



2019 ASAS Southern Section Meeting

January 26-29, 2019 • Oklahoma City, Oklahoma

Sunday, January 27, 2019

SCC-81

Chair: Kwame Matthews, Delaware State University

8:25 AM - 5:00 PM

Plaza Ballroom South

8:25 a.m. **SCC-81 Welcome**

Kwame Matthews ¹

¹Delaware State University

8:30 a.m. 40 **Station Reports**

10:00 a.m. **SCC-81 Break**

10:15 a.m. 41 **Station Reports**

11:00 a.m. 42 **SCC-81 Business Meeting**

1:30 p.m. **SCC 81 - Mini Symposium: Implementing Small Ruminant Animal Care & Welfare**

Stephan Wildeus ¹

¹Virginia State University

1:30 p.m. **SCC-81 Introduction II**

1:45 p.m. 32 **IACUC programs at larger research institutions**

Scott A. Bowdridge ¹

¹West Virginia University

2:15 p.m. 33 **Animal care guidelines at ARS research stations**

Joan M. Burke ¹

¹USDA

2:45 p.m. **SCC-81 PM Break**

3:00 p.m. 34 **Animal care programs at small schools/satellite research stations**

Kwame Matthews ¹

¹Delaware State University

3:30 p.m. **SCC-81 Roundtable Discussion**

4:00 p.m. **Station reports**

SE ARPAS SYMPOSIUM

Chair: Daniel Rivera, Animal and Dairy Sciences Department Mississippi State University
9:45 AM - 12:15 PM
One Broadway Ballroom

9:45 a.m. **ARPAS INTRO**

9:50 a.m. 36 **Prewaning causes of morbidity and mortality**

David R. Smith ¹

¹Mississippi State University

10:35 a.m. **ARPAS BREAK**

10:45 a.m. 35 **Economic Considerations of Pre-Weaning Calf Health Management**

John M. Riley ¹, Courtney Hurt ¹, Derrell S. Peel ¹, Kellie C. Raper ¹

¹Oklahoma State University

11:30 a.m. 37 **Carry-over effects of health management through the production chain**

Daniel U. Thomson ¹

¹Kansas State University

SERA 041

Chair: Kim Mullenix, Auburn University
1:00 PM - 3:30 PM
One Broadway Ballroom

1:00 p.m. **SERA 041 INTRO**

1:05 p.m. 39 **Thoughts on the energetic efficiency of grazing cattle**

Stacey Gunter ¹, Corey A. Moffet ²

¹USDA-ARS, Southern Plains Range Research Station, ²USDA-ARS

1:05 p.m. 39 **Thoughts on the energetic efficiency of grazing cattle**

Stacey Gunter ¹, Corey A. Moffet ², Andrew P. Foote ³

¹USDA-ARS, Southern Plains Range Research Station, ²USDA-ARS, ³USDA-ARS U.S. Meat Animal Research Center

1:50 p.m. 43 **Improved Grazing System Productivity, Efficiency and Sustainability Through Novel Approaches**

James P.S. Neel ¹

¹USDA-ARS-PA-GRL

2:35 p.m. 38 **Enhancing production efficiency on southern beef farms with an interactive extension approach using forage management**

Matthew H. Poore ¹, Johnny R. Rogers ¹, Alan J. Franzluebbbers ²

¹North Carolina State University, ²USDA

GRADUATE STUDENT COMPETITION - MS

Chair: Nicole Burdick-Sanchez, USDA-ARS; Jose Diaz, University of Arkansas

3:00 PM - 4:25 PM

Century Ballroom 18th Century

3:00 p.m. 13 **Effects of bismuth subsalicylate and calcium-ammonium nitrate on in vitro fermentation of a high-concentrate substrate**

Sebastian E. Mejia-Turcios¹, Miranda K. Stotz¹, Andrea M. Osorio-Doblado², Philip M. Urso¹, Thomas G. Jennings¹, Nadira Espinoza¹, Lucas B. Kondratovich¹, Luis F. Carvalho¹, Michael D. Sandes¹, Jhones O. Sarturi¹, Nicolas DiLorenzo³, Whitney L. Crossland¹, Darren D. Henry¹

¹Texas Tech University, ²University of Georgia, ³Department of Animal Sciences, North Florida Research and Education Center (NFREC), University of Florida, Marianna, FL

3:05 p.m. 10 **Finishing beef cattle under cover reduces heat load and improves efficiency during the summer**

William M. Sims¹, Robert Lawton Stewart¹, Jacob Segers¹, Robert W. McKee¹, Macc Rigdon², Chevis L. Thomas², Alexander M. Stelzleni³

¹University of Georgia, ²Department of Animal and Dairy Science, University of Georgia, ³University of Georgia, Animal and Dairy Science

3:10 p.m. 17 **The Effects of a Yeast Fermentation Product on the Average Daily Gain and Digestibility on a Rye Grass Hay Based Finishing Diet for Lambs**

Justin C. Burt¹, Jamie A. Boyd¹, Ivan Garcia², Rebecca K. Splan³, Brittany S. Perron¹

¹Sul Ross State University, ²Autonomous University of Chihuahua, ³Delaware Valley University

3:15 p.m. 6 **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

3:20 p.m. 9 **Reduce Reuse ReRumen: Variability in Nutritive Value of Paunch Manure**

Taylor J. Garcia¹, Jeff A. Brady², Kimberly A. Guay³, James P. Muir⁴, William B. Smith¹

¹Tarleton State University, ²Texas A&M AgriLife Research, ³Department of Animal Science, Tarleton State University, ⁴TAMU

3:25 p.m. 11 **Impact of weaning strategy on calf performance, behavior, and activity**

Grace C. Ott¹, Sharon R. Freeman², Matthew H. Poore², Carrie L. Pickworth²

¹North Carolina State University, Department of Animal Science, ²North Carolina State University

3:30 p.m. 4 **Impact of potassium application and harvest regime in alfalfa yield, forage quality and stand persistence in South Georgia.**

Britta Thinguldstad¹, Jennifer J. J. Tucker², Lisa Baxter², Jacob Segers²

¹The University of Georgia, ²University of Georgia

3:35 p.m. 16 **DIGESTAWELL® FIBER IMPROVES *IN-VITRO* DIGESTIBILITY OF ALFALFA AND COASTAL BERMUDAGRASS HAY FED TO HORSES**

Brittany S. Perron¹, Ashley L. Wagner², Jamie A. Boyd¹, Ivan, D. Girard², Noheli Guitierrez¹, Justin C. Burt¹, Rebecca K. Splan³

¹Sul Ross State University, ²Probiotech International Inc., ³Delaware Valley University

3:40 p.m. 8 **Environment enrichment reduces aggression and stereotypic behaviors in feedlot steers**

Rachel M. Park¹, Rachel Bova², Jenny S. Jennings³, Courtney L. Daigle⁴

¹Texas A&M University, ²West Texas A&M University, ³Texas A&M AgriLife Research,

⁴Department of Animal Science, Texas A&M University

3:45 p.m. 7 **Supplementing an immunomodulatory feed ingredient to modulate thermoregulation and performance in finishing beef cattle under heat stress conditions**

Eduardo Colombo¹, Reinaldo F. Cooke¹, Kelsey Schubach¹, Bruna Rett¹, Alice P. Brandão¹

¹Texas A&M University

3:50 p.m. 2 **Vegetation Characteristics and Diurnal Periods Influenced the Landscape-Use Pattern of Goats and Sheep in Woodlands**

Shailes Bhattra¹, Uma Karki¹, Sanjok Poudel¹

¹Tuskegee University

3:55 p.m. 3 **Administration of a DNA immunostimulant does not mitigate bovine herpesvirus-1 recrudescence in dexamethasone challenged beef cattle.**

Hannah A. Seiver¹, Kendall L. Samuelson¹, Richard D. Posey², Dexter J. Tomczak¹, Taylor M. Smock¹, John T. Richeson¹

¹West Texas A&M University, ²Texas A&M University

4:00 p.m. 5 **Nutritive Value and Fermentation Characteristics of Cool-Season Annual Baleage**

Sarah L. Shoup¹, Leanne L. Dillard¹, Kim K. Mullenix¹, Russell B. Muntifering¹

¹Auburn University

4:05 p.m. 14 **Effect of fermentation temperature on in vitro digestibility of a finishing diet**

Miranda K. Stotz¹, Sebastian E. Mejia-Turcios¹, Andrea M. Osorio-Doblado², Nadira Espinoza¹, Philip M. Urso¹, Lucas B. Kondratovich¹, Luis Carvalho¹, Micheal Douglas¹, Jhones O. Sarturi¹, Darren D. Henry¹, Whitney L. Crossland¹

¹Texas Tech University, ²University of Georgia

4:10 p.m. 12 **Animal Acceptability Trail of Olive Pomace on Gallus gallus domesticus**

Payton Snokhous¹, Stanley F. Kelley¹, Marcy M. Beverly¹, Mark Anderson¹

¹Sam Houston State University

4:15 p.m. 15 **Future-proofing the feedyard workforce: Survey of Texas beef cattle stockpeople indicates positive attitudes towards animals and the workplace while highlighting opportunities for improvement**

Emily E. Ridge¹, Ron Gill², Courtney L. Daigle³

¹Texas A&M University, ²Texas A&M University, Texas A&M AgriLife Extension, ³Department of Animal Science, Texas A&M University

4:20 p.m. 1 **The effect of breeding system on voluntary forage consumption of beef cows**

Claire Anderson¹, Amanda Holder², Megan A. Gross¹, Aksel Wiseman³, Adam McGee¹, Paul A. Beck¹

¹Oklahoma State University, ²College of the Ozarks, ³University of Nebraska-Lincoln

UNDERGRADUATE STUDENT COMPETITION

Chair: Nathan Long, Clemson University;
John Rehm, Department of Animal Sciences, Auburn University
4:30 PM - 5:40 PM
Century Ballroom 20th Century

4:30 p.m. UNDERGRADUATE STUDENT COMPETITION INTRODUCTION

4:35 p.m. 56 **The efficacy of extended-release eprinomectin for the reduction of horn flies, face flies, and fecal egg counts of parasitic nematodes in replacement beef heifers**
Sophia F. Landers¹, Chris Tucker¹, Jeremy G. Powell², Eva M. Wray¹, Reagan N. Cauble¹,
Toby D. Lester¹

¹University of Arkansas, ²University of Arkansas System Division of Agriculture

4:40 p.m. 54 **Digestibility of Forages in Ruminally Cannulated Jersey Steers Supplemented with Liquid Glycerol on a Wheat Straw Forage Diet**

Itzel A. Soto¹, Jamie A. Boyd¹

¹Sul Ross State University

4:45 p.m. 55 **The influence of kudzu (*Pueraria montana* var. *lobata*) age on *in situ* rumen degradation**

Joseph Gulizia¹, Kevin M. Downs¹, S. Cui¹

¹Middle Tennessee State University

4:50 p.m. 51 **Effects of Two Different Hatcher Basket Wash Systems on Microbial Counts**

Abigail Sanders¹, William C. Hoefler¹, Malcolm Rainey¹

¹Arkansas Tech University

4:55 p.m. 46 **Species-specificity in metmyoglobin reduction**

Emily Bechtold¹, Surendranath Suman², Smita Mohanty¹, Suman Mazumder¹, Sadagopan Krishnan¹, Raja Nerimetla¹

¹Oklahoma State University, ²Department of Animal and Food Sciences, University of Kentucky

5:00 p.m. 44 **Comparison of physiological responses to exercise in horses on a conditioning regimen versus inactive horses receiving a yucca and fenugreek dietary supplement**

Rachel Miller¹, Jessica Suagee-Bedore¹, Kelsey Thompson¹, Lynsey McFarland¹, Timber Thomson¹, Kyle Stutts¹, Mark Anderson¹, Ashley Wagner², Ivan, D. Girard³

¹Sam Houston State University, ²Probiotech International, Inc., ³Probiotech International Inc.

5:05 p.m. 48 **Impact of Weaning Strategy on Beef Cow Performance**

Mary Clarke Worthington¹, Grace C. Ott², Matthew H. Poore¹, Carrie L. Pickworth¹

¹North Carolina State University, ²North Carolina State University, Department of Animal Science

5:10 p.m. 49 **Effects of Different Stages of Processing Newly Hatched Chicks on Body Temperature**

Tiffany Timbrook¹, William C. Hoefler², Malcolm Rainey²

¹Arkansas Tech University, ²Arkansas Tech University

5:15 p.m. 53 **Comparison of Digestibility of Forages in Jersey Steers Supplemented with a Yeast Fermentation Product on a High and Low Quality Forage Diet**

Anissa R. Garcia ¹, Jamie A. Boyd ¹, Rebecca K. Splan ²

¹Sul Ross State University, ²Delaware Valley University

5:20 p.m. 52 **Timing of Progesterone Exposure Effects Pregnancy Rates following Fixed Time Artificial Insemination in Postpartum Beef Cows**

Anna L. Smith ¹, Rebecca K. Poole ², Kyle Mayberry ², McKayla A. Newsome ¹, Harrison B. Dudley ³, Daniel H. Poole ²

¹NC STATE UNIVERSITY, ²North Carolina State University, ³Department of Population Health and Pathobiology

5:25 p.m. 45 **Relationships among circulating prolactin concentrations, hair coat score, and weights of grazing cows.**

Erin Davis ¹, Reagan N. Cauble ¹, Jeremy G. Powell ², Toby D. Lester ¹, Walker Gragg ³, B R. Kutz ¹, Charles Rosenkrans ⁴

¹University of Arkansas, ²University of Arkansas System Division of Agriculture, ³The University of Arkansas, ⁴University of Arkansas System

5:30 p.m. 47 **Interaction of dietary protein and endophyte-infected Tall Fescue seed in stocker steers on finishing phase performance and carcass traits.**

Matthew E. Davis ¹, Rebecca K. Poole ², Matthew H. Poore ², Daniel H. Poole ², Carrie L. Pickworth ²

¹NC STATE UNIVERSITY, ²North Carolina State University

5:35 p.m. 50 **Effects of post-weaning supplementation of immunomodulatory feed ingredient on body weight and cortisol levels in programmed fed beef heifers**

Jessica L. Daniello ¹, Jessie Tipton ¹, Ralph Ricks ¹, Keelee J. McCarty ¹, Nathan Long ¹

¹Clemson University

GRADUATE STUDENT COMPETITION - PHD

Chair: Nicole Burdick-Sanchez, USDA-ARS; Jose Diaz, University of Arkansas

4:35 PM - 5:45 PM

Century Ballroom 18th Century

4:35 p.m. 23 **Timing of concentrate supplementation during late gestation impacts calf pre-weaning growth, but not reproductive performance of *Bos indicus*-influenced cows**

Elizabeth A. Palmer ¹, Marcelo Vedovatto ², Juliana Ranches ³, Miguel Miranda ⁴, Vinícius Gouvêa ⁵, John Arthington ⁶, Joao Vendramini ⁴, Philippe Moriel ⁴

¹University of Florida - Range Cattle Research & Education Center, ²Faculdade de Medicina Veterinária e Zootecnia, Universidade Federal de Mato Grosso do Sul, ³UF/IFAS - Range Cattle Research & Education Center, ⁴University of Florida, ⁵IFAS - Range Cattle Research and Education Center, University of Florida, ⁶Department of Animal Sciences - University of Florida

4:40 p.m. 22 **Puberty induction protocol, but not supplement amount, overcomes the negative impacts of reduced frequency of supplementation on reproduction of beef heifers.**

Juliana Ranches ¹, Marcelo Vedovatto ², Elizabeth A. Palmer ³, Miguel Miranda ⁴, John Arthington ⁵, Joao Vendramini ⁴, Philippe Moriel ⁴

¹UF/IFAS - Range Cattle Research & Education Center, ²Faculdade de Medicina Veterinária e Zootecnia, Universidade Federal de Mato Grosso do Sul, ³University of Florida - Range Cattle Research & Education Center, ⁴University of Florida, ⁵Department of Animal Sciences - University of Florida

4:45 p.m. 20 **Polyclonal antibody preparations from avian origin improves growth performance of beef cattle during the first fourteen days of the backgrounding phase**

Gleise Medeiros da Silva ¹, Federico Podversich ², Tessa M. Schulmeister ², Ana C. G. Luna ³, Gonzalo Barreneche ⁴, Nicolas DiLorenzo ⁵

¹ASAS, ²University of Florida, ³University of Florida - North Florida Research and Education Center, ⁴University of Florida, NFREC, ⁵Department of Animal Sciences, North Florida Research and Education Center (NFREC), University of Florida, Marianna, FL

4:50 p.m. 19 **Safety in numbers: Social isolation increases behavioral responses of cattle during startle tests**

Amanda Mathias ¹, Courtney L. Daigle ²

¹Texas A&M University, ²Department of Animal Science, Texas A&M University

4:55 p.m. 26 **Effects of experimentally-induced hypoxemia on hemodynamics and blood gases, and the performance of pulse oximeters in cattle**

Lauren R. Fontenot ¹, Gordon E. Carstens ¹, Mauricio Lepiz ¹, Kevin Washburn ², Joanne Hardy ²

¹Texas A&M University, ²TAMU

5:00 p.m. 27 **A retrospective analysis of bull:cow ratio effects on pregnancy rates of beef cows previously enrolled in fixed-time artificial insemination protocols**

Claire L. Timlin ¹, Laura Hungerford ², Tracey Redifer ³, John Currin ³, Vitor R.G R. G. Mercadante ³

¹Animal and Poultry Sciences, Virginia Tech, ²Virginia-Maryland College of Veterinary Medicine, ³Virginia Tech

5:05 p.m. 29 **The Effect of Fleshing Ability on Cow and Calf Performance**

Amanda Holder ¹, Aksel Wiseman ², Adam McGee ², Paul A. Beck ², Claire Anderson ²

¹College of the Ozarks, ²Oklahoma State University

5:10 p.m. 30 **Genotypic effects of a Dopamine receptor type-2 SNP on growth and semen quality in beef bulls exposed to a dopamine agonist**

Andrea N. DeCarlo ¹, Kaysie Jennings ², Nathan Clemson University Long ¹, Callie Burnett ¹, Nathan Long ¹, William Bridges ¹, Cheryl Kojima ²

¹Clemson University, ²University of Tennessee

5:15 p.m. 24 **Renovating toxic-infected tall fescue pastures for profitability, animal performance, and soil health.**

Sam Ingram ¹, Matthew H. Poore ², Daniel H. Poole ²

¹NC STATE UNIVERSITY, ²North Carolina State University

5:20 p.m. 18 **Weaning weight trends in the U.S. beef cattle industry**

Paul A. Beck ¹, Claire Anderson ¹, Carla Goad ¹, Lisa Kriese-Anderson ², Mike E. King ³, Mike E. King ³

¹Oklahoma State University, ²Auburn University, ³Kansas State University

5:25 p.m. 31 **Characterization of feeding-behavior patterns and application of chemometrics to predict residual feed intake based on feeding-behavior traits in growing Holstein heifers**

Jocelyn R. Johnson ¹, Ira Parsons ¹, Gordon E. Carstens ¹, Luis O. Tedeschi ¹, Claas Heuer ², Nader Deeb ³

¹Texas A&M University, ²STgenetics, ³ST Genetics

5:30 p.m. 28 **Three Year Evaluation of Yield and Nutritive Value of Tifton-85 Bermudagrass and Tifton-85 Bermudagrass-Alfalfa Mixtures Produced as Baleage in the Southeast.**

Taylor J. Hendricks ¹, Jennifer J. J. Tucker ¹, Dennis W. Hancock ¹, Robert Lawton Stewart ¹, Jacob Segers ¹

¹University of Georgia

5:35 p.m. 21 **Performance of growing beef cattle consuming bahiagrass hay treated with calcium oxide and molasses and supplemented with cottonseed meal**

Francine M. Ciriaco ¹, Darren D. Henry ², Luara B. Canal ¹, Carla D. Sanford ³, Gonzalo Barreneche ³, Ana C. G. Luna ¹, Jose C. B. Dubeux ⁴, Nicolas DiLorenzo ⁵

¹University of Florida - North Florida Research and Education Center, ²Texas Tech University,

³University of Florida, NFREC, ⁴University of Florida, ⁵Department of Animal Sciences, North Florida Research and Education Center (NFREC), University of Florida, Marianna, FL

5:40 p.m. 25 **Effects of post-weaning supplementation of immunomodulatory feed ingredient on cortisol concentrations and microbial populations in programmed fed beef heifers**

Keelee J. McCarty ¹, Jessie Tipton ¹, Ralph Ricks ¹, Jessica L. Danielo ¹, Jesse Thompson ², Nathan Long ¹

¹Clemson University, ²Church & Dwight, Inc.

Southern Board Meeting I

6:00 PM - 8:00 PM

Kiamichi

Monday, January 28, 2019

TEACHING AND UNDERGRADUATE EDUCATION

Chair: Nathan Long, Clemson University; Amanda Mathias, Texas A&M University

8:00 AM - 8:45 AM

Plaza Ballroom South

8:00 a.m. 136 **Reflections on the Foundational Scientific Knowledge of Undergraduate Animal Science Students: a Three-Year Study**

Lauren R. Rogers¹, Jeremy G. Powell², Beth B. Kegley³, Kathleen Jogan¹

¹University of Arkansas, Department of Animal Science, ²University of Arkansas System Division of Agriculture, ³University of Arkansas Division of Agriculture

8:15 a.m. 135 **Developing foundational courses to support undergraduate student success in animal science departmental core curriculum**

Kathrin Dunlap¹, Lonisa Early¹, Debra Fowler¹, Tryon A. Wickersham¹

¹Texas A&M University

8:30 a.m. 137 **Impact of Career Development Events on Motivation to Major in Animal Science**

Steven Chumbley¹, Mark R. Russell², Sarah Garza¹

¹Texas A&M Kingsville, ²University of Arkansas - Division of Agriculture

NONRUMINANT

Chair: William Smith, Tarleton State University; Amy Thompson, Tarleton State University

8:00 AM - 10:30 AM

Green Country

8:00 a.m. 90 **Evaluation of transport duration on immune response and blood parameters in sedentary horses.**

Amy R. Thompson¹, Trinette N. Jones², Kimberly A. Guay², Jessica L. Leatherwood³

¹Tarleton State University, ²Department of Animal Science, Tarleton State University, ³Texas A&M University

8:15 a.m. 93 **Comparison of physiological responses to exercise in horses on a conditioning regimen versus inactive horses receiving a yucca and fenugreek dietary supplement**

Rachel Miller¹, Jessica Suagee-Bedore¹, Kelsey Thompson¹, Lynsey McFarland¹, Timber Thomson¹, Kyle Stutts¹, Mark Anderson¹, Ashley Wagner², Ivan, D. Girard³

¹Sam Houston State University, ²Probiotech International, Inc., ³Probiotech International Inc.

8:30 a.m. 89 **Effects of Different Stages of Processing Newly Hatched Chicks on Body Temperature**

Tiffany Timbrook¹, William C. Hoefler², Malcolm Rainey²

¹Arkansas Tech University, ²Arkansas Tech University

8:45 a.m. 86 **Skeletal response to whole body vibration and dietary calcium and phosphorus in growing pigs**

Chelsie Huseman¹, Thomas H. Welsh², Dennis Sigler³, Larry Suva⁴, Brandon Dominguez⁵, Chad B. Paulk⁶, Martha Vogelsang¹

¹Texas A&M University, ²Department of Animal Science, Texas A&M University, and Texas A&M AgriLife Research, ³Department of Animal Science, Texas A&M University, ⁴Department of Veterinary Physiology & Pharmacology, Texas A&M University, ⁵Texas A&M Large Animal Hospital, ⁶Kansas State University

9:00 a.m. 85 **Impact of Teat Order on Feed Consumption in Swine from Birth to Nursery**

Callan A. Lichtenwalter¹, Jason Apple², Beth B. Kegley², Tsungcheng Cheng Tsai³, Elizabeth A. Palmer⁴, Josh K. Knapp⁵, Doug L. Galloway⁶

¹University of Arkansas, Division of Agriculture, Department of Animal Science, ²University of Arkansas Division of Agriculture, ³University of Arkansas, ⁴University of Florida - Range Cattle Research & Education Center, ⁵University of Nebraska -Lincoln, ⁶University of Arkansas System Division of Agriculture

9:15 a.m. 87 **Effect of Calcium Supplementation on Gestation and Farrowing Characteristics of Sows**

Flint W. Harrelson¹, Audrey Emery¹, Courtney Moore¹, Dillon Siefert¹, Patricia L. Harrelson¹
¹Morehead State University

9:30 a.m. **NONRUMINANT BREAK**

9:45 a.m. 92 **DIGESTAWELL® FIBER IMPROVES *IN-VITRO* DIGESTIBILITY OF ALFALFA AND COASTAL BERMUDAGRASS HAY FED TO HORSES**

Brittany S. Perron¹, Ashley L. Wagner², Jamie A. Boyd¹, Ivan, D. Girard², Noheli Guitierrez¹, Justin C. Burt¹, Rebecca K. Splan³

¹Sul Ross State University, ²Probiotech International Inc., ³Delaware Valley University

10:00 a.m. 88 **Effects of Two Different Hatcher Basket Wash Systems on Microbial Counts**

Abigail Sanders¹, William C. Hoefler¹, Malcolm Rainey¹
¹Arkansas Tech University

10:15 a.m. 91 **Animal Acceptability Trial of Olive Pomace on *Gallus gallus domesticus***

Payton Snokhous¹, Stanley F. Kelley¹, Marcy M. Beverly¹, Mark Anderson¹
¹Sam Houston State University

Kunkle Symposium: Movement of Stocker Cattle from the Southeast to the Southern Great Plains – Health and Management Implications

Sponsored by Noble Research Institute

Chair: Ryon Walker, Texas A&M University; Shannon Wilkerson, Auburn University

8:00 AM - 11:30 AM

Century Ballroom 18th Century

8:00 a.m. **KUNKLE INTRO**

8:05 a.m. 75 **Historical View of Stocker Health and Performance of Southeast Origin Cattle**

Jeffery A. Carroll¹, Paul R. Broadway², Nicole C. Burdick-Sanchez², Wade T. Nichols³
¹USDA-ARS, Livestock Issues Research Unit, ²USDA-ARS, ³Merck Animal Health

8:50 a.m. 76 **Shipping calves to the Southern Great Plains: Impact of mode, timing, distance and cattle type**

Dee Griffin¹
¹West Texas A&M University

9:35 a.m. **KUNKLE BREAK**

9:45 a.m. 73 **Managing Health during the Receiving Period**

John T. Richeson¹
¹West Texas A&M University

10:30 a.m. 74 **Stocker Management and Impacts on Health and Subsequent Feedlot Performance**

PAUL A. BECK¹, Gerald Horn², Beth B. Kegley³, Jeremy G. Powell⁴, Daniel Rivera⁵
¹Oklahoma State University, Department of Animal & Food Sciences, ²Department of Animal and Food Sciences Oklahoma State University, ³University of Arkansas Division of Agriculture, ⁴University of Arkansas System Division of Agriculture, ⁵Animal and Dairy Sciences Department Mississippi State University

MEATS

Chair: Ranjith Ramanathan, Oklahoma State University; Daniel Tigue, Auburn University
9:00 AM - 11:15 AM
Plaza Ballroom South

9:00 a.m. 77 **Improving lean muscle color of atypical dark-cutting beef by antioxidant-enhancement and modified atmospheric packaging**

Andrew M. Cassens¹, Gretchen G. Mafi¹, Deb VanOverbeke¹, Ranjith Ramanathan¹
¹Oklahoma State University

9:15 a.m. 78 **Effects of extended aging, modified atmospheric packaging, and display time on metmyoglobin reducing activity and oxygen consumption of high-pH beef**

Ranjith Ramanathan¹, Andrea English¹, Gretchen G. Mafi¹, Deb VanOverbeke¹
¹Oklahoma State University

9:30 a.m. 79 **Cooking method and beef flavor: a multivariate approach**

Kelly R. Vierck¹, Jerrad F. Legako², Chance Brooks¹
¹Texas Tech University, ²Texas Tech University, Department of Animal and Food Sciences

9:45 a.m. 80 **EFFECTIVENESS OF NATURALLY SOURCED MIXED TOCOPHEROLS AS AN ANTIOXIDANT WHEN COMPARED TO BHA AND BHT IN FRESH PORK SAUSAGE**

Leila G. Venzor¹, William B. Smith¹, Jolena N. Waddell¹, Lea Ann A. Kinman¹
¹Tarleton State University

10:00 a.m. 82 **Electrical conductivity and cooking loss of beef loins and ground beef**

Carl Richardson¹, Sarah Martinez¹

¹Texas State University

10:15 a.m. 81 **Species-specificity in metmyoglobin reduction**

Emily Bechtold ¹, Surendranath Suman ², Smita Mohanty ¹, Suman Mazumder ¹, Sadagopan Krishnan ¹, Raja Nerimetla ¹

¹Oklahoma State University, ²Department of Animal and Food Sciences, University of Kentucky

10:30 a.m. 83 **Tenderness and cooking loss of beef loins**

Robin G. Coombs ¹, Carl Richardson ¹

¹Texas State University

10:45 a.m. 84 **Cooking loss of ground beef**

Robin G. Coombs ¹, Carl Richardson ¹

¹Texas State University

ASAS Public Policy Update

Chair: Lowell Randel, RandellGroup

11:30 AM - 11:50 AM

Plaza Ballroom South

11:30 a.m. **ASAS Public Policy Update**

BREEDING AND GENETICS

Chair: Trent Smith, Mississippi State University; Payton Snokhous, Sam Houston State University

1:00 PM - 1:45 PM

Century Ballroom 20th Century

1:00 p.m. 58 **A retrospective analysis of bull:cow ratio effects on pregnancy rates of beef cows previously enrolled in fixed-time artificial insemination protocols**

Claire L. Timlin ¹, Laura Hungerford ², Tracey Redifer ³, John Currin ³, Vitor R.G R. G. Mercadante ³

¹Animal and Poultry Sciences, Virginia Tech, ²Virginia-Maryland College of Veterinary Medicine, ³Virginia Tech

1:15 p.m. 59 **Genotypic effects of a Dopamine receptor type-2 SNP on growth and semen quality in beef bulls exposed to a dopamine agonist**

Andrea N. DeCarlo ¹, Kaysie Jennings ², Nathan Clemson University Long ¹, Callie Burnett ¹, Nathan Long ¹, William Bridges ¹, Cheryl Kojima ²

¹Clemson University, ²University of Tennessee

1:30 p.m. 57 **Impact of Weaning Strategy on Beef Cow Performance**

Mary Clarke Worthington ¹, Grace C. Ott ², Matthew H. Poore ¹, Carrie L. Pickworth ¹

¹North Carolina State University, ²North Carolina State University, Department of Animal Science

SMALL RUMINANT PRODUCTION I

Chair: Olga Bolden-Tiller, Tuskegee

1:00 PM - 3:15 PM

Green Country

1:00 p.m. 132 **Effects of high-energy diet on viscera and progeny carcass yield in sheep**

Sarita B. Gallo¹, Sophia Honigmann¹, Luciano Brochine¹, Giuliana Micai de Oliveira¹, Luis O. Tedeschi²

¹University of Sao Paulo, ²Texas A&M University

1:15 p.m. 131 **Milk yield of ewes fed with diets of different energy levels**

Sarita B. Gallo¹, Vanderlei Benetel Junior¹, Fernanda F. Santos¹, Mariluce C. Oliveira¹, Luis O. Tedeschi²

¹University of Sao Paulo, ²Texas A&M University

1:30 p.m. 130 **Growth and carcass characteristics of short-scrotum, ram, and wether lambs**

Susan Schoenian¹, Jeffery W. Semler², Gordon David², Dahlia O'Brien³, Mary Beth Bennett⁴, Chris Anderson¹

¹University of Maryland, ²University of Maryland Extension, ³Virginia State University, ⁴West Virginia University

1:45 p.m. 133 **Effect of terminal sire breed on grazing performance, parasitism and market grade of crossbred lambs.**

Scott L. Bowdridge¹, Andrew R. Weaver¹, Reese H. Tuckwiller¹, Roger T. Rohrbaugh¹, Javier Garza¹, Domingo Mata-Padrino¹, Scott P. Greiner², Scott A. Bowdridge¹

¹West Virginia University, ²Virginia Tech

2:00 p.m. **SMALL RUMINANT PRODUCTION I BREAK**

2:15 p.m. 129 **Evaluation of the effect of Bedoukian compound X administered twice on gastrointestinal nematode infection in sheep**

Jim E. Miller¹, Joan M. Burke²

¹Louisiana State University, ²USDA

2:30 p.m. 134 **Vegetation Characteristics and Diurnal Periods Influenced the Landscape-Use Pattern of Goats and Sheep in Woodlands**

Shailes Bhattraï¹, Uma Karki¹, Sanjok Poudel¹

¹Tuskegee University

2:45 p.m. 127 **Effects of Reed Sedge Peat on stress and digestibility of lambs at weaning.**

Rhianwedd O. Price¹, Brian Rude¹, Angela R. Boyer¹, Nicole G. Zimmerman¹

¹Mississippi State University

3:00 p.m. 128 **Relationship between anti-Mullerian hormone (AMH) and reproductive traits in ewes**

Mohan Acharya¹, Berlin Howell², Joan M. Burke³, Rick W. Rorie⁴

¹Department of Animal Science, University of Arkansas, ²University of Arkansas, Fayetteville, AR USA, ³USDA, ⁴University of Arkansas

EXTENSION I

Chair: Kim Mullenix, Auburn University; Katie Mason, University of Tennessee
1:00 PM - 4:15 PM
Plaza Ballroom South

1:00 p.m. 63 **Development and Application of a Veterinary Survey to Assess Food Animal Veterinarian Shortages: A Collaboration Between the University of Arkansas Cooperative Extension Service and the Arkansas Veterinary Board**

Heidi M. Ward ¹

¹University of Arkansas Cooperative Extension Service

1:15 p.m. 65 **On-farm demonstrations improve producer understanding of using metsulfuron for tall fescue seedhead suppression.**

Johnny R. Rogers ¹, Matthew H. Poore ¹, Sam Ingram ², Deidre D. Harmon ¹

¹North Carolina State University, ²NC STATE UNIVERSITY

1:30 p.m. 66 **Future-proofing the feedyard workforce: Survey of Texas beef cattle stockpeople indicates positive attitudes towards animals and the workplace while highlighting opportunities for improvement**

Emily E. Ridge ¹, Ron Gill ², Courtney L. Daigle ³

¹Texas A&M University, ²Texas A&M University, Texas A&M AgriLife Extension, ³Department of Animal Science, Texas A&M University

1:45 p.m. 61 **2018 Southern Section Extension Forum: Collaborating to meet the needs of clientele**

Robert Lawton Stewart ¹, Kim K. Mullenix ², Matt Hersom ³, Jason K. Smith ⁴, Philippe Moriel ³, Justin D. Rhinehart ⁵

¹University of Georgia, ²Auburn University, ³University of Florida, ⁴University of Tennessee, ⁵University of Tennessee Institute of Agriculture

2:00 p.m. 68 **Arkansas Beef Industry Assessment: Educator Results**

Chelsey A. Kimbrough ¹, Shane Gadberry ², Julie Robinson ², Michael L. Looper ³, Mark R. Russell ⁴, John A. Jennings ⁵, PAUL A. BECK ⁶, Heidi M. Ward ¹

¹University of Arkansas Cooperative Extension Service, ²University of Arkansas, ³University of Arkansas System Division of Agriculture, Department of Animal Science Fayetteville, AR, ⁴University of Arkansas - Division of Agriculture, ⁵University of Arkansas System Division of Agriculture, Department of Animal Science, Little Rock, AR, ⁶Oklahoma State University, Department of Animal & Food Sciences

2:15 p.m. 60 **Arkansas Beef Industry Assessment: Producer Results**

Shane Gadberry ¹, Julie Robinson ¹, Michael L. Looper ², Chelsey A. Kimbrough ³, John A. Jennings ⁴, PAUL A. BECK ⁵, Mark R. Russell ⁶, Heidi M. Ward ³

¹University of Arkansas, ²University of Arkansas System Division of Agriculture, Department of Animal Science Fayetteville, AR, ³University of Arkansas Cooperative Extension Service, ⁴University of Arkansas System Division of Agriculture, Department of Animal Science, Little Rock, AR, ⁵Oklahoma State University, Department of Animal & Food Sciences, ⁶University of Arkansas - Division of Agriculture

2:30 p.m. 64 **Use of a cattle artificial insemination school as extension programming in the Southeast, United States**

Landon Marks ¹, Brandi B. Karisch ², Cobie Rutherford ², Jane A. Parish ³

¹Alabama Cooperative Extension, ²Mississippi State University, ³North Mississippi Research and Extension Center, Mississippi State University

2:45 p.m. **EXTENSION I BREAK**

3:00 p.m. 70 **Integrity Beef Alliance I. Program Overview**

Robert S. Wells ¹

¹Noble Research Institute

3:15 p.m. 71 **Integrity Beef Alliance: II. Production and Financial Data Analysis**

Robert S. Wells ¹, Jason Bradley ¹

¹Noble Research Institute

3:30 p.m. 62 **Program Evaluation of the Georgia Young Cattlemen's Short Course**

Jacob Segers ¹, Sarah E. Loughridge ¹, Emelia D. Jackson ¹

¹University of Georgia

3:45 p.m. 69 **Arkansas Beef Producers Age Impact on Educational Method Preference**

Julie Robinson ¹, Shane Gadberry ¹, Michael L. Looper ², Chelsey A. Kimbrough ³, John A. Jennings ⁴, PAUL A. BECK ⁵, Mark R. Russell ⁶, Heidi M. Ward ³

¹University of Arkansas, ²University of Arkansas System Division of Agriculture, Department of Animal Science Fayetteville, AR, ³University of Arkansas Cooperative Extension Service,

⁴University of Arkansas System Division of Agriculture, Department of Animal Science, Little

Rock, AR, ⁵Oklahoma State University, Department of Animal & Food Sciences, ⁶University of Arkansas - Division of Agriculture

4:00 p.m. 67 **2018 Alfalfa in the South Workshop Series: A Review of Regional Extension Efforts**

Taylor J. Hendricks ¹, Jennifer J. J. Tucker ¹, Kim K. Mullenix ², Katie Mason ³, Dennis W. Hancock ¹, Ali Missaoui ⁴, Joe Bouton ⁴

¹University of Georgia, ²Auburn University, ³University of Tennessee, ⁴Department of Crop and Soil Science, University of Georgia

RUMINANT ANIMAL PRODUCTION I: HEALTH WELL-BEING

Chair: Robby Bondurant, Westway Feed; Autumn Pickett, University of Arkansas

1:00 PM - 4:15 PM

Plaza Ballroom North

1:00 p.m. 116 **Polyclonal antibody preparations from avian origin improves growth performance of beef cattle during the first fourteen days of the backgrounding phase**

Gleise Medeiros da Silva ¹, Federico Podversich ², Tessa M. Schulmeister ², Ana C. G. Luna ³, Gonzalo Barreneche ⁴, Nicolas DiLorenzo ⁵

¹ASAS, ²University of Florida, ³University of Florida - North Florida Research and Education Center, ⁴University of Florida, NFREC, ⁵Department of Animal Sciences, North Florida

Research and Education Center (NFREC), University of Florida, Marianna, FL

1:15 p.m. 117 **Effects of feeding a *Bacillus Subtilis* active microbial on the clinical health, performance and carcass characteristics of feedlot steers**

Blake K. Wilson ¹, Will Ryan ¹, Elizabeth DeSocio ¹, Caleb Lockard ¹, Jerilyn Hergenreder ²
¹Oklahoma State University, ²Kemin Industries Inc.

1:30 p.m. 118 **Administering a synthetic appeasing pheromone to *Bos indicus*-influenced beef cattle at weaning and feedlot entry**

Alice P. Brandão ¹, Reinaldo F. Cooke ¹, Kelsey Schubach ¹, Thiago Schumacher ², Osvaldo Sousa ¹, Thais Castro ³, Bruno I. Cappelozza ³
¹Texas A&M University, ²São Paulo State University (UNESP), ³Nutricorp

1:45 p.m. 123 **Effect of a Hydrolyzed Yeast Product on Cow Behavior, Body Weight, Body Condition Score, and Hair Coat Score in Cows Grazing Pastures Containing Endophyte-Infected Tall Fescue**

Patricia L. Harrelson ¹, C. Brent Rogers ¹, Rick Martin ², Johnna Scott ¹, Brandi Banks ¹, Taelor McMillin ¹, Emory Sellinger ¹, Flint W. Harrelson ¹
¹Morehead State University, ²Gro-Tec Inc.

2:00 p.m. 125 **Tick burden observed on cattle and sheep during winter season on the Edwards Plateau of Texas**

Samantha R. Hays ¹, Pete D. Teel ¹, Heath D. Starns ², Nick E. Garza ³, Robert Moen ¹, Doug R. Tolleson ⁴
¹Texas A&M AgriLife Research, ²Texas A&M AgriLife, ³Texas A&M AgriLife, Sonora, ⁴Texas A&M University

2:15 p.m. 126 **Detection of fecal chemistry changes in cattle infested with the Southern Cattle Tick, *Rhipicephalus (Boophilus) microplus***

Brian T. Rich ¹, Pete D. Teel ², Donald B. Thomas ³, Jay P. Angerer ⁴, Doug R. Tolleson ¹, Adalberto A. Perez de Leon ³
¹Texas A&M University, ²Texas A&M AgriLife Research, ³USDA ARS, ⁴Texas A&M AgriLife Blackland Research and Extension Center

2:30 p.m. **RUMINANT ANIMAL PRODUCTION I: HEALTH WELL-BEING BREAK**

2:45 p.m. 122 **The efficacy of extended-release eprinomectin for the reduction of horn flies, face flies, and fecal egg counts of parasitic nematodes in replacement beef heifers**

Sophia F. Landers ¹, Chris Tucker ¹, Jeremy G. Powell ², Eva M. Wray ¹, Reagan N. Cauble ¹, Toby D. Lester ¹
¹University of Arkansas, ²University of Arkansas System Division of Agriculture

3:00 p.m. 120 **Winter Hair Coat Shedding Effects on Pre-breeding, Weaning, and Calf Performance on Fall Calving Beef Cows**

Reagan N. Cauble ¹, Jeremy G. Powell ², B R. Kutz ¹, Karen Anschutz ³, Toby D. Lester ¹, Walker Gragg ⁴
¹University of Arkansas, ²University of Arkansas System Division of Agriculture, ³University of Arkansas System Division of Agriculture Department of Animal Science, ⁴The University of Arkansas

3:15 p.m. 121 **Non-invasive monitoring of hot-iron brands on growing cattle.**
Doug R. Tolleson¹, Erika Campbell², Nick E. Garza³, Robert Moen⁴
¹Texas A&M University, ²Texas A&M, ³Texas A&M AgriLife, Sonora, ⁴Texas A&M AgriLife
Research

3:30 p.m. 115 **Safety in numbers: Social isolation increases behavioral responses of cattle during startle tests**
Amanda Mathias¹, Courtney L. Daigle²
¹Texas A&M University, ²Department of Animal Science, Texas A&M University

3:45 p.m. 119 **Foot scoring effects on cow and calf performance at breeding and weaning**
Clayton L. McGuire¹, Jeremy G. Powell², Reagan N. Cauble³, B R. Kutz³, Karen Anschutz⁴,
Toby D. Lester³, Walker Gragg¹
¹The University of Arkansas, ²University of Arkansas System Division of Agriculture, ³University
of Arkansas, ⁴University of Arkansas System Division of Agriculture Department of Animal
Science

4:00 p.m. 124 **Finishing beef cattle under cover reduces heat load and improves efficiency during the summer**
William M. Sims¹, Robert Lawton Stewart¹, Jacob Segers¹, Robert W. McKee¹, Macc Rigdon²,
Chevise L. Thomas², Alexander M. Stelzleni³
¹University of Georgia, ²Department of Animal and Dairy Science, University of Georgia,
³University of Georgia, Animal and Dairy Science

PHYSIOLOGY I

Chair: Vitor R.G Mercadante, Virginia Tech; Rebecca Poole, North Carolina State University
1:00 PM - 4:45 PM
Century Ballroom 18th Century

1:00 p.m. 106 **Randel Lecture: The History of the Discovery of the Steroidogenic Acute Regulatory (StAR) Protein**
Douglas M. Stocco¹
¹Texas Tech University Health Sciences Center

1:45 p.m. 109 **Effects of post-weaning supplementation of immunomodulatory feed ingredient on body weight and cortisol levels in programmed fed beef heifers**
Jessica L. Danielo¹, Jessie Tipton¹, Ralph Ricks¹, Keelee J. McCarty¹, Nathan Long¹
¹Clemson University

2:00 p.m. 111 **Changes in Proinflammatory Cytokines and Chemokines in Beef Steers Chronically Exposed to Endophyte-Infected Tall Fescue Seed**
Alecia R. Brown¹, Rebecca K. Poole², McKenzie Lane¹, Jackson³, Matthew H. Poore², Carrie L. Pickworth², Daniel H. Poole²
¹Dept of Animal Science - NC State University, ²North Carolina State University, ³NC STATE UNIVERSITY

2:15 p.m. 110 **Effect of different backgrounding diets for weaning beef calves on complete blood counts pre and post shipping**

Daniel A. Tigue¹, Shannon R. Wilkerson¹, John G. Rehm², Courteney M. Holland¹, Paul R. Broadway³, Jeffery A. Carroll⁴, Nicole C. Burdick-Sanchez³, Miles Theurer⁵, Soren P. Rodning¹, Jessica D. Starkey⁶, Kim K. Mullenix¹, Christy L. Bratcher¹

¹Auburn University, ²Department of Animal Sciences, Auburn University, ³USDA-ARS, ⁴USDA-ARS, Livestock Issues Research Unit, ⁵Veterinary Research & Consulting Services,

⁶Department of Poultry Science, Auburn University

2:30 p.m. 108 **Effects of post-weaning supplementation of immunomodulatory feed ingredient on cortisol concentrations and microbial populations in programmed fed beef heifers**

Keelee J. McCarty¹, Jessie Tipton¹, Ralph Ricks¹, Jessica L. Danielo¹, Jesse Thompson², Nathan Long¹

¹Clemson University, ²Church & Dwight, Inc.

2:45 p.m. **PHYSIOLOGY I BREAK**

3:00 p.m. 113 **Influence of Cattle Stress Response to Restraint Method on Artificial Insemination Pregnancy Rates**

Russell C. Carrell¹, William B. Smith¹, Lea Ann A. Kinman¹, Vitor R.G R. G. Mercadante², David Roper¹

¹Tarleton State University, ²Virginia Tech

3:15 p.m. 112 **Effects of experimentally-induced hypoxemia on hemodynamics and blood gases, and the performance of pulse oximeters in cattle**

Lauren R. Fontenot¹, Gordon E. Carstens¹, Mauricio Lepiz¹, Kevin Washburn², Joanne Hardy²

¹Texas A&M University, ²TAMU

3:30 p.m. 114 **The relationship of cell mediated immune response of Brahman cows on calving interval**

Marianna E. Mund¹, Don A. Neuendorff², Lacey K. Quail³, Jason P. Banta⁴, David G. Riley⁵, Thomas H. Welsh⁶, Ronald D. Randel⁴

¹Department of Animal Science, Texas A&M University, ²Texas A&M AgriLife Research Overton, ³Department of Animal Science, Texas A&M University, College Station, TX, ⁴Texas A&M AgriLife Research, ⁵Texas A&M University, ⁶Department of Animal Science, Texas A&M University, and Texas A&M AgriLife Research

3:45 p.m. 104 **Administration of a DNA immunostimulant does not mitigate bovine herpesvirus-1 recrudescence in dexamethasone challenged beef cattle.**

Hannah A. Seiver¹, Kendall L. Samuelson¹, Richard D. Posey², Dexter J. Tomczak¹, Taylor M. Smock¹, John T. Richeson¹

¹West Texas A&M University, ²Texas A&M University

4:00 p.m. 107 **Timing of Progesterone Exposure Effects Pregnancy Rates following Fixed Time Artificial Insemination in Postpartum Beef Cows**

Anna L. Smith¹, Rebecca K. Poole², Kyle Mayberry², McKayla A. Newsome¹, Harrison B. Dudley³, Daniel H. Poole²

¹NC STATE UNIVERSITY, ²North Carolina State University, ³Department of Population Health and Pathobiology

4:15 p.m. 103 **Puberty induction protocol, but not supplement amount, overcomes the negative impacts of reduced frequency of supplementation on reproduction of beef heifers.**

Juliana Ranches¹, Marcelo Vedovatto², Elizabeth A. Palmer³, Miguel Miranda⁴, John Arthington⁵, Joao Vendramini⁴, Philippe Moriel⁴

¹UF/IFAS - Range Cattle Research & Education Center, ²Faculdade de Medicina Veterinária e Zootecnia, Universidade Federal de Mato Grosso do Sul, ³University of Florida - Range Cattle Research & Education Center, ⁴University of Florida, ⁵Department of Animal Sciences - University of Florida

4:30 p.m. 105 **Altering the time of vaccination against respiratory pathogens enhanced antibody response and health of feedlot cattle**

Kelsey Schubach¹, Reinaldo F. Cooke¹, Alice P. Brandão¹, Thiago Schumacher², Osvaldo Sousa¹, David W. Bohnert³, Rodrigo Marques⁴

¹Texas A&M University, ²São Paulo State University (UNESP), ³Oregon State University; EOARC, ⁴Oregon State University

PASTURES AND FORAGES I

Chair: Guillermo Scaglia, LSU AgCenter Iberia Research Station; Taylor Husz, Oklahoma State University

2:00 PM - 4:30 PM

Century Ballroom 20th Century

2:00 p.m. 96 **Impact of potassium application and harvest regime in alfalfa yield, forage quality and stand persistence in South Georgia.**

Britta Thinguldstad¹, Jennifer J. J. Tucker², Lisa Baxter², Jacob Segers²

¹The University of Georgia, ²University of Georgia

2:15 p.m. 102 **Three Year Evaluation of Yield and Nutritive Value of Tifton-85 Bermudagrass and Tifton-85 Bermudagrass-Alfalfa Mixtures Produced as Baleage in the Southeast.**

Taylor J. Hendricks¹, Jennifer J. J. Tucker¹, Dennis W. Hancock¹, Robert Lawton Stewart¹, Jacob Segers¹

¹University of Georgia

2:30 p.m. 101 **Effects of two sward heights on forage nutritive value, rumen digestion, and grazing behavior of steers grazing non-endophyte infected tall fescue pastures**

Jose M. Diaz¹, Dirk Philipp¹, Ken Coffey¹, PAUL A. BECK², Christopher R. Hansen¹, Valens Niyigena¹, Robert Rhein¹

¹University of Arkansas, ²Oklahoma State University, Department of Animal & Food Sciences

2:45 p.m. 94 **Performance of growing beef cattle consuming bahiagrass hay treated with calcium oxide and molasses and supplemented with cottonseed meal**

Francine M. Ciriaco¹, Darren D. Henry², Luara B. Canal¹, Carla D. Sanford³, Gonzalo Barreneche³, Ana C. G. Luna¹, Jose C. B. Dubeux⁴, Nicolas DiLorenzo⁵

¹University of Florida - North Florida Research and Education Center, ²Texas Tech University, ³University of Florida, NFREC, ⁴University of Florida, ⁵Department of Animal Sciences, North Florida Research and Education Center (NFREC), University of Florida, Marianna, FL

3:00 p.m. **PASTURES AND FORAGES I BREAK**

3:15 p.m. 98 **Comparison of Digestibility of Forages in Jersey Steers Supplemented with a Yeast Fermentation Product on a High and Low Quality Forage Diet**

Anissa R. Garcia ¹, Jamie A. Boyd ¹, Rebecca K. Splan ²
¹Sul Ross State University, ²Delaware Valley University

3:30 p.m. 97 **Nutritive Value and Fermentation Characteristics of Cool-Season Annual Baleage**

Sarah L. Shoup ¹, Leanne L. Dillard ¹, Kim K. Mullenix ¹, Russell B. Muntifering ¹
¹Auburn University

3:45 p.m. 99 **Managing Alfalfa-Bermudagrass Mixtures in the Southeastern U.S. to Establish Livestock Grazing Recommendations**

Kaylyn Groce ¹, Jennifer J. J. Tucker ¹, Katie Mason ², Landon Marks ³, Kim K. Mullenix ⁴
¹University of Georgia, ²University of Tennessee, ³Alabama Cooperative Extension, ⁴Auburn University

4:00 p.m. 100 **Effects of bismuth subsalicylate and calcium-ammonium nitrate on in vitro fermentation of a high-concentrate substrate**

Sebastian E. Mejia-Turcios ¹, Miranda K. Stotz ¹, Andrea M. Osorio-Doblado ², Philip M. Urso ¹, Thomas G. Jennings ¹, Nadira Espinoza ¹, Lucas B. Kondratovich ¹, Luis F. Carvalho ¹, Michael D. Sandes ¹, Jhones O. Sarturi ¹, Nicolas DiLorenzo ³, Whitney L. Crossland ¹, Darren D. Henry ¹

¹Texas Tech University, ²University of Georgia, ³Department of Animal Sciences, North Florida Research and Education Center (NFREC), University of Florida, Marianna, FL

4:15 p.m. 95 **Emerging Young Scholar: Impact of Phosphorus Recycling on the Equine Phosphorus Requirement**

Ashley Fowler ¹, Laurie Lawrence ¹
¹University of Kentucky

Business Meeting

Chair:

4:45 PM - 6:00 PM

Century Ballroom 20th Century

Awards Banquet

Chair:

7:00 PM - 8:30 PM

Rocky's Bricktown Awards Venue

Awards Entertainment and Graduate Mixer

Chair:

8:30 PM - 11:59 PM

Rocky's Bricktown Awards Venue

Tuesday, January 29, 2019

Extension Breakfast

Chair:

6:30 AM - 8:00 AM

Century Ballroom 19th Century

PASTURES AND FORAGES II

Chair: Ryan Reuter, Oklahoma State University; Reagan Cauble, University of Arkansas

8:00 AM - 9:30 AM

Century Ballroom 20th Century

8:00 a.m. 145 **Digestibility of Forages in Ruminally Cannulated Jersey Steers Supplemented with Liquid Glycerol on a Wheat Straw Forage Diet**

Itzel A. Soto¹, Jamie A. Boyd¹

¹Sul Ross State University

8:15 a.m. 147 **Renovating toxic-infected tall fescue pastures for profitability, animal performance, and soil health.**

Sam Ingram¹, Matthew H. Poore², Daniel H. Poole²

¹NC STATE UNIVERSITY, ²North Carolina State University

8:30 a.m. 146 **Evaluation of Plant Growth Promoting Rhizobacteria on Stockpiled Bermudagrass**

Megan E. Griffin¹, Kim K. Mullenix¹, D.W. Held¹, Russell B. Muntifering¹, Leanne L. Dillard¹

¹Auburn University

8:45 a.m. 149 **Interaction of dietary protein and endophyte-infected Tall Fescue seed in stocker steers on finishing phase performance and carcass traits.**

Matthew E. Davis¹, Rebecca K. Poole², Matthew H. Poore², Daniel H. Poole², Carrie L. Pickworth²

¹NC STATE UNIVERSITY, ²North Carolina State University

9:00 a.m. 144 **Monensin effects on beef calves receiving limited creep-feeding supplementation**

Rhaiza Alves. de Oliveira¹, Joao Vendramini², Philippe Moriel², John Arthington³, Miguel Miranda², Marcelo Vedovatto⁴, Hiran Silva²

¹IFAS Range Cattle Research and Education Center, ²University of Florida, ³Department of Animal Sciences - University of Florida, ⁴Faculdade de Medicina Veterinária e Zootecnia, Universidade Federal de Mato Grosso do Sul

9:15 a.m. 148 **The influence of kudzu (*Pueraria montana* var. *lobata*) age on *in situ* rumen degradation**

Joseph Gulizia¹, Kevin M. Downs¹, S. Cui¹

¹Middle Tennessee State University

SMALL RUMINANT PRODUCTION II

Chair: Olga Bolden-Tiller, Tuskegee; Megan Galvin, Department of Animal Science and
Veterinary Technology, Tarleton State University

8:00 AM - 11:30 AM

Green Country

8:00 a.m. 193 **Tannins as antinutritive chemicals in red cedar**

Raquel V. Lourencon¹, Steve P. Hart², Terry A. Gipson³, Jim P. Muir⁴

¹American Institute for Goat Research, Langston University, ²Langston University, ³Langston,

⁴Texas AgriLife

8:15 a.m. 198 **Replacing cottonseed meal and sorghum grain with corn dried distillers
grains with solubles in lamb feedlot diets: Growth performance and ruminal fluid
parameters**

Kade M. Hodges¹, Travis R. Whitney², Shawn Ramsey¹

¹Texas A&M University, Department of Animal Science, ²Texas A&M AgriLife Research

8:30 a.m. 191 **The Effects of a Yeast Fermentation Product on the Average Daily Gain
and Digestibility on a Rye Grass Hay Based Finishing Diet for Lambs**

Justin C. Burt¹, Jamie A. Boyd¹, Ivan Garcia², Rebecca K. Splan³, Brittany S. Perron¹

¹Sul Ross State University, ²Autonomous University of Chihuahua, ³Delaware Valley University

8:45 a.m. 192 **Terpenes as antinutritive chemicals in red cedar**

Raquel V. Lourencon¹, Steve P. Hart², Terry A. Gipson³, Bob Adams⁴, Davila Rassi⁵

¹American Institute for Goat Research, Langston University, ²Langston University, ³Langston,

⁴Baylor University, ⁵Oklahoma State University

9:00 a.m. 203 **Investing in parasite resistance in sheep**

Joan M. Burke¹, Jim E. Miller²

¹USDA, ²Louisiana State University

9:15 a.m. 195 **Sperm motion characteristics of ram semen liquid-stored in a milk egg
yolk extender at four temperatures**

Stephan Wildeus¹, Dahlia O'Brien¹

¹Virginia State University

9:30 a.m. 200 **Comparison of daily rotation and slow rotational grazing on ewe
performance, parasite infestation, and soil.**

Kailey Bradley¹, Brooke Boyd¹, Lindasy Garrison¹, Morgan Higgins¹, Robert Newton¹,

Miranda Vega¹, Roger Gates², Jay A. Daniel¹

¹Berry College, ²University of Georgia Extension

9:45 a.m. **SMALL RUMINANT PRODUCTION II BREAK**

10:00 a.m. 199 **Effects of high heat load conditions on Dorper, Katahdin, and St. Croix
sheep from different regions of the USA**

Dereje Tadesse¹, Ryszard Puchala², Terry A. Gipson³, Arthur L. Goetsch²

¹American Institute for Goat Research Langston University; College of Agriculture, Debre

Berhan University, Debre Berhan, Ethiopia, ²Langston University, ³Langston

10:15 a.m. 194 **Libido and semen quality in intact and altered (short scrotum and castrated) post-pubertal male dairy sheep lambs**

Dahlia O'Brien¹, Stephan Wildeus¹, Susan Schoenian², Jeffery W. Semler³, Gordon David³, Mary Beth Bennett⁴, Chris Anderson², Ashley Travis³

¹Virginia State University, ²University of Maryland, ³University of Maryland Extension, ⁴West Virginia University

10:30 a.m. 202 ***In Vitro* Digestibility of Various Browse Species Selected by Goats Over the Growing Season**

Nikisha Ryan¹, Frank W. Abrahamsen¹, Briana Epps¹, Kim K. Mullenix², John Heath¹, Ron Smith¹, Nar K. Gurung³

¹Tuskegee University, ²Auburn University, ³Department of Agricultural and Environmental Sciences, College of Agriculture, Environment, and Nutrition Sciences, Tuskegee University, Tuskegee, AL 36088, USA

10:45 a.m. 197 **Utilization of Katahdin rams with lower fecal egg count estimated breeding values improves parasite resistance and fitness traits of progeny.**

Andrew R. Weaver¹, Donald L. Wright², Scott P. Greiner³, Scott A. Bowdridge¹

¹West Virginia University, ²Virginia Tech, Southwest Virginia Agricultural Research and Extension Center, ³Virginia Tech

11:00 a.m. 201 **Factors that limit out-of-season breeding success in ewes**

Berlin Howell¹, Joan M. Burke², Charles Lee³, Erin Wood³, Charles Rosenkrans⁴, Rick W. Rorie⁵

¹University of Arkansas, Fayetteville, AR USA, ²USDA, ³USDA, ARS, ⁴University of Arkansas System, ⁵University of Arkansas

11:15 a.m. 196 **Performance of landrace hair sheep lambs in a forage-based, semi-continuous production system**

Stephan Wildeus¹, Dahlia O'Brien¹

¹Virginia State University

PHYSIOLOGY II

Chair: Thomas Welsh, Texas A&M University, Department of Animal Science, College Station, TX; Juliana Ranches, UF/IFAS - Range Cattle Research & Education Center

8:00 AM - 11:45 AM

Century Ballroom 18th Century

8:00 a.m. 152 **Randel Lecture: Luteal Regulation and Early Embryonic Loss in Postpartum Cows: Applications in Reproductive Management**

E. Keith Inskeep¹

¹West Virginia University

8:45 a.m. 156 **Effect of shipping stress on complete blood counts of backgrounded beef steers**

Daniel A. Tigue¹, John G. Rehm², Shannon R. Wilkerson¹, Courteney M. Holland¹, Paul R. Broadway³, Jeffery A. Carroll⁴, Nicole C. Burdick-Sanchez³, Miles Theurer⁵, Soren P. Rodning¹, Jessica D. Starkey⁶, Kim K. Mullenix¹, Christy L. Bratcher¹

¹Auburn University, ²Department of Animal Sciences, Auburn University, ³USDA-ARS, ⁴USDA-ARS, Livestock Issues Research Unit, ⁵Veterinary Research & Consulting Services,

⁶Department of Poultry Science, Auburn University

9:00 a.m. 159 **Relationships among circulating prolactin concentrations, hair coat score, and weights of grazing cows.**

Erin Davis¹, Reagan N. Cauble¹, Jeremy G. Powell², Toby D. Lester¹, Walker Gragg³, B R. Kutz¹, Charles Rosenkrans⁴

¹University of Arkansas, ²University of Arkansas System Division of Agriculture, ³The University of Arkansas, ⁴University of Arkansas System

9:15 a.m. 150 **Administration of prostaglandin F_{2α} 24 h prior to CIDR removal impacts reproductive performance of suckled beef cows assigned to the 7-d CO-Synch + CIDR protocol**

Pedro Fontes¹, Reinaldo F. Cooke¹, Nicky Oosthuizen², Claire L. Timlin³, Nicholas W. Dias⁴, John Currin⁴, Sherrie Clark-Deener⁴, G. Cliff C. Lamb¹, Ky G. Pohler¹, Vitor R.G R. G. Mercadante⁴

¹Texas A&M University, ²ABS Global, ³Animal and Poultry Sciences, Virginia Tech, ⁴Virginia Tech

9:30 a.m. **PHYSIOLOGY II BREAK**

9:45 a.m. 158 **Long term impact of ergot alkaloids on fetal heifer development and subsequent growth and reproductive performance.**

McKenzie Lane¹, Jackson¹, McKayla A. Newsome¹, Alecia R. Brown², Rebecca K. Poole³, Harrison B. Dudley⁴, Matthew H. Poore³, Daniel H. Poole³

¹NC STATE UNIVERSITY, ²Dept of Animal Science - NC State University, ³North Carolina State University, ⁴Department of Population Health and Pathobiology

10:00 a.m. 155 **Evaluation of Cytokine Response as an Indicator of Genetic Resistance to Fescue Toxicosis in Purebred Angus Cattle**

Kyle Mayberry¹, Rebecca K. Poole¹, McKayla A. Newsome², Piush Khanal¹, Matthew H. Poore¹, Nick V. Serao³, Daniel H. Poole¹

¹North Carolina State University, ²NC STATE UNIVERSITY, ³Iowa State University

10:15 a.m. 151 **Timing of concentrate supplementation during late gestation impacts calf pre-weaning growth, but not reproductive performance of *Bos indicus*-influenced cows**

Elizabeth A. Palmer¹, Marcelo Vedovatto², Juliana Ranches³, Miguel Miranda⁴, Vinícius Gouvêa⁵, John Arthington⁶, Joao Vendramini⁴, Philippe Moriel⁴

¹University of Florida - Range Cattle Research & Education Center, ²Faculdade de Medicina Veterinária e Zootecnia, Universidade Federal de Mato Grosso do Sul, ³UF/IFAS - Range Cattle Research & Education Center, ⁴University of Florida, ⁵IFAS - Range Cattle Research and Education Center, University of Florida, ⁶Department of Animal Sciences - University of Florida

10:45 a.m. 160 **Steers inoculated with Salmonella exhibit dissimilar hematology and body temperature profiles based on their exposure to a synthetic glucocorticoid**

Shannon R. Wilkerson ¹, P. Rand Broadway ², Jeffery A. Carroll ³, Nicole C. Burdick-Sanchez ⁴, Daniel A. Tigue ¹, John G. Rehm ¹, Todd R. Callaway ⁵, Christy L. Bratcher ¹

¹Auburn University, ²USDA ARS Lubbock, ³USDA-ARS, Livestock Issues Research Unit, ⁴USDA-ARS, ⁵University of Georgia

11:00 a.m. 153 **Supplementing an immunomodulatory feed ingredient to modulate thermoregulation and performance in finishing beef cattle under heat stress conditions**

Eduardo Colombo ¹, Reinaldo F. Cooke ¹, Kelsey Schubach ¹, Bruna Rett ¹, Alice P. Brandão ¹
¹Texas A&M University

11:15 a.m. 154 **Evaluation of Repeated Exposure to Lipopolysaccharide on Vaginal Temperature and Complete Blood Count in Two-Year-Old Brahman Heifers**

Sydney E. O'Daniel ¹, David G. Riley ², Don A. Neuendorff ³, Jeffery W. Dailey ⁴, Jeffery A. Carroll ⁵, Ronald D. Randel ⁶, Thomas H. Welsh ¹

¹Department of Animal Science, Texas A&M University, and Texas A&M AgriLife Research, ²Texas A&M University, ³Texas A&M AgriLife Research Overton, ⁴USDA ARS Lubbock, ⁵USDA-ARS, Livestock Issues Research Unit, ⁶Texas A&M AgriLife Research

11:30 a.m. 157 **The relationship of weaning stress, sex and temperament on fecal microbiota and metabolites in Brahman calves**

Elena V. Gart ¹, Sara D. Lawhon ¹, Jan S. Suchodolski ², Ronald D. Randel ³, Thomas H. Welsh ⁴

¹Department of Veterinary Pathobiology, Texas A&M University, ²Department of Small Animal Clinical Sciences, Texas A&M University, ³Texas A&M AgriLife Research, ⁴Department of Animal Science, Texas A&M University, and Texas A&M AgriLife Research

RUMINANT ANIMAL PRODUCTION II: FEEDS AND FEEDING

Chair: Cathy Bandyk, Innovad; Russell Carrell, Tarleton State University

8:00 AM - 12:00 PM

Plaza Ballroom North

8:00 a.m. 173 **The effects of Fescue EMT™ Mineral Defense on stocker heifer growth while grazing tall fescue**

Wesley Moore ¹, Anna R. Taylor ², Randy Dew ³, Ken Bryan ³, J. Nathan Pike ³, T. Ryan Lock ⁴
¹Cargill, ²Cargill Inc, ³Cargill Animal Nutrition, ⁴University of Missouri

8:15 a.m. 175 **Reduce Reuse ReRumen: Variability in Nutritive Value of Paunch Manure**

Taylor J. Garcia ¹, Jeff A. Brady ², Kimberly A. Guay ³, James P. Muir ⁴, William B. Smith ¹
¹Tarleton State University, ²Texas A&M AgriLife Research, ³Department of Animal Science, Tarleton State University, ⁴TAMU

8:30 a.m. 170 **Effect of supplementation of zinc sulfate or zinc methionine on growth, reproductive development, and immunocompetence of replacement Holstein heifers**

Caitlin S. Hebbert ¹, Sergio A. Soto-Navarro ², Adam F. Summers ², Jorge A. Rodela ³, Susana A. Urias ², Mike S. Brown ⁴, L. J. Sullivan ⁵

¹Noble Research Institute, ²New Mexico State University, ³Cactus Feeders, ⁴Elanco, 2500 Innovation Way, Greenfield, IN 46140, ⁵Global Animal Products

8:45 a.m. 164 **Effects of year-round supplementation of sugarcane molasses/urea or range cubes on growth performance of *Bos indicus*-influenced beef cows and their offspring**

Elizabeth A. Palmer¹, Marcelo Vedovatto², Juliana Ranches³, Vinícius Gouvêa⁴, Miguel Miranda⁵, John Arthington⁶, Joao Vendramini⁵, Philippe Moriel⁵

¹University of Florida - Range Cattle Research & Education Center, ²Faculdade de Medicina Veterinária e Zootecnia, Universidade Federal de Mato Grosso do Sul, ³UF/IFAS - Range Cattle Research & Education Center, ⁴IFAS - Range Cattle Research and Education Center, University of Florida, ⁵University of Florida, ⁶Department of Animal Sciences - University of Florida

9:00 a.m. 165 **Grazing Evaluation of Pearl Millet with and without Soybean Hull Supplementation in a Forage-Finished Beef Production System**

Robert W. McKee¹, Deidre D. Harmon², Dennis W. Hancock¹, Robert Lawton Stewart¹, Macc Rigdon³, Chevise L. Thomas³, Alexander M. Stelzleni⁴

¹University of Georgia, ²North Carolina State University, ³Department of Animal and Dairy Science, University of Georgia, ⁴University of Georgia, Animal and Dairy Science

9:15 a.m. 161 **Evaluation of cull sweet potato storage roots as a winter supplement to grazing for cow-calf pairs**

Jane A. Parish¹, Cobie Rutherford², Stephen L. Meyers³, Mark W. Shankle³

¹North Mississippi Research and Extension Center, Mississippi State University, ²Mississippi State University, ³Pontotoc Ridge-Flatwoods Branch Experiment Station

9:30 a.m. 166 **Moo-vie Snacks: Evaluation of Waste Popcorn as a Feedstuff in Comparison with Known Livestock Feeds**

Lauren P. Bielamowicz¹, Taylor J. Garcia¹, Nichole M. Cherry², James P. Muir³, William B. Smith¹

¹Tarleton State University, ²Texas A&M AgriLife Research, ³TAMU

9:45 a.m. **RUMINANT ANIMAL PRODUCTION II: FEEDS AND FEEDING BREAK**

10:00 a.m. 169 **Increasing levels of sorghum dried distillers grains with solubles in feedlot diets: effects on nutrient digestibility, ruminal degradability and fermentation**

Stefania Pancini¹, Alvaro Simeone², Oscar Bentancur², Vitor R.G R. G. Mercadante¹, Virginia Beretta²

¹Virginia Tech, ²University of the Republic

10:15 a.m. 172 **Effect of energy and lasalocid supplementation on stocker cattle performance grazing winter-wheat pasture**

Autumn T. Pickett¹, Stacey Gunter²

¹University of Arkansas, ²USDA-ARS, Southern Plains Range Research Station

10:30 a.m. 174 **The effect of forage quality and protein supplementation source on digestibility of Kentucky 31 Tall Fescue**

Fabio J. Maia¹, Jeferson M. Lourenco², Dylan Davis², Todd R. Callaway², Dennis W. Hancock², Robert Lawton Stewart²

¹Federal University of Technology - Paraná - Brazil / University of Georgia - visitor researcher,

²University of Georgia

10:45 a.m. 171 **The effect of forage quality and protein supplementation source on digestibility of Tifton 85 Bermudagrass**

Fabio J. Maia¹, Jeferson M. Lourenco², Darren S. Seidel³, Malinee Intanoo², Todd R. Callaway², Dennis W. Hancock², Robert Lawton Stewart²

¹Federal University of Technology - Paraná - Brazil / University of Georgia - visitor researcher, ²University of Georgia, ³The University of Georgia

11:00 a.m. 162 **Assessment of daily intake by beef heifers of sweet potato storage roots under competitive limit-feeding conditions**

Jane A. Parish¹, Cobie Rutherford², Stephen L. Meyers³, Mark W. Shankle³

¹North Mississippi Research and Extension Center, Mississippi State University, ²Mississippi State University, ³Pontotoc Ridge-Flatwoods Branch Experiment Station

11:15 a.m. 167 **Livestock Literacy: Ensiling Newspaper as a Renewable Fiber Source for Ruminant Animals**

Natalie A. Finn¹, Nichole M. Cherry², James P. Muir³, William B. Smith¹

¹Tarleton State University, ²Texas A&M AgriLife Research, ³TAMU

11:30 a.m. **Calf-inated Cups: Disposable Coffee Cups as a Fiber Source in Ruminant Diets**

Shelby L. Wood¹, Lauren M. Baker², Nichole M. Cherry³, James P. Muir⁴, William B. Smith⁵

¹Department of Animal Science and Veterinary Technology, Tarleton State University, ²University of Vermont, ³Texas A&M AgriLife Research, ⁴TAMU, ⁵Tarleton State University

11:45 a.m. **Effects of pre- and post-partum supplementation of molasses/urea with or without methionine fortification on growth performance of primiparous cows and their offspring**

Marcelo Vedovatto¹, Elizabeth A. Palmer², Juliana Ranches³, Miguel Miranda⁴, Vinícius Gouvêa⁵, John Arthington⁶, Joao Vendramini⁴, Philippe Moriel⁴

¹Faculdade de Medicina Veterinária e Zootecnia, Universidade Federal de Mato Grosso do Sul, ²University of Florida - Range Cattle Research & Education Center, ³UF/IFAS - Range Cattle Research & Education Center, ⁴University of Florida, ⁵IFAS - Range Cattle Research and Education Center, University of Florida, ⁶Department of Animal Sciences - University of Florida

RUMINANT ANIMAL PRODUCTION III: MGNT/RES METHODS

Chair: Darren Henry, Texas Tech University; Daniel Tigue, Auburn University

8:00 AM - 12:00 PM

Plaza Ballroom South

8:00 a.m. 176 **Weaning weight trends in the U.S. beef cattle industry**

Claire Anderson¹, Paul A. Beck¹, Carla Goad¹, Lisa Kriese-Anderson², Mike E. King³, Mike E. King³

¹Oklahoma State University, ²Auburn University, ³Kansas State University

8:15 a.m. 185 **Strategies for Managing Open Beef Cows**

Stephen M. Lira¹, Jon T. Biermacher¹, Evan Whitley¹, Devlon Ford¹

¹Noble Research Institute

8:30 a.m. 177 **The effect of breeding system on voluntary forage consumption of beef cows**

Claire Anderson ¹, Amanda Holder ², Megan A. Gross ¹, Aksel Wiseman ³, Adam McGee ¹, Paul A. Beck ¹

¹Oklahoma State University, ²College of the Ozarks, ³University of Nebraska-Lincoln

8:45 a.m. 186 **The effect of breeding program on cow maintenance requirement and efficiency of calf growth**

Claire Anderson ¹, Aksel Wiseman ¹, Adam McGee ¹, Paul A. Beck ¹

¹Oklahoma State University

9:00 a.m. 178 **The Effect of Fleshing Ability on Cow and Calf Performance**

Amanda Holder ¹, Aksel Wiseman ², Adam McGee ², Paul A. Beck ², Claire Anderson ²

¹College of the Ozarks, ²Oklahoma State University

9:15 a.m. 179 **The effect of competition for an automated supplement feeder on supplement intake behavior of stocker steers.**

Taylor C. Husz ¹, Carla Goad ¹, Ryan R. Reuter ¹

¹Oklahoma State University

9:30 a.m. 180 **Impact of weaning strategy on calf performance, behavior, and activity**

Grace C. Ott ¹, Sharon R. Freeman ², Matthew H. Poore ², Carrie L. Pickworth ²

¹North Carolina State University, Department of Animal Science, ²North Carolina State University

9:45 a.m. **RUMINANT ANIMAL PRODUCTION III: MGNT/RES METHODS BREAK**

10:00 a.m. 181 **Characterization of feeding-behavior patterns and application of chemometrics to predict residual feed intake based on feeding-behavior traits in growing Holstein heifers**

Jocelyn R. Johnson ¹, Ira Parsons ¹, Gordon E. Carstens ¹, Luis O. Tedeschi ¹, Claas Heuer ², Nader Deeb ³

¹Texas A&M University, ²STgenetics, ³ST Genetics

10:15 a.m. 184 **Effect of monensin intake during a stocker phase and subsequent finishing phase on performance and carcass characteristics of feedlot steers**

Caleb P. Weiss ¹, PAUL A. BECK ², Shane Gadberry ³, Dexter J. Tomczak ⁴, John T. Richeson ⁴, Colton A. Robison ⁵, Blake K. Wilson ⁵, Tom Hess ⁶, Don S. Hubbell ⁷

¹University of Arkansas, Department of Animal Science, ²Oklahoma State University, Department of Animal & Food Sciences, ³University of Arkansas, ⁴West Texas A&M University, ⁵Oklahoma State University, ⁶University of Arkansas Division of Agriculture, ⁷UA Livestock and Forestry Station, retired

10:30 a.m. 182 **Environment enrichment reduces aggression and stereotypic behaviors in feedlot steers**

Rachel M. Park ¹, Rachel Bova ², Jenny S. Jennings ³, Courtney L. Daigle ⁴

¹Texas A&M University, ²West Texas A&M University, ³Texas A&M AgriLife Research,

⁴Department of Animal Science, Texas A&M University

10:45 a.m. 189 **Comparison of growth-promoting implant regimens from calthood to finishing in beef steers: finishing phase**

Jase Ball ¹, Ellen Herring ², Beth B. Kegley ³, John T. Richeson ⁴, Jason Apple ³, D. J. Tomczak ⁵, Elizabeth A. Palmer ⁶, Jeremy G. Powell ⁷

¹University of Arkansas, ²University of Arkansas, Division of Agriculture, Department of Animal Science, ³University of Arkansas Division of Agriculture, ⁴West Texas A&M University, ⁵West Texas A&M University, Department of Agricultural Sciences, ⁶University of Florida - Range Cattle Research & Education Center, ⁷University of Arkansas System Division of Agriculture

11:00 a.m. 190 **Reduce Reuse ReRumen: Preservation Method of Rumen Fluid Collected from Slaughtered Cattle Affects *In Vitro* Digestibility**

Taylor J. Garcia ¹, Jeff A. Brady ², Kimberly A. Guay ³, James P. Muir ⁴, William B. Smith ¹

¹Tarleton State University, ²Texas A&M AgriLife Research, ³Department of Animal Science, Tarleton State University, ⁴TAMU

11:15 a.m. 183 **Effect of fermentation temperature on in vitro digestibility of a finishing diet**

Miranda K. Stotz ¹, Sebastian E. Mejia-Turcios ¹, Andrea M. Osorio-Doblado ², Nadira Espinoza ¹, Philip M. Urso ¹, Lucas B. Kondratovich ¹, Luis Carvalho ¹, Micheal Douglas ¹, Jhones O. Sarturi ¹, Darren D. Henry ¹, Whitney L. Crossland ¹

¹Texas Tech University, ²University of Georgia

11:30 a.m. 187 **Gas Production Dynamics of Salts of Volatile Organic Acids Incubated with *Brachiaria brizantha* cv. Marandu.**

Luiz Fernando Dias Batista ¹, Caitlyn Cagle ², Aaron B. Norris ³, Mariane Ferro ⁴, Whitney L. Crossland ³, Luis O. Tedeschi ¹

¹Texas A&M University, ²Texas A&M university, ³Texas Tech University, ⁴Federal University of Mato Grosso

11:45 a.m. 188 **Comparison of two software methods of fitting one- and two-compartment age-dependent digesta kinetics models**

Corey A. Moffet ¹, Stacey Gunter ²

¹USDA-ARS, ²USDA-ARS, Southern Plains Range Research Station

EXTENSION II

Chair: Jacob Segers, University of Georgia; Landon Marks, Alabama Cooperative Extension

10:00 AM - 11:30 AM

Century Ballroom 20th Century

10:00 a.m. 142 **Providing an Experiential Learning Opportunity through an Extension Animal Science Internship**

Chelsey A. Kimbrough ¹, Michael L. Looper ², Shane Gadberry ³, Mark R. Russell ⁴, Heidi M. Ward ¹, John A. Jennings ⁵, Kenny Simon ⁶

¹University of Arkansas Cooperative Extension Service, ²University of Arkansas System Division of Agriculture, Department of Animal Science Fayetteville, AR, ³University of Arkansas,

⁴University of Arkansas - Division of Agriculture, ⁵University of Arkansas System Division of Agriculture, Department of Animal Science, Little Rock, AR, ⁶University of Arkansas, Division of Agriculture

10:15 a.m. 140 **Virginia Tech Graduate Extension Scholars program: Report of a scholar.**

Nicholas W. Dias ¹, Hannah H. Scherer ², Vitor R.G R. G. Mercadante ¹

¹Virginia Tech, ²Agricultural, Leadership, and Community Education. Virginia Tech

10:30 a.m. 141 **The Alliance for Grassland Renewal presents workshops to enhance the understanding and adoption of Novel Endophyte Tall Fescue.**

Matthew H. Poore ¹, Tony Stratton ², Craig A. Roberts ³, S. Ray. Smith ⁴, John G. Andrae ⁵, Gabriel J. Pent ⁶, April D. Shaeffer ¹

¹North Carolina State University, ²Ag Research USA, ³University of Missouri, ⁴University of Kentucky, ⁵Clemson University, ⁶Virginia Tech - SVAREC

10:45 a.m. 143 **Economics of cool-season annuals or reduced labor supplementation systems for wintering cow-calf pairs**

William K. Kelley ¹, Max Runge ², Katie Mason ³, Kimberly Mullenix ², Joshua B. Elmore ⁴, Jessica Kelton ²

¹Auburn University/ACES, ²Auburn University, ³University of Tennessee, ⁴Alabama Cooperative Extension System

11:00 a.m. 138 **The Tifton Bull Evaluation Program: A 5 Year Review**

Jacob Segers ¹, Jason D. Duggin ¹, Robert Lawton Stewart ¹, Jacob Nyhuis ¹

¹University of Georgia

11:15 a.m. 139 **Evaluation of cool-season annuals or reduced labor supplementation systems for wintering cow-calf pairs**

Katie Mason ¹, Kim K. Mullenix ², Josh Elmore ², Max Runge ², William K. Kelley ³

¹University of Tennessee, ²Auburn University, ³Auburn University/ACES

Student Lunch and Learn: Transition from student to professional, Sponsored by Merck

Chair:

11:00 AM - 12:30 PM

Century Ballroom 19th Century

11:00 a.m. **Student Lunch and Learn: Transition from student to professional,**

Sponsored by Merck

Todd Bilby ¹

¹Merck

Southern Board Meeting II

12:30 PM - 2:30 PM

Great Plains