SOUTHERN SECTION
American Society of Animal Science

ANNUAL MEETING
February 6-8, 2011
Corpus Christi, Texas

In conjunction with the 108th Annual Convention of the Southern Association of Agricultural Scientists

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**Swine Industry Award for Innovation**
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**Young Animal Scientist – Research**
Elanco Animal Health
Greenfield, IN

**Extension Award**
Boehringer Ingelheim, Vetmedica Division
St. Joseph, MO

**Young Animal Scientist – Education**

**Emerging Scholar Award**
Pfizer Animal Health
New York, New York

**Undergraduate Paper Competition**

**Graduate Student Awards Competition**
PROGRAM EVENTS

Friday, February 4
Academic Quadrathlon (AQ)
9:00 PM Advisors Meeting
College Station, TX

Saturday, February 5
AQ Lab Practicum and Written Exam
College Station, TX

Bayfront
Corpus Christi, TX

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

AQ Oral Presentation
8:00 AM – noon – Capano

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

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

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

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

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

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

SAAS Board Meeting
2:30 PM – 3:30 PM - Bayview
SAAS General Session/Business Meeting
4:00 PM – 6:00 PM
Nueces Ballroom A

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

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

**Monday, February 7**

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

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

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

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

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

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

**Tuesday, February 8**

SAAS Board Breakfast Meeting
7:00 AM – 10:00 PM – Bayview
Registration
8:00 AM - noon
Preassembly Area

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

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

Extension Luncheon
12:00 PM – 2:00 PM
Bayview
SYMPOSIA AND ORAL SESSIONS

Sunday, February 6

SCC 81: Sustainable Small Ruminant Production IEG
Aransas
8:00 AM
SCC 81: Sustainable Small Ruminant Production IEG.

SCC 72: Enhancing Reproductive Efficiency in Cattle IEG
Capano
1:00 PM
SCC 72: Enhancing Reproductive Efficiency in Cattle IEG.

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

SS-ASAS Advisory Committee and Executive Committee
Partnership Boardroom
6:00 PM
SS-ASAS Advisory Committee and Executive Committee.
Monday, February 7

SYMPOSIA AND ORAL SESSIONS

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

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

8:15 AM  2
**The accuracy of ultrasound measurements taken prior to slaughter to measure carcass traits in beef cattle.**

8:30 AM  3
**The relationship of body condition score and subcutaneous and internal fat measurements by real-time ultrasound in crossbred beef cows.**

8:45 AM  4
**Effects of genotype and fescue cultivar on steer gain and carcass traits.**

9:00 AM  5
**A comparison of ruminal and large intestinal microbial population of residual feed intake-indexed Brahman bulls under grazing conditions.**
L. M. Wiley*, L. O. Tedeschi, T.D.A. Forbes, F.M. Rouquette, Jr., R.D. Randal, F.R.B. Ribeiro, and S.E. Dowd, Texas A&M University, College Station, Texas Agrilife Research, Uvalde, Texas Agrilife Research, Overton, Texas A&M University, Commerce, Medical Biofilm Research Institute and Research and Testing Laboratory, Lubbock, TX.
9:15 AM  6
Effects of residual feed intake classification on feed efficiency, ultrasound and feeding behavior traits in Angus based composite steers.

9:30 AM  7
Effects of spray-dried porcine plasma (SDPP) administered as an oral gavage on pre-weaning growth performance in piglets.
L.M. Wittish* and M.J. Estienne, *Virginia Polytechnic Institute and State University, Blacksburg.

9:45 AM  8
Effect of timing of BRD vaccination on performance of stocker cattle during receiving.
K Poe*, P Beck, D Hubbell, T Hess, and J Richeson, University of Arkansas, Fayetteville.

Teaching and Undergraduate Education
Chair: Charles Rosenkrans, Jr., University of Arkansas
Nueces Ballroom B

8:15 AM  9
Cattle handling demonstrations for undergraduate students.
W. Owsley* and C. Bratcher, Auburn University, Auburn, AL.

8:30 AM  Discussion.

OTHER EVENTS

Interdisciplinary Beef Cattle Symposium
Chair: Matt Poore, North Carolina State University
Aransas

8:30 AM  Rethinking heifer development. Slow vs. accelerated development (and challenging our traditional target weight concepts).
Rick Funston, University of Nebraska.

9:15 AM  Advances in estrous synchronization programs for heifers (including new information specific to Indicus heifers).
Gary Williams, Texas A&M University.
10:00 AM
Break.

10:20 AM
Addressing nutrition and management challenges for replacement heifers.
John Arthington, University of Florida.

11:05 AM
Designing and developing the replacement heifer of the future.
Glenn Rogers, Pfizer Animal Health.

11:50 AM
Discussion.

SYMPOSIA AND ORAL SESSIONS

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

9:00 AM 10
Forage characteristics and beef cattle production from continuously stocked triticale, wheat and ryegrass pasture.
L. A. Smith*, S. P. Schmidt, W. F. Owsley, and R. B. Muntifering, Auburn University, Auburn, AL.

9:15 AM 11
Effects of grazing stockpiled endophyte-infected tall fescue pastures on growth and physiological indices of dairy heifers.
R. Henry*1, J. Huff2, S. Reiter1, W. Coblentz2, M. Looper2, and C. Rosenkrans, Jr.1, 1University of Arkansas, Fayetteville, 2USDA-ARS, Marshfield, WI, 3USDA-ARS, Booneville, AR.

9:30 AM 12
Variability in nutritive value of distillers' grains.
M. L. Drewery*, J. E. Sawyer1, N. M. Kenney1, M. S. Cabaniss1, W. E. Pinchak2, and T. A. Wickersham1, 1Texas A&M University, College Station, 2Texas AgriLife Research, Vernon, TX.

9:45 AM 13
Effects of pre-weaning traits on BVDV type I immunoglobulin response to vaccination in beef calves.
10:00 AM  14
Identification of QTL for two measures of feed efficiency in Nellore-Angus F2 steers.
J. D. Luck*, T. S. Amen, D. G. Riley, A. D. Herring, P. K. Riggs, J. E. Sawyer, J. O. Sanders, and C. A. Gill, Texas A&M University, Department of Animal Science, College Station.

10:15 AM
Break.

10:30 AM  15
Effects of clarified Noni juice or Noni pulp on the shelf life and color stability of ground beef patties.

10:45 AM  16
The effect of adipocyte determination and differentiation factor-1 (ADD1) on fresh pork quality.
M. L. Penick*, T. J. Wistuba1, S. J. Moeller2, H. N. Zerby2, and R. S. Emnett-Miculinich1, 1Morehead State University, Morehead, KY, 2The Ohio State University, Columbus.

11:00 AM  17
Effects of on-arrival versus delayed vaccination with or without metaphylaxis on performance and health of stocker cattle.
K. M. Newsom*, A. J. Cain1, J. F. Roberts1, C. S. Darroch1, and C. R. Bailey2, 1University of Tennessee, Martin, 2Stephen F. Austin State University, Nacogdoches, TX.

11:15 AM  18
Utilizing tropical forage legumes to supplement young goats fed a basal diet of sudangrass hay.
T. E. Lutz*, F. N. Mhlanga, S. G. Fox, M. A. Nicodemus, and E. Pierce, Abilene Christian University, Abilene, TX.

11:30 AM  19
Evaluating the combined effects of RADEX and TASCO-14 on utilization of poor quality roughages by small ruminants.
A. Simon*, F. N. Mhlanga1, R. H. Anderson2, J. Cosby1, and E. Pierce1, 1Abilene Christian University, Abilene, TX, 2Andersons Consulting & Training Service Inc, Weatherford, TX.
OTHER EVENTS

Coffee Break
(Preassembly Area)
9:30 AM
Coffee Break.

SYMPOSIA AND ORAL SESSIONS

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

10:15 AM  20
Effects of forage and breed type on grazing behavior and temperament of beef heifers.
A. R. Boyer*, M. L. Looper, K. P. Coffey, and C. F. Rosenkrans, Jr.
University of Arkansas, Fayetteville, "Dale Bumpers Small Farms Research Center, Booneville, AR.

10:30 AM  21
Performance of stocker steers grazing native warm-season grasses during the summer in Tennessee.
University of Tennessee, Knoxville.

10:45 AM  22
Effects of cow weight at weaning on forage intake, milk yield, and calf weaning weight.
G.L. Mourer, C.P. McMurphy, A.J. Sexten, and D.L. Lalman, Oklahoma State University, Stillwater.

11:00 AM  23
Influence of fescue and heat shock protein haplotype on heifer growth.
J. D. Patterson*, M. L. Looper, B. C. Williamson, M. A. Sales, R. J. Page, and C. F. Rosenkrans, Jr.
University of Arkansas, Fayetteville, USDA/ARS DBSFR, Booneville, AR.

11:15 AM  24
Concentration effects of ergot alkaloids on cytochrome P450 using the Promega™ P450-glo assay.
N.S. Ezell*, A. Moubarak, C. Rosenkrans, Jr., and M.L. Looper, University of Arkansas, Fayetteville, USDA-ARS, Booneville, AR.
11:30 AM  25  
Effects of bale feeder design and processing on hay waste, intake, and performance of beef cattle.
A. J. Sexten*, C. P. McMurphy, G. L. Mourer, C. J. Richards, C. Jones, R. Huhnke, T. J. Kraus, and D. L. Lalman, 1Oklahoma State University, Stillwater, 2John Deere, Ottumwa, IA.

11:45 AM  26  
Relationships among single nucleotide polymorphisms in the cytochrome P450 gene and the enhancer region of the prolactin gene, molecular breeding values, and steer performance.
B. C. Williamson*, M. L. Looper, J. D. Patterson, M. A. Sales, K. P. Coffey, M. A. Ata, and C. F. Rosenkrans, Jr., 1University of Arkansas, Fayetteville, 4USDA/ARS, DBSFC, Booneville, AR.

12:00 PM  27  
Determining effects of two deworming protocols on fecal egg counts and growth performance in beef calves.

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

1:00 PM  28  
SS-ASAS Emerging Scholar Award:  
Dietary and genetic effects on cellular copper homeostasis in cattle.
R.S. Fry*, M.S. Ashwell, and J.W. Spears, 1North Carolina State University, Raleigh.

1:45 PM  29  
Variability in mineral composition of distillers' grains.
M.L. Drewery*, J.E. Sawyer, N.M. Kenney, M.S. Cabaniss, W.E. Pinchak, and T.A. Wickersham, 1Texas A&M University, College Station, 2Texas AgriLife Research, Vernon, TX.

2:00 PM  30  
Effect of daily or alternate day distillers grains supplementation with or without Rumensin® on performance of growing heifers.
2:15 PM  31  
**Intake control agents for self-fed distillers' grains.**  
J. D. Sugg¹, T. A. Wickersham¹, W. E. Pinchak¹, S. A. Clement², and J. E. Sawyer¹,²  
¹Texas A&M University, College Station, ²Texas Agrilife Research, McGregor, TX, ³Texas Agrilife Research, Vernon, TX.

2:30 PM  32  
**Dried distiller grains fed to calves on bahiagrass and bermudagrass pastures before weaning.**  
G. M. Hill¹, K. C. Halbig¹, A. N. Franklin¹, and V. A. Coriher²  
¹University of Georgia, Tifton, ²Texas AgriLife Ext. Ctr., Overton, TX.

2:45 PM  33  
**Performance of beef calves provided molasses-based creep supplements.**  
J. D. Arthington*, University of Florida-IFAS, Range Cattle Research and Education Center, Ona.

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

1:15 PM  34  
**Heart rate and physical activity in growing Bonsmara heifers with divergent residual feed intake fed in confinement or on pasture.**  
A. N. Hafla¹, G. E. Carstens¹, T. D. A. Forbes², J. C. Bailey¹, and E. A. Dany¹  
¹Texas A&M University, College Station, ²Texas AgriLife Research, Uvalde, TX.

1:30 PM  35  
**The relationship of cow size and calf birth weight to calf weaning weight in a commercial Brangus cow/calf operation.**  
C.D. Dobbs¹, M.A. Brown², and D.L. Lalman¹  
¹Oklahoma State University, Stillwater, ²USDA ARS Grazinglands Research Laboratory, El Reno, OK.

1:45 PM  36  
**Glycerol inhibition of ruminal lipolysis in vitro.**  
H. Edwards¹, R. Anderson², R. Miller¹, T.M. Taylor¹, M. Hardin¹, S. Smith¹, N. Krueger², and D. Nisbet²  
¹Texas A&M University, College Station, ²United States Department of Agriculture/Agricultural Research Service, Southern Plains Agricultural Research Center, Food & Feed Safety Research Unit, College Station, TX.

2:00 PM  37  
**Identification of key proteins associated with fat accretion in broiler chickens using a proteomics approach.**  
G. Kelley*, A. Stewart, X. Wang, F. Chen, and S. Nahashon, Tennessee State University, Nashville.
2:15 PM 38
**Evaluation of optimum calcium and phosphorus requirement for pearl grey guinea fowl laying hens.**

2:30 PM 39
**Evidence for the expression of a genetically diverse glucose-dependent insulinotropic polypeptide (GIP) gene in the avian hypothalamus.**
J. Tyus*, N. Bonner, and S. Nahashon, *Tennessee State University, Department of Agricultural Sciences, Nashville.*

2:45 PM Break.

3:00 PM 40
**Developing a low-cost, sustainable feeding system using sweet potato forage for growing rabbits.**

3:15 PM 41
**The effects of ergot alkaloids on bovine sperm motility.**
R. J. Page*, R. W. Rorie¹, T. D. Lester¹, C. L. Williams¹, M. L. Looper², J. D. Patterson¹, M. P. Rowe¹, and C. F. Rosenkrans¹, ¹*University of Arkansas, Fayetteville, ²USDA-ARS, Booneville, AR.*

3:30 PM 42
**The effect of plant-tannins on mature fat cells regulation in goats.**
F. Xie¹, R. A. Katchko¹, B. Fielder-Dierking¹, M. A. Ramirez¹, E. A. Benavides¹, R. L. Stanko¹², and M. R. Garcia¹, ¹*Texas A&M University, Kingsville, ²Texas AgriLife Research Station, Beeville, TX.*

3:45 PM 43
**Leptin influences normal formation of the corpus luteum in the caprine species.**
M. A. Ramirez¹, F. Xie¹, E. A. Benavides¹, R. A. Katchko¹, L. Ayala¹, D. H. Keisler³, R. L. Stanko¹², and M. R. Garcia¹, ¹*Texas A&M University, Kingsville, ²Texas A&M University, AgriLife Research Station, Beeville, ³University of Missouri, Columbia.*

4:00 PM 44
**Relationship of Angus x Charolais cow measurements prepartum with subsequent calf performance.**
A Davis¹, M. L. Looper², T. P. Neidecker³, B. C. Williamson¹, D. L. Kreider¹, and C. F. Rosenkrans¹, ¹*University of Arkansas, Department of Animal Science, Fayetteville, ²USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR, ³Neidecker Farms, Van Buren, AR.*
Small Ruminant Production I: 
Parasite Control 
Chair: Niki Whitely, North Carolina 
A&T University 
Laguna Madre

1:30 PM 45
Small ruminant integrated parasite management and FAMACHA© training in the United States.

1:45 PM 46
Evaluation of sericea lespedeza grazed as a summer forage and natural gastrointestinal parasite control for goats.
J-M. Luginbuhl*, H.M. Glennon*, J.E. Miller†, and T.H. Terrill†, North Carolina State University, Raleigh, Louisiana State University, Baton Rouge, Fort Valley State University, Fort Valley, GA.

2:00 PM 47
Effect of feeding sericea lespedeza leaf meal on establishment of gastrointestinal nematode larvae in goats.
D.S. Kommuru*, T.H. Terrill†, B.R. Joshi†, A. Mechineni†, S. Gujja†, J.E. Miller†, J.A. Mosjidis†, and J.M. Burke†, Fort Valley State University, Fort Valley, GA, Louisiana State University, Baton Rouge, Auburn University, Auburn, AL, USDA/ARS/DBSFRC, Booneville, AR.

2:15 PM 48
Influence of condensed tannins from sericea lespedeza on fecal shedding of antibiotic resistance-selected Escherichia coli O157:H7 in rams.
M.L. Looper*, T.S. Edrington², J.M. Burke†, J.E. Miller†, J.A. Mosjidis§, T.H. Terrill§, K.J. Genovese§, T.R. Callaway*, B.C. Williamson*, and C.F. Rosenkranz, Jr.§, USDA-ARS, Booneville, AR, USDA-ARS, College Station, TX, Louisiana State University, Baton Rouge, Auburn University, Auburn, AL, Fort Valley State University, Fort Valley, GA, University of Arkansas, Fayetteville.

2:30 PM 49
Comparison of copper oxide wire particles, copper sulfate and anthelmintic treatment for controlling gastrointestinal nematode infection in lambs.
J.E. Miller*, J.M. Burke§, J. Garza†, S. Callahan†, and T.H. Terrill†, Louisiana State University, Baton Rouge, USDA ARS, Booneville, AR, Fort Valley State University, Fort Valley, GA.
The efficacy of Rabon (tetrachlorvinphos) as a treatment for trichostrongylosis in small ruminants.
J. Garza*, J. Bunagan, V. Kelly, and J. Miller, 1Louisiana State University, 2University of Texas, Pan American, 3Oklahoma State University, Stillwater.

Influence of season of lambing on gastrointestinal nematode infection of lambs.
J.M. Burke and J.E. Miller, 1USDA, ARS, Booneville, AR, 2Louisiana State University, Baton Rouge.

Testing efficacy of anthelmintic combinations in goats.
S. Hart, L. Dawson, and Z. Wang, 1Langston University, E (Kika) de la Garza American Institute for Goat Research, Langston, OK, 2Oklahoma State University, Boren College of Veterinary Medicine, Stillwater.

Efficacy of garlic juice, copper oxide wire particles, and anthelmintics to control gastrointestinal nematodes in goats.
A. D. Courter, M. K. Neary, T. K. Hutchens, K. Andries, J. E. Miller, L. M. Pezzanite, J. E. Tower, and M. E. Einstein, 1Purdue University, West Lafayette, IN, 2University of Kentucky, Lexington, 3Kentucky State University, Frankfort, 4Louisiana State University, Baton Rouge.

Sunhemp with chicory or pearl millet to minimize gastrointestinal nematode infection in weaned goats.
J.M. Burke, J.A. Mosjidis, J.E. Miller, P. Casey, and T.H. Terrill, 1USDA, ARS, Booneville, AR, 2Auburn University, Auburn, AL, 3Louisiana State University, Baton Rouge, 4Heifer International, Perryville, AR, 5Fort Valley State University, Fort Valley, GA.

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

Genetic parameter estimates for weaning chute behavior score as an indicator trait for temperament in purebred Angus calves.
2:15 PM  56
**QTL mapping for overall temperament at weaning in Nellore-Angus cattle using Bayesian Inference.**
L.L. Hulsman*, S.O. Peters, J.O. Sanders, A.D. Herring, C.A. Gill, and D.G. Riley, *Texas A&M University, Department of Animal Science, College Station, New Mexico State University, Department of Animal and Range Sciences, Las Cruces, NM.

2:30 PM  57
**Factors affecting birth weight in Bolivian purebred Nelore cattle.**

2:45 PM  58
**Heterosis for calving and weaning rates in Brahman-Hereford cows.**
L. Boenig*, D.G. Riley, J.O. Sanders, and J.A. Sawyer, Texas A&M University, College Station.

3:00 PM  Break.

3:15 PM  59
**Evaluation of F1 cows by Brahman, Boran, and Tuli bulls for reproductive, maternal and longevity traits.**
C.T. Muntean*, J.O. Sanders, A.D. Herring, and D.G. Riley, Texas A&M University, College Station.

3:30 PM  60
**Coefficient of heritability for underline scores in Beefmaster cattle.**

3:45 PM  61
**Effects of hair coat shedding on weaning performance and association to hair measurements in beef cattle females.**
N. B. Simmons*, M. L. Marks, J. A. Parish, S. T. Willard, and T. Smith, Mississippi State University, Starkville.
Effects of osteopontin single nucleotide polymorphisms on bull semen quality.
C.L. Williams*, T.D. Lester, M.P. Rowe, C.F. Rosenkrans, Jr., and R.W. Rorie, University of Arkansas Division of Agriculture, Fayetteville.

OTHER EVENTS

Small Ruminant Subcommittee of the NAGP
Laguna Madre

7:00 PM
Small Ruminant Subcommittee of the NAGP.

Tuesday, February 8

SYMPOSIA AND ORAL SESSIONS

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

8:00 AM 63
SS-ASAS Emerging Scholar Award:
Weaning management of newly received beef calves with or without exposure to a persistently infected bovine viral diarrhea virus type 1b calf: Effects on health, performance, bovine viral diarrhea virus type 1a titers, and circulating leukocytes
J. T. Richeson†1, E. B. Kegley1, B. L. Vander Ley2, and J. F. Ridpath3, 1University of Arkansas, Fayetteville, 2Iowa State University, Ames, 3USDA-ARS, National Animal Disease Center, Ames, IA.

8:45 AM 64
Performance of beef steers finished on three forage systems in the deep South.
G. Scaglia†1, J. Rodriguez2, G. Gentry2, K. McMillin2, and J. Gillespie3, 1Louisiana State University, Agricultural Center, Iberia Research Station, Jeanerette, 2Louisiana State University, Agricultural Center, School of Animal Sciences, Baton Rouge, 3Louisiana State University, Agricultural Center, Department of Agricultural Economics and Agribusiness, Baton Rouge.
9:00 AM  65
Do heating treatments change the cis-9, trans-11 conjugated linoleic acid level in dairy products?
G. Davila-El Rassi and V. Banskalieva*, Oklahoma State University, Robert M. Kerr Food and Agricultural Products Center, Stillwater.

9:15 AM  66
Effects of form and level of nitrogen intake on serum urea nitrogen and urine urea nitrogen concentrations, and total nitrogen excretion in feedlot cattle.
A Gueye1,2, C.R. Richardson2, and N.A. Cole3, 1Mount Ida College, Newton Center, MA, 2Texas Tech University, Lubbock, 3USDA-ARS Conservation and Production Research Laboratory, Bushland, TX.

9:30 AM  67
Influence of crude glycerin in the growing diet on Angus and Braunvieh-sired steer calves.
M.H. Poore*, J.P. Cassady, M.A. Alley, and K.A. Gray, North Carolina State University, Raleigh.

9:45 AM  68
Evaluation of an ear-mounted thermometer device and antibiotic metaphylaxis in newly received beef calves.

Extension I
Chair: Jeff Lehmkuhler, University of Kentucky Capano

8:15 AM  69
A survey of soil and plant tissue nutrient status of established bahiagrass pastures in south west Florida.

8:30 AM  70
Forage/management systems for beef cow-calf production.

8:45 AM  71
Effect of stocking rate on the dawn to dusk activity of non-lactating beef cows.
M.S. Gadberry1, G. Montgomery2, and W. Whitworth2, 1University of Arkansas, Coop Ext Serv, Little Rock, 2University of Arkansas, SEREC, Monticello.
9:00 AM  72
An intensive production system using lightweight stocker cattle as an alternative to traditional systems.

9:15 AM  73
UGA basic balancer: A computer based ration balancing program.
R.L. Stewart, Jr.*, D.W. Hancock¹, and R.C. Lacy², ¹University of Georgia, Athens, ²University of Georgia, Tifton.

9:30 AM  74
Evaluation of ranking performance tested bulls by reducing the testing period from 112 Days to 84 days.
F.D. Kirkpatrick*, J.B. Neel, and B.T. Campbell, University of Tennessee, Knoxville.

9:45 AM  75
Using estrus synchronization and AI to improve market value of calves.
L. H. Anderson*, K. D. Bullock¹, J. D. Rhinehart², J. W. Lehmkhuler¹, and W. R. Burns¹, ¹University of Kentucky, Lexington, ²University of Tennessee, Knoxville.

10:00 AM  
Break.

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

8:15 AM  76
Effects of sow stocking rates on soil nutrients in a bermudagrass (Cynodon dactylon) pasture.
S. Pietrosemoli¹, J. C. Guevara², and J. T. Green³, ¹North Carolina State University, Animal Science Department, Raleigh., ²Alternative swine research and extension project, Raleigh, NC., ³North Carolina State University, Crop Science Department, Raleigh.

8:30 AM  77
Effects of year-round stocking rates and stocking methods on cow-calf productivity and forage nutritive value.
W. E. Wyatt¹, B. C. Venuto², J. M. Gillespie³, and D. C. Blouin¹, ¹Louisiana State University Agricultural Center, Jeanerette, ²Grazing Lands Research Laboratory, USDA, ARS, El Reno, OK, ³Louisiana State University Agricultural Center, Baton Rouge.
Comparing nitrogen fertilizer to interseeded clovers or alfalfa in bermuagrass pastures for growing calves.

Intake and digestibility of corn stover by beef cattle.

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

Effect of cultivar, maturity, and harvest form of peanut (Arachis hypogaea) on nutritive value and in situ degradation kinetics.
J. L. Foster*, G. C. Lamb, B. Tillman, J. Marois, D. Wright, and M. K. Maddox. Texas A&M University, Texas AgriLife Research, Department of Soil and Crop Sciences, Beeville, North Florida Research and Education Center, University of Florida Department of Animal Sciences, Marianna, North Florida Research and Education Center, Agronomy Department, Marianna.

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

Forage quality of triticale fertilized with poultry litter or commercial fertilizer.
C. Britton, W. Owlsley*, R. Muntifering, and C. Wood. Auburn University, Auburn, AL.

Effect of endophyte infected tall fescue seed extract on cytochrome P450 system.
Ingestion of tall fescue (Festuca arundinacea Schreb.) seed reduces surface temperature of Angus steers in a thermoneutral environment. B. Junell*, G. Huntington, M. Ashwell, M. Poore, and A. Rodger, North Carolina State University, Raleigh.

**Physiology I**

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

Laguna Madre

8:15 AM 86

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

N.C. Burdick1,2, L.E. Hulbert1,3, J.A. Carroll1, L.C. Caldwell1, M.A. Ballou2, R.C. Vann3, A.N. Loyd2, T.H. Welsh, Jr.3, and R.D. Randel5, 1Livestock Issues Research Unit, USDA-ARS, Lubbock, TX, 2Texas AgriLife Research, Texas A&M System, College Station, 3Texas Tech University, Department of Animal and Food Sciences, Lubbock, 4MAFES, Mississippi State University, Raymond, 5Texas AgriLife Research, Overton, TX.

8:30 AM 87

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

B.L. Bradbury1, R.C. Vann2, L.C. Mapel3, A.W. Lewis1, T.H. Welsh Jr.3, and R.D. Randel1, 1Texas AgriLife Research, Overton, TX, 2MAFES-Brown Loam Experiment Station, Raymond, MS, 3Texas AgriLife Research, College Station, TX.

8:45 AM 88

**Plasma cortisol levels in roping calves.**

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

9:00 AM 89

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

D.L. Rubino1,2, A.J. Weis1, A.M. Hogg1, and R.W. Godfrey1, 1University of the Virgin Islands, St Croix, 2Delaware Valley College, Doylestown, PA.

9:15 AM 90

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

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

9:30 AM

Break.
9:45 AM  91
**Effects of GnRH and prostaglandin combined with a short progestin regimen on the synchrony of estrus and pregnancy rate in ewes.**

10:00 AM  92
**Evaluation of organic versus inorganic trace mineral supplementation on bull semen quality.**

10:15 AM  93
**Conception rates of sex-sorted semen in beef heifers and cows.**

10:30 AM  94
**Use of MATRIX® and P.G. 600® in combination to synchronize estrus in replacement gilts.**
M.J. Estienne*, Virginia Polytechnic Institute and State University, Blacksburg.

10:45 AM  95
**The incidence of calving was influenced by barometric pressure and maximum and minimum temperatures.**
T. R. Troxel*1 and Z. B. Johnson2, 1University of Arkansas, Little Rock, 2University of Arkansas, Fayetteville.

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

8:30 AM  96
**Growth performance and carcass characteristics of Awassi lambs fed diets containing carob pods (Ceratonia siliqua L).**

8:45 AM  97
Carcass characteristics of wether lambs fed increasing levels of distillers dried grains with solubles.
G. Abdelarhim*, J. Khatiwada, J. Vizcarra, N. Gurung, and D. Rankins, Alabama A&M University, Huntsville, Tuskegee University, Tuskegee, AL, Auburn University, Auburn, AL.

9:00 AM  98
Carcass characteristics of pasture-raised goats.
S.G. Schoenian*, M.B. Bennett, E.N. Escobar, D.G. Gordon, J.W. Semler, and M.S. Updike, University of Maryland, Keedysville, University of Maryland, Boonsboro, University of Maryland, Derwood, University of Maryland, College Park, West Virginia University, Martinsburg, University of Maryland, Eastern Shore, Princess Anne.

9:15 AM  99
Effect of feeding tannins-containing pine bark on growth performance, rumen fermentation, blood metabolites, and carcass traits in Kiko-cross goats.
B.R. Min*, S. Solaiman, N. Gurung, J. Behrends, J. Eun, E. Taha, and J. Rose, Tuskegee University, Tuskegee, AL, Mississippi State University, Mississippi State, Utah State University, Logan.

9:30 AM  Break.

9:45 AM  100
Treated olive cake as a non-forage fiber source: effects on nutrient intake, nutrient digestibilities, and performance of finishing Awassi lambs.
M. S. Awawdeh*, Jordan University of Science and Technology, Irbid, Jordan.

10:00 AM  101
Performance of two breeds of lactating hair sheep ewes fed rumen by-pass fat following winter lambing.
S. Wildeus* and E.J. Chozu, Virginia State University, Petersburg.

10:15 AM  102
Evaluating the influence of breed on hair coat characteristics and body temperature of hair sheep in the tropics.
T. Creighton*, A.M. Hogg, and R.W. Godfrey, University of the Virgin Islands, St Croix, Tuskegee University, Tuskegee, AL.

10:30 AM  103
The effects of increased molybdenum on testicular morphology and serum testosterone in Boer-Cross goats.
O. U. Bolden-Tiller*, T. Atkinson, K. Beguesse, and S. Solaiman, Tuskegee University, Tuskegee Institute, AL.
Extension II
Chair: Justin Rhinehart, University of Tennessee
Capano

10:15 AM  104
Assessing variability of on-farm post-weaning feeder calf performance.
J.W. Lehmkuhler*, K. Burdine, and W.R. Burris,
University of Kentucky, Lexington.

10:30 AM  105
Using electronic forms for rapid response.
J.W. Lehmkuhler*, S.R. Smith, G.D. Lacefield, M.
Bilderback, and W.R. Burris, University of Kentucky,
Lexington.

10:45 AM  106
Use of a cattle artificial insemination school as extension programming.
J. A. Parish, M. L. Marks*, and J. E. Larson,
Mississippi State University, Mississippi State.

11:00 AM  107
Use of a twice monthly videoconference to meet extension needs.
D.L. Rankins, Jr.* and W.N. Presley, Auburn
University, Auburn, AL.

11:15 AM  108
Beef IQ: Use of critical control points to evaluate and improve beef cattle management practices.
B. L. Barham*, M.S. Gadberry1, P. Beck2, W.
Witworth3, J. Jennings1, and J. Powell4, 1University of Arkansas, Division of Agriculture, Little Rock,
2University of Arkansas, Division of Agriculture,
Hope, 3University of Arkansas, Division of Agriculture,
Monticello, 4University of Arkansas, Division of Agriculture, Fayetteville.

11:30 AM  109
Beef IQ program: 2-year follow-up survey of participants.
M.S. Gadberry*, B.L. Barham1, T.R. Troxel1, P.
Beck2, W. Whitworth3, J. Powell4, and J. Jennings1,
1University of Arkansas, Coop Ext Serv, Little Rock,
2University of Arkansas, SWREC, Hope, 3University of Arkansas, SEREC, Monticello, 4University of Arkansas, Dept. of ANSC, Fayetteville.

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

1:15 PM  110
Building confidence and skills of female livestock extension agents.
A.D. Shaeffer*, M.H. Poore, M.J. Kistler, J.A. Moore,
and M.L. Alley, *North Carolina State University, Raleigh.*

1:30 PM 111
**The impact of "Beef Cattle Time" as perceived by Tennessee beef producers.**

1:45 PM 112
**Effect of size of beef operations on management techniques.**
J.B. Neel*, C.D. Lane¹, F.D. Kirkpatrick¹, W.W. Gill², and B.T. Campbell¹, *University of Tennessee, Knoxville, Middle Tennessee State University, Murfreesboro.*

2:00 PM 113
**Effect of producer characteristics on size of beef operations and management practices.**
B.T. Campbell*, J.B. Neel¹, C.D. Lane¹, F.D. Kirkpatrick¹, and W.W. Gill², *University of Tennessee, Knoxville, Middle Tennessee State University, Murfreesboro.*

2:15 PM 114
**Affects of fat content and source on consumption time by two year old quarter horses.**
M.L. McMillan*, K.R. Hall, S.F. Kelley, and L.R. McMillan, *Sam Houston State University, Huntsville, TX.*

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**Meats**

Chair: Ty Schmidt, Mississippi State University

Laguna Madre

1:15 PM 115
**Effects of phase-feeding beef tallow on growth performance and carcass characteristics of growing-finishing pigs fed dried distillers grains with solubles.**

1:30 PM 116
**Effects of residual feed intake classification on carcass characteristics, tenderness and value in Angus-based composite steers.**
1:45 PM  117
Translocation of surface-inoculated *Escherichia coli* into whole muscle non-intact beef striploins following blade tenderization.
D. Johns¹, C. Bratcher*¹, C. Kerth², and T. McCaskey¹, ¹Auburn University, Auburn, AL, ²Texas A&M University, College Station.

2:00 PM  118
Evaluating the flavor profile of pre-cooked roasts from forage versus grain fed beef.
K. McMurtrie¹, C. Bratcher*¹, C. Kerth², B. Smith³, and P. Curtis¹, ¹Auburn University, Auburn, AL, ²Texas A&M University, College Station, ³John R White, Birmingham, AL.

2:15 PM  119
Effects of cytochrome P450 genotype and tall fescue cultivar on taste panel evaluation of and alkaloid concentrations in beef.
C. Rosenkrans, Jr.*¹, M. Loopee¹, C. Krehbiel³, D. VanOverbeke³, and N. Hill⁴, ¹University of Arkansas, Fayetteville, ²USDA-ARS, Booneville, AR, ³Oklahoma State University, Stillwater, ⁴University of Georgia, Athens.

2:30 PM  120
Demographics of branded beef consumers: Have they changed over time?
M. Beverly², K. Stutts¹, S. Kelley¹, R. Hanagriff², and R. Rhoades², ¹Sam Houston State University, Huntsville, TX, ²Texas A&M University, Kingsville.

2:45 PM  121
Product characteristics and promotional items that impact consumer beef purchases.
K. J. Stutts¹, M. M. Beverly¹, S. F. Kelley¹, R. D. Hanagriff², and R. D. Rhoades², ¹Sam Houston State University, Huntsville, TX, ²Texas A&M University, Kingsville.

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**Physiology II**

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

**Aransas**

1:15 PM  122
Insulin resistance in Brahman bulls and heifers selected for residual feed intake.
G. L. Shafer*¹,², A. W. Lewis¹, D. A. Neuendorff¹, L. C. Mapel², T. D. A. Forbes³, T. H. Welsh, Jr², and R. D. Randel¹, ¹Texas AgriLife Research, Overton, ²Texas AgriLife Research, College Station, ³Texas AgriLife Research, Uvalde.
Chromium supplementation enhances the acute phase response of steers to a lipopolysaccharide (LPS) challenge.

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

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

1Texas AgriLife Research, Texas A&M System, College Station, 2Texas AgriLife Research, Texas A&M System, Overton, 3Livestock Issues Research Unit, USDA-ARS, Lubbock, TX, 4MAFES, Mississippi State University, Raymond, 5US Meat Animal Research Center, USDA-ARS, Clay Center, NE, 6Texas A&M University, College of Veterinary Medicine, College Station.

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

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

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

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

Effects of monensin on Campylobacter and Salmonella in vitro.

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

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

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