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 1

¹Virginia State University

1:05 p.m. 192 Towards Year-Round Grazing in the Southeastern U.S.

Gabriel J. Pent 1

¹Virginia Tech - SVAREC

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

Uma Karki 1

¹Tuskegee 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 1

¹University of Maryland

2:45 p.m. 194 Carcass and Meat Quality of Pasture-raised Lamb and Goat

Juna H. Lee 1

¹Fort 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 1

¹USDA ARS Dale Bumpers Small Farms Research Center

3:55 p.m. 195 Marketing options for pasture-raised lambs

Dahlia O'Brien ¹, Stephan Wildeus ¹

¹Virginia State University

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

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

SERA 41 SYMPOSIUM INTRODUCTION

Chair: Daniel Rivera, Animal and Dairy Sciences Department Mississippi State University
1:00 PM - 5:00 PM
Ballroom 1

1:00 p.m. **SERA 41 SYMPOSIUM INTRODUCTION**

Daniel Rivera 1

¹Animal and Dairy Sciences Department Mississippi State University

1:05 p.m. 196 Animal Nutrition: How are we serving our clientele through Extension?

Kimberly Mullenix ¹, Shane Gadberry ², Robert Lawton Stewart ³

¹Auburn University, ²University of Arkansas, ³University of Georgia

1:50 p.m. 197 Supplemental feeding, forage intake and animal performance – perspectives from research and the industry

Daniel Rivera 1

¹Animal and Dairy Sciences Department Mississippi State University

2:35 p.m. 198 Beef cattle support system modeling

Robin R. White ¹

¹Virginia Tech School of Animal Sciences

3:20 p.m. **SERA 41 SYMPOSIUM PANEL DISCUSSION**

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

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 Oklahoma 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 M. Herring ², Clay McGuire ¹, Autumn T. Pickett ¹, Eva M. Wray ¹, Chris Tucker ¹ ¹University of Arkansas, ²University of Arkansas System Division of Agriculture Department of Animal Science

3:10 p.m. 154 The effect of number of cattle per pen on stocker cattle health and performance.

Kirsten A. Midkiff ¹, Brandi B. Karisch ², Amelia Woolums ²

¹Mississippi State University Animal and Dairy Sciences, ²Mississippi State University

- 3:15 p.m. 92 **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
- 3:20 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. Phipps ¹, Deidre D. Harmon ¹, Matt H. Poore ², Ethan Henderson ³, Robert Bryant ⁴,

Brock Ashburn ⁵, April D. Shaeffer ², Johnny R. Rogers ¹

- ¹North Carolina State University, ²NC 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. Pickett ¹, Beth B. Kegley ², PAUL A. BECK ³, Stacey A. Gunter ⁴

¹University of Arkansas, ²University of Arkansas Division of Agriculture, ³Oklahoma State University, Department of Animal & Food Sciences, ⁴USDA-ARS, Oklahoma and Central Plains Agricultural Research Center

- 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. Stotz ¹, Diego Casas Murillo ¹, Darren D. Henry ¹, Whitney L. Crossland ¹ Texas Tech University
- 3:35 p.m. 134 **Public perceptions of equine processing and welfare** Kelly Melvin ¹, Liesel G. Schneider ², Jennie L. Ivey ³, Peter D. Krawczel ³ ¹University of Tennessee, ²Animal Science Department, University of Tennessee Institute of Agriculture, ³University of Tennessee Institute of Agriculture
- 3:40 p.m. 63 Effects of forage allowance and supplementation on performance of steers grazing wheat pasture.

Kynzie McNeill ¹, Ryan R. Reuter ¹, PAUL A. BECK ²

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

3:45 p.m. 119 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
Sam 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 ³, Stanley F. Kelley ¹, Marcy M. Beverly ¹, Mark Anderson ¹

¹Sam Houston State University, ²Texas Tech University, ³Texas Tech University, Department of Animal and Food Sciences

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

- 4:10 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, ²USDA, ARS, Grazinglands Research Laboratory
- 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

 Oklahoma 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 E. Contreras-Correa ¹, Henry A. Paz ¹, George Perry ², Caleb O. Lemley ¹

¹Mississippi State University, ²South 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 Oklahoma State University

UNDERGRADUATE STUDENT COMPETITION

Chair: Blake Wilson, Oklahoma State University; Andrea Warner, Oklahoma State University
4:30 PM - 5:45 PM
Roberts

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 ², Terry D. Brandebourg ¹

¹Auburn University, ²Department of Animal Sciences, Auburn University

4:35 p.m. 104 Impacts of Phosphorus Intake on Beef Heifer Growth Performance and Reproductive Tract Scores

Hailey Hilfiker ¹, Beth B. Kegley ², Rick W. Rorie ³, Pete A. Hornsby ¹, Jana L. Reynolds ⁴, Benjamin P. Shoulders ⁴, Reagan N. Cauble ³, Jermey G. Powell ³

¹University of Arkansas Division of Agriculture Dept. of Animal Science, ²University of Arkansas Division of Agriculture, ³University of Arkansas, ⁴University of Arkansas System Division of Agriculture

4:40 p.m. 153 The Effect of Nerve Growth Factor Beta on Embryonic Cleavage Rates Kayla Jones ¹

¹North 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 F Rosenkrans ⁴ ¹University of Arkansas, ²Louisiana State University Agricultural Center, ³Texas A&M University-Kingsville, ⁴Animal and Veterinary Sciences Department, Clemson University

4:50 p.m. 183 **Utilizing Breeding Indictors for an Effective Al Program in Brahman Cows**

Emily K. DeShazo ¹, Sydney T. Reese ², Gessica A. Franco-Johannsen ³, Don A. Neuendorff ⁴, Ron Randel ², Ky G. Pohler ²

¹Mississippi State University, ²Texas A&M University, ³Texas &M University, ⁴Texas A&M AgriLife Research & Extension Center at Overton

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, Beth B. Kegley ², Jermey G. Powell ¹ University of Arkansas, ²University of Arkansas Division of Agriculture

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 ², Madeline E. Rivera ¹, Luiz Fernando Dias Batista ¹, Luis O. Tedeschi ¹

¹Texas A&M University, ²Texas Tech 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 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 F Rosenkrans ⁵

¹Purdue University, ²University of Missouri, ³Louisiana State University Agricultural Center, ⁴University of Arkansas Fayetteville, ⁵Animal and Veterinary Sciences Department, Clemson 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 K. Alexander ¹, Carrie L. Pickworth ¹, Mikayla Moore ², Matt H. Poore ² ¹North Carolina State University, ²NC 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 ³

¹TAMU-Kingsville, ²USDA, ARS, USMARC, ³USDA, ARS, U.S. Meat Animal Research Center

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 ¹, Carrie L. Pickworth ² ¹NC State University, ²North Carolina State University

GRADUATE STUDENT COMPETITION - PHD

Chair: Charles Rosenkrans, University of Arkansas System 4:40 PM - 5:25 PM Ballroom 2

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, Beth B. Kegley ², Shane Gadberry ¹, PAUL A. BECK ³, Michael Sims ⁴, Cody Shelton ²

¹University of Arkansas, ²University of Arkansas Division of Agriculture, ³Oklahoma State University, Department of Animal & Food Sciences, ⁴Oklahoma State University

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 ², William E. Pinchak ³

¹Texas A&M University, ²Texas A&M University; Texas A&M AgriLife Research, College Station, ³Texas A&M Agrilife

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, Mércia Ferreira dos Santos ¹, Valéria Oliveira Apolinário ³, Gleise Medeiros da Silva ⁴, Erinaldo Viana de Freitas ¹, Nicolas DiLorenzo ⁵

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

4:55 p.m. 57 Effects of Diploid and Tetraploid Annual Ryegrass Cultivars on Cattle Performance, Herbage Mass, and Nutritive Value

Sarah M. Montgomery-Williams ¹, Brandi B. 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, Leanne L. Dillard ², Kim K. Mullenix ², Audrey Gamble ², Russell B. Muntifering ²

¹Cargill Animal Nutrition, ²Auburn University

5:05 p.m. 99 **Impact of social mixing on feedlot steer eating and lying behavior** Amanda J. Hubbard ¹, Jason Sawyer ², Reinaldo F. Cooke ¹, Jenny Jennings ³, Courtney L. Daigle ⁴

¹Texas A&M University, ²Texas A&M University-Kingsville, ³Texas A&M AgriLife Research, ⁴Department of Animal Science, Texas A&M University

5:10 p.m. 130 Presynchronization with Prostaglandin F_{2α}and prolonged exposure to exogenous progesterone impacts estrus expression and alters fertility in beef heifers Nicky Oosthuizen ¹, Pedro Fontes ², Cliff Lamb ² ¹ABS Global, ²Texas 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 ¹, Shawn R. Campagna ¹, Taylor B. Ault-Seay ², Mallory M. Embree ³, Phillip R. Myer ⁴

¹University of Tennessee Knoxville, ²University of Tennessee, Knoxville, ³Ascus Biosciences, Inc., ⁴Department of Animal Science- University of Tennessee

5:20 p.m. 77 Evaluating Nitrogen Management Strategies to Improve Southern Bermudagrass Grazing Systems

Justin C. Burt ¹, Jennifer J. J. Tucker ¹, Lisa Baxter ¹ ¹University of Georgia

Monday, January 27, 2020

MEATS

Chair: Alexander Stelzleni, University of Georgia, Animal and Dairy Science; Brandie Preuss 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 Oklahoma 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 ², Chance Brooks ¹

¹Texas Tech University, ²Texas Tech University, Department of Animal and Food Sciences

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 Oklahoma State University

PHYSIOLOGY I

Chair: Daniel Poole, North Carolina State University; Nicky Oosthuizen, ABS Global 8:00 AM - 10:45 AM
Ballroom 3/4

8:00 a.m. 72 Endocrine and ovarian responses to combined estradiol benzoatesulpiride 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 F Rosenkrans ⁴ ¹University of Arkansas, ²Louisiana State University Agricultural Center, ³Texas A&M University-Kingsville, ⁴Animal and Veterinary Sciences Department, Clemson 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 F Rosenkrans ⁵

¹Purdue University, ²University of Missouri, ³Louisiana State University Agricultural Center, ⁴University of Arkansas Fayetteville, ⁵Animal and Veterinary Sciences Department, Clemson 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, Nathan Clemson University Long ¹ ¹Clemson University

9:00 a.m. 132 Proportional tissue weights in male goats differing in genetic propensity to consume juniper.

Doug R. Tolleson ¹, Thomas H. Welsh ², Nick E. Garza ³, Kaylee Hollingsworth ¹, John W. Walker ⁴

¹Texas A&M University, ²Texas A&M University; Texas A&M AgriLife Research, College Station, ³Texas A&M AgriLife, Sonora, ⁴Texas A&M AgriLife

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.

Doug R. Tolleson ¹, Thomas H. Welsh ², John W. Walker ³
¹Texas A&M University, ²Texas A&M University; Texas A&M AgriLife Research, College Station, ³Texas A&M AgriLife

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 ², MICHAEL Flythe ³, Laurie Lawrence ¹

¹University of Kentucky, ²University of Kentucky Department of Animal & Food Sciences, ³USDA/ARS

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 ², Terry D. Brandebourg ¹

¹Auburn University, ²Department of Animal Sciences, Auburn 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 ³

¹TAMU-Kingsville, ²USDA, ARS, USMARC, ³USDA, ARS, U.S. Meat Animal Research Center

10:45 a.m. 199 Emerging Young Scholar Presentation: Evaluation of Chronic Ergot Alkaloid Exposure and Various Mitigation Strategies on Performance, Reproduction, and Immunity in Beef Cattle

Rebecca K. Poole ¹
¹Texas A&M University

KUNKLE SYMPOSIUM

Chair: Shane Gadberry, University of Arkansas; Kirsten Midkiff, Mississippi State University
Animal and Dairy Sciences
8:30 AM - 11:30 AM
Ballroom 2

8:30 a.m. KUNKLE SYMPOSIUM INTRODUCTION

Shane Gadberry 1

¹University of Arkansas

8:40 a.m. 24 Condensed tannins: structure, activity and characterization

Wayne Zeller ¹

¹USDA-ARS

9:30 a.m. 180 Using condensed tannins in plant materials more effectively with livestock

Scott L. Kronberg 1

¹USDA-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 ¹

¹U.S. DEPARTMENT OF AGRICULTURE

BREEDING AND GENETICS

Chair: B Kutz, University of Arkansas; Taylor Ault-Seay, University of Tennessee, Knoxville

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 ¹

¹Universidad 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 ¹

¹Universidad 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 ², B R. Kutz ³, Avert H. Brown, Jr. ³, Jermey G. Powell ³, Trent Smith ², David G. Riley ⁴, R N. Cauble ³

¹Mississippi State University Animal and Dairy Sciences, ²Mississippi State University,

³University of Arkansas, ⁴Texas 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, Nathan Clemson University Long ¹ Clemson University

2:15 p.m. 139 **Relationship of winter hair growth and performance in Angus dams** Morgan A. Duvic ¹, Randy H. Burnett ², Cody Glenn ¹, Trent Smith ¹

¹Mississippi State University, ²Mississippi State University Animal and Dairy Sciences

2:30 p.m. 184 **Utilizing Breeding Indictors for an Effective AI Program in Brahman Cows**

Emily K. DeShazo ¹, Sydney T. Reese ², Gessica A. Franco-Johannsen ³, Don A. Neuendorff ⁴, Ron Randel ², Ky G. Pohler ²

¹Mississippi State University, ²Texas A&M University, ³Texas &M University, ⁴Texas A&M AgriLife Research & Extension Center at Overton

PASTURES AND FORAGES I

Chair: Flint Harrelson, Morehead State University; Kristen June Jacobson 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 ³

¹North Mississippi Research and Extension Center, Mississippi State University, ²Prairie Research Unit, Mississippi State University, ³Mississippi 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 ³, Kim K. Mullenix ⁴, Leanne L. Dillard ⁴, Russell B. Muntifering ⁴

¹Auburn University/Alabama Cooperative Extension System, ²Alabama Cooperative Extension, ³University of Tennessee, ⁴Auburn 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, Mércia Ferreira dos Santos ¹, Valéria Oliveira Apolinário ³, Gleise Medeiros da Silva ⁴, Erinaldo Viana de Freitas ¹, Nicolas DiLorenzo ⁵

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

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 ³

¹North Mississippi Research and Extension Center, Mississippi State University, ²Prairie Research Unit, Mississippi State University, ³Mississippi 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 ², Kenny Burdine ¹, Edwin Ritchey ¹ ¹University of Kentucky, ²University of Kentucky Department of Animal & Food Sciences

3:00 p.m. 191 Yield and nutritive quality of summer annual forage mixtures

Serena Thompson ¹, Leanne L. Dillard ¹, Alana Jacobson ¹, Jenny Koebernick ¹, Grey Parks ¹, Kim K. Mullenix ¹

¹Auburn University

3:15 p.m. 76 Evaluating Nitrogen Management Strategies to Improve Southern Bermudagrass Grazing Systems

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

PHYSIOLOGY II: GENOMICS

Chair: Paul Broadway, USDA-ARS, Livestock Issues Research Unit; Autumn Pickett, University of Arkansas

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 ¹
¹University 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 K. Poole ², Matt H. Poore ³, Daniel H. Poole

¹Dept of Animal Science - NC State University, ²Texas A&M University, ³NC State University, ⁴North 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-San ¹, Catherine L. Wellman ², Sarah M. West ³, Thomas B. Hairgrove ⁴, Rodolfo C. Cardoso ³, Charles R. Long ³, David G. Riley ³, Ron Randel ³, Thomas H. Welsh ⁵ ¹Texas A&M University and AgriLife Research, Department of Animal Science, ²Texas A&M AgriLife Research, ³Texas A&M University, ⁴Texas A&M AgriLife Extension, ⁵Texas A&M University; Texas A&M AgriLife Research, College Station

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 Chris Forcherio ³

¹USDA-ARS, Livestock Issues Research Unit, ²PMI, ³Purina Animal Nutrition LLC

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 ², William E. Pinchak ³

¹Texas A&M University, ²Texas A&M University; Texas A&M AgriLife Research, College Station, ³Texas A&M Agrilife

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 ², Felipe Santili ², Stefania Pancini ², Vitor RG Mercadante ³

¹Animal and Poultry Sciences, Virginia Tech, ²Virginia Tech, ³Animal and Poultry Sciences, Virginia Tech, Blacksburg, VA, USA.

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 Auburn 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, Nathan Clemson University Long ¹

Clemson 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. ³, Ricardo Chebel ¹, Nicolas DiLorenzo ⁴

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

RUMINANT ANIMAL PRODUCTION II: METABOLISM AND PHYSIOLOGY

Chair: Shane Gadberry, University of Arkansas; Morgan Pyles, University of Kentucky
1:15 PM - 4:15 PM
Ballroom 1

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 ², Jordan Adams ¹, Roberta Cracco ³, Morgan Jackson ¹, Luis O. Tedeschi ¹

¹Texas A&M University, ²Texas Tech University, ³College of Animal Science and Food Engeneering FZEA/USP

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 ¹, Shawn R. Campagna ¹, Taylor B. Ault-Seay ², Mallory M. Embree ³, Phillip R. Myer ⁴

¹University of Tennessee Knoxville, ²University of Tennessee, Knoxville, ³Ascus Biosciences, Inc., ⁴Department of Animal Science- University of Tennessee

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 ¹

¹Texas A&M University, ²Texas Tech 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 ². Luis O. Tedeschi ¹

¹Texas A&M University, ²Texas Tech 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 ², Federico Tarnonsky ³, Federico Podversich ², Mariana Eloisa Garcia-Ascolani ³, Nicolas DiLorenzo ⁴

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

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 ², Tessa M. Schulmeister ², Erick Rodrigo Silva Santos ³, Carla Sanford ⁴, Michelle C. B. Siqueira ⁵, Federico Tarnonsky ³, Nicolas DiLorenzo ⁶ ¹ASAS, ²University of Florida, ³University of Florida - North Florida Research and Education Center, ⁴Montana State University, ⁵Federal Rural University of Pernambuco, ⁶Department of Animal Sciences, North Florida Research and Education Center (NFREC), University of Florida, Marianna, FL

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 ², Andrew P. Foote ¹, Ryan R. Reuter ¹

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

4:00 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 ¹, Carrie L. Pickworth ² ¹NC State University, ²North Carolina State University

SMALL RUMINANT PRODUCTION I

Chair: Niki Whitley, Fort Valley State University; Megan Galvin, Department of Animal Science and Veterinary Technology, Tarleton 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. Ekwemalor ¹, Emmanuel K. Asiamah ², Sarah Adjei-Fremah ¹, Eboghoye ElukaOkoludoh ¹, Mulumebet Worku ³

¹North Carolina Agricultural and Technical State University, ²University of Arkansas at Pine Bluff, ³NC A&T State University

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 Dale Bumpers Small Farms Research Center, ³Katahdin Hair Sheep International, ⁴Virginia Tech, Southwest Virginia Agricultural Research and Extension Center, 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 Dale Bumpers Small Farms Research Center, 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, Scott L. Bowdridge 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, Jim E. Miller ², Mohan Acharya ³, Erin Wood ⁴

¹USDA ARS Dale Bumpers Small Farms Research Center, ²Louisiana State University,

³Department of Animal Science, University 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, Jim E. Miller ³, Charles F Rosenkrans ⁴

¹University of Arkansas, ²USDA ARS Dale Bumpers Small Farms Research Center, ³Louisiana State University, ⁴Animal and Veterinary Sciences Department, Clemson 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 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

Tuskegee 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, shailes Bhattrai ², Lila B. Karki ¹ Tuskegee 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 M. Payne ³
¹Virginia State University, ²Virginia Tech, ³Southern Piedmont Agricultural Research and Extension Center, Virginia Tech

RUMINANT ANIMAL PRODUCTION I: GROWING CATTLE

Chair: Daniel Rivera, Animal and Dairy Sciences Department Mississippi State University;
Abbigail Hlnes, Tarleton State University

1:15 PM - 4:30 PM

Rose

1:15 p.m. 164 The effects of energy and lasalocid supplementation on forage intake and energetics of cattle grazing wheat pasture

Autumn T. Pickett ¹, Beth B. Kegley ², PAUL A. BECK ³, Stacey A. Gunter ⁴
¹University of Arkansas, ²University of Arkansas Division of Agriculture, ³Oklahoma State University, Department of Animal & Food Sciences, ⁴USDA-ARS, Oklahoma and Central Plains Agricultural Research Center

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. Wilson 1, Will Ryan 1, Chris Richards 1

¹Oklahoma State University

1:45 p.m. 120 **Performance Effects on Weaned Calves using 3 Weaning Strategies and Nutritional Supplementation**

Meagan Hendricks ¹, Douglas Eborn ², Kaylee R. Kipp ¹, Caleta M. Willis ¹, Megan P. Owen ² 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. Kipp ¹, Douglas Eborn ², Megan P. Owen ²

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. Zumbaugh ¹, Adam R. Murray ¹, Taylor A. Langford ², Olivia M. Claire ¹, Thomas B. Wilson ¹

¹Department of Animal and Poultry Sciences, Virginia Tech, ²Virginia Tech

2:30 p.m. 33 Determining the feeding value of hulless barley relative to corn in beef finishing rations

Gabriel J. Pent ¹, Thomas B. Wilson ²

¹Virginia Tech, ²Department of Animal and Poultry Sciences, Virginia 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. Grigsby ¹, PAUL A. BECK ², Stacey A. Gunter ³

¹Oklahoma State University, ²Oklahoma State University, Department of Animal & Food Sciences, ³USDA-ARS, Oklahoma and Central Plains Agricultural Research Center

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 D. Shaeffer ², Johnny R. Rogers ¹

¹North Carolina State University, ²NC 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 ¹, Soren P. Rodning ¹, Kim K. Mullenix ¹, Christy L. Bratcher ³

¹Auburn University, ²Department of Animal Sciences, Auburn University, ³Texas Tech University, Department of Animal and Food Science

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, Beth B. Kegley ², Shane Gadberry ¹, PAUL A. BECK ³, Michael Sims ⁴, Cody Shelton ²

¹University of Arkansas, ²University of Arkansas Division of Agriculture, ³Oklahoma State University, Department of Animal & Food Sciences, ⁴Oklahoma State University

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 ³

¹North Mississippi Research and Extension Center, Mississippi State University, ²Prairie Research Unit, Mississippi State University, ³Mississippi 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, Beth B. Kegley ², Jermey G. Powell ¹ ¹University of Arkansas, ²University of Arkansas Division of Agriculture

Tuesday, January 28, 2020

PASTURES AND FORAGES II

Chair: Jennifer J. Tucker, University of Georgia; Sarah Montgomery-Williams, Mississippi State
University
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 ², Charles A. Zumbaugh ², Olivia M. Claire ², David A. Fiske ³, Gabriel J. Pent ¹, Thomas B. Wilson ²

¹Virginia Tech, ²Department of Animal and Poultry Sciences, Virginia Tech, ³Shenandoah 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, Leanne L. Dillard ¹, Kim K. Mullenix ¹, Russell B. Muntifering ¹, David Held ¹

¹Auburn University

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 ²

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

9:00 a.m. 58 Effects of Diploid and Tetraploid Annual Ryegrass Cultivars on Cattle Performance, Herbage Mass, and Nutritive Value

Sarah M. Montgomery-Williams ¹, Brandi B. 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, Leanne L. Dillard ², Kim K. Mullenix ², Audrey Gamble ², Russell B. Muntifering ²

¹Cargill Animal Nutrition, ²Auburn University

9:45 a.m. 89 Fermentation Kinetics of Different Cool-Season Annual Mixtures With or Without Silage Inoculant

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

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 W. Yancey ⁴ ¹Department of Animal Science, University of Arkansas, ²USDA ARS Dale Bumpers Small Farms Research Center, ³USDA-ARS, ⁴Department of Animal Science, Division of Agriculture, University of Arkansas System, Fayetteville

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 R.G Mercadante, Virginia Tech; Audrey Earnhardt-San, Texas A&M University and AgriLife Research, Department of Animal Science
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

¹University 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, Nathan Clemson University Long 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 ¹, Sherrie Clark-Deener ¹, Tracey Redifer ¹, Nicholas W. Dias ¹, Claire L. Timlin ³, Alvaro Sales ⁴, Vitor RG Mercadante ⁴ ¹Virginia Tech, ²Large animal Clinical Sciences, Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA, USA, ³Animal and Poultry Sciences, Virginia Tech, ⁴Animal and Poultry Sciences, Virginia Tech, Blacksburg, VA, USA.

9:00 a.m. 69 Effects of supplementing heifers with dietary quercetin during lateaestation

Zachary A. Hisaw ¹, Caleta M. Willis ², Kaylee R. Kipp ², Douglas Eborn ¹, Megan P. Owen ¹ ¹Texas A&M University Commerce, ²Texas A&M University-Commerce

9:15 a.m. 136 Quantitative and qualitative analysis of interferon stimulated genesMX2, OAS1, and ISG15 for detection of pregnancy in cattle

Andrea N. DeCarlo ¹, Joseph Parrish ¹, Nathan Long ¹, Nathan Clemson University Long ¹ ¹Clemson University

9:30 a.m. PHYSIOLOGY III BREAK

9:45 a.m. 181 Uterine and vaginal bacteria and cytokine profiles prior to artificial insemination between resulting pregnant and open postpartum beef cows

Rebecca K. Poole ¹, Taylor B. Ault-Seay ², Phillip R. Myer ³, Andrea S. Lear ⁴, Ky G. Pohler ¹ ¹Texas A&M University, ²University of Tennessee, Knoxville, ³Department of Animal Science-University of Tennessee, ⁴College of Veterinary Medicine, University of Tennessee

10:00 a.m. 22 Comparison of vaginal microbiome and concentrations of estradiol at artificial insemination in Brangus heifers

Riley D. Messman ¹, Zully E. Contreras-Correa ¹, Henry A. Paz ¹, George Perry ², Caleb O. Lemlev ¹

¹Mississippi State University, ²South Dakota State University

10:15 a.m. 129 Presynchronization with Prostaglandin F_{2α} and prolonged exposure to exogenous progesterone impacts estrus expression and alters fertility in beef heifers Nicky Oosthuizen ¹, Pedro Fontes ², Cliff Lamb ²

¹ABS Global, ²Texas A&M University

10:30 a.m. 106 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 ³ ¹Dept of Animal Science - NC State University, ²NC State University, ³North Carolina State University

10:45 a.m. 107 Influence of chronic melatonin supplementation on bovine testis physiology

Brittni P. Littlejohn ¹, Kayla B. Mercer ¹, Karrigan J. Bowers ¹, Riley D. Messman ², Zully E. Contreras-Correa ², Dana S. Reid ³, Jean M. Feugang ², Rhonda C. Vann ⁴, Caleb O. Lemley ² ¹Department of Animal and Dairy Sciences, Mississippi State University, Mississippi State, MS, ²Mississippi State University, ³Department of Animal and Dairy Sciences, Mississippi State University, ⁴Mississippi Agricultural and Forestry Experiment Station, Mississippi State University, Raymond, MS

SMALL RUMINANT PRODUCTION II

Chair: Richard Browning, Jr, Tennessee State University; S. Maggie Justice, Clemson
University
8:00 AM - 11:00 AM
Walker

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 A. Lakos ² ¹University of the Virgin Islands, ²University of the Virgin Islands, Agricultural Experiment Station

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 Virginia 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, Jeffery W. Semler ², Mary Beth Bennett ³, Chris Anderson ¹, Amanda M. Grev ², Maegan Perdue ¹

¹University of Maryland, ²University of Maryland Extension, ³West 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 ², Ryszard Puchala ³, Adaven Scronce ⁴, Luana Ribeiro ², Raquel Lourencoin ², Wei Wang ³, Arthur L. Goetsch ³

¹American Institute for Goat Research Langston University; Department of Animal Science, Ambo University, ²American Institute for Goat Research, Langston University, ³Langston University, ⁴American Institute for Goat Research, Langston University; Ambo University, Ambo, Ethiopia

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

9:45 a.m. 56 Effects of creep feed supplementation and sire breed on the postweaning 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 ¹, Jamie A. Boyd ¹

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 ¹, Jamie A. Boyd ¹

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 ¹, Blake K. Wilson ¹, Jerry Fitch ¹, Gretchen G. Mafi ¹, Justin Crosswhite ¹ Oklahoma State University

10:45 a.m. 146 Survey of residual feed intake in Katahdin and Texel lambs in a feedlot environment

Scott L. Bowdridge ¹, Andrew R. Weaver ¹, Eugene Felton ¹, Scott P. Greiner ², Scott A. Bowdridge ¹

¹West Virginia University, ²Virginia Tech

RUMINANT ANIMAL PRODUCTION III: REPRODUCTIVE CATTLE

Chair: Ryon Walker, Texas A&M University; Gleise Medeiros da Silva, ASAS 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 ¹, Claire Anderson ¹, Amanda Holder ², Alexi Moehlenpah ¹, Carla Goad ¹, Harvey Freetly ³, PAUL A. BECK ⁴, Eric A. DeVuyst ¹, David Lalman ¹ Oklahoma State University, ²College of the Ozarks, ³USDA, ARS, U.S. Meat Animal Research Center, ⁴Oklahoma State University, Department of Animal & Food Sciences

8:15 a.m. 188 Voluntary individual intake and performance of mature cows compared to primiparous heifers consuming a low quality forage

Amanda Holder ¹, Claire Anderson ², Megan A. Gross ², Alexi Moehlenpah ², David Lalman ² ¹College of the Ozarks, ²Oklahoma State University

8:30 a.m. 41 Effect of grazing cotton crop residue versus Bermudagrass on performance and economic parameters in late gestation beef cows

Dylan Blake B. Davis ¹, Shane R. Hernandez ², Robert Lawton Stewart ¹

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

8:45 a.m. 79 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 M. Herring ², Clay McGuire ¹, Autumn T. Pickett ¹, Eva M. Wray ¹, Chris Tucker ¹ ¹University of Arkansas, ²University of Arkansas System Division of Agriculture Department of Animal Science

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 ², Ryan R. Reuter ¹, Blake K. Wilson ¹, David Lalman ¹

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

9:30 a.m. 55 Effects of concentrate supplementation frequency and amount on growth and reproductive performance of Brangus heifers

Elizabeth A. Palmer ¹, Marcelo Vedovatto ², Juliana Ranches ³, Rhaiza A. Oliveira ⁴, John Arthington ⁵, Joao Vendramini ³, Philipe Moriel ⁶

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, IFAS – Range Cattle Research and Education Center, ⁵Department of Animal Sciences - University of Florida, ⁶University 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 A. Palmer ¹, Marcelo Vedovatto ², Juliana Ranches ³, Vinicius N. Gouvea ⁴, Rhaiza A. Oliveira ⁵, John Arthington ⁶, Joao Vendramini ³, Matt H. Poore ⁷, Philipe Moriel ⁸

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, ⁴Texas A&M, ⁵University of Florida, IFAS – Range Cattle Research and Education Center, ⁶Department of Animal Sciences - University of Florida, ⁷NC State University, ⁸University of Florida

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 Hilfiker ¹, Beth B. Kegley ², Rick W. Rorie ³, Pete A. Hornsby ¹, Jana L. Reynolds ⁴, Benjamin P. Shoulders ⁴, Reagan N. Cauble ³, Jermey G. Powell ³

¹University of Arkansas Division of Agriculture Dept. of Animal Science, ²University of Arkansas

Division of Agriculture, ³University of Arkansas, ⁴University of Arkansas System Division of Agriculture

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 A. Palmer ¹, Marcelo Vedovatto ², Juliana Ranches ³, Vinicius N. Gouvea ⁴, Rhaiza A. Oliveira ⁵, John Arthington ⁶, Joao Vendramini ³, Philipe Moriel ⁷

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11:00 a.m. 190 Fontenot Award Recipient: Winter vs. year-round supplementation of mature beef cows on feedlot performance and carcass characteristics of steer progeny Elizabeth A. Palmer ¹, Marcelo Vedovatto ², Juliana Ranches ³, Vinicius N. Gouvea ⁴, Rhaiza A. Oliveira ⁵, Matt H. Poore ⁶, John Arthington ⁷, Joao Vendramini ³, Philipe Moriel ⁸

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RUMINANT ANIMAL PRODUCTION IV: BEHAVIOR

Chair: Jhones Sarturi, Texas Tech University; Brooke Clemmons, University of Tennessee
Knoxville
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. Daigle ¹, Amanda J. Hubbard ², Xandra Meneses ², Temple Grandin ³ ¹Department of Animal Science, Texas A&M University, ²Texas A&M University, ³Colorado State University

8:15 a.m. 67 Effects of Maternal Disposition and Calf Chute Behavior at Weaning on Calf Finishing Performance

Michael Sims ¹, PAUL A. BECK ², Cyril B. Stewart ³, Cody Shelton ⁴, Reagan N. Cauble ⁵, Andrea L. Warner ¹

¹Oklahoma State University, ²Oklahoma State University, Department of Animal & Food Sciences, ³University of Arkansas SWREC, ⁴University of Arkansas Division of Agriculture, ⁵University of Arkansas

8:30 a.m. 51 **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, ²USDA, ARS, Grazinglands Research Laboratory

8:45 a.m. 155 The effect of number of cattle per pen on stocker cattle health and performance.

Kirsten A. Midkiff ¹, Brandi B. Karisch ², Amelia Woolums ²

¹Mississippi State University Animal and Dairy Sciences, ²Mississippi State University

9:00 a.m. 98 Impact of social mixing on feedlot steer eating and lying behavior Amanda J. Hubbard ¹, Jason Sawyer ², Reinaldo F. Cooke ¹, Jenny Jennings ³, Courtney L. Daigle ⁴

¹Texas A&M University, ²Texas A&M University-Kingsville, ³Texas A&M AgriLife Research, ⁴Department of Animal Science, Texas A&M University

9:15 a.m. 167 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 Oklahoma State University

9:30 a.m. RUMINANT ANIMAL PRODUCTION IV BREAK

9:45 a.m. 102 **Impact of weaning strategy on beef cow-calf behavior and activity** Molly K. Alexander ¹, Carrie L. Pickworth ¹, Mikayla Moore ², Matt H. Poore ² ¹North Carolina State University, ²NC State University

10:00 a.m. 114 Monitoring the impact of shade and housing on physiological response in finishing beef cattle during the summer months in the Southeastern United States.

Shane R. Hernandez ¹, William M. Sims ², Alexander M. Stelzleni ¹, Dylan Blake B. Davis ², Luís Fernando Glasenapp De Menezes ³, Robert W. McKee ², Robert Lawton Stewart ² ¹University of Georgia, Animal and Dairy Science, ²University of Georgia, ³Federal University of Technology

10:15 a.m. 94 Impact of a Hydrolyzed Yeast Product on Performance, Hair Coat Shedding, and Behavior of Cows Grazing Pastures Containing Endophyte-Infected Tall Fescue

Patricia L. Harrelson ¹, Rick Martin ², Brent Rogers ¹, Flint W. Harrelson ¹ ¹Morehead State University, ²Gro-Tec Inc.

10:30 a.m. 148 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 Oklahoma State University

10:45 a.m. 38 **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

11:00 a.m. 150 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 Oklahoma State University

EXTENSION

Chair: Jason Smith, Texas A&M AgriLife Extension; Madison Lee 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 ¹

¹University 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. Elmore ¹, Kim K. Mullenix ¹, Joshua B. Elmore ² ¹Auburn University, ²Alabama 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 OMOTAYO ¹, Olga Bolden -Tiller ¹, Chukewueme Okere ¹ 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. BECK ¹, Earl Ward ², Scott Clawson ², Brian Pugh ², Rodney Farris ² ¹Oklahoma State University, Department of Animal & Food Sciences, ²Oklahoma State University

9:15 a.m. 73 Engaging youth through bovine reproductive practices

Nicholas W. Dias ¹, Alvaro Sales ², Claire L. Timlin ³, Curtis Friedel ⁴, Vitor RG Mercadante ² ¹Virginia Tech, ²Animal and Poultry Sciences, Virginia Tech, Blacksburg, VA, USA., ³Animal and Poultry Sciences, Virginia Tech, ⁴Virginia Tech - Agricultural, Leadership, and Community Education

9:30 a.m. 116 Oklahoma State University Continuing Education Online Courses for Extension Educators in 2020

Alexi Moehlenpah ¹, David Lalman ¹ Oklahoma 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 L. Zook ¹, Marty New ¹, Earl Ward ¹, Brian M. Freking ¹ ¹Oklahoma State University, ²Oklahoma State University, Department of Animal & Food Sciences

10:30 a.m. 135 Public perceptions of equine processing and welfare

Kelly Melvin ¹, Liesel G. Schneider ², Jennie L. Ivey ³, Peter D. Krawczel ³

¹University of Tennessee, ²Animal Science Department, University of Tennessee Institute of Agriculture, ³University 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 B. 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

Leanne 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, Luke L. Jacobs ², Marty L. Marks ¹, Gerald L. Thompson ¹, Kim K. Mullenix

¹Alabama Cooperative Extension System, ²Clemson University, ³Auburn University

NUTRITION

Chair: Robert Lawton Stewart, University of Georgia; Kaylyn Groce, University of Georgia 10:45 AM - 11:30 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 ³, Stanley F. Kelley ¹, Marcy M. Beverly ¹, Mark Anderson ¹

¹Sam Houston State University, ²Texas Tech University, ³Texas Tech University, Department of Animal and Food Sciences

11:00 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
Sam Houston State University

11:15 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 ², Madeline E. Rivera ¹, Luiz Fernando Dias Batista ¹, Luis O. Tedeschi ¹

¹Texas A&M University, ²Texas Tech University