM — 4:00 PM Pearl Room 5

SAAS Opening Session  
& Business Meeting Conference Center  
3:30 PM — 5:00 PM Dallas Ballroom A3

Super Bowl Party Conference Center  
5:00 PM Dallas Ballroom B/C

SS-ASAS Exec. Comm. Adam's Mark  
5:00 PM — 6:00 PM Presidential Suite 1255

**Monday, February 4**

Registration Conference Center  
7:30 AM — 4:00 PM Grand Hall

Graduate Student  
Competition Conference Center  
8:00 AM — 11:45 AM Dallas Ballroom B

ARPAS EXAMS Adam's Mark  
10:00 AM — 4:00 PM Pearl Room 3

Breeding and Genetics Adam's Mark  
1:00 PM — 3:15 PM City View Room 3

Physiology 1 Conference Center  
1:00 PM — 4:30 PM Dallas Ballroom D1

Extension/Pastures and Forages/  
Ruminant Animal Production  
Joint Symposium Adam's Mark  
1:00 PM — 3:00 PM City View Room 2

Small Ruminant  
Production 1 Conference Center  
1:00 PM — 4:15 PM Dallas Ballroom A2

Undergraduate Student  
Competition Conference Center  
1:00 PM — 4:00 PM Dallas Ballroom B

Pastures and Forages 1 Adam's Mark  
3:30 PM — 4:30 PM City View Room 3

Ruminant Animal  
Production 1 Adam's Mark  
3:30 PM — 4:30 PM City View Room 2

SS-ASAS Business Mtg.  
& Awards Program Conference Center  
5:00 PM — 7:00 PM Dallas Ballroom B

NAGP Small Ruminant  
Subcommittee Conference Center  
7:00 PM to 9:00 PM Dallas Ballroom A2

## Tuesday, February 5

Registration 8:00 AM — NOON	Conference Center Grand Hall
Meats 8:00 AM — 8:30 AM	Conference Center Dallas Ballroom D1
Pastures and Forages 2 8:00 AM — 11:15 AM	Conference Center Dallas Ballroom B
Physiology 2 8:00 AM — 11:30 AM	Conference Center Dallas Ballroom A1
Ruminant Animal Production 2 8:00 AM — 11:30 AM	Conference Center Dallas Ballroom C
Small Ruminant Production 2 8:00 AM — 11:15 AM	Conference Center Dallas Ballroom A2
Extension 1 9:00 AM — 11:30 AM	Conference Center Dallas Ballroom D1
Extension Luncheon 11:30 AM — 1:00 PM	Adam's Mark Majestic Boardroom 1
Extension 2 1:00 PM — 2:30 PM	Conference Center Dallas Ballroom D1
Ruminant Animal Production 3 1:00 PM — 2:45 PM	Conference Center Dallas Ballroom C

**ASAS Southern Section Meeting  
Dallas, Texas  
February 2-5, 2008**

**Monday, February 4**

**SYMPOSIA AND ORAL SESSIONS**

**Graduate Student Competition**

Chair: Scott Willard  
Mississippi State University  
Conference Center Dallas Ballroom B

8:00 AM 26

**Endotoxin induced uncoupling of the somatotrophic axis in nursery pigs.**

L. E. Hulbert<sup>\*1</sup>, J. A. Carroll<sup>1</sup>, and K. Haydon<sup>2</sup>,  
<sup>1</sup>*Livestock Issues Research Unit, Agricultural Research Service-USDA, Lubbock, TX*, <sup>2</sup>*Prince Agri Products, Inc., Quincy, IL.*

8:15 AM 27

**Effects of MEGALAC-R<sup>®</sup> inclusion to receiving diets of weaned feeder calves.**

D. B. Araujo<sup>\*</sup>, R. F. Cooke, G. R. Hansen, and J. D. Arthington, *University of Florida - IFAS, Gainesville.*

8:30 AM 28

**Horned vs. polled: A survey of gene expression in neonatal horn buds and skin.**

K. R. Wunderlich<sup>\*</sup>, C. A. Abbey, and C. A. Gill, *Texas A&M University, College Station.*

8:45 AM 29

**Identification of signatures of recent positive selection in beef and dairy cattle.**

J. Choi<sup>\*1</sup>, R. Villa-Angulo<sup>2</sup>, K. Wright<sup>3</sup>, L. K. Matukumalli<sup>2</sup>, C. P. Van Tassell<sup>4</sup>, C. D. Bustamante<sup>3</sup>, J. J. Grefenstette<sup>2</sup>, and C. A. Gill<sup>1</sup>,  
<sup>1</sup>*Texas A&M University, College Station*,  
<sup>2</sup>*George Mason University, Fairfax*, <sup>3</sup>*Cornell University, Ithaca*, <sup>4</sup>*USDA-ARS, Beltsville.*

9:00 AM 30

**Dihydrotestosterone levels in genetically naked and furred male rabbits.**

R. H. Jackson<sup>\*1</sup>, S. D. Lukefahr<sup>1</sup>, R. L. Stanko<sup>1,2</sup>, and D. O. Flores<sup>1</sup>, <sup>1</sup>*Department of Animal and Wildlife Sciences, Texas A&M University-Kingsville*, <sup>2</sup>*Animal Reproductive Laboratory, Texas A&M University Agricultural Research Station, Beeville*.

9:15 AM 31

**Historic genetic characterization of King Ranch Quarter Horses.**

L. Dobson<sup>\*1</sup>, S. D. Lukefahr<sup>1</sup>, S. Moore<sup>2</sup>, D. S. Delaney<sup>2</sup>, and J. Lee<sup>2</sup>, <sup>1</sup>*Department of Animal and Wildlife Sciences, Texas A&M University-Kingsville*, <sup>2</sup>*King Ranch, Kingsville, TX*.

9:30 AM 32

**Effects of dietary supplementation of yeast culture to sow diets on sow and litter performance.**

C. Vasquez<sup>\*1</sup>, B. J. Min<sup>1</sup>, and S. W. Kim<sup>2</sup>, <sup>1</sup>*Texas Tech University, Lubbock*, <sup>2</sup>*North Carolina State University, Raleigh*.

9:45 AM 33

**Identification of single nucleotide polymorphisms in the promoter region of the bovine follicle stimulating hormone gene.**

S. Nabhan<sup>\*1</sup>, S. Reiter<sup>1</sup>, D. Kreider<sup>1</sup>, M. Looper<sup>2</sup>, and C. Rosenkrans<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA/ARS, Booneville, AR*.

10:00 AM **Break.**

10:15 AM 34

**Effects of dried distillers grains during preconditioning on subsequent wheat pasture and finishing performance of fall-weaned beef steers.**

S. J. Winterholler<sup>\*</sup>, B. P. Holland, T. K. Dye, C. R. Krehbiel, and G. W. Horn, *Oklahoma State University, Stillwater*.

10:30 AM 35

**Corn grazing: Opportunities for cattle production and wildlife enterprises.**

D. H. Manning\*, R. C. Vann, and J. C. Jones,  
*Mississippi State University, Mississippi State.*

10:45 AM 36

**Bioavailability of iron from soil contamination as affected by silage fermentation.**

S. L. Hansen\* and J. W. Spears, *North Carolina State University, Raleigh.*

11:00 AM 37

**Microarray analysis of gene expression in boars supplemented with organic selenium.**

S.M. Speight\*<sup>1</sup>, M.J. Estienne<sup>1</sup>, A.F. Harper<sup>1</sup>,  
and C.R. Barb<sup>2</sup>, <sup>1</sup>*Virginia Polytechnic Institute and State University, Blacksburg*, <sup>2</sup>*USDA, ARS, Athens, GA.*

11:15 AM 38

**Evidence for possible involvement of IGF type II receptors (IGF2R) in regulating growth of two concomitant dominant follicles in cattle.**

P. Y. Aad\*<sup>1</sup>, S. E. Echtenkamp<sup>2</sup>, and L. J. Spicer<sup>1</sup>, <sup>1</sup>*Oklahoma State University, Stillwater*, <sup>2</sup>*USDA, U.S. Meat Animal Research Center, Clay Center, NE.*

11:30 AM 39

**Single nucleotide polymorphisms in the 5' flanking region of inflammatory mediator genes in ascites– susceptible and –resistant broilers.**

S. H. Whiting\*<sup>1</sup>, D. L. Kreider<sup>1</sup>, S. T. Reiter<sup>1</sup>, and N. B. Anthony<sup>2</sup>, <sup>1</sup>*University of Arkansas Department of Animal Science, Fayetteville*, <sup>2</sup>*University of Arkansas Department of Poultry Science, Fayetteville.*

## **Breeding and Genetics**

Chair: Andy Herring, Texas A&M University  
Adam's Mark City View Room 3

1:00 PM 1

### **Postweaning gains in calves sired by six sire breeds evaluated on two postweaning management systems.**

M. A. Brown<sup>\*1</sup>, X. Z. Wang<sup>2</sup>, F. Q. Gao<sup>2</sup>, J. P. Wu<sup>2</sup>, and D. L. Lalman<sup>3</sup>, <sup>1</sup>USDA-ARS, *Grazinglands Research Laboratory, El Reno, OK*, <sup>2</sup>Gansu Agricultural University, Lanzhou, Gansu, <sup>3</sup>Oklahoma State University, Stillwater.

1:15 PM 2

### **Evaluation of disposition scores in *Bos indicus*/*Bos taurus* cross calves at weaning.**

R. R. Funkhouser\*, J. O. Sanders, A. D. Herring, C. A. Gill, D. K. Lunt, and J. E. Sawyer, *Texas A&M University, College Station.*

1:30 PM 3

### **Breed group means and estimates of heritability for weaning ratio in Angus, Charolais, Hereford, and Red Poll cattle.**

A. H. Brown, Jr.\* , Z. B. Johnson, F. W. Pohlman, and B. R. Kutz, *University of Arkansas, Fayetteville.*

1:45 PM 4

### **Genetic analyses of beef traits of crossbred and purebred Romosinuano, Brahman, and Angus steers.**

D. G. Riley<sup>\*1</sup>, C. C. Chase<sup>1</sup>, M. F. Miller<sup>2</sup>, J. C. Brooks<sup>2</sup>, D. D. Johnson<sup>3</sup>, W. A. Phillips<sup>4</sup>, S. W. Coleman<sup>1</sup>, and T. A. Olson<sup>3</sup>, <sup>1</sup>USDA, ARS, *Brooksville, FL*, <sup>2</sup>Texas Tech University, *Lubbock*, <sup>3</sup>University of Florida, *Gainesville*, <sup>4</sup>USDA, ARS, *El Reno, OK.*

2:00 PM 5

### **Genetic effects on circulating concentrations of cortisol at and after weaning in breed-types adapted to the subtropics.**

C. C. Chase, Jr.\*<sup>1</sup>, R. D. Randel<sup>2</sup>, D. G. Riley<sup>1</sup>, S. W. Coleman<sup>1</sup>, and T. A. Olson<sup>3</sup>, <sup>1</sup>USDA, ARS, *Brooksville, FL*, <sup>2</sup>Texas Agricultural Experiment Station, *Overton, TX*, <sup>3</sup>University of Florida, *Gainesville.*

2:15 PM 6

**Genetic markers in the leptin gene and association with carcass traits in Brahman steers.**

D. E. Franke<sup>\*1</sup>, T. D. Bidner<sup>1</sup>, M. G. Thomas<sup>2</sup>, and B. W. Woodward<sup>3</sup>, <sup>1</sup>*Louisiana State University Agricultural Center, Baton Rouge*, <sup>2</sup>*New Mexico State University, Las Cruces*, <sup>3</sup>*Merial Limited, Duluth, GA*.

2:30 PM 7

**Relationships among genomic polymorphisms of bovine CYP3A28, body condition score, and productivity of Brahman-influenced cows.**

A. Moubarak<sup>\*1</sup>, T. Killian<sup>1</sup>, M. Looper<sup>2</sup>, R. Okimoto<sup>3</sup>, and C. Rosenkrans<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*USDA,ARS, Booneville, AR*, <sup>3</sup>*Cobb-Vantress, Siloam Springs, AR*.

2:45 PM 8

**Relationships among bovine heat shock protein 70 genotype, forage type, and plasma concentrations of HSP-70.**

I. Nabhan<sup>\*1</sup>, M. Lamb<sup>1</sup>, S. Reiter<sup>1</sup>, R. Okimoto<sup>2</sup>, M. Brown<sup>3</sup>, H. Brown, Jr.<sup>1</sup>, and C. Rosenkrans, Jr.<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville*, <sup>2</sup>*Cobb-Vantress, Siloam Springs, AR*, <sup>3</sup>*USDA/ARS, El Reno, OK*.

3:00 PM 9

**Porcine reproductive and respiratory syndrome (PRRS) viral proteins GP5 and M interact with host membrane fusion protein Snapin.**

V. Rilington<sup>\*1</sup>, D. Yoo<sup>2</sup>, and H. C. Liu<sup>1</sup>, <sup>1</sup>*North Carolina State University, Raleigh*, <sup>2</sup>*University of Illinois, Urbana*.

**Physiology 1**

Chair: Brian Rude

Mississippi State University

Conference Center Dallas Ballroom D1

1:00 PM 58

**Do light and temperature truly affect semen quality in all species?**

J. Weathers<sup>\*</sup>, H. Goolsby, J. Smith, L. Penrose, and S. Prien, *Texas Tech University, Lubbock*.

1:15 PM 59

**Effects of dietary supplementation with an organic source of selenium on semen characteristics in boars.**

M. J. Estienne\*, S. M. Speight, and A. F. Harper, *Virginia Polytechnic Institute and State University, Blacksburg.*

1:30 PM 60

**Use of a new collection vessel to improve post-collection semen parameters.**

W. Langdon\*, J. Weathers, C. Barron, L. Welch, L. Hightower, L. Penrose, and S. Prien, *Texas Tech University, Lubbock.*

1:45 PM 61

**Effects of penicillamine, hypotaurine and epinephrine (PHE) on post-thaw bovine sperm parameters, as measured by computer-assisted sperm analysis.**

C. N. Person, T. D. Lester, M. D. Person, and R. W. Rorie\*, *University of Arkansas, Fayetteville.*

2:00 PM 62

**Effects of an extender containing a novel protein source on semen quality.**

L. Penrose\*, K. Evenson, E. Fernandez, H. Goolsby, M. Seller, A. Skillern, J. Weathers, and S. Prien, *Texas Tech University, Lubbock.*

2:15 PM 63

**Influence of endophyte-infected fescue on semen characteristics of Brahman-influenced bulls.**

M. L. Looper\*<sup>1</sup>, R. W. Rorie<sup>2</sup>, C. N. Person<sup>2</sup>, M. D. Person<sup>2</sup>, T. D. Lester<sup>2</sup>, and C. F. Rosenkrans, Jr.<sup>2</sup>, <sup>1</sup>*USDA-ARS, Booneville, AR*, <sup>2</sup>*University of Arkansas, Fayetteville.*

2:30 PM 64

**Evaluation of PG type and two progestogen based estrous synchronization programs in suckled postpartum *Bos indicus* x *Bos taurus* cows.**

E. N. McKinniss\*, R. D. Esterman, S. A. Woodall, B. R. Austin, G. Hansen, and J. V. Yelich, *University of Florida, Gainesville.*

2:45 PM 65

**Day of the estrous cycle (DOC) at initiation of a Select Synch + CIDR<sup>®</sup> synchronization**

**protocol affects protocol response in suckled Angus (AN) and Brangus (BN) cows.**  
R. D. Esterman\*, B. R. Austin, S. A. Woodall, E. N. McKinniss, and J. V. Yelich, *University of Florida, Gainesville.*

3:00 PM **Break.**

3:15 PM 66  
**The effect of serum supplementation, medium volume, and oil overlay on cleavage and blastocyst formation of bovine embryos cultured in vitro.**  
S. Jung\* and S. T. Willard, *Mississippi State University, Mississippi State.*

3:30 PM 67  
**Effect of antioxidants on *in vitro* production of pig embryos.**  
B. D. Whitaker\* and J. W. Knight, *Virginia Polytechnic Institute and State University, Blacksburg.*

3:45 PM 68  
**A novel approach to the cryopreservation of equine and porcine embryos by vitrification after blastocoelic micromanipulation.**  
L. Ray\*<sup>1</sup>, J. Scherzer<sup>1</sup>, W. Graves<sup>1</sup>, G. Heusner<sup>1</sup>, and J. Coverdale<sup>2</sup>, <sup>1</sup>*University of Georgia, Athens,* <sup>2</sup>*Texas A & M University, College Station.*

4:00 PM 69  
**Development of a rapid automatable test system for determining antimicrobial susceptibility testing *in vitro* using bioluminescent *Salmonella typhimurium*.**  
K. Moulton\*<sup>1</sup>, C. Scanes<sup>2</sup>, S. Willard<sup>1</sup>, D. Moore<sup>1</sup>, S. Laird<sup>1</sup>, A. Harris<sup>1</sup>, K. Necaise<sup>1</sup>, B. McClenton<sup>1</sup>, and P. Ryan<sup>1</sup>, <sup>1</sup>*Mississippi State University, Mississippi State,* <sup>2</sup>*University of Wisconsin at Milwaukee.*

4:15 PM 70  
**Modification of lipid composition of poultry egg from hens fed waterleaf (*Talinum triangulare*) supplements.**  
M. O. Ezekwe\*<sup>1</sup>, F. F. Jeewani<sup>1</sup>, S. A. Besong<sup>2</sup>, and C. Okere<sup>1</sup>, <sup>1</sup>*Alcorn State University, Alcorn State, MS,* <sup>2</sup>*Delaware State University, Dover.*

**Extension/Pastures and Forages/Ruminant  
Animal Production Joint Symposium**

Chair: John Arthington  
University of Florida  
Adam's Mark City View Room 2

1:00 PM

**Invited: Preconditioning Beef Calves in the  
U.S.**

R. H. Pritchard, *South Dakota State University,  
Brookings.*

1:40 PM

**Preconditioning Beef Calves - Southern  
Plains.**

D. L. Lalman, *Oklahoma State University,  
Stillwater.*

2:00 PM

**Preconditioning Beef Calves - Gulf South.**

J. D. Arthington, *University of Florida, Ona.*

2:20 PM

**Preconditioning Beef Calves - Southeast.**

M. H. Poore, *North Carolina State University,  
Raleigh.*

2:40 PM

**Preconditioning Beef Calves.**

Discussion/ Q&A.

**Small Ruminant Production 1: Production  
and Reproduction**

Chair: Bob Godfrey  
University of the Virgin Islands  
Conference Center Dallas Ballroom A2

1:00 PM 108

**The effect of time of day of feeding on  
growth and body temperature of hair sheep  
lambs in the tropics.**

R. W. Godfrey\* and R. C. Ketring, *University of  
the Virgin Islands, Agricultural Experiment  
Station, Kingshill, VI.*

1:15 PM 109

**Growth of lambs and meat goat kids grazing warm season grasses with or without protein supplement.**

S. R. Nusz<sup>1</sup>, E. L. Walker<sup>2</sup>, and M. A. Brown<sup>3</sup>,  
<sup>1</sup>*Redlands Community College, El Reno, OK,*  
<sup>2</sup>*Missouri State University, Springfield,* <sup>3</sup>*USDA-ARS, El Reno, OK.*

1:30 PM 110

**Endophyte-infected tall fescue affects intake-equalized weight gain in yearling meat goat does.**

R. Browning, Jr.\*, B. Donnelly, L. Moore, and J. Carlise, *Tennessee State University, Nashville.*

1:45 PM 111

**Prediction of dietary crude protein in sheep and goats with near infrared reflectance spectroscopy of feces (FNIRS): An independent validation.**

D. R. Tolleson\*, S. D. Prince, K. K. Banik, K. L. Rater, and E. J. Earlywine, *Texas A&M University, College Station.*

2:00 PM 112

**Assessing the potential of mixed grazing goats with beef cattle to increase the utilization of marginal pasturelands in Virginia.**

D. M. Webb\*, A. O. Abaye, C. Teutsch, and G. Scaglia, *Virginia Polytechnic Institute and State University, Blacksburg.*

2:15 PM 113

**The effect of breed type and year on real-time ultrasound carcass traits, performance and scrotal circumference of bucks enrolled in the Kentucky Buck Development Program.**

K. May\*, B. Galbreath, R. Pitzer, P. Prater, and T. Wistuba, *Morehead State University, Morehead, KY.*

2:30 PM 114

**Carcass composition of Polypay versus White Dorper x Polypay crossbred lambs.**

D. K. Aaron\*, D. G. Ely, E. Fink, B. T. Burden, and M. M. Simpson, *University of Kentucky, Lexington.*

2:45 PM 115

**Induced copper deficiency by elevated molybdenum on growth performance and carcass characteristics of goat kids.**

K. Begesse\*, S. Solaiman, S. Roper, N. Gurung, and K. Copedge, *Tuskegee University, Tuskegee, AL.*

3:00 PM **Break.**

3:15 PM 116

**Effectiveness of Regumate in synchronizing and inducing out-of-season breeding in goats.**

J. L. Eierman\*<sup>1</sup>, R. A. Barczewski<sup>1</sup>, N. C. Whitley<sup>2</sup>, and D. J. Jackson<sup>1</sup>, <sup>1</sup>*Delaware State University, Dover*, <sup>2</sup>*University of Maryland Eastern Shore, Princess Anne.*

3:30 PM 117

**Use of short-duration progestagen treatment combined with prostaglandin to synchronize estrus in hair sheep ewes.**

S. Wildeus and J. R. Collins\*, *Virginia State University, Petersburg.*

3:45 PM 118

**Sperm motility, viability, and fertility of sheep and goat semen after extended solid storage at 4°C.**

S. Wildeus\*, J. L. Mook, and J. R. Collins, *Virginia State University, Petersburg.*

4:00 PM 119

**Effect of egg yolk level, washing and extended pre-freeze equilibration on post-thaw motility of buck semen.**

J. L. Mook\* and S. Wildeus, *Virginia State University, Petersburg.*

**Undergraduate Student Competition**

Chair: Michelle R Garcia, Texas A&M-Kingsville  
Conference Center Dallas Ballroom B

1:00 PM 132

**Fabrication method of the *infraspinatus* muscle affects WBSF.**

C. A. Ahrens\*, J. W. S. Yancey, and J. K. Apple, *University of Arkansas, Fayetteville.*

1:15 PM 133

**Characterization of a QTL for disposition on BTA8.**

C. R. Boldt\*, C. A. Abbey, and C. A. Gill, *Texas A&M University, College Station.*

1:30 PM 134

**Determining ruminant dietary overlap via near-infrared reflectance spectroscopy (NIRS) of feces: I. calibration development.**

K. L. Rater\*, S. D. Prince, D. R. Tolleson, E. J. Earlywine, K. G. Kreuger, K. K. Banik, and J. C. Miller, *Texas A&M University, College Station.*

1:45 PM 135

**Determining ruminant dietary overlap via near-infrared reflectance spectroscopy (NIRS) of feces: II. Field application.**

E. J. Earlywine\*, D. R. Tolleson, S. D. Prince, K. L. Rater, J. C. Miller, M. J. Kennedy, W. R. Shaw, B. R. Thomas, and T. A. Brown, *Texas A&M University, College Station.*

2:00 PM 136

**Changes in thermal gradients of the external genitalia of neonatal pigs after oral exposure to soy-derived phytoestrogen genistein and estradiol.**

W. C. Brookshire<sup>1</sup>, K. W. Necaise<sup>1</sup>, K. Moulton<sup>1</sup>, D. L. Christiansen<sup>1</sup>, M. Crenshaw<sup>1</sup>, C. G. Scanes<sup>2</sup>, and P. L. Ryan<sup>1</sup>, <sup>1</sup>*Mississippi State University, Mississippi State*, <sup>2</sup>*University of Wisconsin at Milwaukee.*

2:15 PM 137

**Breed of sire, but not feeding program, affects circulating concentrations of leptin in pigs.**

K. A. Alberti\*, M. J. Estienne, and A. F. Harper, *Virginia Polytechnic Institute and State University, Blacksburg.*

2:30 PM 138

**Agroforestry utilization of goats and sheep for brush and weed control in forests.**

J. F. Guay, E. A. Callahan\*, and Y. Sato, *Berry College, Mount Berry, GA.*

2:45 PM 139

**Severe copper deficiency combined with high dietary manganese does not affect bovine prion characteristics.**

C. P. McAdams\*, S. L. Hansen, J. W. Spears, and H. C. Liu, *North Carolina State University, Raleigh.*

3:00 PM **Break.**

3:15 PM 140

**The effect of Bovine Leukosis Virus infection on the proportion among bovine leukocyte populations in the blood of cows.**

S. Touroo\*, E. Carson, B. Lewis, B. Galbreath, K. Peterson, P. Prater, and T. Wistuba, *Morehead State University, Morehead, KY.*

3:30 PM 141

**Relationships among lactate dehydrogenase activities, isoenzyme patterns, and hematological values in resting Thoroughbred and Miniature horses.**

H. Minard\*, C. Bokina, K. Jogan, S. Reiter, and C. Rosenkrans, Jr., *University of Arkansas, Fayetteville.*

3:45 PM 142

**Identification of genomic polymorphisms in upstream elements of the bovine CYP3A28 gene.**

K. Murphy\*<sup>1</sup>, S. Reiter<sup>1</sup>, M. Brown<sup>2</sup>, R. Okimoto<sup>3</sup>, H. Brown, Jr.<sup>1</sup>, and C. Rosenkrans, Jr.<sup>1</sup>,  
<sup>1</sup>*University of Arkansas, Fayetteville,*  
<sup>2</sup>*USDA/ARS, El Reno, OK,* <sup>3</sup>*Cobb-Vantress, Siloam Springs, AR.*

**Pastures and Forages 1**

Chair: Stacey Gunter, University of Arkansas  
Adam's Mark City View Room 3

3:30 PM 42

**Tifton 85 bermudagrass and supplemental corn gluten for direct harvest off-pasture of Bonsmara and Simmental crossbred steers.**

F. M. Rouquette, Jr.\*<sup>1</sup>, T. D. A. Forbes<sup>2</sup>, B. G. Warrington<sup>2</sup>, J. W. Holloway<sup>2</sup>, K. R. Hawks<sup>3</sup>, R. K. Miller<sup>3</sup>, and C. R. Long<sup>1</sup>, <sup>1</sup>*Texas Agricultural Experiment Station, Overton,* <sup>2</sup>*Texas Agricultural*

*Experiment Station, Uvalde,* <sup>3</sup>*Texas A&M University, College Station.*

3:45 PM 43

**Effect of corn supplementation on pasture performance and carcass characteristics of cross-bred Bonsmara steers grazing winter annual pasture.**

T. D. A. Forbes<sup>\*1</sup>, F. M. Rouquette<sup>2</sup>, B. G. Warrington<sup>1</sup>, K. R. Hawks<sup>3</sup>, R. K. Miller<sup>3</sup>, and J. W. Holloway<sup>1</sup>, <sup>1</sup>*Texas Agricultural Experiment Station, Uvalde,* <sup>2</sup>*Texas Agricultural Experiment Station, Overton,* <sup>3</sup>*Texas Agricultural Experiment Station, College Station.*

4:00 PM 44

**Evaluation of feeding systems for finishing beef cattle.**

J. D. Shockey\*, S. A. Gunter, P. A. Beck, and J. A. Apple, *University of Arkansas Division of Agriculture, Hope.*

4:15 PM 45

**Performance of finishing steers in drylot or on ryegrass pasture.**

V. A. Corriherr\*, G. M. Hill, and B. G. Mullinix, *University of Georgia, Tifton.*

**Ruminant Animal Production 1**

Chair: Jason Rowntree

Louisiana State University Agricultural Center  
Adam's Mark City View Room 2

3:30 PM 84

**Effects of two commercially available modified live virus vaccines on carcass traits of beef steers.**

W. J. Horne<sup>\*1</sup>, K. S. Barling<sup>2</sup>, S. F. Cunningham<sup>1</sup>, D. S. Hale<sup>1</sup>, A. D. Herring<sup>1</sup>, J. F. Hudek<sup>1</sup>, D. K. Lunt<sup>3</sup>, J. W. Savell<sup>1</sup>, A. Thomas<sup>2</sup>, and J. E. Sawyer<sup>1</sup>, <sup>1</sup>*Texas A&M University, College Station,* <sup>2</sup>*Novartis Animal Health US, Inc, Larchwood, IA,* <sup>3</sup>*McGregor Agricultural Research Center, McGregor, TX.*

3:45 PM 85

**Effect of dietary boron on physiological responses in growing steers inoculated with bovine herpesvirus type-1.**

R. S. Fry\*, T. T. Brown, Jr., K. E. Lloyd, S. L. Hansen, L. R. Legleiter, W. P. Robarge, and J. W. Spears, *North Carolina State University, Raleigh.*

4:00 PM 86

**Water intake and factors affecting water intake in growing beef cattle.**

M. N. Brew\*<sup>1</sup>, R. O. Myer<sup>2</sup>, J. N. Carter<sup>2</sup>, and G. R. Hansen<sup>2</sup>, <sup>1</sup>*University of Florida, Gainesville,* <sup>2</sup>*North Florida Research and Education Center, Marianna.*

4:15 PM 87

**Actual versus predicted water intake in growing beef cattle.**

M. N. Brew\*<sup>1</sup>, R. O. Myer<sup>2</sup>, J. N. Carter<sup>2</sup>, and G. R. Hansen<sup>2</sup>, <sup>1</sup>*University of Florida, Gainesville,* <sup>2</sup>*North Florida Research and Education Center, Marianna.*

SS-ASAS Business Mtg.

& Awards Program

5:00 PM — 7:00 PM

Conference Center

Dallas Ballroom B

**Tuesday, February 5**

**Meats**

Chair: Chance Brooks, Texas Tech University  
Conference Center Dallas Ballroom D1

8:00 AM 40

**Has quality grade declined?**

R. D. Rhoades\*, J. E. Sawyer, A. D. Herring, and D. P. Anderson, *Texas A&M University, College Station.*

8:15 AM 41

**Consumer preferences in purchasing beef and values they attribute to branded beef products.**

M. M. Beverly\* and R. D. Hanagriff, *Sam Houston State University, Huntsville, TX.*

## Pastures and Forages 2

Chair: John Arthington  
University of Florida - Ona  
Conference Center Dallas Ballroom B

8:00 AM 46

### **Evaluation of forage sampling method and characterization of chemical composition of subtropical forages selected by grazing cattle.**

A. Hughes\* and M. Hersom, *University of Florida, Gainesville.*

8:15 AM 47

### **Urea and(or) feather meal supplementation for yearling steers grazing limpoglass (Hemarthria altissima var. 'Floralta') pasture.**

W. F. Brown\*<sup>1</sup>, M. B. Adjei<sup>2</sup>, and J. D. Arthington<sup>2</sup>, <sup>1</sup>*University of Florida, Gainesville,* <sup>2</sup>*University of Florida, Ona.*

8:30 AM 48

### **Effect of stocking rate and cottonseed cake supplementation on stocker cattle grazing bermudagrass.**

M. S. Gadberry\*<sup>1</sup>, P. Beck<sup>2</sup>, T. Hess<sup>3</sup>, D. Hubbell, III<sup>3</sup>, J. W. Butterbaugh<sup>4</sup>, B. C. Rudolph<sup>4</sup>, and M. Smith<sup>4</sup>, <sup>1</sup>*University of Arkansas, Cooperative Extension Service, Little Rock,* <sup>2</sup>*Southwest Research and Extension Center, Hope,* <sup>3</sup>*Livestock and Forestry Branch Station, Batesville,* <sup>4</sup>*Furst-McNess, Freeport, IL.*

8:45 AM 49

### **Coastcross II, Russell, and Tifton 85 bermudagrass hay intake and digestion by steers.**

G. M. Hill\*<sup>1</sup>, W. F. Anderson<sup>2</sup>, D. J. Renney<sup>1</sup>, S. V. Tucker<sup>1</sup>, and B. G. Mullinix, Jr.<sup>1</sup>, <sup>1</sup>*University of Georgia, Tifton,* <sup>2</sup>*USDA-ARS, Tifton, GA.*

9:00 AM 50

### **Post-weaning performance of spring-born calves weaned from tall fescue pastures with a wild-type toxic endophyte or a non-toxic novel endophyte.**

K. Coffey\*<sup>1</sup>, W. Coblenz<sup>2</sup>, J. Caldwell<sup>1</sup>, D. Hubbell, III<sup>1</sup>, T. Hess<sup>1</sup>, C. West<sup>1</sup>, M. Loooper<sup>3</sup>, C. Krehbiel<sup>4</sup>, and C. Rosenkrans<sup>1</sup>, <sup>1</sup>*University of Arkansas, Fayetteville,* <sup>2</sup>*USDA-ARS, Marshfield,*

WI, <sup>3</sup>USDA-ARS, Booneville, AR, <sup>4</sup>Oklahoma State University, Stillwater.

9:15 AM 51

**Evaluation of toxic and non-toxic endophyte-infected tall fescue on growth rate and grazing behavior of beef heifers.**

C. R. Bailey\*<sup>1</sup>, M. L. Looper<sup>2</sup>, K. P. Coffey<sup>3</sup>, and C. F. Rosenkrans, Jr.<sup>3</sup>, <sup>1</sup>Arkansas Tech University, Russellville, <sup>2</sup>USDA-ARS, Booneville, AR, <sup>3</sup>University of Arkansas, Fayetteville.

9:30 AM 52

**Effect of rotational or continuous grazing strategy of winter pasture on beef heifer and forage performance.**

D. Skeans\*, J. Rowntree, G. Gentry, K. Guidry, and G. Lum, Louisiana State University Agricultural Center, Baton Rouge.

9:45 AM 53

**Effect of establishment method and stocking rate on performance of calves grazing small grain pasture.**

P. Beck, M. Morgan\*, S. Gadberry, S. Gunter, T. Hess, and D. Hubbell, University of Arkansas Division of Agriculture, Little Rock.

10:00 AM **Break.**

10:15 AM 54

**Impact of substituting perennial cool-season grasses for winter wheat on stocker performance.**

W. A. Phillips\*<sup>1</sup>, B. K. Northup<sup>1</sup>, B. C. Venuto<sup>1</sup>, and G. W. Horn<sup>2</sup>, <sup>1</sup>USDA-ARS, El Reno, OK, <sup>2</sup>Oklahoma Agricultural Experiment Station, Stillwater.

10:30 AM 55

**Comparison of poured protein block supplement and whole cottonseed fed with hay to beef cows during winter.**

G. M. Hill\*<sup>1</sup>, M. H. Poore<sup>3</sup>, M. E. Pence<sup>2</sup>, S. V. Tucker<sup>1</sup>, D. J. Renney<sup>1</sup>, and B. G. Mullinix, Jr.<sup>1</sup>, <sup>1</sup>University of Georgia, Tifton, <sup>2</sup>University of Georgia Veterinary Diagnostic Center, Tifton, <sup>3</sup>North Carolina State University, Raleigh.

10:45 AM 56

**Effects of stage of maturity at harvest and hybrid on production characteristics of corn silage.**

R. Pitzer\*, B. Rogers, H. Nauman, B. Galbreath, J. Willard, and T. Wistuba, *Morehead State University, Morehead, KY.*

11:00 AM 57

**Fecal-near infrared reflectance spectroscopy (NIRS) calibrations for predicting fecal output of donkeys.**

N. Kidane\*, J. Stuth, and D. Tolleson, *Texas A & M University, College Station.*

**Physiology 2**

Chair: Scott Willard

Mississippi State University

Conference Center Dallas Ballroom A1

8:00 AM 71

**Use of unique collection device improves conception rates of Angus based heifers.**

K. Evenson\*, L. Penrose, J. Weathers, J. Clay, and S. Prien, *Texas Tech University, Lubbock.*

8:15 AM 72

**Effects of Max-Q or KY-31 fescue pastures on development and pregnancy rates in replacement beef heifers.**

A. G. Liles\*, S. P. Greiner, L. Wright, and J. B. Hall, *Virginia Polytechnic Institute and State University, Blacksburg.*

8:30 AM 73

**Effects of bovine somatotropin and suckling on ovarian follicles, reproductive performance and concentrations of ghrelin, GH, and IGF-I in postpartum Brahman-influenced cows.**

R. Flores\*<sup>1</sup>, M. L. Looper<sup>2</sup>, R. W. Rorie<sup>3</sup>, C. R. Bailey<sup>4</sup>, D. M. Hallford<sup>5</sup>, S. T. Reiter<sup>3</sup>, and C. F. Rosenkrans, Jr.<sup>3</sup>, <sup>1</sup>*University of Arkansas for Medical Sciences, Little Rock*, <sup>2</sup>*USDA-ARS, Booneville, AR*, <sup>3</sup>*University of Arkansas, Fayetteville*, <sup>4</sup>*Arkansas Tech University, Russellville*, <sup>5</sup>*New Mexico State University, Las Cruces.*

8:45 AM 74

**Influence of body condition and forage type on estrus, intramuscular and rib fat, and reproductive performance of postpartum Brahman-influenced cows.**

M. L. Looper\*<sup>1</sup>, S. T. Reiter<sup>2</sup>, S. Nabhan<sup>2</sup>, R. Flores<sup>3</sup>, C. R. Bailey<sup>4</sup>, A. H. Brown, Jr.<sup>2</sup>, and C. F. Rosenkrans, Jr.<sup>2</sup>, <sup>1</sup>USDA-ARS, Booneville, AR, <sup>2</sup>University of Arkansas, Fayetteville, <sup>3</sup>University of Arkansas for Medical Sciences, Little Rock, <sup>4</sup>Arkansas Tech University, Russellville.

9:00 AM 75

**Effects of heat stress on gestation length of beef cows.**

E. C. Wright\*, M. J. Prado-Cooper, N. M. Long, and R. P. Wettemann, *Oklahoma Agricultural Experiment Station, Stillwater.*

9:15 AM 76

**Relationship of rumen temperature of beef cows to parturition and estrus.**

M. J. Prado-Cooper\*, N. M. Long, E. C. Wright, C. J. Richards, and R. P. Wettemann, *Oklahoma Agricultural Experiment Station, Stillwater.*

9:30 AM 77

**Relationship of cortisol and immunoglobulin G concentrations to temperament and growth performance in beef calves.**

K. R. Parker\*<sup>1</sup>, A.N. Musselwhite<sup>2</sup>, S. T. Willard<sup>2</sup>, R. D. Randel<sup>3</sup>, T. H. Welsh<sup>4</sup>, and R.C. Vann<sup>1</sup>, <sup>1</sup>MAFES-Brown Loam Experiment Station, Raymond, MS, <sup>2</sup>Mississippi State University, Mississippi State, <sup>3</sup>Texas A & M University Agriculture Research and Extension Center, Overton, <sup>4</sup>Texas A & M University, College Station.

9:45 AM 78

**Relationship between residual feed intake and age at puberty in Brahman bulls.**

N. D. Ramirez\*<sup>1</sup>, D. A. Neuendorff<sup>3</sup>, A. W. Lewis<sup>3</sup>, S. T. Willard<sup>4</sup>, T. D. A. Forbes<sup>5</sup>, R. L. Stanko<sup>1,2</sup>, and R. D. Randel<sup>3</sup>, <sup>1</sup>Texas A&M University-Kingsville, <sup>2</sup>Texas A&M University Agricultural Research Station, Beeville, <sup>3</sup>Texas A&M University Agricultural Research and Extension Center, Overton, <sup>4</sup>Mississippi State University, Mississippi State, <sup>5</sup>Texas A&M

*University Agricultural Research and Extension  
Center, Uvalde.*

10:00 AM **Break.**

10:15 AM 79

**Genetic influences on the bovine acute  
phase protein response following an  
endotoxin challenge.**

J. A. Carroll<sup>1</sup>, J. D. Arthington<sup>2</sup>, C. C. Chase,  
Jr.<sup>3</sup>, S. W. Coleman<sup>3</sup>, D. G. Riley<sup>3</sup>, D. E. Spiers<sup>4</sup>,  
and R. R. Reuter<sup>5</sup>, <sup>1</sup>*USDA-ARS, Lubbock, TX,*  
<sup>2</sup>*University of Florida-IFAS, Ona,* <sup>3</sup>*USDA-ARS,*  
*Brooksville, FL,* <sup>4</sup>*University of Missouri,*  
*Columbia,* <sup>5</sup>*The Noble Foundation, Inc.,*  
*Ardmore, OK.*

10:30 AM 80

**Evaluation of stress in horses in  
hippotherapy programs.**

A. A. Pyle, H. A. Brady\*, J. J. McGlone, L. D.  
Thompson, and D. E. Lawver, *Texas Tech*  
*University, Lubbock.*

10:45 AM 81

**Relationships between plasma proteins and  
hematological values in Thoroughbred and  
Miniature horses.**

C. Bokina\*, K. Jogan, and C. Rosenkrans, Jr.,  
*University of Arkansas, Fayetteville.*

11:00 AM 82

**IGF-I dependent gene expression in cultured  
porcine granulosa cells.**

J. A. Grado-Ahuir\*, P. Y. Aad, L. Hulsey, D.  
Lagaly, and L. J. Spicer, *Oklahoma State*  
*University, Stillwater.*

11:15 AM 83

**Effects of soy-derived phytoestrogen and  
estradiol exposure on reproductive  
development in neonatal pigs: a model for  
infants fed soy-based formula.**

K. Necaie<sup>1</sup>, K. Moulton<sup>1</sup>, D. Christiansen<sup>1</sup>, M.  
Crenshaw<sup>1</sup>, C. Scanes<sup>2</sup>, and P. Ryan<sup>1</sup>,  
<sup>1</sup>*Mississippi State University, Mississippi State,*  
<sup>2</sup>*University of Wisconsin at Milwaukee.*

## **Ruminant Animal Production 2**

Chair: Gordon Carstens, Texas A&M University  
Conference Center Dallas Ballroom C

8:00 AM 88

### **Relative value of five byproducts as supplements to stocker cattle.**

E. M. Whitley, R. R. Reuter\*, and J. T. Biermacher, *The Noble Foundation, Agricultural Division, Ardmore, OK.*

8:15 AM 89

### **Level of cottonseed cake supplementation for beef calves fed tall fescue hay.**

P. Beck\*<sup>1</sup>, M. Morgan<sup>1</sup>, S. Gadberry<sup>1</sup>, T. Hess<sup>1</sup>, D. Hubbell<sup>1</sup>, B. Rudolph<sup>2</sup>, M. Smith<sup>2</sup>, and J. Butterbaugh<sup>2</sup>, <sup>1</sup>*University of Arkansas Division of Agriculture, Little Rock, AR, USA*, <sup>2</sup>*Furst-McNess Company, Freeport, IL, USA.*

8:30 AM 90

### **Frequency of supplementation with a mix of soyhulls and corn gluten feed does not affect performance of growing cattle fed a hay based diet.**

M. E. Drewnoski\*, M. H. Poore, and G. A. Benson, *North Carolina State University, Raleigh.*

8:45 AM 91

### **Effects of supplementation frequency on development of yearling Brahman-crossbred heifers: I. Performance, reproductive, and physiological responses.**

R. F. Cooke\*<sup>1,2</sup>, D. B. Araujo<sup>1,2</sup>, A. D. Ealy<sup>2</sup>, and J. D. Arthington<sup>1</sup>, <sup>1</sup>*University of Florida-IFAS, Ona*, <sup>2</sup>*University of Florida-IFAS, Gainesville.*

9:00 AM 92

### **Effects of supplementation frequency on development of yearling Brahman-crossbred heifers: II. Liver and muscle gene expression.**

R. F. Cooke\*<sup>1,2</sup>, D. B. Araujo<sup>1,2</sup>, A. D. Ealy<sup>2</sup>, and J. D. Arthington<sup>1</sup>, <sup>1</sup>*University of Florida-IFAS, Ona*, <sup>2</sup>*University of Florida-IFAS, Gainesville.*

9:15 AM 93

### **Effects of supplementation frequency on gene expression and physiological responses of Brahman-crossbred cows.**

R. F. Cooke<sup>\*1,2</sup>, D. B. Araujo<sup>1,2</sup>, A. D. Ealy<sup>2</sup>, G. C. Lamb<sup>3</sup>, and J. D. Arthington<sup>1</sup>, <sup>1</sup>*University of Florida-IFAS, Ona*, <sup>2</sup>*University of Florida-IFAS, Gainesville*, <sup>3</sup>*University of Minnesota, Grand Rapids*.

9:30 AM 94

**Relationships between residual feed intake and apparent nutrient digestibility in growing calves.**

W. K. Krueger<sup>\*1</sup>, G. E. Carstens<sup>1</sup>, P. A. Lancaster<sup>1</sup>, L. J. Slay<sup>1</sup>, J. C. Miller<sup>1</sup>, and T. D. A. Forbes<sup>2</sup>, <sup>1</sup>*Texas A&M University, College Station*, <sup>2</sup>*Texas Agricultural Experiment Station, Uvalde, TX*.

9:45 AM 95

**Predicting back fat thickness in beef cattle using A-mode ultrasound technology.**

W. A. Phillips<sup>\*1</sup>, S. W. Coleman<sup>2</sup>, C. C. Chase, Jr.<sup>2</sup>, and D. G. Riley<sup>2</sup>, <sup>1</sup>*USDA-ARS, El Reno, OK*, <sup>2</sup>*USDA-ARS, Brooksville, FL*.

10:00 AM **Break.**

10:15 AM 96

**Relationship between body fat deposition and postweaning growth in beef steers.**

C. H. Ponce<sup>\*</sup>, R. D. Rhoades, F. R. Ribeiro, D. K. Lunt, S. B. Smith, and J. E. Sawyer, *Texas A&M University, College Station*.

10:30 AM 97

**Effects of forage type and anabolic implantation of steers on growth and subsequent carcass characteristics.**

C. R. Bailey<sup>\*1</sup>, M. L. Looper<sup>2</sup>, A. H. Brown, Jr.<sup>3</sup>, and C. F. Rosenkrans, Jr.<sup>3</sup>, <sup>1</sup>*Arkansas Tech University, Russellville*, <sup>2</sup>*USDA-ARS, Booneville, AR*, <sup>3</sup>*University of Arkansas, Fayetteville*.

10:45 AM 98

**Effects of feeding whole cottonseed on ultrasonic body composition measures in beef cows.**

T. L. Perkins<sup>\*</sup> and J. Buck, *Missouri State University, Springfield*.

11:00 AM 99

**Dietary energy source impact on in vitro substrate utilization and dose response to**

**insulin additions of subcutaneous adipose tissue of Angus steers.**

R. D. Rhoades\*, J. E. Sawyer, C. H. Ponce, D. K. Lunt, and S. B. Smith, *Texas A&M University, College Station.*

11:15 AM 100

**Effect of dietary energy source during backgrounding on in vitro substrate utilization and insulin sensitivity of adipose tissue of Angus steers.**

R. D. Rhoades\*, C. H. Ponce, F. R. B. Ribeiro, D. K. Lunt, S. B. Smith, and J. E. Sawyer, *Texas A&M University, College Station.*

**Small Ruminant Production 2: Internal Parasites**

Chair: Bob Godfrey  
University of the Virgin Islands  
Conference Center Dallas Ballroom A2

8:00 AM 120

**Evaluation of average fiber diameter of mohair fleeces prior to shearing using a field-portable Near-infrared Reflectance Spectroscopy instrument.**

S. D. Prince\*<sup>1</sup>, D. R. Tolleson<sup>1</sup>, C. J. Lupton<sup>2</sup>, J. W. Walker<sup>2</sup>, K. L. Rater<sup>1</sup>, and E. E. Wiedower<sup>1</sup>,  
<sup>1</sup>*Texas A&M University, College Station*, <sup>2</sup>*Texas A&M University System, San Angelo.*

8:15 AM 121

**Use of the FAMACHA system to evaluate gastrointestinal nematode resistance in offspring of Katahdin rams.**

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

8:30 AM 122

**On-farm integrated management of Katahdin lambs for gastrointestinal nematodes (GIN).**

A. Wells<sup>1</sup>, P. Casey\*<sup>2</sup>, J. Burke<sup>3</sup>, J. Miller<sup>4</sup>, and C. Trice<sup>2</sup>, <sup>1</sup>*Springpond Holistic Animal Health, Prairie Grove, AR*, <sup>2</sup>*Heifer International, Perryville, AR*, <sup>3</sup>*USDA, ARS, Booneville, AR*, <sup>4</sup>*Louisiana State University AgCenter, Baton Rouge.*

8:45 AM 123

**Evaluation of parasite load in hair- or wool-type lambs on drylot or wheat pasture.**

L. A. Appeddu\*<sup>1</sup>, G. Poudyal<sup>1</sup>, A. Hughes<sup>1</sup>, M. A. Brown<sup>2</sup>, and S. P. Hart<sup>3</sup>, <sup>1</sup>*Southwestern Oklahoma State University, Weatherford*, <sup>2</sup>*USDA-ARS, El Reno, OK*, <sup>3</sup>*E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK*.

9:00 AM 124

**Effect of vaccinating grazing ewes with H-11/H-gal-GP antigens from intestinal membrane cells on established *Haemonchus contortus* infection.**

J. E. Miller\*<sup>1</sup>, K. P. Shakya<sup>1</sup>, and W. D. Smith<sup>2</sup>, <sup>1</sup>*Louisiana State University AgCenter, Baton Rouge*, <sup>2</sup>*Moredun Research Institute, Edinburgh, Scotland, UK*.

9:15 AM 125

**The effect of sericea lespedeza, fed as pellets, on established infection of *Haemonchus contortus* in sheep.**

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

9:30 AM 126

**Use of sericea lespedeza hay to reduce worm burden in goats.**

S. A. Shaik\*<sup>1</sup>, T. H. Terrill<sup>1</sup>, J. A. Mosjidis<sup>2</sup>, G. S. Dykes<sup>1</sup>, J. E. Miller<sup>3</sup>, B. Kouakou<sup>1</sup>, G. Kannan<sup>1</sup>, and J. M. Burke<sup>4</sup>, <sup>1</sup>*Fort Valley State University, Fort Valley, GA*, <sup>2</sup>*Auburn University, Auburn, AL*, <sup>3</sup>*Louisiana State University AgCenter, Baton Rouge*, <sup>4</sup>*USDA, ARS, Booneville, AR*.

9:45 AM 127

**Control of *Haemonchus contortus* infestation in ewes with copper sulfate.**

M. M. Simpson\*, D. K. Aaron, E. Fink, B. T. Burden, and D. G. Ely, *University of Kentucky, Lexington*.

10:00 AM **Break.**

10:15 AM 128

**Comparison of sheep and goats for efficacy of copper oxide wire particles against gastrointestinal nematodes.**

F. A. Soli\*<sup>1</sup>, T. H. Terrill<sup>1</sup>, W. R. Getz<sup>1</sup>, S. A. Shaik<sup>1</sup>, M. Vanguru<sup>1</sup>, A. K. Vuggam<sup>1</sup>, J. E. Miller<sup>2</sup>, and J. M. Burke<sup>3</sup>, <sup>1</sup>*Fort Valley State University, Fort Valley, GA*, <sup>2</sup>*Louisiana State University AgCenter, Baton Rouge*, <sup>3</sup>*USDA, ARS, Booneville, AR*.

10:30 AM 129

**Efficacy of copper oxide wire capsules as an anthelmintic for weanling kids.**

S. Hart\* and Z. Wang, *E. (Kika) de la Garza*  
*American Institute for Goat Research, Langston, OK.*

10:45 AM 130

**Using the FAMACHA<sup>®</sup> system to control internal parasites in meat goats grazing summer pastures.**

S. Schoenian\*<sup>1</sup>, J. Semler<sup>4</sup>, M. B. Bennett<sup>3</sup>, D. L. Jackson<sup>2</sup>, and J. Dietz-Band<sup>5</sup>, <sup>1</sup>*University of Maryland Cooperative Extension, Keedysville*, <sup>2</sup>*Delaware State University, Dover*, <sup>3</sup>*West Virginia University Cooperative Extension, Martinsburg*, <sup>4</sup>*University of Maryland Cooperative Extension, Boonsboro*, <sup>5</sup>*Many Rocks Farm, Keedysville, MD.*

11:00 AM 131

**Herbal dewormer fails to control gastrointestinal nematodes (GIN) in goats.**

A. Wells<sup>1</sup>, P. Casey\*<sup>2</sup>, J. Burke<sup>3</sup>, and R. Kaplan<sup>4</sup>,  
<sup>1</sup>*Springpond Holistic Animal Health, Prairie Grove, AR*, <sup>2</sup>*Heifer International, Perryville, AR*, <sup>3</sup>*USDA, ARS, Booneville, AR*, <sup>4</sup>*University of Georgia, Athens.*

## Extension 1

Chair: David Lalman  
Oklahoma State University  
Conference Center Dallas Ballroom D1

9:00 AM 10

**Effects of dietary supplementation of benzoic, formic, and lactic acids to pig diets on ammonia emission from manure and urine pH.**

S. W. Kim<sup>\*1</sup>, J. O. Vaughn<sup>2</sup>, and D. A. Monson<sup>3</sup>,  
<sup>1</sup>*North Carolina State University, Raleigh*,  
<sup>2</sup>*Emerald Performance Materials, Kalama, WA*,  
<sup>3</sup>*Texas Tech University, Lubbock*.

9:15 AM 11

**Measuring the impact of equine grazing schools.**

S. M. Jones<sup>\*</sup>, J. A. Jennings, R. A. Klerk, and K. Norton, *University of Arkansas, Little Rock*.

9:30 AM 12

**Mississippi Master Stockman: collaborative beef and equine programming-equine emphasis.**

P. R. Buff<sup>\*</sup>, J. A. Parish, and J. D. Rhinehart, *Mississippi State University, Mississippi State*.

9:45 AM 13

**Mississippi Animal Disease and Disaster Preparedness Program.**

J. D. Rhinehart<sup>\*1</sup>, J. Watson<sup>2</sup>, P. R. Buff<sup>1</sup>, and J. A. Parish<sup>1</sup>, <sup>1</sup>*Mississippi State University, Mississippi State*, <sup>2</sup>*Mississippi Board of Animal Health, Jackson, MS*.

10:00 AM 14

**Missouri livestock producers' perceptions of the national animal identification system.**

B. L. Deimeke<sup>\*</sup>, W. D. Walker, C. Levesque-Bristol, and E. L. Walker, *Missouri State University, Springfield*.

10:15 AM 15

**Determining wastage when ground feeding soybean hulls.**

B. M. Nichols<sup>1</sup> and R. S. Wells<sup>\*2</sup>, <sup>1</sup>*Cameron University, Lawton, OK*, <sup>2</sup>*Samuel Roberts Noble Foundation, Ardmore, OK*.

10:30 AM 16

**Free-choice mineral disappearance and projected mineral balance of beef cows consuming bermudagrass and prairie hay.**

C. P. McMurphy\*, D. L. Lalman, S. J. Winterholler, and C. J. Richards, *Oklahoma State University, Stillwater.*

10:45 AM 17

**Corn stover as an emergency feed for beef cows.**

M. H. Poore\*<sup>1</sup>, A. D. Shaeffer<sup>1</sup>, and J. L. Godwin<sup>2</sup>, <sup>1</sup>*North Carolina State University, Raleigh*, <sup>2</sup>*North Carolina Department of Agriculture and Consumer Services, Raleigh.*

11:00 AM 18

**Effect of region of origin, Southeast versus Midwest, on feedlot performance and carcass traits in beef calves.**

W. D. Busby\*<sup>1</sup>, D. Strohbeh<sup>1</sup>, L. R. Corah<sup>2</sup>, and M. E. King<sup>2</sup>, <sup>1</sup>*Iowa State University, Ames*, <sup>2</sup>*Certified Angus Beef LLC, Wooster, OH.*

11:15 AM 19

**Effect of percentage Angus on feedlot performance and carcass traits in beef calves.**

W. D. Busby<sup>1</sup>, L. R. Corah<sup>2</sup>, M. A. McCully\*<sup>2</sup>, and M. E. King<sup>2</sup>, <sup>1</sup>*Iowa State University, Ames*, <sup>2</sup>*Certified Angus Beef LLC, Wooster, OH.*

**Extension Luncheon** Adam's Mark  
11:30 AM – 1:00 PM Majestic Boardroom 1

**Extension 2**

Chair: David Lalman  
Oklahoma State University  
Conference Center Dallas Ballroom D1

1:00 PM 20

**The Virginia Quality Assured (VQA) certified feeder calf program: Ten years of value-added feeder cattle marketing.**

J. B. Hall\*, B. R. McKinnon, W. D. Whittier, and S. P. Greiner, *Virginia Polytechnic Institute and State University, Blacksburg.*

1:15 PM 21

**Improving the efficiency of a beef cow calf operation using IRM principles.**

B. W. Haller\*, J. T. Richeson, B. L. Barham, M. S. Gadberry, J. A. Jennings, and T. R. Troxel, *University of Arkansas, Division of Agriculture, Cooperative Extension Service, Little Rock.*

1:30 PM 22

**Effect of beef cattle production characteristics on rate of adoption.**

J. J. Cleere\*, C. T. Boleman, and K. Merten, *Texas Cooperative Extension, College Station.*

1:45 PM 23

**Beef IQ: A multi-session educational program for Arkansas beef producers.**

B. Barham\*<sup>1</sup>, M. Gadberry<sup>1</sup>, J. Richeson<sup>1</sup>, P. Beck<sup>2</sup>, W. Whitworth<sup>3</sup>, R. Hogan<sup>4</sup>, and J. Powell<sup>5</sup>, <sup>1</sup>*University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock* and <sup>5</sup>*Fayetteville, University of Arkansas Division of Agriculture Research & Extension Center, <sup>2</sup>Hope, <sup>3</sup>Monticello, and <sup>4</sup>Kiser.*

2:00 PM 24

**Mississippi Master Stockman: Collaborative beef and equine programming-beef emphasis.**

J. A. Parish\*, J. D. Rhinehart, and P. R. Buff, *Mississippi State University, Mississippi State.*

2:15 PM 25

**Results of technology questions as part of Master Cattle Producer Survey.**

J. B. Neel\*, A. E. Fisher, W. W. Gill, C. D. Lane, Jr., and F. D. Kirkpatrick, *University of Tennessee, Knoxville.*

### **Ruminant Animal Production 3**

Chair: Jason Rowntree  
Louisiana State University Agricultural Center  
Conference Center Dallas Ballroom C

1:00 PM 101

#### **Feeding value of peanut skins for sheep.**

G. Abdelrahim\*<sup>1</sup>, J. Khatiwad<sup>1</sup>, D. Rankins<sup>2</sup>, and  
N. Gurung<sup>3</sup>, <sup>1</sup>*Alabama A & M University,*

*Normal,* <sup>2</sup>*Auburn University, Auburn, AL,*  
<sup>3</sup>*Tuskegee University, Tuskegee, AL.*

1:15 PM 102

#### **Influence of breed and mineral trough visitation on copper status of beef heifers.**

K. Guidry\*, J. Rowntree, G. Lum, and D.  
Skeans, *Louisiana State University Agricultural  
Center, Baton Rouge.*

1:30 PM 103

#### **Evaluation of external and internal parasite control with spring calving cows and calves.**

S. DeRouen\*<sup>1</sup>, J. Miller<sup>2</sup>, L. Foil<sup>2</sup>, C. Younger<sup>2</sup>,  
G. Gentry<sup>3</sup>, and J. Pitchford<sup>3</sup>, *Louisiana State  
University Agricultural Center,* <sup>1</sup>*Homer,* <sup>2</sup>*Baton  
Rouge,* and <sup>3</sup>*St. Gabriel.*

1:45 PM 104

#### **Factors associated with pregnancy rate in first exposed, crossbred heifers.**

J. G. Powell\*, A. H. Brown, Z. B. Johnson, R. A.  
Rorie, C. A. Tucker, J. L. Reynolds, and J. A.  
Hornsby, *University of Arkansas, Fayetteville.*

2:00 PM 105

#### **Effects of temperature, temperament, and Brahman influence on feedlot performance of weaned heifers wintered on corn silage.**

W. A. Storer\*, F. M. LeMieux, and T. H. Shields,  
*McNeese State University, Lake Charles, LA.*

2:15 PM 106

#### **Relationship of temperament to production traits in a commercial cowherd.**

B. R. Kutz\*<sup>1</sup>, M. L. Buchanan<sup>2</sup>, M. L. Looper<sup>3</sup>, A.  
H. Brown, Jr.<sup>1</sup>, Z. B. Johnson<sup>1</sup>, C. F.  
Rosenkrans<sup>1</sup>, S. T. Reiter<sup>1</sup>, and S. Nabhan<sup>1</sup>,  
<sup>1</sup>*University of Arkansas, Fayetteville,* <sup>2</sup>*Arkansas  
Cooperative Extension Service,* *Van Buren,*  
<sup>3</sup>*USDA/ARS, Booneville, AR.*

2:30 PM 107

**Near infrared reflectance spectroscopy to predict dry matter and organic matter in feedlot manure.**

C. Miller<sup>\*1</sup>, S. Prince<sup>1</sup>, K. Banik<sup>1</sup>, D. Tolleson<sup>1</sup>, A. Graham<sup>2</sup>, M. Kitten<sup>2</sup>, T. Sliffe<sup>3</sup>, R. Taylor<sup>3</sup>, J. Sweeten<sup>4</sup>, and K. Heflin<sup>4</sup>, <sup>1</sup>*Texas A&M University, College Station*, <sup>2</sup>*Panda Hereford Ethanol LP, Hereford, TX*, <sup>3</sup>*Perten Instruments, Springfield, IL*, <sup>4</sup>*Texas Agricultural Experiment Station, Amarillo*.