Sunday, January 26, 2020

SCC-81 SYMPOSIUM
Chair: Stephan Wildeus, Virginia State University
1:00 PM - 5:00 PM
Walker

1:00 p.m.    SCC-81 SYMPOSIUM WELCOME
Stephan Wildeus, Virginia State University

1:05 p.m.    192  Towards Year-Round Grazing in the Southeastern U.S.
Gabe J. Pent, Virginia Tech

1:35 p.m.    178  Use of silvopastures and woodlands to expand the grazing opportunity for small ruminants
Uma Karki, Tuskegee University

2:05 p.m.    SCC-81 SYMPOSIUM BREAK I

2:15 p.m.    193  Growth performance of lambs and kids on pasture
Susan Schoenian, University of Maryland

2:45 p.m.    194  Carcass and meat quality of pasture-raised lamb and goat
Jung Lee, Fort Valley State University

3:15 p.m.    SCC-81 SYMPOSIUM BREAK II

3:25 p.m.    117  Organic and conventional pasture systems for lamb production in Southeastern U.S.
Joan M. Burke, USDA ARS
3:55 p.m.  195  **Marketing options for pasture-raised lambs**  
Dahlia O'Brien, Virginia State University

4:25 p.m.  **SCC-81 SYMPOSIUM BREAK III**

4:30 p.m.  **SCC-81 SYMPOSIUM ROUNDTABLE**

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**SERA 41 SYMPOSIUM**  
Chair: Daniel Rivera, Department of Animal and Dairy Science  
1:00 PM - 5:00 PM  
Ballroom 1

1:00 p.m.  **SERA 41 SYMPOSIUM INTRODUCTION**  
Daniel Rivera, Department of Animal and Dairy Science

1:05 p.m.  196 **Animal Nutrition: How are we serving our clientele through Extension?**  
Kimberly Mullenix ¹, Shane Gadberry ², Lawton Stewart ³  
¹Auburn University, ²University of Arkansas, ³University of Georgia

1:50 p.m.  197 **Supplemental feeding and it's effect on forage intake**  
Matthew Cravey, Phileo

2:35 p.m.  198 **Beef cattle support system modeling**  
Robin R. White, Virginia Tech

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**SERA 41 SYMPOSIUM PANEL DISCUSSION**

3:40 p.m.  **SERA 41 MEETING**

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**GRADUATE STUDENT COMPETITION - MS**  
Chair: Charles Rosenkrans, University of Arkansas System  
3:00 PM - 4:30 PM  
Ballroom 2

3:00 p.m.  166 **The effects of feeding lasalocid in combination with zeranol implants on performance and carcass traits in hair sheep**  
Brittany A. Lippy ¹, Blake K. Wilson ¹, Jerry Fitch ¹, Gretchen G. Mafi ¹, Justin Crosswhite ¹  
¹Oklahoma State University

3:05 p.m.  80 **Evaluation of extended release eprinomectin efficacy on multiparous beef cow performance**  
Laine Zammit ¹, Jermey G. Powell ¹, Reagan N. Cauble ¹, Toby D. Lester ¹, Callan Lichtenwalter ¹, Ellen Herring ¹, Clay McGuire ¹, Autumn T. Pickett ¹, Eva Wray ¹, Christopher Tucker ¹  
¹University of Arkansas
3:10 p.m. 154 The effect of number of cattle per pen on stocker cattle health and performance.
Kirsten A. Midkiff¹, Brandi Karisch¹, Amelia Woolums²
¹Mississippi State University, ²Mississippi State University College of Veterinary Medicine

3:15 p.m. 92 Health and Performance of Ewes in Woodland and Silvopasture Systems
Nevershi Ellis¹, Uma Karki¹, Bidur Paneru¹, Lila B. Karki¹
¹Tuskegee University

3:20 p.m. 185 Utilizing craft brewing side streams of trub, hops, and yeast mix (THYM) as a novel feed additive and an alternative to monensin in beef cattle diets
Kendra P. Phipps¹, Deidre D. Harmon¹, Matt H. Poore², Ethan Henderson³, Robert Bryant⁴, Brock Ashburn⁵, April Shaeffer¹, Johnny R. Rogers¹
¹North Carolina State University, ²Department of Animal Science - North Carolina State University, ³North Carolina Cooperative Extension, ⁴Warren Wilson College, ⁵Highland Brewing Company

3:25 p.m. 163 The effects of energy and lasalocid supplementation on forage intake and energetics of cattle grazing wheat pasture
Autumn T. Pickett¹, Elizabeth Kegley², Paul A. Beck³, Stacey A. Gunter⁴
¹University of Arkansas, ²University of Arkansas Division of Agriculture Dept. of Animal Science, ³Oklahoma State University, ⁴USDA ARS

3:30 p.m. 83 Evaluation of feeding immunoglobulin-Y to Holstein feeder cattle for the control of liver abscesses & reduction of macrolide-resistant bacteria dissemination
Miranda K. Stotz¹, Diego Casas Murillo¹, Darren D. Henry², Whitney L. Crossland¹
¹Texas Tech University, ²Texas tech University

3:35 p.m. 134 Public perceptions of equine processing and welfare
Kelly Melvin¹, Liesel G. Schneider¹, Jennie L. Ivey¹, Peter D. Krawczel¹
¹University of Tennessee Institute of Agriculture

3:40 p.m. 63 Effects of forage allowance and supplementation on performance of steers grazing wheat pasture.
Kynzie McNeill¹, Ryan R. Reuter¹, Paul A. Beck¹
¹Oklahoma State University

3:45 p.m. 119 Palatability of Olive Pomace in Mozambique Tilapia (Oreochromis mossambicus)
Ethan Krasue¹, Benny J. Conn¹, Stanley F. Kelley¹, Marcy M. Beverly¹, Mark Anderson¹
¹Sam Houston State University
3:50 p.m. 160 The effect on ADG, DMI, and blood metabolites of weaned Katahdin lambs offered chelated mineral with Ascophyllum nodosum on a high forage diet
Elizabeth Jolly 1, Jamie A. Boyd 1
1Sul Ross State University

3:55 p.m. 12 Carcass Attributes and Performance of Poultry (Gallus gallus domesticus) fed Olive Pomace
Benny J. Conn 1, Payton Snokhous 1, Ethan Carter 1, Phil Urso 2, Jerrad F. Legako 2, Stanley F. Kelley 1, Marcy M. Beverly 1, Mark Anderson 1
1Sam Houston State University, 2Texas Tech University

4:00 p.m. 17 Comparing Natural Vegetation and Food Plot Preference against Supplemental Protein Pellets in Captive White-tailed Deer (Odocoileus virginianus) and Exotic Species
Robert W. McQueen 1, Marcy M. Beverly 1, Stanley F. Kelley 1, Mark Anderson 1
1Sam Houston State University

4:05 p.m. 27 Defining Grazing Recommendations for Alfalfa-Bermudagrass Mixtures in the Southeastern U.S.
Kaylyn Groce 1, Jennifer J. Tucker 1, Katie Mason 2, Landon Marks 3, Mary K. Mullenix 2
1University of Georgia, 2Auburn University/Alabama Cooperative Extension System, 3Auburn University

4:10 p.m. 50 Effects of acclimation on cattle response to humans while being handled.
Corban H. Hemphill 1, Ryan R. Reuter 1, James P. Neel 2, Laura Goodman 1
1Oklahoma State University, 2GRL-ARS-USDA

4:15 p.m. 168 The effects of fly control strategies on fly abundance, fly avoidance behaviors, and performance in feedlot bulls and steers
Courtney McNeff 1, Justin Talley 1, Colton A. Robison 1, Blake K. Wilson 1
1Oklahoma State University

4:20 p.m. 23 Comparison of vaginal microbiome and concentrations of estradiol at artificial insemination in Brangus heifers
Riley D. Messman 1, Zully Contreras-Correa 1, Henry A. Paz 2, George A. Perry 3, Caleb O. Lemley 1
1Department of Animal and Dairy Sciences, Mississippi State University, Mississippi State, MS, 2Mississippi State University, 3South Dakota State University

4:25 p.m. 149 The effect of bunk preference on performance, intake, and efficiency of feedlot steers using an automated individual feeding system
Kaitlyn N. Pierce 1, Ryan R. Reuter 1, Colton A. Robison 1, Blake K. Wilson 1
1Oklahoma State University
4:30 p.m. 30 Determination of Optimal Harvest Weight for Mangalica Pigs Using a Serial Harvest Approach to Measure Growth Performance and Carcass Characteristics
Maegan A. Reeves 1, Courtney E. Charlton 1, Shannon R. Wilkerson 1, John G. Rehm 1, Terry D. Brandebourg 1
1Auburn University

4:35 p.m. 104 Impacts of Phosphorus Intake on Beef Heifer Growth Performance and Reproductive Tract Scores
Hailey Hilfiker 1, Elizabeth Kegley 1, Rick Rorie 1, Pete A. Hornsby 1, Jana Reynolds 1, Ben P. Shoulders 1, Reagan N. Cauble 2, Jermy G. Powell 2
1University of Arkansas Division of Agriculture Dept. of Animal Science, 2University of Arkansas

4:40 p.m. 153 The Effect of Nerve Growth Factor Beta on Embryonic Cleavage Rates
Kayla Jones, North Carolina A&T State University

4:45 p.m. 18 Comparing stress indicators of horses used for therapy in riding activities and groundwork activities
Gabrielle Abbott 1, Kathi Jogan 1, Erin L. Oberhaus 2, Jason Apple 3, Charles Rosenkrans 4
1University of Arkansas, 2Louisiana State University Agricultural Center, 3Texas A&M University-Kingsville, 4Clemson University

4:50 p.m. 183 Utilizing Breeding Indictors for an Effective AI Program in Brahman Cows
Emily K. DeShazo 1, Sydney Reese 1, Gessica Franco 1, Don Neuendorff 1, Ron Randel 1, Ky Pohler 1
1Texas A&M University

4:55 p.m. 48 Effect of Zelnate administered at initial processing in high-risk, newly received beef calves on performance and morbidity
Brady E. Martin 1, Reagan N. Cauble 1, Elizabeth Kegley 2, Jermy G. Powell 1
1University of Arkansas, 2University of Arkansas Division of Agriculture Dept. of Animal Science

5:00 p.m. 175 The Suitability of Autoclave and Pressure Cooker Washing Methods in Comparison to ANKOM200 to Determine Neutral Detergent Fiber Using Different Feedstuffs and Washing Solutions
Jordan Adams 1, Aaron B. Norris 1, Madeline E. Rivera 1, Luiz Fernando Dias Batista 1, Luis O. Tedeschi 1
1Texas A&M University
5:05 p.m. 95 Impact of daily movement with low or higher target residue on ewe weight gain and parasite infestation
Isabella Kukor-Laureano 1, Izzy Van Buren 1, Jay A. Daniel 1
1Berry College

5:10 p.m. 122 Physiological effects of low-level laser therapy on exercised horses.
Ashley Rosenkrans 1, Carson Freeman 2, Erin L. Oberhaus 3, Palika Dias Morse 4, Charles Rosenkrans 5
1Purdue University, 2University of Missouri, 3Louisiana State University Agricultural Center,
4University of Arkansas, 5Clemson University

5:15 p.m. 39 Effect of Breed on Dairy Calf Vigor from Birth to Preweaning
Michelle P. Meza 1, Caitlin M. Turner 1, Chad M. Powers 1, Andrea K. Sexten 1
1Eastern Kentucky University

5:20 p.m. 171 The effects of supplementing a chelated mineral containing *Ascophyllum nodosum* on intake and performance of creep-fed hair lambs.
Victoria Romo 1, Jamie A. Boyd 1
1Sul Ross State University

5:25 p.m. 60 Effects of exogenous glucocorticoid administration on leptin concentrations in perinatal dairy bull calves
Camille Morris 1, Keelee J. McCarty 1, Nathan Long 1
1Clemson University

5:30 p.m. 103 Impact of weaning strategy on beef cow-calf behavior and activity
Molly Alexander 1, Carrie L. Pickworth 1, Mikayla Moore 1, Matt H. Poore 2
1NC State University, 2Department of Animal Science - North Carolina State University

5:35 p.m. 74 Epigenetic marks within the swine placenta are differentially expressed due to season
Robin Cheek 1, Lea A. Rempel 2, Jeremy R. Miles 2
1TAMU-Kingsville, 2USDA, ARS, USMARC

5:40 p.m. 100 Impact of weaning strategy on beef cow and calf weight and body condition
Mikayla Moore 1, Jordan Cox-O'Neill 1, Matt H. Poore 2, Carrie L. Pickworth 1
1NC State University, 2Department of Animal Science - North Carolina State University
4:40 p.m. 53 **Effects of an injectable zinc solution at weaning as an alternative castration method during the backgrounding period in beef bulls**
Reagan N. Cauble 1, Powell G. Powell 1, Elizabeth Kegley 2, Shane Gadberry 1, Paul A. Beck 3, Michael Sims 3, Cody Shelton 4
1University of Arkansas, 2University of Arkansas Division of Agriculture Dept. of Animal Science, 3Oklahoma State University, 4University of Arkansas SWREC

4:45 p.m. 36 **Differential haptoglobin responsiveness to a *Mannheimia haemolytica* challenge altered immunologic, physiologic, and behavioral responses in beef steers**
Lauren Wottlin 1, Gordon E. Carstens 1, William Kayser 1, Thomas H. Welsh 1, William Pinchak 1
1Texas A&M University

4:50 p.m. 6 **Animal performance in grass monoculture or silvopasture systems using tree legumes**
Izabela Aline Gomes da Silva 1, Jose Carlos Batista Dubeux Jr. 2, Alexandre C. Leão de MELLO 1, Márcio Vieira da Cunha 1, Médica Ferreira dos Santos 1, Valéria Oliveira Apolinário 3, Gleise Medeiros da Silva 2, Erinaldo Viana de Freitas 1, Nicolas DiLorenzo 2
1Federal Rural University of Pernambuco, 2University of Florida - North Florida Research and Education Center, 3Maranhao State University

4:55 p.m. 57 **Effects of Diploid and Tetraploid Annual Ryegrass Cultivars on Cattle Performance, Herbage Mass, and Nutritive Value**
Sarah M. Montgomery 1, Brandi Karisch 1, Jane A. Parish 2, Jesse Morrison 1, Brian Baldwin 1
1Mississippi State University, 2North Mississippi Research and Extension Center, Mississippi State University

5:00 p.m. 64 **Effects of grazing cool-season cover crops on forage and animal performance**
Russell C. Carrell 1, Sandra L. Dillard 1, Mary K. Mullenix 2, Audrey Gamble 1, Russ B. Muntifering 1
1Auburn University, 2Auburn University/Alabama Cooperative Extension System

5:05 p.m. 99 **Impact of social mixing on feedlot steer eating and lying behavior**
Amanda J. Hubbard 1, Jason Sawyer 1, Reinaldo F. Cooke 1, Jenny Jennings 2, Courtney L. Daigle 1
1Texas A&M University, 2Texas A&M AgriLife Research and Extension Service
5:10 p.m. 130  Presynchronization with Prostaglandin $F_{2\alpha}$ and prolonged exposure to exogenous progesterone impacts estrus expression and alters fertility in beef heifers
Nicola Oosthuizen $^1$, Pedro Fontes $^1$, Cliff Lamb $^1$
$^1$Texas A&M University

5:15 p.m. 143  Rumen Fluid Metabolites as Potential Biomarkers of Feed Efficiency in Angus Steers
Brooke A. Clemmons $^1$, Joshua B. Powers $^2$, Shawn R. Campagna $^2$, Taylor B. Ault $^2$, Mallory M. Embree $^3$, Phillip R. Myer $^2$
$^1$University of Tennessee Institute of Agriculture, $^2$University of Tennessee, Knoxville, $^3$Ascus Biosciences, Inc.

5:20 p.m. 77  Evaluating Nitrogen Management Strategies to Improve Southern Bermudagrass Grazing Systems
Justin C. Burt $^1$, Jennifer J. Tucker $^1$, Lisa Baxter $^1$
$^1$University of Georgia
Monday, January 27, 2020

MEATS
Chair: Alexander Stelzleni, University of Georgia
8:00 AM - 8:45 AM
Walker

8:00 a.m. 110 Metmyoglobin reducing activity and oxygen consumption properties of atypical dark-cutting beef
Ranjith Ramanathan 1, Andrew M. Cassens 1, Laura Yoder 1, Gretchen G. Mafi 1
1Oklahoma State University

8:15 a.m. 25 Cooking method and muscle type impact volatile compound development in beef steaks
Kelly R. Vierck 1, Jerrad F. Legako 1, J Chance Brooks 1
1Texas Tech University

8:30 a.m. 147 Tenderness and Retail Display Evaluation of Non-Enhanced, Enhanced and High-Quality Pork Chops
Andrew M. Cassens 1, Gretchen G. Mafi 1, Deb L. VanOverbeke 1, Ranjith Ramanathan 1
1Oklahoma State University

PHYSIOLOGY I
Chair: Daniel Poole, North Carolina State University
8:00 AM - 10:45 AM
Ballroom 3/4

8:00 a.m. 72 Endocrine and ovarian responses to combined estradiol benzoate-sulpiride in anestrous mares treated with kisspeptin
Victoria N. Bailey 1, Jennifer L. Sones 2, Caroline M. Camp 1, Erin L. Oberhaus 1
1Louisiana State University Agricultural Center, 2Louisiana State University School of Veterinary Medicine

8:15 a.m. 19 Comparing stress indicators of horses used for therapy in riding activities and groundwork activities
Gabrielle Abbott 1, Kathi Jogan 1, Erin L. Oberhaus 2, Jason Apple 3, Charles Rosenkrans 4
1University of Arkansas, 2Louisiana State University Agricultural Center, 3Texas A&M University-Kingsville, 4Clemson University

8:30 a.m. 121 Physiological effects of low-level laser therapy on exercised horses.
Ashley Rosenkrans 1, Carson Freeman 2, Erin L. Oberhaus 3, Palika Dias Morse 4, Charles Rosenkrans 5
1Purdue University, 2University of Missouri, 3Louisiana State University Agricultural Center, 4University of Arkansas, 5Clemson University
8:45 a.m. 8 Assessment of consistency in quantification of ribonucleic acid across multiple methods
Andrea N. DeCarlo 1, Joseph Parrish 1, William Bridges 1, Scott Pratt 1
1Clemson University

9:00 a.m. 132 Proportional tissue weights in male goats differing in genetic propensity to consume juniper.
Douglas R. Tolleson 1, Thomas H. Welsh 2, Nick Garza 1, Kaylee Hollingsworth 2, John W. Walker 1
1Texas A&M AgriLife Research, 2Texas A&M University

9:15 a.m. PHYSIOLOGY I BREAK

9:30 a.m. 109 Metabolic and endocrine indicators in male goats differing in genetic propensity to consume juniper.
Douglas R. Tolleson 1, Thomas H. Welsh 2, John W. Walker 1
1Texas A&M AgriLife Research, 2Texas A&M University

9:45 a.m. 88 Factors influencing mare milk composition and yield and foal digestive health
Morgan B. Pyles 1, Ashley Fowler 1, Andrea Crum 1, Susan Hayes 1, Rachel Schendel 1, Michael Flythe 2, Laurie Lawrence 1
1University of Kentucky, 2United States Department of Agriculture, ARS-FAPRU

10:00 a.m. 14 Characterization of adipose tissue extracellular matrix component mRNA expression during porcine adipogenesis using real-time PCR
Maegan A. Reeves 1, Courtney E. Charlton 1, Terry D. Brandebourg 1
1Auburn University

10:15 a.m. 31 Determination of Optimal Harvest Weight for Mangalica Pigs Using a Serial Harvest Approach to Measure Growth Performance and Carcass Characteristics
Maegan A. Reeves 1, Courtney E. Charlton 1, Shannon R. Wilkerson 1, John G. Rehm 1, Terry D. Brandebourg 1
1Auburn University

10:30 a.m. 75 Epigenetic marks within the swine placenta are differentially expressed due to season
Robin Cheek 1, Lea A. Rempel 2, Jeremy R. Miles 2
1TAMU-Kingsville, 2USDA, ARS, USMARC
KUNKLE SYMPOSIUM
Chair: Shane Gadberry, University of Arkansas
8:30 AM - 11:30 AM
Ballroom 2

8:30 a.m.  KUNKLE SYMPOSIUM INTRODUCTION
Shane Gadberry, University of Arkansas

8:40 a.m.  24 Condensed tannins: structure, activity and characterization
Wayne Zeller, USDA-ARS

9:30 a.m.  180 Using condensed tannins in plant materials more effectively with livestock
Scott L. Kronberg, USDA-Agricultural Research Service

10:20 a.m.  KUNKLE SYMPOSIUM BREAK

10:35 a.m.  4 Agrochemical Residues, Product Quality, and Safety of Beef Fed Cotton Ginning and Other Byproduct Feeds
David J. Smith, USDA-ARS

BREEDING AND GENETICS
Chair: Bryan Kutz, University of Arkansas
1:15 PM - 2:45 PM
Ballroom 3/4

1:15 p.m.  46 Effect of the addition of α-tocopherol to in vitro maturation media of bovine oocytes.
Theisy P. Acosta Pérez, Universidad Autonoma de Ciudad Juárez

1:30 p.m.  70 Effects of the addition of Moringa oleifera seed extract to in vitro maturation of bovine oocyte media and its antimicrobial activity.
Theisy P. Acosta Pérez, Universidad Autonoma de Ciudad Juárez

1:45 p.m.  84 Evaluation of hair coat shedding ability as an adaptive trait in Angus cattle in the southern U.S.
Randy H. Burnett 1, Morgan A. Duvic 1, Bryan R. Kutz 2, Avert H. Brown, Jr. 2, Jermey G. Powell 2, Trent Smith 1, David G. Riley 3, R N. Cauble 2
1Mississippi State University, 2University of Arkansas, 3Texas A&M University

2:00 p.m.  128 Pregnancy and calving rates of beef cows comparing the sex-selected semen to conventional semen using timed artificial insemination
Jennifer McMurray 1, Andrea N. DeCarlo 1, Nathan Long 1, Scott Pratt 1
1Clemson University
2:15 p.m. 139 **Relationship of winter hair growth and performance in Angus dams**
Morgan A. Duvic 1, Randy H. Burnett 1, Cody Glenn 1, Trent Smith 1
1Mississippi State University

2:30 p.m. 184 **Utilizing Breeding Indictors for an Effective AI Program in Brahman Cows**
Emily K. DeShazo 1, Sydney Reese1, Gessica Franco1, Don Neuendorff1, Ron Randel1, Ky Pohler 1
1Texas A&M University

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**PASTURES AND FORAGES I**
Chair: Flint Harrelson, Morehead State University
1:15 PM - 3:45 PM
Ballroom 2

1:15 p.m. 87 **Evaluation of two stocking rates for grazing heifers on mixed sward native warm-season grass pastures in the Black Belt Prairie region**
Jane A. Parish 1, Kalisha C. Yankey 2, Libby S. Durst 2
1North Mississippi Research and Extension Center, Mississippi State University, 2Prairie Research Unit, Mississippi State University

1:30 p.m. 115 **Nitrogen fertilizer effects on above ground sward characteristics and beef heifer performance from native warm-season grass blends**
Caroline Chappell 1, Landon Marks 2, Katie Mason 1, Mary K. Mullenix 1, Sandra L. Dillard 2, Russ B. Muntifering 2
1Auburn University/Alabama Cooperative Extension System, 2Auburn University

1:45 p.m. 5 **Animal performance in grass monoculture or silvopasture systems using tree legumes**
Izabela Aline Gomes da Silva 1, Jose Carlos Batista Dubeux Jr. 2, Alexandre C. Leão de MELLO 1, Márcio Vieira da Cunha 1, Mécia Ferreira dos Santos 1, Valéria Oliveira Apolinário 3, Gleise Medeiros da Silva 2, Erinaldo Viana de Freitas 1, Nicolas DiLorenzo 2
1Federal Rural University of Pernambuco, 2University of Florida - North Florida Research and Education Center, 3Maranhao State University

2:00 p.m. 16 **Comparing Natural Vegetation and Food Plot Preference against Supplemental Protein Pellets in Captive White-tailed Deer (Odocoileus virginianus) and Exotic Species**
Robert W. McQueen 1, Marcy M. Beverly 1, Stanley F. Kelley 1, Mark Anderson 1
1Sam Houston State University

2:15 p.m. **PASTURES AND FORAGES I BREAK**
2:30 p.m.  20  **Comparison of native warm-season grasses and bermudagrass for stocker calf grazing in the Black Belt Prairie region**  
Jane A. Parish 1, Kalisha C. Yankey 2, Libby S. Durst 2  
1North Mississippi Research and Extension Center, Mississippi State University, 2Prairie Research Unit, Mississippi State University

2:45 p.m.  145  **Stocker gains on diverse summer annual pastures**  
Kelly Mercier 1, Chris Teutsch 1, Ray Smith 1, Eric Vanzant 1, Kenny Burdine 1, Edwin Ritchey 1  
1University of Kentucky

3:00 p.m.  191  **Yield and nutritive quality of summer annual forage mixtures**  
Serena Thompson 1, Sandra L. Dillard 1, Alana Jacobson 1, Jenny Koebernick 1, Grey Parks 1, Mary K. Mullenix 2  
1Auburn University, 2Auburn University/Alabama Cooperative Extension System

3:15 p.m.  76  **Evaluating Nitrogen Management Strategies to Improve Southern Bermudagrass Grazing Systems**  
Justin C. Burt 1, Jennifer J. Tucker 1, Lisa Baxter 1  
1University of Georgia

3:30 p.m.  28  **Defining Grazing Recommendations for Alfalfa-Bermudagrass Mixtures in the Southeastern U.S.**  
Kaylyn Groce 1, Jennifer J. Tucker 1, Katie Mason 2, Landon Marks 3, Mary K. Mullenix 2  
1University of Georgia, 2Auburn University/Alabama Cooperative Extension System, 3Auburn University

**PHYSIOLOGY II: GENOMICS**  
Chair: Paul Broadway, USDA-ARS  
1:15 PM - 4:15 PM  
Roberts

1:15 p.m.  137  **Randel Lecture: Genetic control of thermotolerance in cattle at the whole-animal and cellular level**  
Peter J. Hansen, University of Florida

1:45 p.m.  13  **Changes in Cytokine Profiles in Response to Ergovaline Exposure in Slick vs. Normal Hair Coat in Beef Heifers**  
Alecia R. Brown 1, McKenzie L. Haimon 1, Rebecca Poole 2, Matt H. Poore 3, Daniel H. Poole 1  
1Dept of Animal Science - NC State University, 2Texas A&M University, 3Department of Animal Science - North Carolina State University
2:00 p.m. 86 Evaluation of the effect of prenatal transportation stress on endocrine and immune tissues of neonatal Brahman calves
Audrey L. Earnhardt 1, Catherine L. Wellman 2, Thomas Hairgrove 1, Rodolfo C. Cardoso 1, Charles R. Long 1, David G. Riley 1, Ron Randel 1, Thomas H. Welsh 1
1Texas A&M University, 2Texas A&M AgriLife Research

2:15 p.m. 2 Acute phase response to lipopolysaccharide challenge in beef steers supplemented with prebiotic blends
Nicole C. Burdick Sanchez 1, Paul R. Broadway 1, Jeffery A. Carroll 1, Devan M. Paulus Compart 2, J C. Forcherio 3
1USDA-ARS, 2PMI, 3Purina Animal Nutrition

2:30 p.m. 35 Differential haptoglobin responsiveness to a Mannheimia haemolytica challenge altered immunologic, physiologic, and behavioral responses in beef steers
Lauren Wottlin 1, Gordon E. Carstens 1, William Kayser 1, Thomas H. Welsh 1, William Pinchak 1
1Texas A&M University

2:45 p.m. PHYSIOLOGY II BREAK

3:00 p.m. 182 Uterine gene expression of beef cows in response to supplementation with calcium salts of soybean oil
Claire L. Timlin 1, Taylor Parrish 2, Nicholas W. Dias 1, Felipe Santili 2, Stefania Pancini 1, Vitor RG Mercadante 1
1Animal and Poultry Sciences, Virginia Tech, Blacksburg, VA, USA., 2Virginia Tech

3:15 p.m. 59 Effects of exogenous glucocorticoid administration on leptin concentrations in perinatal dairy bull calves
Camille Morris 1, Keelee J. McCarty 1, Nathan Long 1
1Clemson University

3:30 p.m. 140 Relaxin Regulates Porcine Adipose Tissue Development by Inhibiting Preadipocyte Number, Stimulating Lipolysis, and Upregulating mRNA Expression of Adipokine, Fatty Acid Metabolism and Extracellular Matrix Genes
Courtney E. Charlton 1, Maegan A. Reeves 1, Terry D. Brandebourg 1
1Auburn University

3:45 p.m. 173 The role of an intronic single nucleotide polymorphism within the dopamine receptor type-2 gene on pituitary prolactin protein expression in bulls
Andrea N. DeCarlo 1, Keelee J. McCarty 1, Sarah K. Richey 1, Nathan Long 1, Scott Pratt 1
1Clemson University
4:00 p.m.  133  Provision of Artificial Shade During Summer Reduced Vaginal Temperature and Improved Growth Performance of Pregnant Grazing Beef Heifers
Gleise Medeiros da Silva 1, Jimena Laporta 2, Jose Carlos Batista Dubeux Jr. 1, Ricardo Chebel 3, Nicolas DiLorenzo 1
1University of Florida - North Florida Research and Education Center, 2University of Florida - Department of Animal Sciences, 3University of Florida- College of Veterinary Medicine & Department of Animal Sciences

SMALL RUMINANT PRODUCTION I: REPRODUCTION, HEALTH AND BEHAVIOR
Chair: Niki Whitley, Fort Valley State University
1:15 PM - 4:15 PM
Walker

1:15 p.m.  43  Effect of Mushroom Probiotic (Coriolus Versicolor) on Galectin Gene Secretion in Goat Blood
Kingsley E. Ekweomalor 1, Emmanuel K. Asiamah 2, Sarah Adjei-Fremah 1, Eboghoye ElukaOkoludoh 1, Mulumebet Worku 1
1North Carolina Agricultural and Technical State University, 2University of Arkansas Pine Bluff

1:30 p.m.  21  Comparison of Savanna, Kiko, and Spanish Sires for Meat Goat Doe-Kid Traits
Lauren Stevens 1, Emily G. Hayes 1, Piush Khanal 1, Shaneqwa Thomas 1, Mozell Byars 1, Richard Browning, Jr 1
1Tennessee State University

1:45 p.m.  159  The effect of sire FEC EBV on parasitism and survivability in grazing Katahdin lambs
Andrew R. Weaver 1, Joan M. Burke 2, Jim Morgan 3, Donald L. Wright 4, Scott P. Greiner 5, Scott A. Bowdridge 1
1West Virginia University, 2USDA ARS, 3Katahdin Hair Sheep International, 4Virginia Tech Southwest Virginia AREC, 5Virginia Tech

2:00 p.m.  158  The effect of sire fecal egg count estimated breeding value on antibody production of grazing Katahdin lambs
Kelsey Bentley 1, Andrew R. Weaver 1, Joan M. Burke 2, Jim Morgan 3, Lee Wright 4, Scott P. Greiner 5, Scott A. Bowdridge 1
1West Virginia University, 2USDA ARS, 3Katahdin Hair Sheep International, 4Virginia Tech University, 5Virginia Tech
2:15 p.m. 45 Effect of terminal sire breed on grazing performance, parasitism, and market grade of crossbred lambs: year 2
Curtis Patton 1, Camren I. Maierle 1, Andrew R. Weaver 1, Scott P. Greiner 2, Scott A. Bowdridge 1
1West Virginia University, 2Virginia Tech

2:30 p.m. SMALL Ruminant Production I BREAK

2:45 p.m. 26 Copper oxide wire particles to complement control of gastrointestinal nematodes with levamisole and/or albendazole in lambs
Joan M. Burke 1, James E. Miller 2, Mohan Acharya 3, Erin Wood 4
1USDA ARS, 2Louisiana State University, 3University of Arkansas, 4USDA, ARS

3:00 p.m. 177 Use of diatomaceous earth and copper oxide wire particles to control gastrointestinal nematodes in lambs
Olivia Jones 1, Joan M. Burke 2, James E. Miller 3, Charles Rosenkrans 4
1University of Arkansas, 2USDA ARS, 3Louisiana State University, 4Clemson University

3:15 p.m. 96 Impact of daily movement with low or higher target residue on ewe weight gain and parasite infestation
Isabella Kukor-Laureano 1, Izzy Van Buren 1, Jay A. Daniel 1
1Berry College

3:30 p.m. 93 Health and Performance of Ewes in Woodland and Silvopasture Systems
Nevershi Ellis 1, Uma Karki 1, Bidur Paneru 1, Lila B. Karki 1
1Tuskegee University

3:45 p.m. 10 Behavior and Landscape-Use Pattern of Small Ruminants Co-grazed in Woodlands with different Vegetation Characteristics
Bidur Paneru 1, Uma Karki 1, Nevershi Ellis 1, shaiies Bhattai 2, Lila B. Karki 1
1Tuskegee University, 2University of Georgia

4:00 p.m. 91 Growth performance of landrace hair sheep lambs under different forage environments
Stephan Wildeus 1, Dahlia O'Brien 1, Gabriel J. Pent 2, Kathryn Payne 2
1Virginia State University, 2Virginia Tech
1:15 p.m.  164  The effects of energy and lasalocid supplementation on forage intake and energetics of cattle grazing wheat pasture
Autumn T. Pickett¹, Elizabeth Kegley², Paul A. Beck³, Stacey A. Gunter⁴
¹University of Arkansas, ²University of Arkansas Division of Agriculture Dept. of Animal Science, ³Oklahoma State University, ⁴USDA ARS

1:30 p.m.  169  The effects of once or twice daily feed delivery on the finishing performance and carcass characteristics of feedlot steers
Blake K. Wilson¹, Will Ryan¹, Chris Richards¹
¹Oklahoma State University

1:45 p.m.  120  Performance Effects on Weaned Calves using 3 Weaning Strategies and Nutritional Supplementation
Meagan Hendricks¹, Douglas Eborn¹, Kaylee R. Kipp¹, Caleta M. Willis¹, Megan P. Owen²
¹Texas A&M University-Commerce, ²Texas A&M University Commerce

2:00 p.m.  113  Mineral Supplementation Effects in Stocker Cattle Performance Grazed on Wheat Seeded Native Pastures
Kaylee R. Kipp¹, Douglas Eborn¹, Megan P. Owen²
¹Texas A&M University-Commerce, ²Texas A&M University Commerce

2:15 p.m.  32  Determining the feeding value of corn gluten feed relative to corn when supplemented to beef calves grazed on stockpiled tall fescue pastures
Charles A. Zumbaugh¹, Adam R. Murray¹, Taylor A. Langford¹, Olivia M. Claire¹, Thomas B. Wilson¹
¹Virginia Tech

2:30 p.m.  33  Determining the feeding value of hulless barley relative to corn in beef finishing rations
Gabriel J. Pent¹, Thomas B. Wilson¹
¹Virginia Tech

2:45 p.m.  RUMINANT ANIMAL PRODUCTION I BREAK

3:00 p.m.  179  Using a 100% Dried Distillers Grains Cube as a Supplement for Steers Grazing Mixed Grass Prairie in Oklahoma
Zane N. Grigsby¹, Paul A. Beck¹, Stacey A. Gunter²
¹Oklahoma State University, ²USDA ARS
3:15 p.m. 186 Utilizing craft brewing side streams of trub, hops, and yeast mix (THYM) as a novel feed additive and an alternative to monensin in beef cattle diets
Kendra P. Phipps 1, Deidre D. Harmon 1, Matt H. Poore 2, Ethan Henderson 3, Robert Bryant 4, Brock Ashburn 5, April Shaeffer 1, Johnny R. Rogers 1
1North Carolina State University, 2Department of Animal Science - North Carolina State University, 3North Carolina Cooperative Extension, 4Warren Wilson College, 5Highland Brewing Company

3:30 p.m. 9 Backgrounding system diet effects on performance of beef calves during transportation and feedyard adaptation
Daniel A. Tigue 1, John G. Rehm 2, Alisha Kerklin 2, Soren P. Rodning 2, Mary K. Mullenix 1, Christy L. Bratcher 3
1Auburn University/Alabama Cooperative Extension System, 2Auburn University, 3Texas Tech University

3:45 p.m. 54 Effects of an injectable zinc solution at weaning as an alternative castration method during the backgrounding period in beef bulls
Reagan N. Cauble 1, Powell G. Powell 1, Elizabeth Kegley 2, Shane Gadberry 1, Paul A. Beck 3, Michael Sims 3, Cody Shelton 4
1University of Arkansas, 2University of Arkansas Division of Agriculture Dept. of Animal Science, 3Oklahoma State University, 4University of Arkansas SWREC

4:00 p.m. 112 Mineral supplement intake by weaned steers as affected by offering multiple salt sources
Jane A. Parish 1, Kalisha C. Yankey 2, Libby S. Durst 2
1North Mississippi Research and Extension Center, Mississippi State University, 2Prairie Research Unit, Mississippi State University

4:15 p.m. 47 Effect of Zelnate administered at initial processing in high-risk, newly received beef calves on performance and morbidity
Brady E. Martin 1, Reagan N. Cauble 1, Elizabeth Kegley 2, Jermey G. Powell 1
1University of Arkansas, 2University of Arkansas Division of Agriculture Dept. of Animal Science
1:15 p.m.  82  Evaluation of feeding immunoglobulin-Y to Holstein feeder cattle for the control of liver abscesses & reduction of macrolide-resistant bacteria dissemination  
Miranda K. Stotz 1  
1Texas Tech University

1:30 p.m.  44  Effect of Quebracho (Schinopsis balansae) extract inclusion in a high roughage diet upon in vitro gas production  
Luiz Fernando Dias Batista 1, Madeline E. Rivera 1, Aaron B. Norris 1, Jordan Adams 1, Roberta Cracco 2, Morgan Jackson 1, Luis O. Tedeschi 1  
1Texas A&M University, 2University of Sao Paulo, Brazil

1:45 p.m.  49  Effects of in-vitro digestibility in cannulated steers when supplemented different levels of glycerol  
Noheli Gutierrez 1, Jamie A. Boyd 1  
1Sul Ross State University

2:00 p.m.  144  Rumen Fluid Metabolites as Potential Biomarkers of Feed Efficiency in Angus Steers  
Brooke A. Clemmons 1, Joshua B. Powers 2, Shawn R. Campagna 2, Taylor B. Ault 2, Mallory M. Embree 3, Phillip R. Myer 2  
1University of Tennessee Institute of Agriculture, 2University of Tennessee, Knoxville, 3Ascus Biosciences, Inc.

2:15 p.m.  85  Evaluation of methane concentration sampling methods of gas produced from in vitro fermentation  
Genevieve M. D'Souza 1, Aaron B. Norris 2, Luis O. Tedeschi 2  
1Texas A&M University Department of Animal Science, 2Texas A&M University

2:30 p.m.  157  The effect of sample handling methodology on ruminal redox potential measured in vivo and in vitro  
Madeline E. Rivera 1, Aaron B. Norris 1, Luis O. Tedeschi 1  
1Texas A&M University

2:45 p.m.  RUMINANT ANIMAL PRODUCTION II BREAK
3:00 p.m.  124  Polyclonal Antibody Preparations from Avian Origin Increased Fiber Digestibility of Beef Cattle Receiving a Backgrounding Diet
Gleise Medeiros da Silva 1, Tessa M. Schulmeister 1, Federico Tarnonsky 1, Federico Podversich 1, Mariana Eloisa Garcia-Ascolani 1, Nicolas DiLorenzo 1
1University of Florida - North Florida Research and Education Center

3:15 p.m.  123  Polyclonal antibody preparations from avian origin did not reduce plasmatic haptoglobin concentrations but increased ruminal NH3-N in beef steers during transition from forage to high-grain diets
Gleise Medeiros da Silva 1, Federico Podversich 1, Tessa M. Schulmeister 1, Erick Rodrigo Silva Santos 1, Carla Sanford 2, Michelle C. B. Siqueira 3, Federico Tarnonsky 1, Nicolas DiLorenzo 1
1University of Florida - North Florida Research and Education Center, 2Montana State University, 3Federal Rural University of Pernambuco

3:30 p.m.  152  The Effect of Nerve Growth Factor Beta on Embryonic Cleavage Rates
Kayla Jones 1
1North Carolina A&T State University

3:45 p.m.  52  Effects of an energy or protein supplement on forage dry matter intake for steers grazing summer native range
Taylor C. Husz 1, Paul A. Beck 1, Andrew P. Foote 1, Ryan R. Reuter 1
1Oklahoma State University

4:00 p.m.  151  The effect of maintenance requirements on production measurements of Angus cows
Claire Andresen 1, Amanda Holder 1, Megan A. Gross 2, Alexi Moehlenpah 1, Jared Taylor 1, Ryan R. Reuter 1, Andrew P. Foote 1, David L. Lalman 1
1Oklahoma State University, 2ASAS

4:15 p.m.  101  Impact of weaning strategy on beef cow and calf weight and body condition
Mikayla Moore 1, Jordan Cox-O'Neill 1, Matt H. Poore 2, Carrie L. Pickworth 1
1NC State University, 2Department of Animal Science - North Carolina State University
Tuesday, January 28, 2020

PASTURES AND FORAGES II
Chair: Jennifer Tucker, University of Georgia
8:00 AM - 10:30 AM
Ballroom 1

8:00 a.m. 61 Effects of fescue cultivar on performance of beef cow/calf pairs grazed on summer stockpiled tall fescue pastures
Taylor A. Langford 1, Keri N. Hardin 1, Adam R. Murray 1, Charles A. Zumbaugh 1, Olivia M. Claire 1, David A. Fiske 2, Gabriel J. Pent 1, Thomas B. Wilson 1
1Virginia Tech, 2Shenandoah Valley Agriculture Research and Extension Center

8:15 a.m. 111 Metsulfuron and variable nitrogen application rates on infected tall fescue: effects on stocker performance, forage yield, nutritive value, ergovaline concentration and botanical composition
Kevin R. MENG 1, Eric Bailey 1, Josh Zeltwanger 1, Hannah Allen 1, Mikaela Adams 1, Derek Brake 1
1University of Missouri

8:30 a.m. 68 Effects of Plant Growth-Promoting Rhizobacteria on Fall-Stockpiled Bermudagrass
Madison Cole 1, Megan E. Griffin 1, Sandra L. Dillard 1, Mary K. Mullenix 2, Russ B. Muntifering 1, David Held 1
1Auburn University, 2Auburn University/Alabama Cooperative Extension System

8:45 a.m. 62 Effects of forage allowance and supplementation on performance of steers grazing wheat pasture.
Kynzie McNeill 1, Ryan R. Reuter 1, Paul A. Beck 1
1Oklahoma State University

9:00 a.m. 58 Effects of Diploid and Tetraploid Annual Ryegrass Cultivars on Cattle Performance, Herbage Mass, and Nutritive Value
Sarah M. Montgomery 1, Brandi Karisch 1, Jane A. Parish 2, Jesse Morrison 1, Brian Baldwin 1
1Mississippi State University, 2North Mississippi Research and Extension Center, Mississippi State University

9:15 a.m. PASTURES AND FORAGES II BREAK

9:30 a.m. 65 Effects of grazing cool-season cover crops on forage and animal performance
Russell C. Carrell 1, Sandra L. Dillard 1, Mary K. Mullenix 2, Audrey Gamble 1, Russ B. Muntifering 1
1Auburn University, 2Auburn University/Alabama Cooperative Extension System
9:45 a.m.  89  Fermentation Kinetics of Different Cool-Season Annual Mixtures with or Without Silage Inoculant
Sarah L. Shoup 1, Mary K. Mullenix 2, Sandra L. Dillard 1, Russ B. Muntifering 1
1Auburn University, 2Auburn University/Alabama Cooperative Extension System

10:00 a.m.  34  Developing criteria for forage finished beef in the Southeastern U.S.
Mohan Acharya 1, Joan M. Burke 2, Erin Wood 3, Janeal Yancey 1
1University of Arkansas, 2USDA ARS, 3USDA, ARS

10:15 a.m.  97  Impact of Regionalized Forage Quality and Quantity and Feed Grain Water Use on the Daily Texas Beef Cattle Water Footprint and Supply Chain Efficiency
Hector M. Menendez 1, Luis O. Tedeschi 2
1Texas A&M, 2Texas A&M University

PHYSIOLOGY III: REPRODUCTIVE
Chair: Vitor Mercadante, Department of Animal and Poultry Science, Virginia Tech
8:00 AM - 11:00 AM
Ballroom 3/4

8:00 a.m.  138  Randel Lecture: Reproductive Behavior – the basis of reproductive success
Brenda M. Alexander 1
1Department of Animal Science, university of Wyoming

8:30 a.m.  37  Early pregnancy detection in cattle by analysis of maternal circulating microRNA expression
Andrea N. DeCarlo 1, Joseph Parrish 1, Nathan Long 1, Scott Pratt 1
1Clemson University

8:45 a.m.  42  Effect of injectable trace mineral supplementation on beef cows fertility and overall mineral status
Stefania Pancini 1, Jhon F. Currin 2, Jamie L. Stewart 2, Sherrie Clark 2, Tracey Redifer 2,
Nicholas W. Dias 1, Claire L. Timlin 1, Alvaro Sales 1, Vitor RG Mercadante 1
1Animal and Poultry Sciences, Virginia Tech, Blacksburg, VA, USA., 2Large animal Clinical Sciences, Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA, USA

9:00 a.m.  69  Effects of supplementing heifers with dietary quercetin during late-gestation
Zachary A. Hisaw 1, Caleta M. Willis 2, Kaylee R. Kipp 2, Douglas Eborn 2, Megan P. Owen 1
1Texas A&M University Commerce, 2Texas A&M University-Commerce
Quantitative and qualitative analysis of interferon stimulated genes MX2, OAS1, and ISG15 for detection of pregnancy in cattle
Andrea N. DeCarlo 1, Joseph Parrish 1, Nathan Long 1, Scott Pratt 1
1Clemson University

PHYSIOLOGY III BREAK

Uterine and vaginal bacteria and cytokine profiles prior to artificial insemination between resulting pregnant and open postpartum beef cows
Rebecca Poole 1, Taylor B. Ault 2, Phillip R. Myer 2, Andrea Lear 3, Ky Pohler 1
1Texas A&M University, 2University of Tennessee, Knoxville, 3University of Tennessee

Comparison of vaginal microbiome and concentrations of estradiol at artificial insemination in Brangus heifers
Riley D. Messman 1, Zully Contreras-Correa 1, Henry A. Paz 2, George A. Perry 3, Caleb O. Lemley 1
1Department of Animal and Dairy Sciences, Mississippi State University, Mississippi State, MS,
2Mississippi State University, 3South Dakota State University

Presynchronization with Prostaglandin F2α and prolonged exposure to exogenous progesterone impacts estrus expression and alters fertility in beef heifers
Nicola Oosthuizen 1, Pedro Fontes 1, Cliff Lamb 1
1Texas A&M University

In Utero Exposure of Ergot Alkaloids does not Impact Heifer Growth and Reproductive Performance
McKenzie L. Haimon 1, Alecia R. Brown 1, Matt H. Poore 2, Daniel H. Poole 1
1Dept of Animal Science - NC State University, 2Department of Animal Science - North Carolina State University

Influence of chronic melatonin supplementation on bovine testis physiology
Brittni P. Littlejohn 1, Kayla B. Mercer 1, Karrigan J. Bowers 1, Riley D. Messman 1, Zully Contreras-Correa 1, Dana Reid 1, Jean M. Feugang 1, Rhonda C. Vann 2, Caleb O. Lemley 1
1Department of Animal and Dairy Sciences, Mississippi State University, Mississippi State, MS,
2Mississippi Agricultural and Forestry Experiment Station, Mississippi State University, Raymond, MS
8:00 a.m.  78 **Evaluation of extended hair sheep ram semen stored as liquid at 5°C**
Robert W. Godfrey 1, Sabrina Keiper 1, Sue Lakos 1
1University of the Virgin Islands

8:15 a.m.  142 **Reproductive performance of land race hair sheep ewes in different breeding seasons under a semi-continuous production**
Stephan Wildeus 1, Dahlia O'Brien 1
1Virginia State University

8:30 a.m.  141 **Reproductive characteristics of post-pubertal lambs after being rendered short scrotum**
Dahlia O'Brien 1, Stephan Wildeus 1, Susan Schoenian 2, Maegan Perdue 2
1Virginia State University, 2University of Maryland

8:45 a.m.  90 **Growth and carcass characteristics of ram, wether, and short-scrotum lambs: year 2**
Susan Schoenian 1, Jeff Semler 1, Mary Beth Bennett 2, Chris Anderson 1, Amanda Grev 1, Maegan Perdue 1
1University of Maryland, 2West Virginia University

9:00 a.m.  162 **The Effects of a *Saccharomyces Cerevisiae* Fermentation Product on the Digestibility of an Annual Rye Grass Hay Based Finishing Diet for Lambs**
Justin C. Burt 1, Jamie A. Boyd 2, Lisa Baxter 1, Brittany Perron 3
1University of Georgia, 2Sul Ross State University, 3Clemson University

9:15 a.m.  66 **Effects of level of protein supplementation on intake of wheat straw and drinking water varying in salinity by Boer and Spanish goats**
Chala Merera 1, Abdelhafid Keli 1, Ryszard Puchala 1, Adaven Scronce 1, Luana P. Ribeiro 1, Raquel Lourenco 1, Wei Wang 1, Arthur L. Goetsch 1
1American Institute for Goat Research, Langston University

9:30 a.m.  **SMALL RUMINANT PRODUCTION II BREAK**

9:45 a.m.  56 **Effects of creep feed supplementation and sire breed on the post-weaning performance of replacement doelings.**
Emily G. Hayes 1, Lauren Stevens 1, Shaneqwa Thomas 1, Kaylee Hurt 1, Richard Browning, Jr 1
1Tennessee State University
10:00 a.m.  170  The effects of supplementing a chelated mineral containing *Ascophyllum nodosum* on intake and performance of creep-fed hair lambs.
Victoria Romo, Jamie A. Boyd
1Sul Ross State University

10:15 a.m.  161  The effect on ADG, DMI, and blood metabolites of weaned Katahdin lambs offered chelated mineral with *Ascophyllum nodosum* on a high forage diet
Elizabeth Jolly, Jamie A. Boyd
1Sul Ross State University

10:30 a.m.  165  The effects of feeding lasalocid in combination with zeranol implants on performance and carcass traits in hair sheep
Brittany A. Lippy, Blake K. Wilson, Jerry Fitch, Gretchen G. Mafi, Justin Crosswhite
1Oklahoma State University

10:45 a.m.  146  Survey of residual feed intake in Katahdin and Texel lambs in a feedlot environment
Camren I. Maierle, Andrew R. Weaver, Eugene Felton, Scott P. Greiner, Scott A. Bowdridge
1West Virginia University, 2West virginia university, 3Virginia Tech

RUMINANT ANIMAL PRODUCTION III: REPRODUCTIVE CATTLE
Chair: Ryon Walker, Noble Research Institute, LLC
8:00 AM - 11:15 AM
Ballroom 2

8:00 a.m.  127  Predicting Dry Matter Intake of Gestating and Lactating Beef Cows
Megan A. Gross, Claire Andresen, Amanda Holder, Alexi Moehlenpah, Carla Goad, Harvey C. Freetly, Paul A. Beck, Eric A. DeVuyst, David L. Lalman
1ASAS, 2Oklahoma State University

8:15 a.m.  188  Voluntary individual intake and performance of mature cows compared to primiparous heifers consuming a low-quality forage
Amanda Holder, Claire Andresen, Megan A. Gross, Alexi Moehlenpah, David L. Lalman
1Oklahoma State University, 2ASAS

8:30 a.m.  41  Effect of grazing cotton crop residue versus Bermudagrass on performance and economic parameters in late gestation beef cows
Dylan B. Davis, Shane r. Hernandez, Lawton Stewart
1University of Georgia
**8:45 a.m. 79 Evaluation of extended release eprinomectin efficacy on multiparous beef cow performance**  
Laine Zammit 1, Jerney G. Powell 1, Reagan N. Cauble 1, Toby D. Lester 1, Callan Lichtenwalter 1, Ellen Herring 1, Clay McGuire 1, Autumn T. Pickett 1, Eva Wray 1, Christopher Tucker 1  
1University of Arkansas

**9:00 a.m. 1 A survey of anthelmintic resistance in Angus bulls participating in centralized performance tests in Appalachia**  
Roger T. Rohrbaugh 1, Andrew R. Weaver 1, Scott P. Greiner 2, Scott A. Bowdridge 1  
1West Virginia University, 2Virginia Tech

**9:15 a.m. 40 Effect of calving season in an artificial insemination program on finishing performance and carcass traits**  
Taylor J. Garcia 1, Colton A. Robison 1, Paul A. Beck 1, Ryan R. Reuter 1, Blake K. Wilson 1, David L. Lalman 1  
1Oklahoma State University

**9:30 a.m. 55 Effects of concentrate supplementation frequency and amount on growth and reproductive performance of Brangus heifers**  
Elizabeth Palmer 1, Marcelo Vedovatto 1, Juliana Ranches 1, Rhaiza Oliveira 1, John Arthington 2, Joao Vendramini 1, Philipe Moriel 1  
1UF/IFAS - Range Cattle Research & Education Center, 2Department of Animal Sciences - University of Florida

**9:45 a.m. RUMINANT ANIMAL PRODUCTION III BREAK**

**10:00 a.m. 71 Effects of timing of supplementation during late gestation in Bos indicus-influenced beef cows on post-weaning growth, immunity, and carcass characteristics of steer progeny**  
Elizabeth Palmer 1, Marcelo Vedovatto 1, Juliana Ranches 1, Vinicius Gouvea 2, Rhaiza Oliveira 1, John Arthington 3, Joao Vendramini 1, Matt H. Poore 4, Philipe Moriel 1  
1UF/IFAS - Range Cattle Research & Education Center, 2New Mexico State University, Clayton Livestock Research Center, 3Department of Animal Sciences - University of Florida, 4Department of Animal Science - North Carolina State University

**10:15 a.m. 108 Influence of Cow Body Weight Changes on Calf Growth during the Summer Grazing Period**  
Flint W. Harrelson 1, Joseph Fraley 1, Patricia L. Harrelson 1  
1Morehead State University
10:30 a.m. 105  **Impacts of Phosphorus Intake on Beef Heifer Growth Performance and Reproductive Tract Scores**  
Hailey Hilfiker¹, Elizabeth Kegley¹, Rick Rorie¹, Pete A. Hornsby¹, Jana Reynolds¹, Ben P. Shoulders¹, Reagan N. Cauble², Jermey G. Powell²  
¹University of Arkansas Division of Agriculture Dept. of Animal Science, ²University of Arkansas

10:45 a.m. 126  **Pre- and post-partum supplementation of molasses/urea, with or without methionine fortification, to enhance growth and physiology of Bos indicus-influenced primiparous cows and their offspring**  
Elizabeth Palmer¹, Marcelo Vedovatto¹, Juliana Ranches¹, Vinicius Gouvea², Rhaiza Oliveira¹, John Arthington³, Joao Vendramini¹, Philipe Moriel¹  
¹UF/IFAS - Range Cattle Research & Education Center, ²New Mexico State University, Clayton Livestock Research Center, ³Department of Animal Sciences - University of Florida

11:00 a.m. 190  **Winter vs. year-round supplementation of mature beef cows on feedlot performance and carcass characteristics of steer progeny**  
Elizabeth Palmer¹, Marcelo Vedovatto¹, Juliana Ranches¹, Vinicius Gouvea², Rhaiza Oliveira¹, Matt H. Poore³, John Arthington⁴, Joao Vendramini¹, Philipe Moriel¹  
¹UF/IFAS - Range Cattle Research & Education Center, ²New Mexico State University, Clayton Livestock Research Center, ³Department of Animal Science - North Carolina State University, ⁴Department of Animal Sciences - University of Florida

**RUMINANT ANIMAL PRODUCTION IV: BEHAVIOR**  
Chair: Jhones O. Sarturi, Texas Tech University  
8:00 AM - 11:15 AM  
Rose

8:00 a.m. 189  **What’s in a step? Evaluating the interrelationship between productivity and cattle behavior during a series of temperament tests**  
Courtney L. Daigle¹, Amanda J. Hubbard¹, Xandra Meneses¹, Temple Grandin²  
¹Texas A&M University, ²Colorado State University

8:15 a.m. 67  **Effects of Maternal Disposition and Calf Chute Behavior at Weaning on Calf Finishing Performance**  
Michael Sims¹, Paul A. Beck¹, Cyril B. Stewart², Cody Shelton², Reagan N. Cauble³, Andrea L. Warner¹  
¹Oklahoma State University, ²University of Arkansas SWREC, ³University of Arkansas

8:30 a.m. 51  **Effects of acclimation on cattle response to humans while being handled**  
Corban Hemphill¹, Ryan R. Reuter¹, James P. Neel², Laura Goodman¹  
¹Oklahoma State University, ²GRL-ARS-USDA
The effect of number of cattle per pen on stocker cattle health and performance
Kirsten A. Midkiff¹, Brandi Karisch¹, Amelia Woolums¹
¹Mississippi State University

Impact of social mixing on feedlot steer eating and lying behavior
Amanda J. Hubbard¹, Jason Sawyer¹, Reinaldo F. Cooke¹, Jenny Jennings², Courtney L. Daigle¹
¹Texas A&M University, ²Texas A&M AgriLife Research and Extension Service

The effects of fly control strategies on fly abundance, fly avoidance behaviors, and performance in feedlot bulls and steers
Courtney McNeff¹, Justin Talley¹, Colton A. Robinson¹, Blake K. Wilson¹
¹Oklahoma State University

RUMINANT ANIMAL PRODUCTION IV BREAK

Impact of weaning strategy on beef cow-calf behavior and activity
Molly Alexander¹, Carrie L. Pickworth¹, Mikayla Moore¹, Matt H. Pooper¹
¹North Carolina State University

Monitoring the impact of shade and housing on physiological response in finishing beef cattle during the summer months in the Southeastern United States
Shane Hernandez¹, William M. Sims¹, Alexander M. Stelzleni¹, Dylan B. Davis¹, Luis Fernando Glasenapp De Menezes², Robert W. McKee¹, Lawton Stewart¹
¹University of Georgia, ²Ferderal University of Technology

Impact of a Hydrolyzed Yeast Product on Performance, Hair Coat Shedding, and Behavior of Cows Grazing Pastures Containing Endophyte-Infected Tall Fescue
Patricia L. Harrelson¹, Rick Martin², Brent Rogers¹, Flint W. Harrelson¹
¹Morehead State University, ²Gro-Tec Inc.

The effect of bunk preference on performance, intake, and efficiency of feedlot steers using an automated individual feeding system
Kaitlyn N. Pierce¹, Ryan R. Reuter¹, Colton A. Robison¹, Blake K. Wilson¹
¹Oklahoma State University

Effect of Breed on Dairy Calf Vigor from Birth to Preweaning
Michelle P. Meza¹, Caitlin M. Turner¹, Chad M. Powers¹, Andrea K. Sexten¹
¹Eastern Kentucky University
11:00 a.m. 150 The effect of competition for an automated supplement feeder on supplement intake behavior of stocker steers
Taylor C. Husz1, Carla Goad1, Ryan R. Reuter1
1Oklahoma State University

EXTENSION
Chair: Jason Smith
8:15 AM - 11:30 AM
Roberts

8:15 a.m. 3 Addressing Food Animal Veterinary Services Shortages Through Veterinary Continuing Education Courses: A New Role for Extension as a Bridge Between Veterinary and Agriculture Communities
Heidi M. Ward, University of Arkansas Cooperative Extension Service

8:30 a.m. 7 Assessment of beef cattle record keeping utilization and application: a collaboration of the Alabama Beef Cattle Improvement Association and the Alabama Cooperative Extension System
Michelle F. Elmore1, Mary K. Mullenix2, Joshua B. Elmore1
1Alabama Cooperative Extension System, 2Auburn University/Alabama Cooperative Extension System

8:45 a.m. 15 Climate Change and the Evolving Fulani Pastoralists Cattle Production System in Nigeria: A Need to Retool Extension and Innovation Services
AKINWUMI OMOTAYO1, Olga Bolden-Tiller1, Chukewume Okere1
1Tuskegee University

9:00 a.m. 29 Demonstrating the Effects of Deworming and Implanting Weaned Calves for Retained Ownership on Pasture in Eastern Oklahoma
Paul A. Beck1, Earl Ward1, Scott Clawson1, Brian Pugh1, Rodney Farris1
1Oklahoma State University

9:15 a.m. 73 Engaging youth through bovine reproductive practices
Nicholas W. Dias1, Alvaro Sales1, Claire L. Timlin1, Curtis Friedel2, Vitor RG Mercadante1
1Animal and Poultry Sciences, Virginia Tech, Blacksburg, VA, USA., 2Virginia Tech - Agricultural, Leadership, and Community Education

9:30 a.m. 116 Oklahoma State University Continuing Education Online Courses for Extension Educators in 2020
Alexi Moehlenpah1, David L. Lalman1
1Oklahoma State University

9:45 a.m. EXTENSION BREAK
10:00 a.m. 125 Possibility of Shifting Domestic Supply Curve for Lamb and Goat Meat: The Case of Market Price Information in the Southeast USA
Lila B. Karki 1, Uma Karki 1, Srinivasa R. Mentreddy 2
1Tuskegee University, 2Alabama A&M University

10:15 a.m. 131 Producer adoption of preconditioning strategies in the Oklahoma Quality Beef Network
Jeff Robe 1, Paul A. Beck 2, Dana Zook 2, Marty New 2, Earl Ward 2, Brian Freking 2
1Oklahoma Quality Beef Network/Oklahoma State University, 2Oklahoma State University

10:30 a.m. 135 Public perceptions of equine processing and welfare
Kelly Melvin 1, Liesel G. Schneider 1, Jennie L. Ivey 1, Peter D. Krawczel 1
1University of Tennessee Institute of Agriculture

10:45 a.m. 172 The Mississippi Beef Quality Assurance Program: Certification Demographics from 2015 to 2019
Alexandra M. Pittman 1, Brandi Karisch 1, Carla Huston 2
1Mississippi State University, 2Mississippi State University College of Veterinary Medicine

11:00 a.m. 174 The Southeast hay contest: 10-year summary
Sandra L. Dillard 1, Lisa Baxter 2, Marcelo Wallau 3, Deidre D. Harmon 4, Dennis W. Hancock 2
1Auburn University, 2University of Georgia, 3University of Florida, 4North Carolina State University

11:15 a.m. 187 Utilizing Working Groups to Provide Hands-On Learning Opportunities for Experienced Beef Cattle Producers.
Timothy P. Vining 1, Joshua L. Jacobs 1, Marty L. Marks 1, Gerald L. Thompson 1, Mary K. Mullenix 2
1Alabama Cooperative Extension System, 2Auburn University/Alabama Cooperative Extension System

NUTRITION
Chair: Lawton Stewart, University of Georgia
10:45 AM - 11:45 AM
Ballroom 1

10:45 a.m. 11 Carcass Attributes and Performance of Poultry (Gallus gallus domesticus) fed Olive Pomace
Benny J. Conn 1, Payton Snokhous 1, Ethan Carter 1, Phil Urso 2, Jerrad F. Legako 2, Stanley F. Kelley 1, Marcy M. Beverly 1, Mark Anderson 1
1Sam Houston State University, 2Texas Tech University
11:00 a.m. 81 Evaluation of feeding immunoglobulin-Y to Holstein feeder cattle for the control of liver abscesses & reduction of macrolide-resistant bacteria dissemination
Miranda K. Stotz 1
1Texas Tech University

11:15 a.m. 118 Palatability of Olive Pomace in Mozambique Tilapia (*Oreochromis mossambicus*)
Ethan Krasue 1, Benny J. Conn 1, Stanley F. Kelley 1, Marcy M. Beverly 1, Mark Anderson 1
1Sam Houston State University

11:30 a.m. 176 The Suitability of Autoclave and Pressure Cooker Washing Methods in Comparison to ANKOM200 to Determine Neutral Detergent Fiber Using Different Feedstuffs and Washing Solutions
Jordan Adams 1, Aaron B. Norris 1, Madeline E. Rivera 1, Luiz Fernando Dias Batista 1, Luis O. Tedeschi 1
1Texas A&M University