SOUTHERN SECTION
American Society of Animal Science

ANNUAL MEETING

January 31 – February 3, 2015
Atlanta, Georgia

In conjunction with the
2015 Annual Convention of the
Southern Association of Agricultural
Scientists

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Extension Award
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Young Animal Scientist – Education
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Undergraduate Paper Competition

Graduate Student Research Abstract Competition
PROGRAM EVENTS
Most events will take place at The Westin Peachtree Plaza, Atlanta, GA. Offsite events are noted below.

Friday, January 30
Academic Quadrathlon (AQ)
Advisors Meeting
9:00 PM
Holiday Inn Express
Athens, GA

Saturday, January 31
AQ Lab Practicum and Written Exam
All Day
The University of Georgia, Athens

Tall Fescue Summit
2:00 PM–5:00 PM
Chastain I (6th Floor)

Sunday, February 1
AQ Oral Preparation
6:30 AM–Noon
Peachtree Ballrooms (8th Floor)

AQ Oral Presentation
8:00 AM–Noon
Peachtree Ballroom C (8th Floor)

AQ Quiz Bowl
8:00 AM–1:00 PM
Peachtree Room 2 (8th Floor)

AQ Quiz Bowl Championship/Awards and Awards Program
8:00 AM–4:00 PM
Peachtree Ballroom D (8th Floor)

SCC 81: Sustainable Small Ruminant Production IEG
8:30 AM–12:00 PM
Augusta Room 2 (7th Floor)
Tall Fescue Summit
Working Session
9:00 AM–11:00 AM
Chastain I (6th Floor)

Registration
11:00 AM–4:00 PM
Chastain Terrace (6th Floor)

Design, Analysis, and
Execution of Quality Grazing
Research Symposium,
in conjunction with SERA 41
1:00 PM–6:00 PM
Augusta Ballroom B (7th Floor)

Genetic Diversity in Small Ruminants
– Implications for Production and
Profitability Symposium
in conjunction with SCC 81
1:00 PM–4:45 PM
Augusta Room 2 (7th Floor)

SAAS Board Meeting
2:30 PM–3:30 PM
Augusta Room 1 (7th Floor)

SAAS Business Meeting
4:00 PM–4:15 PM
Augusta Room 1 (7th Floor)

SAAS General Session
4:15 PM–5:30 PM
Augusta Room 1 (7th Floor)

SAAS Reception/Super Bowl Party
5:30 PM–10:00 PM
TBD

SS-ASAS Advisory Committee and
Executive Committee
6:00 PM–8:00 PM
Augusta Ballroom A (7th Floor)
Monday, February 2

Registration
7:30 AM–4:00 PM
Chastain Terrace (6th Floor)

SS-ASAS Coffee Break
9:30 AM–10:30 AM
Augusta Ballroom Foyer (7th Floor)

SS-ASAS Business Meeting and Awards Ceremony
5:30 PM–7:00 PM
Peachtree Ballroom C (8th Floor)

Small Ruminant Subcommittee of the NAGP
7:00 PM–9:15 PM
Augusta Ballroom G (7th Floor)

Tuesday, February 3

SAAS Board Breakfast Meeting
7:00 AM–10:00 AM
Chastain C (6th Floor)

Registration
8:00 AM–Noon
Chastain Terrace (6th Floor)

Graduate Student Lunch and Learn
Noon–2:00 PM
Augusta Room 3 (7th Floor)

Extension Luncheon
Noon–2:00 PM
Peachtree Room Terrace (8th Floor)
SYMPOSIA AND ORAL SESSIONS

Sunday, February 1

Design, Analysis, and Execution of Quality Grazing Research Symposium
Chair: Paul Beck,
University of Arkansas SWREC
Augusta Ballroom B (7th Floor)

1:00 PM
Welcoming Remarks

1:10 PM
Pros and cons of grazing management options in grazing studies.
G. E. Aiken*, USDA-ARS, Lexington, KY

1:40 PM
The roles of forage management, forage quality, and forage allowance in grazing research.
F. M. Rouquette*, Texas A&M AgriLife Research, Overton

2:40 PM
Break

2:55 PM
Designing a grazing experiment that can reliably detect meaningful differences.
R. Reuter* and C. A. Moffet, The Samuel Roberts Noble Foundation, Inc., Ardmore, OK

3:25 PM
Getting more information from your grazing research beyond cattle performance.
S. A. Gunter1 and N. A. Cole2, 2USDA-ARS, Woodward, OK, 1USDA-ARS, Bushland, TX

3:55 PM
Making research based extension recommendations from grazing experiments.
T. McCollum, Texas AgriLife Extension

4:25 PM
Panel Discussion

5:00 PM
SERA 41 Meeting
Genetic Diversity in Small Ruminants – Implications for Production and Profitability Symposium
Chair: Harvey Blackburn, USDA-ARS
Augusta Room 2 (7th Floor)

1:05 PM  
**Introduction to symposium**  
P. Purdy and H. Blackburn, USDA-ARS, Ft. Collins, CO

1:15 PM  
**Assessment of small ruminant genetic diversity: Selection approaches, gene bank use, and areas of needed progress.**  
D. F. Waldron*, Texas AgriLife Research, San Angelo

1:45 PM  
**Emerging climate change issues: Health x forage x genetic interactions.**  
J. M. Burke*, USDA-ARS, Booneville, AR

2:15 PM  
**How might small ruminant industries utilize genomic tools? RNA Seq and Juniper utilization.**  
P. K. Riggs*, Texas A&M University, College Station

2:45 PM  
**Break**

3:00 PM  
**Emerging reproductive technologies that enhance genetic resource use.**  
S. Wildeus* and P. Purdy*, 1Virginia State University, Petersburg, 2USDA-ARS, Ft. Collins, CO

3:30 PM  
**Improving minor and rare breed competitiveness.**  
A. G. Martin*, The Livestock Conservancy, Pittsboro, NC

4:00 PM  
**Comments on the talks and discussion of how the research community might address production and genetic diversity issues.**
Monday, February 2

Bill E. Kunkle Interdisciplinary Beef Symposium
Chair: John D. Arthington, UF/IFAS, Range Cattle Research and Education Center
Chastain Room 1 (6th Floor)

8:00 AM
Welcoming Remarks

8:05 AM
Coping with tall fescue toxicosis: Solutions and realities.
P. L. Kallenbach*, University of Missouri, Columbia

8:50 AM
Research efforts aimed at reducing the impact of fescue toxicosis on economically important production measures for beef cattle.
M. S. Gadberry¹, J. Hawley², and P. Beck³,
¹Department of Animal Science, University of Arkansas, Little Rock,
²Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville,
³University of Arkansas SWREC, Hope

9:35 AM
Break

9:45 AM
Genetic resistance to the effects of grazing endophyte-infected tall fescue.
T. Smith¹ and J. P. Cassady²,
¹Mississippi State University, Mississippi State,
²South Dakota State University, Brookings

10:30 AM
Physiologic effects of ergot alkaloids: What happens when excretion does not equal absorption?
J. L. Klotz², USDA-ARS, FAPRU, Lexington, KY

11:15 AM
Does ergot alkaloids negatively impact bull semen quality and fertility?
S. L. Pratt* and J. G. Andrae, Clemson University, Clemson, SC

Graduate Student Competition I
Chair: Joan M. Burke, USDA-ARS
Augusta Ballroom A (7th Floor)

8:00 AM
Grass finishing systems for lambs born in fall and winter.
E. Smyth¹,², J. M. Burke¹, M. Acharya², J. E. Miller³,
¹USDA-ARS, Booneville, AR,
²University of Arkansas, Fayetteville,
³Louisiana State University, Baton Rouge
8:15 AM  Effect of supplemental sericea lespedeza leaf meal pellets on health and productivity of grazing goats.  
T. N. Hamilton1, T. H. Tennill1, D. S. Kommuru1, A. Rivers1, J. A. Mosjidis2, J. E. Miller3, and J. M. Burke4, 1Fort Valley State University, Fort Valley, GA, 2Auburn University, Auburn, AL, 3Louisiana State University, Baton Rouge, 4USDA-ARS, Booneville, AR

8:30 AM  The effect of CorPet a mushroom derived probiotic on gene expression in goat blood.  

8:45 AM  Artificial insulation of goat carcasses to improve tenderness.  
K. L. Basinger1,2, J. K. Apple1, J. D. Caldwell2, B. C. Shanks2, T. M. Johnson1, W. Yancey1, L. S. Wilbers2, G. R. Pettig2, K. M. Jones2, E. A. Backes1 and A. N. Young1, 1Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, 2Department of Agriculture and Environmental Sciences, Lincoln University, Jefferson City, MO

9:00 AM  In vitro effects of water extracts of sericea lespedeza on goat blood.  

9:15 AM  Effect of protein supplementation and forage allowance on heifer growth and reproduction.  
S. E. Lyons1, M. H. Poore2, D. H. Poole2, S. R. Freeman1, A. D. Shaefter1, P. M. Kennedy1, M. L. Alley2, and M. E. Drewnowski3, 1North Carolina State University, Raleigh, 2Zoetis, Cary, NC, 3University of Nebraska-Lincoln, Lincoln

9:30 AM  Impact of milk production level on beef cow-calf productivity in Tennessee.  
S. R. Edwards* and J. T. Mulliniks2, 1University of Tennessee, Knoxville, 2University of Tennessee, Crossville

9:45 AM  Break

10:00 AM  Intensified cow/calf production system in the southern great plains incorporating wheat pasture, semi-confinement and native rangeland.  
10:15 AM  30
Canola and calves: An integrated crop-livestock farming system for producing canola and stocker calves in the Southeast.
S. H. Ingram*, S. L. Dillard, R. L. Stewart, Jr., and D. Hancock, The University of Georgia, Athens

10:30 AM  31
Utilization of canola and sunflower meals as replacements for soybean meal in a corn silage-based stocker operation.
J. M. Lourenço*, M. A. Froetschel, and R. L. Stewart, Jr., The University of Georgia, Athens

10:45 AM  32
Effects of replacing corn with wet brewers grains on growth performance and trace mineral consumption of beef heifers provided medium-quality tall fescue hay.
L. F. Artioli* and P. Moriel, North Carolina State University - Mountain Research Station, Waynesville

11:00 AM  33
Precision-feeding dairy heifers a high rumen undegradable protein diet with differing forage to concentrate ratios. Effects on protein utilization and N efficiency.
L. E. Bowen* and G. Lascano, Clemson University, Clemson, SC

11:15 AM  34
Effect of inclusion of post-extraction algal residue on nutrient utilization and carcass performance in finishing steers.
J. C. Morrill*, J. E. Sawyer, S. B. Smith, J. R. Baber, and T. A. Wickersham, Texas A&M University, College Station

Graduate Student Competition II
Chair: Christy L. Bratcher, Auburn University
Augusta Ballroom G (7th Floor)

8:00 AM  35
Effects of treating sorghum wet distiller's grains with solubles with fibrolytic enzymes on nutrient digestibility and performance in finishing beef steers.
C. L. Brauer1,2, J. C. MacDonald3, N. A. Cole4, F. T. McCollum1, and J. S. Jennings5, 1Texas A & M AgriLife Research and Extension Center, Amarillo, 2West Texas A & M University, Canyon, 3University of Nebraska, Lincoln, 4USDA-ARS, Bushland, TX

8:15 AM  36
The effects of supplementing ruminal bypass unsaturated fatty acids on marbling in early-weaned steers.
K. S. Mangrum1, G. Tuttle1, S. K. Duckett1, G. S. Sell1, C. R. Krehbiel2, and N. M. Long1, 1Clemson University, Clemson, SC, 2Oklahoma State University, Stillwater
8:30 AM  
Associations among stress response of male calves, single nucleotide polymorphisms of heat shock protein 70, and anabolic steroids.
L. Meyer\textsuperscript{1}, S. Tabler\textsuperscript{2}, M. L. Looper\textsuperscript{1}, J. M. Burke\textsuperscript{2}, and C. Rosenkranz, Jr.\textsuperscript{1}, \textsuperscript{1}University of Arkansas, Fayetteville, \textsuperscript{2}USDA-ARS, Booneville, AR

8:45 AM  
Serial use of Estrotect estrous detection patches as a reproductive management tool.
A. J. Davis\textsuperscript{1}, T. D. Lester, E. A. Backes, and R. W. Rorie, Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville

9:00 AM  
Impact of progesterone supplementation on pregnancy rates following timed artificial insemination or embryo transfer in beef cattle consuming endophyte-infected fescue.
J. C. Mackey\textsuperscript{1}, J. M. Lection, A. M. Tyson, M. H. Poore, and D. H. Poole, North Carolina State University, Raleigh

9:15 AM  
Effects of toxic tall fescue on bovine semen cryopreservation.
C. R. Burnett\textsuperscript{1}, S. M. Calcatera, M. A. Dimmick, W. C. Bridges, and S. L. Pratt, Clemson University, Clemson, SC

9:30 AM  
Transcription of Toll-like receptor 2 (TLR2) in bovine blood in response to microbial and plant derived molecular patterns.
S. Adjei-Fremah\textsuperscript{1}, E. K. Asiamah, K. A. Ekwemalor, H. Ismail, and M. Worku, North Carolina Agricultural and Technical State University, Greensboro

9:45 AM  
Break

10:00 AM  
Endogenous cortisol, luteinizing hormone, and testosterone secretion and GnRH-induced luteinizing hormone and testosterone secretion in prenatally stressed sexually mature Brahman bulls.
B. P. Littlejohn\textsuperscript{1,2}, M. C. Roberts\textsuperscript{1,2}, M. N. Bedenbaugh\textsuperscript{1}, A. W. Lewis\textsuperscript{2}, D. A. Neuendorf\textsuperscript{2}, D. G. Riley\textsuperscript{1,3}, J. A. Carroll\textsuperscript{1}, R. C. Vann\textsuperscript{2}, M. Amstalden\textsuperscript{1}, T. H. Welsh, Jr.\textsuperscript{1,3}, and R. D. Randel\textsuperscript{2}, \textsuperscript{1}Texas A&M University Department of Animal Science, College Station, \textsuperscript{2}Texas A&M AgriLife Research, Overton, \textsuperscript{3}Texas A&M AgriLife Research, College Station, \textsuperscript{4}USDA-ARS, Livestock Issues Research Unit, Lubbock, \textsuperscript{5}MAFES - Brown Loam Experiment Station, Mississippi State University, Raymond
Toll-like receptor expression and activity in the bovine corpus luteum.
A. M. Tyson¹, H. A. Faircloth¹, M. D'Annibale-Tolhurst¹, J. Chang¹, P. W. Farin¹, I. M. Sheldon², J. E. Gadsby¹, and D. H. Poole¹, ¹North Carolina State University, Raleigh, ²Swansea University, Singleton Park, Swansea, United Kingdom

Steroid-dependent regulation of bovine oviductal epithelial cells: A transcriptomal analysis.
K. L. Cerny*, E. M. Garrett, L. Anderson, and P. Bridges, University of Kentucky, Lexington

Effects of maternal nutrient restriction on bovine fetal growth during mid-gestation.
R. K. Taylor*, C. T. LeMaster, K. S. Mangrum, and N. M. Long, Clemson University, Clemson, SC

The effects of late gestation maternal nutrient restriction with or without protein supplementation on endocrine regulation of newborn and postnatal beef calves.

Plane of nutrition during the preweaned period influences the pathophysiological responses to a combined intranasal bovine herpesvirus-1 and intratracheal Mannheimia haemolytica challenge in post-weaned Holstein calves.
K. P. Sharon*, Y. L. Liang¹, N. C. Burdick Sanchez², J. A. Carroll² and M. A. Ballou¹, ¹Texas Tech University, Department of Animal and Food Sciences, Lubbock, ²USDA-ARS, Livestock Issues Research Unit, Lubbock, TX

Teaching and Undergraduate Education
Chair: T. Dean Pringle, University of Georgia
Chastain C (6th Floor)

Teaching animals and society: Introducing animal science to non-majors.
J. L. Wahrmund*, Texas A&M University, Commerce
Impact of visual, auditory, and olfactory cues on circulating concentrations of ghrelin in wethers.

M. G. Stockwell-Goering¹, E. Benavides², D. H. Keisler³, and J. Daniel¹, ¹Department of Animal Science, Berry College, Mt. Berry, GA, ²University of Missouri-Division of Animal Sciences, Columbia, ³University of Missouri, Columbia

Ovine maternal nutrient restriction from mid to late gestation decreases hepatic progesterone inactivating enzyme activity.

C. L. Gilfeather¹, C. G. Hart¹, K. A. Vonnahme², and C. O. Lemley¹, ¹Mississippi State University, Mississippi State, ²North Dakota State University, Fargo

Relationship between body condition score, follicular activity and postpartum interval in Brahman females.

T. C. Rocha¹,², R. A. d'Orey Branco², R. C. Vann³, T. H. Welsh, Jr., D. A. Neuendorff², A. W. Lewis², and R. D. Randel², ¹Texas A&M University, College Station, ²Texas A&M AgriLife Research, Overton, ³MAFES-Brown Loam, Mississippi State University, Raymond, ⁴Texas A&M University Department of Animal Science, College Station

Effect of level of intake and energy concentration on diet utilization and ruminal fill in beef steers.

L. N. Bierschwale¹, T. A. Wickersham¹, L. A. Trubenbach¹, and J. E. Sawyer⁵, ¹Texas A&M University, College Station, ⁵Texas AgriLife Research, College Station

Beta-adrenergic receptor subtype distributions differ across carcass and non-carcass tissues in feedlot steers and heifers.

B. K. Riedel¹, W. C. Burson, J. O. Baggerman, B. C. Bernhard, and R. J. Rathmann, Texas Tech University, Lubbock
Impact of hydration supplements on vital signs of exercised horses during the summer.
B. L. Green* and J. L. Wahrmund, Texas A&M University, Commerce

The effect of nonstructural carbohydrate intake on heart rate variability in thoroughbred horses.
A. Gates1 and J. D. Pagan2, 1Georgetown College, Georgetown, KY, 2Kentucky Equine Research, Versailles, KY

Clock gene expression is altered in adipose tissue during adipogenesis and obesity in mangalica pigs.
S. M. Campbell*, K. N. Purvis, J. Bartosh, and T. D. Brandebourg, Auburn University, Auburn, AL

**Breeding and Genetics**
Chair: David G. Riley, Texas A&M AgriLife Research
Chastain Room 1 (6th Floor)

Heterosis for reproduction of Romosinuano-Angus cows in Arkansas.
D. G. Riley*, S. W. Coleman2, C. C. Chase, Jr.3, and J. M. Burke4, 1Texas A&M AgriLife Research, College Station, 2USDA ARS, El Reno, OK, 3USDA, ARS, U.S. Meat Animal Research Center, Clay Center, NE, 4USDA-ARS, Booneville, AR

Birth weight, calving rate, and weaning rate in second generation reciprocal Brahman-Angus crosses.
J. K. Bohac*, A. D. Herring2, D. G. Riley2, and J. O. Sanders3, 1Texas A&M University, College Station, TX 2Texas A&M AgriLife Research, College Station, 3Texas A&M University, Department of Animal Science, College Station

Growth performance of calves from two lines of Angus cows separated by frame size in Alabama.
K. Nadarajah*, D. L. Kuhlers1, G. L. Thompson2,3, C. Norris3, and H. D. Harkins4, 1Auburn University, Auburn, AL, 2Alabama Cooperative Extension System, Auburn, 3Tennessee Valley Research and Extension Center (TVREC), Belle Mina, AL
Assessment of genetic variation in fecal egg counts for multiple species of internal parasites in growing crossbred Bos indicus-Bos taurus cattle.
L. Ngere1, D. G. Riley1, A. D. Herring1, J. O. Sanders1, and T. M. Craig2, 1Texas A&M University, Department of Animal Science, College Station, 2Texas A&M University, Department of Veterinary Pathobiology, College Station

Detection of the prosaposin gene in different breeds of goats.
A. Robertson Byers* and M. Worku, North Carolina Agricultural and Technical State University, Greensboro

Ruminant Animal Production I
Chair: Gordon E. Carstens, Texas A&M University
Augusta Ballroom G (7th Floor)

In vitro and in situ degradation of alkali treated sorghum wet distillers grains alone or in combination with corn stalks to increase their nutritive value.
W. W. Gentry1,2, C. P. Weiss1,2, C. L. Brauer2, F. T. McCollum2, N. A. Cole3, and J. S. Jennings2, 1West Texas A&M University, Canyon, 2Texas A&M AgriLife Research and Extension Center, Amarillo, 3USDA-ARS, Bushland, TX

Effects of an injectable hay additive on hay quality and feeding preference of mature beef cows.
J. D. Rivera1, R. W. Lemus2, J. A. White2, and P. J. Slusser1, 1Mississippi State University, South Mississippi Branch Experiment Station, Poplarville, 2Mississippi State University, Plant and Soil Sciences, Mississippi State

Effects of prepartum mineral supplement source on composition ofcolostrum and milk in Brangus (BN) and Angus (AN) cows.
D. M. Price1, J. M. Guevara2, C. R. Trcalek2, K. K. Arellano3, D. M. Irskik3, D. O. Rae2, M. J. Hersom4, and J. V. Yelich1, 1University of Florida, Gainesville, 2College of Veterinary Medicine, University of Florida, Gainesville, 3University of Florida, Monteverde
1:45 PM
Effects of prepartum mineral supplement source on cow colostrum and neonatal calf serum immunoglobulin concentration.

2:00 PM
Evaluation of hair coat shedding and cow/calf performance of two sources of Angus cattle under Florida subtropical conditions.
J. D. Arthington* and J. M. B. Vendramini, UF/IFAS, Range Cattle Research and Education Center, Ona, FL

2:15 PM
Break

2:30 PM
Effectiveness, reproducibility, and repeatability of estimating beef cattle age via dentition.
T. F. Best1, J. A. Parish1, R. C. Vann2, and J. D. Rivera3, 1North Mississippi Research and Extension Center, Prairie Research Unit, Prairie, MS, 2MAFES-Brown Loam, Mississippi State University, Raymond, 3Coastal Research and Extension Center, White Sand Unit, Poplarville, MS

2:45 PM
Benchmarking beef quality assurance defect rates in market cows sold at public auctions in Mississippi.
J. A. Parish* and T. F. Best, North Mississippi Research and Extension Center, Prairie Research Unit, Prairie, MS

3:00 PM
Performance and activity of fall-born calves weaned in the morning or evening.
T. S. Begley1, J. T. Richeson1, J. G. Powell2, S. L. Roberts1, B. C. Shanks3, J. D. Caldwell3, and E. A. Bailey1, 1Department of Agricultural Sciences, West Texas A&M University, Canyon, 2Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, 3Department of Agriculture and Environmental Sciences, Lincoln University, Jefferson City, MO

3:15 PM
Increasing the metabolizable protein supply enhanced growth performance and led to variable results on innate and humoral immune response of preconditioning beef steers.
P. Moriel1, L. F. Artioli1, M. H. Poore2, D. H. Poole2, R. Marques3, and R. F. Cooke4, 1North Carolina State University - Mountain Research Station, Waynesville, 2North Carolina State University, Raleigh, 3Oregon State University, Burns, 4Oregon State University - EOARC Burns, Burns
Effect of crude protein levels and metaphylaxis during the stocker receiving phase on feedlot and carcass performance.

T. J. Braud*, B. B. Karisch, D. R. Smith, C. L. Huston, and S. G. Genova, Mississippi State University, Mississippi State

Graduate Student Competition III
Chair: Joan M. Burke, USDA-ARS
Augusta Ballroom A (7th Floor)

Use of statistical process control procedures to identify deviations in feeding behavior patterns preceding an acute spontaneous BRD outbreak.

K. S. Jackson1, G. E. Carstens1, L. O. Tedeschi1, Y. Fu1, A. Banerjee1, W. E. Pinchak2 and J. Wall2,
1Texas A&M University, College Station, 2Texas A&M AgriLife Research, Vernon

Evaluation of long-acting eprinomectin or a combination of moxidectin and oxfendazole on post-weaning heifer growth and fecal egg counts.

E. A. Backes1, J. G. Powell, E. B. Kegley, J. A. Hornsby, J. L. Reynolds, K. S. Anschatz, D. L. Galloway, and W. L. Galyen, Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville

Effects of Ralgro implants administered at branding on growth performance of steer calves through weaning.

C. L. Bayliff1, M. D. Redden1, J. R. Cole1, A. L. McGee1, C. Stansberry1, D. L. Lalm1, M. E. Corrigan2, and W. Burdett2, 1Oklahoma State University, Stillwater, 2Merck Animal Health, DeSoto, KS

Impact of between-animal variation in performance, carcass-quality and feed efficiency on profitability of Brangus steers.


Establishing relaxin as a novel adipokine affecting adipose tissue remodeling in pigs.

M. M. Roberts1, J. Bartosh1, A. K. McNeef1, and T. D. Brandebourg1, 1Auburn University, Auburn, AL, 2USDA, ARS, U.S. Meat Animal Research Center, Clay Center, NE

Effects of alkaline electrically oxidized water on pork loin enhancement.

M. Rigdon and A. M. Stelzleni, The University of Georgia, Athens
Meats  
Chair: Jason Scheffler,  
Virginia Tech  
Chastain C (6th Floor)

2:00 PM  54  
Timing of exposure to high-concentrate diets vs. pasture on carcass traits and meat quality of steers.  
B. M. Koch¹, G. Volpi Lagreca, M. Alende, J. G. Andrae, and S. K. Duckett, Clemson University,  
Clemson, SC

2:15 PM  55  
Carcass characteristics and meat quality of steers fed high-concentrate diets at an early backgrounding phase or at finishing.  
C. S. Maglietti¹, M. L. Testa¹, M. J. Cimminelli²,³, A. Pordomingo⁴, and E. Pavan⁵,¹, Instituto Nacional de Tecnología Agropecuaria, Balcarce, Argentina,  
²Universidad Nacional de Mar del Plata, Facultad de Ciencias Agrarias, Balcarce, Argentina,  
³Comisión de Investigaciones Científicas de la Prov. de Buenos Aires, Balcarce, Argentina,  
⁴Instituto Nacional de Tecnología Agropecuaria, Anguil, Argentina

2:30 PM  56  
Supplementation of glycerol or fructose via drinking water to enhance marbling deposition and meat quality in finishing cattle.  
G. Volpi Lagreca¹, M. Alende¹, A. C. Fluck², and S. K. Duckett¹,¹, Clemson University, Clemson, SC,  
²Universidade Federal de Pelotas, Pelotas, Brazil

2:45 PM  57  
Effects of animal age, pasture or feedlot finishing and postmortem aging of Angus steers in central Argentina: I. Performance, carcass traits, and tenderness and color of the longissimus dorsi muscle (LM).  
A. Pordomingo¹,¹, A. Pordomingo², E. Pavan³, and S. K. Duckett⁴, INTA, Anguil, Argentina,  
²Instituto Nacional de Tecnología Agropecuaria, Anguil, Argentina,  
³Instituto Nacional de Tecnología Agropecuaria, Balcarce, Argentina,  
⁴Clemson University, Clemson, SC

3:00 PM  58  
Effects of animal age, pasture or feedlot finishing and postmortem aging of Angus steers in central Argentina: II. Proximate composition and fatty acid profile of longissimus dorsi muscle (LM).  
A. Pordomingo¹,¹, A. Pordomingo², E. Pavan³, and S. K. Duckett⁴, INTA, Anguil, Argentina,  
²Instituto Nacional de Tecnología Agropecuaria, Anguil, Argentina,  
³Instituto Nacional de Tecnología Agropecuaria, Balcarce, Argentina,  
⁴Clemson University, Clemson, SC
Determining the prevalence and antimicrobial susceptibility of *salmonella* serovars isolated from U.S. retail ground pork.

P. R. Broadway*1, J. C. Brooks2, D. F. Mollenkopf2, M. A. Calle2, G. H. Loneragan2, M. F. Miller2, J. A. Carroll2, and T. E. Wittum2. 1Texas Tech University, Wolfforth, 2Texas Tech University, Lubbock, 3Ohio State University, Columbus, 4USDA-ARS, Livestock Issues Research Unit, Lubbock

Sous vide beef cookery.

D. A. Griffing*1, D. D. Johnson2, K. Schneider2, C. L. Bratcher1, and C. Carr2. 1Auburn University, Auburn, AL, 2University of Florida, Gainesville
8:00 AM 94 Effects of method of determining heat energy: heart rate of confined and grazing Boer goats. M. E. Brassard1,2, R. Puchala2, T. A. Gipson2, T. Sahlu2, and A. L. Goetsch2, 1Unversite Laval, Quebec City, QC, Canada, 2American Institute for Goat Research, Langston University, Langston, OK

8:15 AM 95 Effects of creep feeding on weaning weight and market value of meat goat kids. R. Browning, Jr.1, R. V. Lourençon2, J. L. Groves1, D. Garcia3, L. Wang1, and A. Aldridge1, 1Tennessee State University, Nashville, 2Universidade Estadual Paulista, Botucatu, Brazil, 3USDA-AMS, Montgomery, AL

8:30 AM 96 Effects of supplemental concentrate level and forage source on intake and digestion by growing and yearling Boer goat wethers and evaluation of a method of predicting negative feedstuff associative effects. A. T. Dolebo1,2, R. Puchala1, T. A. Gipson1, L. J. Dawson1,3, T. Sahlu1, and A. L. Goetsch1, 1American Institute for Goat Research, Langston University, Langston, OK, 2Southern Agricultural Research Institute, Hawassa, Ethiopia, 3Center of Veterinary Health Sciences, Oklahoma State University, Stillwater

8:45 AM 97 Enhancing the fatty acid composition of lamb via oral oil supplementation. S. K. Duckett1, R. Arnoni2, G. Volpi Lagreca1, and M. Alende1, 1Clemson University, Clemson, SC, 2Universidade Federal de Pelotas, Pelotas, Brazil

9:00 AM 98 Grazing/browsing behavior and distribution patterns of meat goats confined in small plots. U. Karki1, D. Jenkins, N. K. Gurung, W. H. McElhenney, and A. S. Kumi, Tuskegee University, Tuskegee, AL
Effects of mixing different breeds to evaluate electric fence strand additions to barbwire fence to contain meat goat does.

Y. Tsukahara*, T. A. Gipson¹, J. Hayes¹, R. Puchala¹, M. E. Brassard¹,², T. Sahlu², and A. L. Goetsch¹, ¹American Institute for Goat Research, Langston University, Langston, OK, ²Université Laval, Quebec City, QC, Canada

Impact of different stocking rates of goats under loblolly pine plantation on changes on occurrence of understory vegetation and animal productivity.


Health, performance, and carcass characteristics of pen-fed vs. pasture-raised meat goats.

S. Schoenian¹, J. Semler², D. Gordon³, M. B. Bennett⁴, and D. O'Brien⁵, ¹University of Maryland, Keedysville, ²University of Maryland, Boonsboro, ³University of Maryland, Derwood, ⁴West Virginia University, Martinsburg, ⁵Virginia State University, Petersburg

Effects of using ground woody plants in lamb feedlot diets on growth performance and wool and carcass characteristics.

J. L. Glasscock¹, T. R. Whitney¹, J. R. Roper¹, A. R. Holmes¹, S. G. Marrs¹, and J. T. Sawyer², ¹Texas A&M AgriLife Research, San Angelo, ²Tarleton State University, Department of Animal Science and Veterinary Technology, Stephenville, TX

Effects of level and length of water restriction on body weight, feed intake, and plasma osmolality of Katahdin sheep and Boer and Spanish goat wethers.

M. Urge¹,², R. Puchala³, T. A. Gipson³, T. Sahlu³, and A. L. Goetsch³, ¹School of Animal and Range Sciences, Haramaya University, Dire Dawa, Ethiopia, ²American Institute for Goat Research, Langston University, Langston, OK

Energy supplementation of purebred and crossbred hair sheep lambs grazing stockpiled fescue.

S. Wildeus¹ and C. D. Teutsch², ¹Virginia State University, Petersburg, ²Virginia Tech, Blackstone
11:00 AM 105
Effect of breed and sex on gain and fecal egg count of meat goat kids grazed on fescue pastures.
F. Bebe* and K. M. Andries, Kentucky State University, Frankfort

11:15 AM 106
Effect of breed type, supplementation and sex in rotationally-grazed hair and wool x hair sheep lambs: Growth and gastrointestinal parasites.
S. Wildeus1, J. Lee2, C. D. Teutsch3, and T. J. Nartea1, 1Virginia State University, Petersburg, 2Fort Valley State University, Fort Valley, GA, 3Virginia Tech, Blackstone

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Extension I
Chair: Walter R. Burris,
University of Kentucky
Augusta Ballroom E (7th Floor)

8:30 AM 6
Management education through YouTube.
B. M. Freking*, Oklahoma State University, Ada

8:45 AM 7
Delivering beef cattle Extension programming through YouTube.
B. B. Karisch1, J. A. Parish2, and T. J. Braud1, 1Mississippi State University, Mississippi State, 2North Mississippi Research and Extension Center, Prairie Research Unit, Prairie

9:00 AM 8
The ability of the Animal Science blog to transfer information.
T. R. Troxel1 and M. S. Gadberry2, 1University of Arkansas, Little Rock, 2Department of Animal Science, University of Arkansas, Little Rock

9:15 AM 9
The Southeast Cattle Advisor: Utilizing mobile application and social media to improve risk management.
R. L. Stewart, Jr.1, R. C. Lacy2, D. Hancock1, G. C. Lamb3, N. DiLorenzo3, D. E. Mayo4, B. Beer5, and J. B. Elmore6, 1The University of Georgia, Athens, 2University of Georgia, Tifton, 3North Florida Research and Education Center, Marianna, 4University of Florida, Extension, Marianna, 5University of Clemson Extension, Lancaster, SC, 6Alabama Cooperative Extension System, Auburn

9:30 AM 10
Use of a clicker-based response tool for enhancing Extension programming in beef cattle production systems.
M. K. Mullenix1, G. L. Thompson2, J. B. Elmore2, and J. M. Johnson1, 1Auburn University, Auburn, AL, 2Alabama Cooperative Extension System, Auburn
9:45 AM  11  Mud, horseduds & soapsuds: Encouraging youth responsibility for animal disaster preparedness. N. L. Walker1, R. McConnico2, and M. Mirza2, 1Louisiana State University Agricultural Center, Baton Rouge, 2Louisiana State University School of Veterinary Medicine, Baton Rouge

10:00 AM  Break

10:15 AM  12  The 2013-14 Georgia Bull Evaluation Program: Education through investment. J. R. Segers1, J. Duggin2, R. L. Stewart, Jr.3, R. E. Silcox3, and P. T. Cannon4, 1The University of Georgia, Tifton, 2The University of Georgia, Calhoun, 3The University of Georgia, Athens

10:30 AM  13  The Georgia Heifer Evaluation and Reproductive Development Program. J. Duggin*, The University of Georgia, Calhoun

10:45 AM  14  Development and implementation of an advanced, multi-session extension training program in beef cattle production. J. D. Rhinehart1, J. B. Neel2, D. Kirkpatrick2, G. E. Bates2, A. Griffith2, and L. Strickland2, 1University of Tennessee, Spring Hill, 2University of Tennessee, Knoxville

11:00 AM  15  A hands-on ranch management workshop for cattle producers in the Tennessee Valley region of Alabama. G. L. Thompson1, L. L. Jury2, M. K. Mullenix3, J. B. Gladney1, S. P. Rodning3, B. S. Glover1, and L. H. Robinson1, 1Alabama Cooperative Extension System, Auburn, 2Micro Technologies, Amarillo, TX, 3Auburn University, Auburn, AL

11:15 AM  16  Hands-on workshops improve producers’ understanding of soils and temporary fencing in the Carolinas. P. M. Kennedy1, M. H. Poore1, J. G. Andrae2, M. Burns3, A. D. Shaeffer1, S. R. Freeman1, and J. R. Rogers1, 1North Carolina State University, Raleigh, 2Clemson University, Clemson, SC, 3Clemson University, Pendleton, SC
Pastures and Forages
Joint Session with Agronomy
(The first six presentations are a selection from the Agronomy program/abstracts.)
Chair: Mark Reiter, Virginia Tech
Chastain F (6th Floor)

8:15 AM 90988
Application of gypsum to control P runoff from poultry litter fertilization of pasture.
H.A. Torbert* and D.B. Watts, National Soil Dynamics Laboratory, USDA-ARS, Auburn, AL

8:30 AM 91019
A proposed NRCS conservation practice standard: Amending soil properties with gypsiferous products.
H.A. Torbert1, D.B. Watts1, and M.S. Reiter2, 1National Soil Dynamics Laboratory, USDA-ARS, Auburn, AL, 2Eastern Shore AREC, Virginia Tech, Painter

8:45 AM 91020
Harvest date and N application impact in bermudagrass forage production and quality.
R.W. Lemus* and J.A. White, Plant and Soil Sciences, Mississippi State University, Mississippi State

9:00 AM 90953
Agronomic characteristics of dual-purpose canola grown in piedmont soils of north Georgia.
S.L. Dillard1, D.W. Hancock1, L. Stewart2, and S. Ingram3, 1Crop and Soil Sciences, The University of Georgia, Athens, 2Animal and Dairy Sciences, The University of Georgia, Athens, 3Extension, University of Georgia, Springfield

9:15 AM 90967
Behavioral thermoregulation: Sheep moderation of core temperature through shade utilization.
G. Pent* and J.H. Fike, Dept. of CSES, Virginia Tech, Blacksburg

9:30 AM 91052
Ecology of grazing lands systems - a novel learning experience.
J.H. Fike1, R.L. Kallenbach2, C. Villalobos3, and B. McIntosh4, 1Dept. of CSES, Virginia Tech, Blacksburg, 2University of Missouri, Columbia, 3Range Management, Texas Tech, Lubbock, and 4Animal and Poultry Sciences, Virginia Tech, Middleburg

9:45 AM Break.
(The Pastures and Forages session will continue in the Augusta Ballroom G on the 7th Floor.)
10:00 AM 61 Seeding method and clover species for grazing calves in southern Arkansas.
P. Beck1, B. Stewart1, C. Shelton1, A. McWilliams1, M. Sims1, and J. Jennings2, 1University of Arkansas SWREC, Hope, 2Department of Animal Science, University of Arkansas, Little Rock

W. B. Smith1, F. M. Rouquette1, J. L. Kerby1, L. O. Tedeschif, J. L. Foster1, J. P. Banta1, K. C. McCuistion1, and T. J. Machado5, 1Texas A&M AgriLife Research, Overton, 2Texas A&M University, College Station, 3Texas A&M AgriLife Research, Beeville, 4Texas A&M AgriLife Extension, Overton, 5Texas A&M University, Kingsville

10:30 AM 63 Effect of grazing management on performance of steers grazing mixed alfalfa and bermudagrass pastures.
W. Galyen1, E. B. Kegley2, J. G. Powell2, P. Beck3, D. S. Hubbell, III4, T. Hess4, T. Butler4, and J. Rogers5, 1University of Arkansas, Fayetteville, 2Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, 3University of Arkansas SWREC, Hope, 4University of Arkansas Livestock and Forestry Research Station, Batesville, 5The Samuel Roberts Noble Foundation, Ardmore, OK

10:45 AM 64 Production characteristics of stockpiled ‘Alicia’ bermudagrass in Louisiana.
G. Scaglia1, G. T. Gentry2, and J. Gurie2, 1LSU AgCenter, Jeanerette, 2LSU AgCenter Dean Lee Research Station, Alexandria

11:00 AM 65 Forage and sweet sorghum silages as alternatives to corn silage for growing cattle.
M. H. Poore*, K. R. Caffrey, M. S. Chinn, and M. W. Veal, North Carolina State University, Raleigh

11:15 AM 66 Impact of nitrogen source and rate on yield and nutritive value of stockpiled tall fescue.
B. T. Campbell1, C. D. Teutsch, and N. T. Shireman, Virginia Tech, Blackstone
Animal performance, in vivo forage digestibility and forage intake of beef steers grazing annual ryegrass varieties differing in water soluble carbohydrate content, with and without corn supplementation.

J. G. Andrae1, M. Alende1,2, S. K. Duckett1, G. Volpi Lagreca1,2, and A. C. Fluck3, 1Clemson University, Clemson, SC, 2INTA, Anguil, Argentina, 3Universidad Federal de Pelotas, Brazil, Pelotas, Brazil

Supplementing soybean hulls to stocker cattle grazing wheat during periods of high N prices.


Effect of lipid sources, lysophospholipids and organic acids on the performance of broilers fed wheat–based diets.

G. D. V. Polycarpo1, P. D. A. P. Ribeiro1, J. C. Dadalt1, L. F. D’Abreu1, T. C. Lagassi1, K. D. S. Andrade1, M. F. D. C. Barbarelli1, C. D. P. Carão1, C. E. B. Merseguei1, V. C. Cruz-Polycarpo2, and R. D. Albuquerque1, 1University of São Paulo - USP, Pirassununga, Brazil, 2São Paulo State University - UNESP, Dracena, Brazil

Exposure to lipopolysaccharide in utero alters preweaning growth performance of calves.

P. A. Lancaster1, J. A. Carroll2, and N. C. Burdick Sanchez3, 1UF/IFAS Range Cattle Research and Education Center, Ona, FL, 2USDA-ARS, Livestock Issues Research Unit, Lubbock

Altered postnatal acute phase response in heifers exposed to lipopolysaccharide in utero.

J. A. Carroll1, N. C. Burdick Sanchez1, K. P. Sharon2, J. D. Arthington3, and P. A. Lancaster3, 1USDA-ARS, Livestock Issues Research Unit, Lubbock, 2Texas Tech University, Lubbock, 3UF/IFAS, Range Cattle Research and Education Center, Ona, FL

In utero exposure to lipopolysaccharide alters the postnatal metabolic response in heifers.

N. C. Burdick Sanchez1, J. A. Carroll1, K. P. Sharon2, J. D. Arthington3, and P. A. Lancaster3, 1USDA-ARS, Livestock Issues Research Unit, Lubbock, 2Texas Tech University, Lubbock, 3UF/IFAS, Range Cattle Research and Education Center, Ona, FL
Effect of elevated systemic concentrations of urea nitrogen in crossbred heifers on in vitro fertilization (IVF).
C. C. Chase, Jr.*, O. L. Asmundson†, R. A. Cushman‡, H. C. Freely†, A. K. McNeel†, E. C. Wright-Johnson†, G. A. Perry†, D. D. Sypherd†, and J. R. Miles†. USDA, ARS, U.S. Meat Animal Research Center, Clay Center, NE, South Dakota State University, Brookings, South Dakota State University; Department of Animal Sciences, Brookings.

Evaluation of hair cortisol in beef cattle of divergent temperaments.
R. C. Vann*, S. T. Willard*, M. Robinson*, A. W. Lewis**, T. H. Welsh, Jr.**, R. D. Randel***, MAFES-Brown Loam Experiment Station, Mississippi State University, Raymond, Department Animal and Dairy Sciences, Mississippi State University, Mississippi State, Texas A&M AgriLife Research, Overton, Department of Animal Science, Texas A&M University, College Station.

Influence of prolactin single nucleotide polymorphisms and anabolic steroid type on stress response of beef calves.
P. Dias Morse*, S. Tabler*, M. L. Looper*, J. M. Burke*, and C. Rosenkrans, Jr.*. University of Arkansas, Fayetteville, USDA-ARS, Booneville, AR.

Microarray studies in high and low RFI cattle reveal a potential role for inflammation within the arcuate nucleus in regulating feed efficiency.

Emerging Young Scholar Nutritional value of dietary lipids in lactating sow diets.
D. S. Rosero*, J. Odle†, R. D. Boyd†, and E. van Heugten†. Department of Animal Sciences, North Carolina State University, Raleigh and Hanor Company, Inc., Franklin, KY.

Ruminant Animal Production II
Chair: Gordon E. Carstens, Texas A&M University
Augusta Ballroom D (7th Floor)

Effects of excess dietary sulfur on growth performance, sulfhemoglobin concentrations, and tissue mineral concentrations in growing-finishing beef cattle.
Effect of residual feed intake classification on energy metabolism in growing heifers.

T. P. Vining1, P. A. Lancaster1, N. DiLorenzo2, H. Monaco1, S. Cross2, and G. C. Lamb2, 1Range Cattle Research and Education Center, Ona, FL, 2North Florida Research and Education Center, Marianna

Developing heifers on stockpiled, dormant native forages delays gain without altering reproductive performance.

S. R. Edwards1, J. D. Rhinehart2, R. L. Nave3, and J. T. Mulliniks3, 1University of Tennessee, Knoxville, 2University of Tennessee, Spring Hill, 3University of Tennessee, Crossville

Effects of offering cows mineral containing Altosid® IGR on growth of beef calves.

T. D. Harrison* and E. Felton, Division of Animal and Nutritional Sciences, West Virginia University, Morgantown

Validation of skin biomarkers for copper deficiency in beef cattle.

J. G. Carter1, J. Haffner1, J. Carlton1, S. Cui1, J. D. West2, and W. W. Gill3, 1Middle Tennessee State University, Murfreesboro, 2Vanderbilt University, Nashville, TN

Associations among cytochrome P450 3A28 polymorphisms, anabolic steroids, and stress response of calves.

M. A. Sales1, S. Tabler2, M. L. Looper1, J. M. Burke2, and C. Rosenkranz Jr.1, 1University of Arkansas, Fayetteville, 2USDA-ARS, Booneville, AR
1:00 PM 107
Effects of protein supplementation on parasitism in grazing lambs.
C. Crawford¹, D. Mata-Padrino¹, D. P. Belesky⁴, E. Felton², and S. Bowdridge¹, ¹West Virginia University, Morgantown, ²Division of Animal and Nutritional Sciences, West Virginia University, Morgantown

1:15 PM 108
Influence of sericea lespedeza on relationships between gastrointestinal nematode infection and hematology, serum biochemistry, and trace minerals in lambs.
J. M. Burke¹, M. Acharya², J. E. Miller³, T. H. Terrill⁴, E. Smyth¹, G. R. Huff⁴, E. B. Kegley⁵, K. P. Coffey², and C. F. Rosenkrans², ¹USDA-ARS, Booneville, AR, ²University of Arkansas, Fayetteville, ³Louisiana State University, Baton Rouge, ⁴Fort Valley State University, Fort Valley, GA, ⁵USDA-ARS, Fayetteville, AR, ⁶Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville

1:30 PM 109
The effects of combining condensed tannin-rich diets from sericea lespedeza pellets and pine bark powder on experimentally infected goats with drug-resistant Haemonchus contortus, weight gain, and carcass quality in meat goats.
C. Wright¹, B. R. Min¹, T. H. Terrill⁵, D. Perkins¹, T. Vines², W. H. McElhenney³, N. K. Gurung⁴, D. S. Kommuru², and S. Howell⁶, ¹Tuskegee University, Tuskegee, AL, ⁵Fort Valley State University, Fort Valley, GA, ⁶The University of Georgia, Athens

1:45 PM 110
In vitro effects of water extracts of sericea lespedeza on goat blood.
E. K. Asiama¹, K. A. Ekwemalor, S. Adjei-Fremah, H. Ismail, and M. Worku, North Carolina Agricultural and Technical State University, Greensboro

2:00 PM 111
Influence of Moringa oleifera on fecal egg counts and packed cell volume in meat goats.

2:15 PM 112
Effect of weaning age on parasite burdens of hair sheep lambs and ewes in an accelerated lambing system in the tropics.
R. Godfrey⁵, S. Joseph, L. LaPlace, and W. George, University of the Virgin Islands, St. Croix, US Virgin Islands

2:30 PM Break
2:45 PM 113
Efficacy of copper oxide wire particles from three sources to control *Haemonchus contortus* in lambs.
J. M. Burke¹, J. E. Miller², T. H. Terrill³, E. Smyth¹,⁴, and M. Acharya⁴, ¹USDA-ARS, Booneville, AR, ²Louisiana State University, Baton Rouge, ³Fort Valley State University, Fort Valley, GA, ⁴University of Arkansas, Fayetteville

3:00 PM 114
Relationship between preweaning performance and parent expected breeding value for meat goat kids.
K. M. Andries*, S. Harrod, and F. Bebe, Kentucky State University, Frankfort

3:15 PM 115
Terminal sire mating of Landrace hair sheep ewes with Dorset rams: Ewe and pre-weaning lamb performance.
S. Wildeus*, Virginia State University, Petersburg

3:30 PM 116
Effect of breed type, supplementation and sex in rotationally-grazed hair and wool x hair sheep lambs: Carcass characteristics.
J. Lee¹, S. Wildeus², T. J. Nartea², B. Lemma¹, and B. Kouakou¹, ¹Fort Valley State University, Fort Valley, GA, ²Virginia State University, Petersburg

3:45 PM 117
Preliminary evaluation of the effect of a mushroom (*Coriolus versicolor*) probiotic on gene expression in goat blood.
K. A. Ekwemalor*, H. Ismail, and M. Worku, North Carolina Agricultural and Technical State University, Greensboro

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**Extension II**
Chair: Walter R. Burris, University of Kentucky
Augusta Ballroom E (7th Floor)

2:00 PM 17
Determination of knowledge gained following an animal handling and control training workshop.
M. R. Russell¹, T. R. Troxel¹, M. L. Loope², J. Cater¹, B. Kutz², and B. Chumbley¹, ¹University of Arkansas, Little Rock, ²University of Arkansas, Fayetteville, ³Eastern New Mexico University, Portales
2:15 PM  
Feedback regarding animal handling training for Department of Animal Science faculty, staff and students at the University of Arkansas.  
M. L. Thomas¹, J. S. Newberry¹, and M. L. Looper², ¹Department of Animal Science, University of Arkansas Division of Agriculture, Fayetteville, ²University of Arkansas, Fayetteville

2:30 PM  
Saving for a wintery day: Three seasons of workshops to promote managed grazing of stockpiled tall fescue.  
S. R. Freeman*, M. H. Poore, A. D. Shaeffer, and J. T. Green, North Carolina State University, Raleigh

2:45 PM  
Evaluation of four summer annuals for southeastern forage finished beef production systems: Animal performance, carcass traits, and valuation.  
A. M. Stelzleni*, R. L. Stewart, Jr., and D. Hancock, The University of Georgia, Athens

3:00 PM  
Prevalence of shiga-toxin producing Escherichia coli on beef cattle farms in eastern Arkansas.  
T. Breckenridge*, D. Kennedy, D. Gilmore, S. E. Choi, M. Yarbrough, S. Pulley, and H. Kaur, Arkansas State University, Jonesboro