

SOUTHERN SECTION

**American Society
of Animal Science**

ANNUAL MEETING

February 3-6, 2007
Mobile, Alabama

In conjunction with the 104th
Annual Convention of the Southern Association of Agricultural Scientists

AMERICAN SOCIETY OF ANIMAL SCIENCE OFFICERS 2006-2007

Dr. Maynard G. Hogberg, President
Iowa State University, Ames, IA

Dr. Michael L. Galyean, President-Elect
Texas Tech University, Lubbock, TX

Dr. David S. Buchanan, Past President
Oklahoma State University, Stillwater, OK

Dr. Steven Lonergan, Program Chair
Iowa State University, Ames, IA

Dr. Ronnie D. Green, Recording Secretary
USDA-ARS, Beltsville, MD

Dr. Meghan C. Wulster-Radcliffe, Executive Director
American Society of Animal Science, Savoy, IL

Paula P. Schultz, Associate Executive Director
American Society of Animal Science, Savoy, IL

2006-2007 ASAS SOUTHERN SECTION OFFICERS

Dr. Dale A. Coleman, President
Auburn University, Auburn, AL

Dr. Chadwick C. Chase, Jr., President-Elect
USDA, ARS, STARS, Brooksville, FL

Dr. Elizabeth B. Kegley, Secretary-Treasurer
University of Arkansas, Fayetteville, AR

Dr. David G. Morrison
Secretary-Treasurer-Elect
Louisiana State University, Baton Rouge, LA

Dr. Ronald D. Randel, Past President
Texas A&M University, Overton, TX

**Award Sponsors
2007 Southern Section ASAS**

The Southern Section of the American Society of Animal Science expresses appreciation to the following organizations for financial assistance:

Swine Industry Award for Innovation

National Pork Board
Des Moines, IA

Young Animal Scientist – Research

Elanco Animal Health
Greenfield, IN

Extension Award

Boehringer Ingelheim, Vetmedica Division
St. Joseph, MO

Young Animal Scientist – Education

Undergraduate Paper Competition

Graduate Student Awards Competition

PROGRAM EVENTS

Friday, February 2

Academic Quadrathlon (AQ)
9:00 pm Advisor's Meeting

Auburn, AL

Saturday, February 3

AQ Lab Practicum
7:00 am - Noon

Auburn, AL

AQ Written Exam
1:00 pm - 5:00 pm

Auburn, AL

Sunday, February 4

AQ Oral Presentations
6:30 am - noon

Convention Center
202B, 203A, 203B, 204B

AQ Quiz Bowl
8:00 am – 1:00 pm

Convention Center
West Ballroom

AQ Presentation
8:00 am – noon

Convention Center
Meeting Room 204A

AQ Quiz Bowl Championship
& Awards Program
8:00 am – 4:00 pm

Convention Center
East Ballroom

Registration
11:00 am – 3:30 pm

Convention Center
Concourse Lobby Area

Information Exchange Groups:
IEG-72 Enhancing Reproduction in Cattle
Scott Whisnant, President
1:00 pm - 4:00 pm

Convention Center
Meeting Room 204 B

Southern Extension Research Activity (SERA),
Beef Cattle Production Utilizing Forages
in the Southeast
Wayne Greene, Chair
1:00 pm – 4:00 pm

Convention Center
Meeting Room 203B

IEG - Small Ruminant Production,
Steve Hart, Chair
1:00 pm - 4:00 pm

Convention Center Meeting Room 203 A

ARPAS Exam
2:00 pm - 4:00 pm

Convention Center
Admin Conference Room - SMG

SAAS Opening Session
3:30 pm - 5:00 pm

Convention Center
West Ballroom

The Southern Agricultural Economics Association has agreed to handle the Opening Session on Immigration Policy. The Immigration Policy session includes nationally recognized scholars to address timely issues with regards to immigration, proposed policy changes (or recently implemented ones, depending on actions taken by the government in coming months) and their impact on southern agriculture and agribusiness.

SAAS Super Bowl Party/Reception
5:00 pm – 6:00 pm Social Hour
6:00 pm Reception

Convention Center East Ballroom

ASAS Southern Section Executive Committee
5:00 pm - 6:00 pm

Convention Center Meeting Room 204B

Small Ruminant Subcommittee of the NAGP,
Michael Brown, Chair
7:00 pm – 9:00 pm

Riverview Plaza Mobile Ballroom I

Monday, February 5

Registration
7:30 am - Noon

Convention Center
Concourse Lobby Area

Graduate Student Paper Competition

8:15 am – 11:45 am

Convention Center
Meeting Room 107A

ARPAS Exams
10:00 am - noon

Convention Center
VIP Lounge

Registration
1:00 pm - 4:00 pm

Convention Center
Concourse Lobby Area

Small Ruminant Production I

1:00 pm – 3:00 pm

Convention Center
Meeting Room 201C

Undergraduate Student Competition

1:00 pm – 3:45 pm

Convention Center
Meeting Room 107A

Physiology I
1:30 pm – 4:30 pm

Convention Center
West Ballroom

ARPAS Exams
2:00 pm - 4:00 pm

Convention Center
VIP Lounge

Ruminant Animal Production I
2:00 pm – 4:30 pm

Convention Center
Meeting Room 201D

Small Ruminant Production II
3:15 pm – 5:00 pm

Convention Center
Meeting Room 201C

Teaching and Undergraduate Education
3:45 pm – 4:15 pm

Convention Center
Meeting Room 107A

Business Meeting and Awards Program
5:00 pm - 7:00 pm

Convention Center Meeting Room 106A

Tuesday, February 6

Registration
8:00 am - noon

Convention Center
Concourse
Lobby Area

Pastures and Forages
8:00 am – noon

Convention Center
Meeting Room 201C

Breeding and Genetics
8:30 am – 11:45 am

Convention Center
Meeting Room 201B

Physiology II
8:30 am – 10:00 am

Convention Center
Meeting Room 201A

Ruminant Animal Production II
8:30 am – 11:45 am

Convention Center
Meeting Room 201D

Physiology III
10:30 am – 11:45 am

Convention Center
Meeting Room 201A

Extension Luncheon
Noon – 1:20 pm

Convention Center
West Ballroom

Meats
1:00 pm – 1:30 pm

Convention Center
Meeting Room 201C

Extension
1:30 pm – 5:00 pm

Convention Center
Meeting Room 201D

Small Ruminant Production III
1:30 pm – 3:30 pm

Convention Center
Meeting Room 201C

Monday, February 5

SYMPOSIA AND ORAL SESSIONS

Graduate Student Competition

Chair: Steve Schmidt, Auburn University
Convention Center – Meeting Room 107 A

8:15 AM 27

Sensory traits of beef patties treated with rosemary oleoresin and oregano essential oil to improve safety. M Tittor*, J. C. Brooks, M. T. Brashears, M. F Miller, and M. M. Brashears, *Texas Tech University, Lubbock.*

8:30 AM 28

Development of an automatic, indwelling rectal temperature probe for cattle research. R. R. Reuter*^{1,2}, J. A. Carroll², J. W. Dailey², C. C. Chase, Jr.³, S. W. Coleman³, D. G. Riley³, D. E. Spiers⁴, R. L. Weaver⁴, and M. L. Galyean¹, ¹*Texas Tech University, Lubbock*, ²*USDA-ARS, Livestock Issues Research Unit, Lubbock, TX*, ³*USDA-ARS, SubTropical Agricultural Research Station, Brooksville, FL*, ⁴*University of Missouri, Columbia.*

8:45 AM 29

Effects of body condition, somatotropin, and prolactin promoter gene polymorphisms on concentrations of prolactin, follicle size, and calving rates of postpartum Brahman-influenced cows. R. Flores*¹, M. L. Loofer², S. T. Reiter¹, and C. F. Rosenkrans, Jr.¹, ¹*University of Arkansas, Fayetteville*, ²*USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR.*

9:00 AM 30

Identification of single nucleotide polymorphisms within the promoter region of the bovine heat shock protein 70 gene and associations with pregnancy. A. Banks*¹, M. Loofer², S. Reiter¹, L. Starkey¹, R. Flores¹, D. Hallford³, and C. Rosenkrans, Jr.¹, ¹*University of Arkansas, Fayetteville*, ²*USDA/ARS, Booneville, AR*, ³*New Mexico State University, Las Cruces.*

9:15 AM 31

Effects of PGF2 α and 15-Keto PGF2 α on leptin and PGF receptor gene expression in adipose tissue at estrus and the mid-luteal stage of the estrous cycle. E. Gonzales*¹, C. O'Gorman¹, K. Collard¹, Y. Matsumoto¹, D. Keisler³, R. Stanko^{1,2}, and M. Garcia¹, ¹*Texas A&M University-Kingsville*, ²*Texas A&M University Agricultural Research Station, Beeville, TX*, ³*University of Missouri, Columbia.*

9:30 AM 32

Fetal exposure to maternal stress influences leptin receptor gene expression during development and age at puberty in gilts. C. W. O'Gorman*¹, E. Gonzales¹, M. D. Eaton¹, K. A. Collard¹, M. Reyna¹, J. C. Laurenz¹, R. L. Stanko^{2,1}, D. H. Keisler³, J. A. Carroll⁴, and M. R. Garcia¹, ¹*Texas A&M University-Kingsville*, ²*Texas A&M University Agricultural Research Station, Beeville*, ³*University of Missouri, Columbia*, ⁴*USDA-ARS Lubbock, Lubbock, TX.*

9:45 AM 33

Temporal pattern of the stress hormone and cytokine response in pigs following a lipopolysaccharide (LPS) challenge. P. N. Williams*¹, J. A. Carroll², T. H. Welsh, Jr.³, and J. C. Laurenz¹, ¹*Texas A&M University-Kingsville*, ²*USDA-ARS, Livestock Issues Research Unit, Lubbock, TX*, ³*Texas A&M University, College Station.*

10:00 AM **Break.**

10:15 AM 34

Effect of temperament on passive immunity, cortisol concentrations, and early growth in the calf. N. C. Burdick*¹, R. D. Randel², J. P. Banta², D. Neuendorff², J. C. White², T. H. Welsh, Jr.³, R. C. Vann⁴, and J. C. Laurenz¹, ¹*Texas A&M University-Kingsville*, ²*Texas A&M University Agricultural Research and Extension Center, Overton, TX*, ³*Texas A&M University, College Station*, ⁴*Mississippi State University, Raymond.*

10:30 AM 35

Sequence of the goat urea transporter, UT-B and its expression in the rumen, kidney, intestine, and liver. J. Hicks*, G. Huntington, J. Erichsen, and H. C. Liu, *North Carolina State University, Raleigh*.

10:45 AM 36

Assessment of oxidative stress markers in heifers grazing endophyte-infected tall fescue. N. Burke*¹, G. Scaglia², D. Blodgett¹, K. Saker¹, O. Abaye², and W. Swecker, Jr.¹, ¹*Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA*, ²*Virginia Tech, Blacksburg*.

11:00 AM 37

Effects of timing of weaning in a fall-calving system on performance of beef cows and their progeny. M. D. Hudson*, J. P. Banta, D. S. Buchanan, and D. L. Lalman, *Oklahoma State University, Stillwater*.

11:15 AM 38

Digestibility of 'Coastal' and 'Tifton 85' bermudagrass, and 'Florigraze' perennial peanut hays in mature horses. J. V. Eckert*, R. O. Myer, L. K. Warren, and J. H. Brendemuhl, *University of Florida, Gainesville*.

11:30 AM 39

Three-dimensional analysis of the walk and running walk of the Tennessee Walking Horse. P. E. Roberson*, S. Zhang, H. S. Adair, and C. J. Kojima, *University of Tennessee, Knoxville*.

Small Ruminant Production I
Parasite Control in Small Ruminants
Chair: Thomas Terrill,
Fort Valley State University
Convention Center – Meeting Room 201 C

1:00 PM 94

Interaction between high protein supplement and copper oxide wire particles to control gastrointestinal nematodes in growing goats. J. M. Burke*¹, J. E. Miller², and T. H. Terrill³, ¹*USDA, Agricultural Research Service, Booneville, AR*, ²*Louisiana State University, Baton Rouge*, ³*Fort Valley State University, Fort Valley, GA*.

1:15 PM 95

Low dose titration of copper oxide wire particles for control of gastrointestinal nematodes in weaned kids. J. M. Burke*¹, J. E. Miller², and T. H. Terrill³, ¹*USDA, Agricultural Research Service, Booneville, AR*, ²*Louisiana State University, Baton Rouge*, ³*Fort Valley State University, Fort Valley, GA*.

1:30 PM 96

Interaction between copper oxide wire particles and grazing sericea lespedeza to control gastrointestinal nematodes in goats. J. M. Burke*¹, J. E. Miller², T. H. Terrill³, and J. Mosjidis⁴, ¹*USDA, Agricultural Research Service, Booneville, AR*, ²*Louisiana State University, Baton Rouge*, ³*Fort Valley State University, Fort Valley, GA*, ⁴*Auburn University, Auburn, AL*.

1:45 PM 97

Field applications of liquid nitrogen fertilizer for controlling gastrointestinal parasites in weanling meat goats. J.-M. Luginbuhl* and H. M. Glennon, *North Carolina State University, Raleigh*.

2:00 PM 98

Influence of high tannin grain sorghum on gastrointestinal nematode infection (GIN) in goats. N. C. Whitley*¹, J. E. Miller², J. M. Burke³, D. Cazac¹, R. Subburathinam¹, and L. Dykes⁴, ¹University of Maryland Eastern Shore, Princess Anne, MD, ²Louisiana State University, Baton Rouge, ³USDA-ARS-DBSFRC, Booneville, AR, ⁴Texas A&M University, College Station.

2:15 PM 99

Effect of vaccination of goats with H-11/H-gal-GP antigens from intestinal membrane cells of *Haemonchus contortus*. D. D. Olcott¹, B. M. Weeks¹, K. Shakya¹, W. D. Smith², and J. E. Miller*¹, ¹Louisiana State University, Baton Rouge, ²Moredun Research Institute, Edinburgh, Scotland, UK.

2:30 PM 100

Fecal egg counts and packed blood cell volume in periparturient Katahdin and St. Croix hair sheep ewes grazing naturally parasite-infected pasture. S. Wildeus*¹ and A. M. Zajac², ¹Virginia State University, Petersburg, ²Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA.

2:45 PM 101

Pasture-raised Katahdin and Katahdin crossbred lambs: growth and parasite resistance. N. C. Whitley*¹, D. J. Jackson¹, D. Cazac¹, J. E. Miller², J. M. Burke³, and S. Schoenian⁴, ¹University of Maryland Eastern Shore, Princess Anne, MD, ²Louisiana State University, Baton Rouge, ³USDA-ARS-DBSFRC, Booneville, AR, ⁴MCE-WMREC, Keedysville, MD.

Undergraduate Student Competition

Chair: Jeannette Moore,
North Carolina State University
Convention Center – Meeting Room 107 A

1:00 PM 118

Detection of paratuberculosis in dairy cattle via near infrared reflectance spectroscopy of feces. K. Anderson*¹, B. Norby², S. Prince¹, G. Ball³, and D. Tolleson¹, ¹Texas A&M University, College of Agriculture and Life Sciences, College Station, ²Texas A&M University, College of Veterinary Medicine, College Station, ³Nottingham Trent University, Nottingham, England.

1:15 PM 119

Effect of carbohydrate and protein supplements on ruminal *in situ* disappearance of dry matter and fiber from coastal Bermuda-grass hay in goats. A. P. Foote*¹, J. Struthoff¹, B. D. Lambert^{1,2}, and J. P. Muir², ¹Tarleton State University, Stephenville, TX, ²Texas Agricultural Experiment Station, Stephenville.

1:30 PM 120

Pig performance in a split-weaning system using dry feed and limit-fed milk replacer. J. A. Pittman*, A. F. Harper, and M. J. Estienne, Virginia Polytechnic Institute and State University, Blacksburg.

1:45 PM 121

Effects of social stress on pig behavior: The role of α - and β -adrenergic receptors. J. N. Landgrebe* and J. C. Laurenz, Texas A&M University-Kingsville.

2:00 PM 122

WITHDRAWN BY AUTHOR.

2:15 PM **Break.**

2:30 PM 123

Effects of melengestrol acetate on estrous synchronization in goats. B. E. Galbreath*, P. E. Prater, K. E. Peterson, W. T. McVey, and T. J. Wistuba, *Morehead State University, Morehead, KY.*

2:45 PM 124

Comparison of 5-day or 7-day CIDR-based estrous synchronization systems for fixed-time AI in beef heifers. K. N. Wilson*¹, M. L. Day², W. D. Whittier¹, R. Kasimanickam¹, and J. B. Hall¹, ¹*Virginia Tech, Blacksburg*, ²*The Ohio State University, Columbus.*

3:00 PM 125

Identification of polymorphisms in the promoter region of the bovine heat shock protein gene and associations with bull calf weaning weight. L. Starkey*¹, M. Looper², A. Banks¹, S. Reiter¹, and C. Rosenkrans, Jr.¹, ¹*University of Arkansas, Fayetteville*, ²*USDA/ARS, Booneville, AR.*

3:15 PM 126

Relationship between polymorphisms in lactate dehydrogenase B gene and milk characteristics in beef cows. C. Pope*¹, S. Reiter¹, M. Brown², Y. Farnell¹, D. Baker¹, H. Brown, Jr.¹, Z. Johnson¹, and C. Rosenkrans, Jr.¹, ¹*University of Arkansas, Fayetteville*, ²*USDA/ARS, El Reno, OK.*

3:30 PM 127

Impact of stressing a penmate on behavior and physiological responses of growing pigs. J. B. Koonce*, E. B. Kegley, D. L. Galloway, and J. K. Apple, *University of Arkansas, Fayetteville, AR.*

Physiology I Reproduction

Chair: John B. Hall, Virginia Tech
Convention Center – West Ballroom

1:30 PM 54

Follicle development, estrous characteristics, and effectiveness of a GnRH/CIDR + PG synchronization protocol in postpartum Angus (AN) and Brangus (BN) cows. R. D. Esterman*, B. R. Austin, S. A. Woodall, and J. V. Yelich, *University of Florida, Gainesville.*

1:45 PM 55

Administration of GnRH either 3 or 10 d after a 14 d melengestrol acetate (MGA) treatment to synchronize follicle development in *Bos indicus* × *Bos taurus* cattle. S. A. Woodall*, B. R. Austin, R. D. Esterman, and J. V. Yelich, *University of Florida, Gainesville.*

2:00 PM 56

Serum progesterone concentration in ovariectomised *Bos taurus* cows using new, re-used, or re-used autoclaved CIDRs. M. D. Eaton*¹, C. Rosales-Nieto¹, J. F. Zuluaga², and R. L. Stanko^{1,2}, ¹*Texas A&M University-Kingsville*, ²*Texas A&M University Agricultural Research Station, Beeville.*

2:15 PM 57

Administration of GnRH 3 d after a 14 d melengestrol acetate (MGA) treatment with PG 7 and 8 d after GnRH for synchronization of yearling Angus and *Bos indicus* × *Bos taurus* (BI×BT) heifers. S. A. Woodall*, B. R. Austin, R. D. Esterman, and J. V. Yelich, *University of Florida, Gainesville.*

2:30 PM

Invited - Follicular development and synchronization of *Bos Indicus* cattle - Presentation and Discussion. J. Yelich.

3:15 PM **Break.**

3:30 PM 58

Effects of dietary supplementation with omega-3 fatty acids on indicators of semen quality in boars. M. J. Estienne* and A. F. Harper, *Virginia Polytechnic Institute and State University, Blacksburg.*

3:45 PM 59

Influence of urocortin on luteinizing hormone (LH) release from porcine pituitary cells. D. J. Jackson¹, R. Subburathinam¹, C. R. Barb², and N. C. Whitley¹, ¹*University of Maryland Eastern Shore, Princess Anne,* ²*USDA-ARS, Athens, GA.*

4:00 PM 60

Development of culture conditions for investigating bovine blastocyst development and interferon-tau production. T. M. Rodina*, A. M. Brad, P. J. Hansen, and A. D. Ealy, *University of Florida, Gainesville.*

4:15 PM 61

The expression of fibroblast growth factor (FGF) receptors and ligands in elongated bovine conceptuses. F. N. T. Cooke* and A. D. Ealy, *University of Florida, Gainesville.*

Ruminant Animal Production I

Chair: Jason Rowntree, Louisiana State University
Convention Center – Meeting Room 201 D

2:00 PM 73

The effects of limit grazing method on stocker and feedlot performance of beef calves grazing winter wheat pasture. M. D. Hudson¹, C. Coffey², D. Childs², and D. L. Lalman¹, ¹*Oklahoma State University, Stillwater,* ²*Noble Foundation, Ardmore, OK.*

2:15 PM 74

Use of soybean hulls as a complementary feedstuff for growing cattle on winter rye pasture. K. E. Hales^{*2}, E. M. Whitley¹, G. W. Horn², and M. D. Childs¹, ¹*The Samuel Roberts Noble Foundation, Ardmore, OK,* ²*Oklahoma Agricultural Experiment Station, Stillwater, OK.*

2:30 PM 75

Milk quality in beef cows grazing Coastal and Tifton 85 bermudagrass pastures. V. A. Corriher¹, G. M. Hill¹, T. C. Jenkins², and B. G. Mullinix, Jr.¹, ¹*University of Georgia, Tifton,* ²*Clemson University, Clemson, SC.*

2:45 PM 76

Effects of Fermenten[®] supplementation on Brahman-crossbred heifer development. R. F. Cooke^{*1,2}, D. B. Araujo^{1,2}, J. V. Yelich², and J. D. Arthington^{1,2}, ¹*University of Florida-IFAS, Range Cattle Research and Education Center, Ona,* ²*University of Florida-IFAS, Department of Animal Sciences, Gainesville.*

3:00 PM **Break.**

3:15 PM 77

Evaluation of Optigen II[®] as a source of rumen degradable protein for mature beef cows. J. Wahrmund^{*1}, D. de Araujo², M. Hersom¹, and J. Arthington², ¹*University of Florida, Gainesville,* ²*University of Florida, Ona.*

3:30 PM 78

Evaluation of whole, in-shell peanuts as a supplement feed for beef cows. R. O. Myer¹, G. M. Hill², G. R. Hansen¹, and D. W. Gorbet¹, ¹*University of Florida, Marianna,* ²*University of Georgia, Tifton.*

3:45 PM 79

Performance of beef cows fed hay with free-choice whole cottonseed. G. M. Hill¹, M. H. Poore², and B. G. Mullinix¹, ¹*University of Georgia, Tifton,* ²*North Carolina State University, Raleigh.*

4:00 PM 80

A field study comparing moxidectin and ivermectin 1% injectables in regard to fecal egg count reductions, weight gains and safety in grazing, stocker cattle. J. G. Powell*, T. A. Yazwinski, C. A. Tucker, J. Reynolds, and Z. B. Johnson, *University of Arkansas, Fayetteville.*

4:15 PM 81

Effect of pelleting on anthelmintic efficacy of sericea lespedeza hay against gastrointestinal nematodes of goats. D. A. Moore*¹, T. H. Terrill¹, S. A. Shaik¹, J. E. Miller², J. M. Burke³, J. P. Muir⁴, R. Wolfe⁴, and J. A. Mosjidis⁵, ¹*Fort Valley State University, Fort Valley, GA*, ²*Louisiana State University, Baton Rouge*, ³*USDA/ARS/DBSFRC, Booneville, AR*, ⁴*Texas Agricultural Experiment Station, Stephenville*, ⁵*Auburn University, Auburn, AL.*

Small Ruminant Production II Sheep and Goat Nutrition

Chair: Niki Whitley, University of Maryland, Eastern Shore
Convention Center – Meeting Room 201 C

3:15 PM 102

The effect of feeding a split ration to lactating hair sheep on production traits during the cool season in the tropics. R.W. Godfrey* and R.C. Driscoll, *University of the Virgin Islands, Agricultural Experiment Station, Kingshill, VI.*

3:30 PM 103

Feedlot performance and digestibility of diets in meat goats supplemented with probiotics. D. Cazac*¹, N.C. Whitley¹, D.J. Jackson¹, and B.J. Rude², ¹*University of Maryland Eastern Shore, Princess Anne, MD*, ²*Mississippi State University, Mississippi State, MS.*

3:45 PM 104

Methane emission by goats consuming different sources of condensed tannins. G Animut*¹, R Puchala¹, A L Goetsch¹, A K Patra¹, T Sahlu¹, V H Varela², and J Wells², ¹*American Institute for Goat Research, Langston University, Langston, OK*, ²*US Meat Animal Research Center, Clay Center, NE.*

4:00 PM 105

Nutritional and breed effects on carcass traits of Katahdin crossbred lambs. D. J. Jackson*¹, N.C. Whitley¹, J.W. Lemaster², and S. Schoenian^{2,3}, ¹*University of Maryland Eastern Shore, Princess Anne, MD*, ²*Maryland Cooperative Extension, College Park, MD*, ³*WMREC, Keedysville, MD.*

4:15 PM 106

Feeding regime and breed effects on nutritional and sensory characteristics of meat from Katahdin crossbred lambs. D.J. Jackson*, N.C. Whitley, V. Suvanich, and J.G. Schwarz, *University of Maryland Eastern Shore, Princess Anne, MD.*

4:30 PM 107

Effects of genotype and diet on growth and mass of organs and tissues of growing meat goats. A. T. Ngwa¹, L. J. Dawson², R. Puchala¹, G. Detweiler¹, R. C. Merkel¹, G. Animut¹, T. Sahlu¹, C. L. Ferrell³, and A. L. Goetsch*¹, ¹*American Institute for Goat Research, Langston University, Langston, OK*, ²*College of Veterinary Medicine, Oklahoma State University, Stillwater*, ³*US Meat Animal Research Center, Clay Center, NE.*

4:45 PM 128

The effect of sericea lespedeza, fed as ground hay, on existing and establishing infection of *Haemonchus contortus* in sheep. L. A. Chafton¹, J. E. Miller^{1*}, J. A. Mosjidis², T. H. Terrill³, J. M. Burke⁴, ¹*Dept. of Pathobiological Sciences, Louisiana State University*; ²*Dept. of Agronomy and Soils, Auburn University*; ³*Dept. of Animal Science, Fort valley State University*; ⁴*USDA ARS, Booneville, AR.*

Teaching and Undergraduate Education

Chair: Michelle R. Garcia
Texas A&M University-Kingsville
Convention Center – Meeting Room 107 A

3:45 PM 116

Reusable learning objects for enhanced information retention by students. C. P. Bagley* and L. L. Johnson, *Texas A&M University, Commerce.*

4:00 PM 117

Overview of instructional programs in mineral nutrition at Southeastern Land-Grant Universities. M. M. Finnigan*, *Auburn University, Auburn, AL.*

Tuesday, February 6

Pastures and Forages

Chair: Monte Rouquette,
Texas A&M University, Overton
Convention Center – Meeting Room 201 C

8:00 AM 42

Invited - The effects of supplementation and forage source on performance of steers during fall backgrounding. C. Coffey¹, D.L. Lalman*², D. Childs¹, M.D. Hudson², and S.J. Winterholler², ¹*Noble Foundation*, ²*Oklahoma State University.*

8:30 AM 43

Perennial versus annual grasses as supplements for gestating beef cows: 3-yr summary. S. A. Gunter*, P. A. Beck, J. D. Shockey, C. B. Stewart, and J. M. Phillips, *Southwest Research & Extension Center, University of Arkansas, Hope.*

8:45 AM 44

Intake, digestibility, ruminal parameters, and microbial protein synthesis in crossbred steers fed diets based on grass and sorghum silages. F. H. M. Chizzotti*^{1,2}, O. G. Pereira¹, S. C. Valadares Filho¹, M. L. Chizzotti^{1,2}, L. O. Tedeschi², M. I. Leão¹, and D. H. Pereira¹, ¹*Universidade Federal de Viçosa, Viçosa, MG, Brazil*, ²*Texas A&M University, College Station.*

9:00 AM 45

Determination of alkane content in fresh fecal samples to estimate intake on pasture. S. W. Coleman, E. J. Bowers*, D. G. Riley, and C. C. Chase, Jr., *USDA ARS Subtropical Agricultural Research Station, Brooksville, FL.*

9:15 AM 46

Effects of planting date and glyphosate application before planting cool-season annual grasses into warm season grass sod on performance of stocker cattle. P Beck*, S Gunter, M Phillips, and B Stewart, *University of Arkansas, Division of Agriculture SWREC, Hope, AR.*

9:30 AM 47

Injecting anhydrous ammonia into silages to enhance quality attributes. C. P. Bagley*¹, W. D. Becker², and M. E. McCormick³, ¹*Texas A&M University-Commerce*, ²*Texas Cooperative Extension*, ³*Louisiana Agricultural Experiment Station.*

9:45 AM 48

Effects of trace mineral-containing fertilizer application on forage and beef cow performance in Florida. J.D. Arthington*¹ and I.V. Ezenwa², ¹*University of Florida - IFAS, Range Cattle Research and Education Center, Ona, FL*, ²*University of Florida - IFAS, Southwest Florida Research and Education Center, Immokalee, FL.*

10:00 AM **Break.**

10:15 AM 49

Invited - Effect of pasture management practices on animal performance and nutrient runoff. P Beck*, S Gunter, M Anders, B Watkins, K Lusby, and D Hubbell, *University of Arkansas, Division of Agriculture, Fayetteville.*

10:45 AM 50

What is the cost of gain for stocker cattle on ryegrass pasture? D. G. St. Louis*¹ and R. D. Little², ¹*South Mississippi Experiment Station, Poplarville, MS,* ²*Mississippi State University, Mississippi State.*

11:00 AM 51

Agronomic performance and beef cattle grazing preference of three prairie bromegrasses (*Bromus* spp.). A.S. Hubbard*, J.A. Parish, B. Macoon, R.C. Vann, and J.R. Parish, *Mississippi State University, Mississippi State.*

11:15 AM 52

Long-term agronomic and animal performance on stockpiled Jessup tall fescue varying in endophyte status. M.E. Drewnoski*, M.H. Poore, E.J. Oliphant, J.T. Green, and M.E. Hockett, *North Carolina State University, Raleigh.*

11:30 AM 53

Invited - Complimentary forage systems for beef cows. S. W. Coleman*, *USDA ARS Subtropical Agricultural Research Station, Brooksville, FL.*

Breeding and Genetics

Chair: Zelpha Johnson, University of Arkansas
Convention Center – Meeting Room 201 B

8:30 AM 1

Calpastatin and calpain genetic marker influences on shear force in Brahman steers. D. E. Franke¹, D. H. Fischer*¹, M. G Thomas², and T. D. Bidner¹, ¹*LSU Agricultural Center, Baton Rouge,* ²*New Mexico State University, Las Cruces.*

8:45 AM 2

Genomic comparisons of bovine CYP3A28 of Angus, Brahman, and reciprocal crosses and milk characteristics. S. Reiter*¹, M. Larson¹, R. Okimoto², M. Brown³, H. Brown, Jr.¹, Z. Johnson¹, and C. Rosenkrans, Jr.¹, ¹*University of Arkansas, Fayetteville,* ²*Cobb-Vantress, Siloam Springs, AR,* ³*USDA/ARS, El Reno, OK.*

9:00 AM 3

Relationship between single nucleotide polymorphisms in the bovine heat shock protein 70 gene and milk characteristics of beef cows. M. Lamb¹, R. Okimoto², M. Brown³, H. Brown, Jr.¹, Z. Johnson¹, and C. Rosenkrans, Jr.*¹, ¹*University of Arkansas, Fayetteville, AR,* ²*Cobb-Vantress, Siloam Springs, AR,* ³*USDA/ARS, El Reno, OK.*

9:15 AM 4

Evaluation of temperament and production traits of beef replacement heifers. S. M. DeRouen* and G. E. Reger, *Louisiana State University Agricultural Center, Homer.*

9:30 AM 5

Sire effects and phenotypic variation for temperament scores and fecal egg counts in Angus cattle. A. H. Brown, Jr.*¹, T. A. Yazwinski, Z. B. Johnson, J. G. Powell, J. L. Reynolds, S. T. Dewey, and C. W. Rowe, *University of Arkansas, Division of Agriculture, Fayetteville.*

9:45 AM 6

Sire effects on liveweight, temperament, and parasite resistance traits in Angus replacement heifers. W. Wyatt*¹, J. Miller², D. Franke², and D. Blouin², ¹*Louisiana State University Agricultural Center, Jeanerette,* ²*Louisiana State University Agricultural Center, Baton Rouge.*

10:00 AM **Break.**

10:15 AM 7

Comparison of Florida-born, embryo-derived Angus calves sourced from Kansas and Florida herds on measures of performance, disposition, and body temperature from birth to weaning. J. D. Arthington^{*1}, D. G. Riley², C. C. Chase², D. O. Rae³, J. L. Griffin⁴, and S. W. Coleman^{2, 1}, ¹University of Florida –IFAS, Range Cattle Research and Education Center, Ona, ²USDA, ARS Subtropical Agricultural Research Station, Brooksville, FL, ³University of Florida, College of Veterinary Medicine, Gainesville, ⁴Reproductive Technology International, Plant City, FL.

10:30 AM 8

The relationship of dam efficiency and calf performance to weaning in a commercial cowherd. S. T. Dewey^{*1}, C. W. Wall², M. L. Looper³, C. R. Rosenkrans, Jr.¹, A. H. Brown, Jr.¹, and Z. B. Johnson¹, ¹University of Arkansas, Fayetteville, ²Arkansas Cooperative Extension Service, Van Buren, ³USDA/ARS, Booneville, AR.

10:45 AM 9

Prewaning performance of calves from tropically-adapted and temperate sires and Brangus cows managed on two forage systems. M. A. Brown^{*1} and D. L. Lalman², ¹USDA-ARS, Grazinglands Research Laboratory, El Reno, OK, ²Oklahoma State University, Stillwater.

11:00 AM 10

Tropically adapted F1 beef female and location influences on early performance. D. E. Franke^{*1} and L. V. Cundiff², ¹LSU Agricultural Center, Baton Rouge, LA, ²USDA/ARS US Meat Animal Research Center, Clay Center, NE.

11:15 AM 11

Heterosis for reproductive traits in young F₁, Romosinuano, Brahman, and Angus cows. D. G. Riley^{*1}, C. C. Chase, Jr.¹, S. W. Coleman¹, and T. A. Olson², ¹USDA, ARS, Brooksville, FL, ²University of Florida, Gainesville.

11:30 AM 12

Comparison of F1 cows sired by Brahman, Boran and Tuli bulls for reproductive, maternal, and cow longevity traits. S. F. Cunningham^{*}, A. H. Maiga, J. O. Sanders, and A. D. Herring, Texas A&M University, College Station.

Physiology II
Growth and Body Composition
Chair: Brian Rude, Mississippi State University
Convention Center – Meeting Room 201 A

8:30 AM 62

Effect of fish oil on adipocyte size distribution in different fat depots of lambs. V. Vasileva^{*} and P. Marinova, Institute of Animal Science, Kostinbrod, Bulgaria.

8:45 AM 63

Determination of creatinine excretion and evaluation of spot urine sampling to assess purine derivative excretion. M. L. Chizzotti^{*1,2}, S. C. Valadares Filho¹, R. F. D. Valadares¹, F. H. M. Chizzotti^{1,2}, L. O. Tedeschi², M. I. Marcondes¹, and M. A. Fonseca¹, ¹Universidade Federal de Viçosa, Viçosa, MG, Brazil, ²Texas A&M University, College Station.

9:00 AM 64

Temperament and calf serum protein influence weaning weight in Brahman cattle.

J. C. White^{*1}, J. P. Banta², R. C. Vann³, D. A. Neuendorff¹, A. W. Lewis¹, T. H. Welsh, Jr.¹, and R. D. Randel¹, ¹Texas Agricultural Experiment Station, Overton and College Station, ²Texas Cooperative Extension, Overton, ³Mississippi State University, Raymond.

9:15 AM 65

Evaluation of ultrasound body composition traits as affected by temperament and transportation stress.

R. C. Vann^{*1}, S. T. Willard², T. H. Welsh, Jr.³, and R. D. Randel⁴, ¹MAFES-Brown Loam Experiment Station, Raymond, MS, ²Mississippi State University, Starkville, ³Texas A&M University, College Station, ⁴Texas Agricultural Experiment Station, Overton, TX.

9:30 AM 66

Growth and conformation changes in pre-weaning warmblood foals. S. F. Denham* and R. K. Splan, Virginia Polytechnic Institute and State University, Blacksburg.

9:45 AM 67

Effect of rider's weight on temporal stride characteristics of the working trot. K. Benton, P. E. Roberson*, and C. J. Kojima, University of Tennessee, Knoxville.

Ruminant Animal Production II

Chair: Gordon Carstens, Texas A&M University
Convention Center – Meeting Room 201 D

8:30 AM 82

Grazing behavior does not explain variation in residual feed intake in Brahman heifers.

R. O. Dittmar, III^{*1}, T. D. A. Forbes², T. H. Welsh, Jr.³, and R. D. Randel¹, ¹Texas Agricultural Experiment Station, Overton, TX, ²Texas Agricultural Experiment Station, Uvalde, TX, ³Texas Agricultural Experiment Station, College Station, TX.

8:45 AM 83

Influence of residual feed intake on digestive kinetics in Brahman heifers. R. O. Dittmar, III^{*1}, T. D. A. Forbes², T. H. Welsh, Jr.³, and R. D. Randel¹, ¹Texas Agricultural Experiment Station, Overton, TX, ²Texas Agricultural Experiment Station, Uvalde, TX, ³Texas Agricultural Experiment Station, College Station, TX.

9:00 AM 84

Relationships between residual feed intake and dry matter digestibility in growing calves.

W. K. Krueger^{*1}, G. E. Carstens¹, P. A. Lancaster¹, E. G. Brown¹, L. J. Slay¹, and T. D. A. Forbes², ¹Texas A&M University, College Station, ²Texas Agriculture Extension Service, Uvalde.

9:15 AM 85

Use of fecal near-infrared reflectance spectroscopy to predict residual feed intake in growing calves.

H. Gutiérrez-Bañuelos^{*1}, S. Prince¹, D. R. Tolleson¹, G. E. Carstens¹, T. D. A. Forbes³, F. M. Rouquette², R. D. Randel², and T. H. Welsh Jr.¹, ¹Texas A & M University, College Station, ²Texas A & M University, Overton, ³Texas A & M University, Uvalde.

9:30 AM 86

Performance and economic assessment of two management systems for spring-born calves.

S. J. Winterholler*, M. D. Hudson, G. W. Horn, C. R. Krehbiel, and D. L. Lalman, Oklahoma State University, Stillwater.

9:45 AM 87

Application of real-time ultrasound for predicting carcass attributes in feedlot steers.

T. L. Perkins* and A. Rimal, Missouri State University, Springfield.

10:00 AM **Break.**

10:15 AM 88

Relationship of lactate dehydrogenase activity to body measurements of Angus × Charolais cows and calves. M. L. Looper^{*1}, T. P. Neidecker², C. W. Wall³, S. T. Reiter⁴, R. Flores⁴, A. H. Brown, Jr.⁴, Z. B. Johnson⁴, and C. F. Rosenkrans, Jr.⁴, ¹USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR, ²Neidecker Farms, Van Buren, AR, ³University of Arkansas Cooperative Extension Service, Van Buren, ⁴University of Arkansas, Fayetteville.

10:30 AM 89

Relationships between temperament traits and feed efficiency in growing bulls. B. M. Bourg^{*1}, G. E. Carstens¹, Z. Paddock¹, L. O. Tedeschi¹, and W. Maffei², ¹Texas A&M University, College Station, ²Universidade Federal de Minas Gerais, Belo Horizonte, MG, Brazil.

10:45 AM 90

Energy requirements for maintenance and growth of purebred and crossbred *Bos indicus*: A meta-analysis evaluation. M. L. Chizzotti^{*1,2}, L. O. Tedeschi², S. C. Valadares Filho¹, P. V. R. Paulino¹, F. H. M. Chizzotti^{1,2}, and G. E. Carstens², ¹Universidade Federal de Viçosa, Brazil, ²Texas A&M University, College Station.

11:00 AM 91

Protein requirements for maintenance and growth of purebred and crossbred *Bos indicus*: A meta-analysis evaluation. M. L. Chizzotti^{*1,2}, L. O. Tedeschi², S. C. Valadares Filho¹, P. D. B. Benedeti¹, P. M. Amaral¹, and T. I. Rodrigues¹, ¹Universidade Federal de Viçosa, Brazil, ²Texas A&M University, College Station.

11:15 AM 92

Meta-analysis of the effects of dietary urea levels on performance, digestibility, and N metabolism in crossbred steers. F. H. M. Chizzotti^{1,2}, M. L. Chizzotti^{*1,2}, L. O. Tedeschi², O. G. Pereira¹, and S. C. Valadares Filho¹, ¹Universidade Federal de Viçosa, Brazil, ²Texas A&M University, College Station.

11:30 AM 93

Factors affecting milk yield and milk fat of dairy farms located in the central region of Thailand. J. A. Rhone^{*1}, S. Koonawootrittriron², and M. A. Elzo¹, ¹University of Florida, Gainesville, ²Kasetsart University, Bangkok, Thailand.

Physiology III

Stress and Immunology

Chair: Jeffrey Carroll, USDA-ARS, Lubbock, TX
Convention Center – Meeting Room 201 A

10:30 AM 68

Short term probiotic supplementation of weaned foals. N. C. Whitley¹, P. R. Ryan², B. J. Rude^{*2}, D. Cazac¹, K. W. Necaise², S. J. Barber², and A. N. Musslewhite², ¹University of Maryland Eastern Shore, Princess Anne, ²Mississippi State University, Mississippi State.

10:45 AM 69

Effects of an endotoxin challenge test on physiological responses in weaned foals supplemented with probiotics. P. L. Ryan^{*1}, B. J. Rude¹, K. Moulton¹, K. W. Necaise¹, S. J. Barber¹, D. L. Christiansen¹, F. K. Walters¹, S. D. Bowers¹, and N. C. Whitley², ¹Mississippi State University, Mississippi State, ²University of Maryland Eastern Shore, Princess Anne.

11:00 AM 70

Use of infrared thermal imaging to quantify dynamic changes in body temperature following lipopolysaccharide (LPS) administration in dairy cattle. S. Willard^{*}, S. Dray, R. Farrar, M. McGee, S. Bowers, A. Chromiak, and M. Jones, Mississippi State University, Mississippi State.

11:15 AM 71

The relationship of temperament and body temperature on immunoglobulin response to vaccination in calves.

N. C. Burdick^{*1}, R. C. Vann², S. T. Willard², R. D. Randel³, and T. H. Welsh, Jr.⁴, ¹Texas A&M University-Kingsville, ²Mississippi State University, Raymond, ³Texas Agricultural Experiment Station, Overton, ⁴Texas Agricultural Experiment Station, College Station.

11:30 AM 72

Angus and Romosinuano steers exhibit differential acute phase responses following an endotoxin challenge.

J. A. Carroll^{*1}, C. C. Chase, Jr.², S. W. Coleman², D. G. Riley², D. E. Spiers³, J. W. Dailey¹, and R. R. Reuter¹, ¹USDA-ARS, Livestock Issues Research Unit, Lubbock, TX, ²USDA-ARS, SubTropical Agricultural Research Station, Brooksville, FL, ³University of Missouri, Columbia.

Extension Luncheon

Convention Center - West Ballroom

12:00 PM – 1:20 PM

Meats

Meat Science

Chair: Gregg Rentfrow, University of Kentucky

Convention Center – Meeting Room 201 C

1:00 PM 40

Fatty acid composition of muscle lipids of lambs fed fish supplemented diet. T. Popova*, P. Marinova, and V. Banskalieva, *Institute of Animal Science, Kostinbrod, Bulgaria.*

1:15 PM 41

Fatty acid composition, including CLA's isomers and cholesterol content of m. *longissimus lumborum* and m. *semimebranosus* of Katahdin, Suffolk, Katahdin x Suffolk, and Suffolk x Katahdin lambs.

G. Davila El Rassi^{*1}, V. Banskalieva¹, R. Albers-Nelson¹, M. Velasco¹, M. Brown², and C. Roy¹, ¹Oklahoma State University, Stillwater, ²USDA-ARS, Grazinglands Research Laboratory, Reno, OK.

Extension

Livestock Extension

Chair: John Arthington, University of Florida, Range Cattle Research and Education Center

Convention Center – Meeting Room 201 D

1:30 PM

Results of the Arkansas Beef Audit.

13

Self assessment of Arkansas' producers with small cow-calf herds. T. R. Troxel^{*1}, R. Poling¹, S. Eddington², and T. Justice^{2,3}, ¹University of Arkansas, Little Rock, ²Arkansas Farm Bureau, Little Rock, AR, ³Arkansas Beef Council, Little Rock, AR.

14

Self assessment of the Arkansas beef cattle support industries. T. R. Troxel^{*1}, R. Poling¹, T. Riley¹, and T. Justice^{2,3}, ¹University of Arkansas, Little Rock, ²Arkansas Farm Bureau, Little Rock, AR, ³Arkansas Beef Council, Little Rock, AR.

15
Self assessment of Arkansas' producers with large cow-calf herds. T. R. Troxel¹, B. L. Barham*¹, R. Poling¹, and T. Justice^{2,3}, ¹*University of Arkansas, Little Rock*, ²*Arkansas Farm Bureau, Little Rock, AR*, ³*Arkansas Beef Council, Little Rock, AR*.

16

Self assessment of the Arkansas stocker cattle industry. T. R. Troxel¹, K. S. Lusby², J. T. Richeson*¹, R. Poling¹, and T. Justice^{3,4}, ¹University of Arkansas, Little Rock, ²University of Arkansas, Fayetteville, ³Arkansas Farm Bureau, Little Rock, AR, ⁴Arkansas Beef Council, Little Rock, AR.

17

Self assessment of the Arkansas purebred cattle industry. T. R. Troxel¹, M. S. Gadberry*¹, J. T. Richeson¹, R. Poling¹, and T. Justice^{2,3}, ¹University of Arkansas, Little Rock, ²Arkansas Farm Bureau, Little Rock, AR, ³Arkansas Beef Council, Little Rock, AR.

2:30 PM

Livestock Extension – Responsiveness Evaluation.

18

Extension response to drought conditions affecting livestock operations. J. Parish*¹, J. Rowntree², J. Anderson¹, C. Navarre², M. Howell¹, and S. Seal¹, ¹Mississippi State University Extension Service, Mississippi State, ²Louisiana State University Agricultural Center, Baton Rouge.

19

Extension disaster preparedness: Lessons from hurricanes Katrina and Rita. J. Rowntree*¹, J. Parish², C. Navarre¹, M. Keene², M. Howell², L. Newman², and E. Collum², ¹Louisiana State University Agricultural Center, Baton Rouge, ²Mississippi State University Extension Service, Mississippi State.

3:00 PM

Break.

3:15 PM

20

Relative value of soybean hulls (SBH) and dry corn gluten feed (CGF) from two sources on performance and economic return from stocker cattle fed hay-based diets. M. H. Poore*, North Carolina State University, Raleigh.

3:30 PM

21

Performance of feeder steers fed differing levels of soybean hulls and corn on a hay-based ration. A. E. Fisher¹, C. J. Richards², W. W. Gill*¹, and C. D. Lane, Jr.¹, ¹University of Tennessee, Knoxville, ²Oklahoma State University, Stillwater.

3:45 PM

22

Impact of the initiation of the Florida Beef Quality Assurance program. M. Hersom*, T. Thrift, and M. Irsik, University of Florida, Gainesville.

4:00 PM

23

Effects of pen sanitation and plasma protein supplementation on performance of weanling pigs. A. F. Harper* and M. J. Estienne, Virginia Polytechnic Institute and State University, Blacksburg.

4:15 PM

24

Effects of exit speed velocity on feedlot performance and carcass traits of Angus, Brangus, and Braford steers. J. E. Rossi*, J. F. Baker, P. T. Cannon, and B. G. Mullinix, Jr., University of Georgia, Tifton.

4:30 PM

25

Effects of monensin fed to pregnant beef cows wintered on hay. J. T. Johns*¹, W. R. Burris¹, K. D. Bullock¹, and E. Thomas², ¹University of Kentucky, Lexington, ²Elanco Animal Health, Indianapolis, IN.

4:45 PM

26

Participant evaluation of the Tennessee Master Beef Producer Program. J. B. Neel*, A. E. Fisher, C. D. Lane, Jr., W. W. Gill, and F. D. Kirkpatrick, University of Tennessee, Knoxville.

**Small Ruminant Production III
Small Ruminant Reproduction, Pastures,
Genetics and Modeling**

Chair: Joan Burke, Dale Bumpers Small
Farm Research Center USDA-ARS
Convention Center – Meeting Room 201 C

1:30 PM 108

Production traits of Dorper crossbred ewes in an accelerated lambing system in the tropics. R. W. Godfrey*, R. E. Dodson, M. C. Vinson, and R. C. Driscoll, *University of the Virgin Islands, Agricultural Experiment Station, Kingshill, Virgin Islands.*

1:45 PM 109

The effect of adequate or sub-optimal nutrition during anestrus on reproduction in crossbred does. C. Rosales-Nieto¹, J. Gudino¹, M. D. Eaton¹, K. Collard¹, and R. L. Stanko^{1,2}, ¹*Texas A&M University-Kingsville.*, ²*Texas A&M University Agricultural Research Station, Beeville.*

2:00 PM 110

Estrus response and timing of ovulation in estrus synchronized goats and hair sheep treated with a combination of eCG and hCG. S. Wildeus* and J. R. Collins, *Virginia State University, Petersburg.*

2:15 PM 111

Fertility of bucks in the Langston Buck Performance Test. S. P. Hart* and T. A. Gipson, *E (Kika) de la Garza American Institute for Goat Research, Langston University, Langston, OK.*

2:30 PM 112

Performance of goat kids grazing fescue alone or with supplement. K. M. Andries¹, J. Bernheart², and S. Beaufont², ¹*Kentucky State University, Frankfort,* ²*WB Saul Agriculture High School, Philadelphia, PA.*

2:45 PM 113

Initiating a pasture-based meat goat performance test in Western Maryland. S. Schoenian¹, J. Semler², J. Deitz-Band¹, W. Lantz⁴, and M. B. Bennett², ¹*University of Maryland Cooperative Extension, Keedysville, MD,* ²*West Virginia University Cooperative Extension, Martinsburg, WV,* ³*University of Maryland Cooperative Extension, Boonsboro, MD,* ⁴*University of Maryland Cooperative Extension, Mt. Lake Park, MD.*

3:00 PM 114

Prewaning body weights of meat goat kids produced in a three-breed diallel managed on southeastern pastures. R. Browning, Jr.*, B. Donnelly, T. Payton, and M. Byars, *IAGER-Tennessee State University, Nashville.*

3:15 PM 115

Development of a dairy goat model to study the impact of management strategies on the dynamics of the herd. V. P. Guimarães^{1,2}, L. O. Tedeschi², and M. T. Rodrigues¹, ¹*Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil,* ²*Texas A&M University, College Station.*