

SOUTHERN SECTION

American Society of Animal Science

ANNUAL MEETING

**February 2-5, 2013
Orlando, Florida**

**In conjunction with the 2013 Annual
Convention of the Southern Association
of Agricultural Scientists**

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Young Animal Scientist – Education
Alltech
Thomasville, GA

Undergraduate Paper Competition

**Graduate Student Research Abstract
Competition**

PROGRAM EVENTS

*All events will take place at the Wyndham
Orlando Resort, unless otherwise noted.*

Friday, February 1

Academic Quadrathlon (AQ)
9:00 PM Advisors Meeting
Cabot Lodge
Gainesville, FL

Saturday, February 2

AQ Lab Practicum and Written Exam
University of Florida
Gainesville, FL

Sunday, February 3

AQ Oral Preparation
6:30 AM–noon
Biscayne, Cedar, Longboat, Siesta

AQ Oral Presentation
8:00 AM–Noon
Marathon

AQ Quiz Bowl
8:00 AM–1:00 PM
Largo

AQ Quiz Bowl Championship/Awards
and Awards Program
8:00 AM–4:00 PM
Tangerine A

SCC 81: Sustainable Small Ruminant
Production IEG
8:30 AM–4:00 PM
Palms Ballroom Salon H

Registration
11:00 AM–4:00 PM
Key Rooms Foyer

SERA 41: Beef Cattle Production Using
Forages in the Southeast

1:00 PM–4:00 PM

Marathon

SAAS Board Meeting

2:30 PM–3:30 PM

Palms Ballroom Salon C

SAAS Business Meeting

4:00 PM–4:30 PM

Jasmine

SAAS Graduate Student Mixer

4:00 PM

Poolside Pavilion

SS-ASAS Advisory Committee and
Executive Committee

6:00 PM–8:00 PM

Executive Boardroom

SAAS Reception/Super Bowl Party

5:30 PM–10:00 PM

NASCAR Sports Grille (NBC Universal)

- Offsite

(Continuous Bus Shuttle will start at 5 PM)

Monday, February 4

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

Registration
7:30 AM–4:00 PM
Key Rooms Foyer

SS-ASAS Coffee Break
9:30 AM–10:30 AM

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

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

Tuesday, February 5

SAAS Board Breakfast Meeting
7:00 AM–10:00 AM
Azalea A/B

Registration
8:00 AM–Noon
Key Rooms Foyer

Graduate Student Lunch and Learn
Noon–2:00 PM
Siesta/Biscayne

Extension Luncheon
Noon–2:00 PM
Orange

SYMPOSIA AND ORAL SESSIONS

Monday, February 4

Adapting Southern U.S. Beef Production Systems to a Changing Climate

Chair: Jeff Lehmkuhler, University of
Kentucky
Marathon

8:00 AM

Introduction

J. Lehmkuhler*, *University of Kentucky, Lexington.*

8:15 AM

Climate Change and Its Impact on Agriculture.

B. Ortiz*, *Auburn University, Auburn, AL.*

8:55 AM

Managing Reproduction During Heat Stress.

P.J. Hansen*, *University of Florida, Gainesville.*

9:35 AM

Break

9:55 AM

Forage Systems for a Changing Climate.

R. Smith, Jr.*, *University of Kentucky, Lexington.*

10:35 AM

Genetic Selection for Heat Stress Related Traits.

J. Cassady*, *North Carolina State University, Raleigh.*

Undergraduate Student Competition

Chair: Rhonda K. Miller, Texas A&M
University
Largo

9:00 AM

1

Hypothalamic and Pituitary Gene Expression in Angus-Sired Steers Selected for Low and High Residual Feed Intake During Conditions of Heat Stress

S. D. Perkins^{1,*}, C. N. Key¹, C. F. Garrett¹, C. D.
Foradori², C. L. Bratcher¹, L. A. Kriese-Anderson¹,
T. D. Brandebourg¹,¹*Animal Sciences*,²*Anatomy
Physiology & Phamacology, Auburn University,
Auburn, AL.*

9:15 AM 2

Leptin is Involved in the Vascularization of the Corpus Luteum

A. Arellano^{1,*}, L. Ayala¹, M. Ramirez¹, A. Calderon¹, R. Flores¹, D. Keisler², R. Stanko¹, M. Garcia¹,
¹*Animal, Rangeland & Wildlife Sciences, Texas A&M University, Kingsville,* ²*Division of Animal Science, University of Missouri, Columbia.*

9:30 AM 3

Characterizing the Growth and Metabolic Phenotype of the Obese Mangalica Pig

C. F. Garrett^{1,*}, S. D. Perkins¹, R. H. Amin², C. L. Bratcher¹, J. L. Bartosh¹, T. D. Brandebourg¹,
¹*Animal Sciences,* ²*Pharmaceutical Sciences, Auburn University, Auburn, AL.*

9:45 AM 4

Relationship of Prenatal Transportation Stress with Postnatal Temperament of Brahman Calves

B. P. Littlejohn^{1,2,*}, D. M. Price^{1,2}, A. W. Lewis², D. A. Neuendorff², J. A. Carroll³, R. C. Vann⁴, T. H. Welsh, Jr.^{1,5}, R. D. Randel²,
¹*Animal Science, Texas A&M University, College Station,* ²*Texas A&M AgriLife Research, Texas A&M University System, Overton,* ³*Livestock Issues Research Unit, USDA-ARS, Lubbock, TX* ⁴*MAFES- Brown Loam, Mississippi State University, Raymond,* ⁵*Texas A&M AgriLife Research, Texas A&M University System, College Station.*

10:00 AM 5

Investigating the Population Structure and Genetic Diversity of Angus Cattle

R. A. Lemcke^{1,*}, R. Zanella^{1,2}, K. C. Caires¹,
¹*Department of Animal Science, Berry College, Mount Berry, GA,* ²*Genética e Melhoramento Animal, Embrapa Suínos e Aves, Concórdia, SC, Brazil.*

Graduate Student Competition

**Chair: Michelle R. Garcia, Texas A&M University - Kingsville
Tangerine A**

9:00 AM 6

Replacing Corn with Brewers Rice in Swine Diets and Effect on Performance and Carcass Quality of Growing-Finishing Pigs

T. Dokes^{*}, O. Gekara, *Agriculture, University of Arkansas, Pine Bluff.*

9:15 AM 7

Analysis of Quality of Non-Traditional vs. Traditional Beef Grind Material

S. Degeer^{*}, D. A. Tigue, C. Bratcher, *Animal Sciences, Auburn University, Auburn, AL.*

9:30 AM 8

Effects of Mannan Oligosaccharide on Beef Cow Performance and Passive Immunity Transfer to Calves

S. K. Linneen^{*}, G. L. Mourer, J. D. Sparks, D. L. Lalman, *Animal Science, Oklahoma State University, Stillwater.*

9:45 AM 9

Effect of Lactic Acid Enhancement pH on Beef Quality Attributes of Bull Strip Loins

J. Hollenbeck^{*}, J. Apple, J. W. Yancey, A. Young, C. Moon, T. Johnson, D. Galloway, *Division of Agriculture, University of Arkansas, Fayetteville.*

10:00 AM 10

Sensory Evaluation of Non-Traditional Vs. Traditional Beef Grind Sources

D. A. Tigue^{*}, S. L. Degeer, C. L. Bratcher, *Department of Animal Sciences, Auburn University, Auburn, AL.*

10:15 AM Break

10:30 AM 11

Effects of Bale Feeder Type and Supplementation of Monensin on Hay Waste, Intake, and Performance of Beef Cattle

J. D. Sparks^{1,*}, A. J. Sexten¹, C. P. McMurphy¹, G. L. Mourer¹, M. A. Brown², C. J. Richards¹, D. L. Lalman¹, ¹*Animal Science, Oklahoma State University, Stillwater,* ²*Grazinglands Research Laboratory, USDA-ARS, El Reno.*

10:45 AM 12

Effects of Increasing Metabolizable Protein Supply on the Acute Phase Response of Beef Steers Following Vaccination

P. Moriel^{*}, P. G. Martins, J. M. Vendramini, J. D. Arthington, *Range Cattle Research and Education Center, University of Florida, Ona.*

11:00 AM 13

Estrous Response and Pregnancy Rates in Beef Cows Following a 6- or 7-Day CIDR Synchronization Protocol

A. J. Davis^{*}, R. W. Rorie, J. G. Powell, T. D. Lester, E. A. Backes, B. R. Lindsey, *Animal Science, University of Arkansas, Fayetteville.*

11:15 AM 14

Sericea Lespedeza as an Aid in the Control of Eimeria Spp. in Lambs

M. Acharya^{1,*}, J. M. Burke², J. Miller³, T. Terrill⁴, J. A. Mosjidis⁵, ¹*Animal Science, University of Arkansas, Fayetteville, AR,* ²*USDA, Agricultural Research Service, Booneville, AR,* ³*Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge,* ⁴*Agricultural Research Station, Fort Valley State University, Fort Valley, GA,* ⁵*Department of Agronomy and Soils, Auburn University, Auburn, AL.*

11:30 AM 15

Glycolytic Enzymes Are Reversibly Inactivated by Decreased pH in Postmortem Skeletal Muscle

E. M. England^{1,*}, S. K. Matarneh¹, C. Wachet², M. C. Rittenhouse¹, T. L. R. Scott¹, H. Zhu¹, D. E. Gerrard¹, ¹*Animal and Poultry Sciences, Virginia Tech, Blacksburg*, ²*Animal Science, Agrocampus Ouest, Rennes, France*.

Teaching and Undergraduate Education

**Chair: Rhonda K. Miller, Texas A&M University
Largo**

11:00 AM 16

Developing a Curriculum Addressing Legal Issues in Animal Agriculture

E. Rumley¹, *Animal Science, University of Arkansas, Fayetteville*.

11:15 AM 17

Preparing to Teach an "Inherited" Animal Science Course.

D. K. Aaron¹, *Animal and Food Science, University of Kentucky, Lexington*.

Breeding and Genetics

**Chair: Trent Smith, Mississippi State University
Marathon**

1:00 PM 18

Milk Production Traits of Beef Cows as Affected by Horn Fly Numbers and Breed Type

A. Mays^{1,*}, M. A. Brown², S. M. Clifton³, C. F. Rosenkrans, Jr.¹, ¹*Animal Science, University of Arkansas, Fayetteville, AR*, ²*Grazinglands Research Laboratory, USDA-ARS, El Reno, OK*, ³*Animal Science, Oklahoma State University, Stillwater, OK*.

1:15 PM 19

Estimation of Genetic Parameters in Berkshire Population Reared in a Hoop Structure

S.-H. Oh¹, *Dept. of Animal Sciences, North Carolina A&T State University, Greensboro*.

1:30 PM 20

Influence of Body-Weight of Cows on Weaning Weight of Calves in Two Lines of Angus Cattle in Alabama

D. Kuhlers^{1,*}, K. Nadarajah¹, G. L. Thompson², B. E. Norris³, H. E. Harkins³, ¹*Animal Sciences, Auburn University, Auburn, AL*, ²*Regional Office, Alabama Cooperative Extension*, ³*Experiment Station, Tennessee Valley Research and Extension Center, Belle Mina*.

1:45 PM 21

Eye Pigmentation in Hereford, Hereford X Bos Taurus or Hereford X Bos Indicus Cows and Calves

K. Davis ^{1,*}, T. Smith ², J. D. Arthington ³, N. DiLorenzo ⁴, B. Bolt ⁵, M. D. Garcia ⁶, J. G. Powell ⁷, D. L. Lalman ⁸, G. R. Hansen ⁹, R. C. Vann ¹⁰, S. Meadows ¹¹, D. G. Riley ¹, ¹*Department of Animal Science, Texas A&M University, College Station,* ²*Department of Animal and Dairy Sciences, Mississippi State University, Starkville,* ³*Range Cattle Research and Education Center, University of Florida, Ona,* ⁴*North Florida Research and Education Center, University of Florida, Marianna,* ⁵*Department of Animal and Veterinary Science, Clemson University, Clemson, SC,* ⁶*Department of Animal Sciences, Louisiana State University, Baton Rouge,* ⁷*Department of Animal Science, University of Arkansas, Fayetteville,* ⁸*Department of Animal Science, Oklahoma State University, Stillwater,* ⁹*Department of Animal Science, North Carolina State University, Plymouth,* ¹⁰*MAFES-Brown Loam, Mississippi State University, Raymond,* ¹¹*Cooperative Extension Service, Clemson University, Clemson, SC.*

2:00 PM 22

Balking Behavior in Cattle: Breed-Type Predominance Based on Coat Color and Carcass Implications

M. L. Thomas ^{1,*}, Y. V. Thaxton ², A. H. Brown, Jr ¹, K. E. Pfalzgraf ¹, K. S. Anschutz ¹, C. F. Rosenkrans, Jr ¹, ¹*Animal Science,* ²*Center for Food Animal Wellbeing, University of Arkansas, Fayetteville.*

2:15 PM Break

2:30 PM 23

Evaluation of a Hair Coat Scoring System for Winter Growth and Relationship to Performance of Angus Dams

S. Plank ^{1,*}, N. B. Simmons ¹, M. L. Marks ¹, S. T. Willard ², T. Smith ¹, ¹*Animal and Dairy Sciences,* ²*Biochemistry and Molecular Biology, Mississippi State University, Starkville.*

2:45 PM 24

Relationship of Heifer Pubertal Status to LDHB Single Nucleotide Polymorphisms

C. Turner ^{1,*}, A. H. Brown ¹, D. Hallford ², B. R. Lindsey ¹, J. L. Reynolds ¹, J. G. Powell ¹, C. F. Rosenkrans ¹, ¹*Division of Agriculture, University of Arkansas, Fayetteville,* ²*Animal and Range Sciences, New Mexico State University, Las Cruces.*

3:00 PM 25

Association of Newborn Calf Cannon Bone Length with Preselected SNP Chosen Based on Proximity to Genes with Suspected Influence

D. G. Riley ¹, T. H. Welsh, C. A. Gill, L. L. Hulsman, A. D. Herring, P. K. Riggs, J. E. Sawyer, J. O. Sanders, *Animal Science, Texas A&M University, College Station.*

3:15 PM 26

Effect of Genetic Markers for Marbling on Performance in Angus Females

L. L. Jury*, R. C. Vann, T. Smith, *Animal and Dairy Sciences, Mississippi State University, Mississippi State.*

3:30 PM 27

Single Nucleotide Polymorphisms of LDHB and Effects on Immune Response

C. M. Turner*, A. H. Brown, M. L. Thomas, K. S. Anschutz, J. A. Hornsby, B. R. Lindsey, J. G. Powell, C. F. Rosenkrans, *Division of Agriculture, University of Arkansas, Fayetteville.*

Meat Science

**Chair: Chad Carr, University of Florida
Hibiscus**

1:00 PM 28

Consumer Acceptability of Commercially-Available Domestic Grass-Fed and Grain-Fed Beef

C. Strong*, L. Stewart, D. Johnson, L. Eubanks, C. Carr, *Animal Sciences, University of Florida, Gainesville.*

1:15 PM 29

Feeding a Commercially-Available By-Product Ration Increases Value of Culled Cows

C. Carr*, J. Savell, D. Johnson, M. Hersom, T. Thrift, *Animal Sciences, University of Florida, Gainesville.*

1:30 PM 30

Effect of Packaging Type, Storage Time and Temperature and the Effect of Steak Location on Palatability of Center Cut Gluteus Medius

A. G. Osterhout*, D. D. Johnson, C. Carr, *Animal Science, University of Florida, Gainesville.*

1:45 PM 31

Effect of Packaging Type, Storage Time and Temperature on the Beef Longissimus Lumborum and Triceps Brachii Muscles

A. G. Osterhout*, D. D. Johnson, C. Carr, *Animal Science, University of Florida, Gainesville.*

2:00 PM 32

Metabolic Profiling of Ground Beef Samples from Various Grind Sources and Correlation to Sensory Evaluation

T. Jiang, *Animal Sciences, Auburn University, Auburn, AL.*

2:15 PM 33

Oxidative Stability During Ripening and Storage of Rosemary Treated Fermented Lamb Sausages

G. Davila El Rassi, A. Al-Sakini, V. Banskalieva, A. Lathrop, T. Bowser, *Food and Agricultural Products Center, Oklahoma State University, Stillwater.*

Ruminant Animal Production I

Chair: Russell B. Muntifering, Auburn
University
Largo

1:00 PM 34

Application of Fecal Near Infrared Reflectance Spectroscopy Profiling to Predict Voluntary Intake in Beef Cattle

J. Johnson^{1,*}, G. Carstens¹, A. Hafli¹, S. Prince², D. Forbes³, K. Ominski⁴, K. Wittenberg⁴, M. Undi⁴, D. Tolleson⁵,¹*Department of Animal Science, Texas A&M University, College Station*,²*Department of Rangeland Ecology, Texas Agrilife Research, Temple*,³*Department of Rangeland Ecology, Texas Agrilife Research, Uvalde*,⁴*Department of Animal Science, University Of Manitoba, Winnipeg, Canada*,⁵*Department of Natural Resources and the Environment, University of Arizona, Camp Verde*.

1:15 PM 35

Effect of Early Weaning and Diet on Age at Puberty in Bos Indicus Influenced Heifers

L. Ayala^{1,*}, A. Calderon¹, F. Xie¹, M. A. Ramirez¹, A. Arellano¹, M. R. Garcia¹, R. L. Stanko^{1,2},¹*Animal, Rangeland, & Wildlife Sciences, Texas A&M University, Kingsville*,²*Animal Reproduction Laboratory, Texas A&M AgriLife Research, Beeville*.

1:30 PM 36

Residual Feed Intake and Body Weight Gain and Its Relationships with Carcass, Non Carcass Characteristics and Meat Quality of Nellore Steers

M. Lopes Do Nascimento^{1,*}, A. Saturnino Chaves¹, A. R. Duarte Lopes Souza², R. R. Tullio³, M. Mello de Alencar⁴, G. Carstens⁵, D. Pazzanese Duarte Lanna¹,¹*Animal Science, University of Sao Paulo, Piracicaba, Brazil*,²*Animal Science, Universidade Federal Rural de Pernambuco, Recife, Brazil*,³*Animal Nutrition*,⁴*Animal Breedings, Embrapa Pecuaria Sudeste, São Carlos, Brazil*,⁵*Animal Science, Texas A&M, College Station*.

1:45 PM 37

Crude Glycerin Decreases Production and Quality of Particle-Associated Bacteria from Bovine Ruminant Content

E. H. C. B. Van Cleef^{1,*}, J. M. B. Ezequiel², A. C. Homen Junior², F. B. O. Scarpino²,¹*Animal Science and Industry, Kansas State University, Manhattan*,²*Animal Science, São Paulo State University, Jaboticabal, Brazil*.

2:00 PM 38

Effect of Stocking Density on Cattle Behavior During Transport

L. L. Jury^{1,*}, J. A. Parish¹, R. C. Vann¹, T. Smith¹, J. K. Ward², H. T. Boland¹,¹*Animal and Dairy Sciences*,²*Agricultural and Biological Engineering, Mississippi State University, Mississippi State*.

Tuesday, February 5

Pastures and Forages

Chair: Guillermo Scaglia, LSU AgCenter
Palms Ballroom C

8:00 AM 39

Sward Responses of Rhizoma Peanut Genotypes Under a Range of Grazing Management Strategies

K. Mullenix^{1,*}, L. Sollenberger¹, D. Rowland¹, A. Blount¹, J. Vendramini¹, M. Silveira², A. Vaccaro¹,
¹*Agronomy, ²Soil Science, University of Florida, Gainesville.*

8:15 AM 40

Animal Preference for Winter Annual Legumes Overseeded Into Bermudagrass Pastures over Two Growing Seasons

S. Freeman^{*}, M. Poore, A. Shaeffer, *Animal Science, North Carolina State University, Raleigh.*

8:30 AM 41

Evaluation of Early Weaned Beef Calves Grazing Annual Ryegrass or Annual Ryegrass-Triticale Mixtures in South Florida

J. M. Vendramini^{1,*}, J. D. Arthington¹, A. Blount², A. D. Aguiar¹, P. Moriel¹, R. S. Hallworth¹,¹*UF/IFAS Range Cattle Research and Education Center, University of Florida, Ona, ²UF/IFAS North Florida Research and Education Center, University of Florida, Marianna.*

8:45 AM 42

Grazing Behavior of Heifers Grazing Mixed, Adjacent or Monoculture Pastures of Ryegrass and Clovers

G. Scaglia^{1,*}, H. T. Boland²,¹*Iberia Research Station, LSU AgCenter, Jeanerette, ²Prairie Unit, Mississippi State University, Prairie.*

9:00 AM 43

Additivity of Stacked Technologies in Stocker Cattle

R. Reuter^{1,*}, D. Dhuyvetter², D. Hufstedler³,
¹*Agriculture Division, The Noble Foundation, Ardmore, OK, ²Research Dept., Ridley, Inc., Mankato, MN, ³Technical Services, Elanco Animal Health, Guthrie, OK.*

9:15 AM 44

Forage Productivity, Phosphorus Uptake and Soil Phosphatase Activity in a Cool-Season Pasture as Influenced by Nitrogen Fertilization

S. L. Dillard^{1,*}, W. F. Owsley¹, C. W. Wood², B. H. Wood², C. J. Weissend¹, R. B. Muntifering¹,¹*Animal Sciences, ²Agronomy and Soils, Auburn University, Auburn University.*

9:30 AM Break

9:45 AM 45

Effect of Grazing Legume or Grass Forages with or without Corn Supplementation on Animal Performance and Meat Quality of Forage-Finished Beef

A. Wright^{*}, J. Andrae, M. Miller, P. Gunter, C. Rosso, E. Pavan, S. Duckett^{*} *Animal and Veterinary Sciences, Clemson University, Clemson.*

10:00 AM 46

Proteolysis Inhibiting Polyphenol Oxidase Present in Perennial Peanut

M. Sullivan¹, J. Foster^{2,*},¹*U.S. Dairy Forage Research Center, Agricultural Research Service, U.S. Department of Agriculture, Madison,* ²*Texas A&M AgriLife Research, Beeville.*

10:15 AM 47

Level of Forage Allocation and Protein Tubs Influence Forage Utilization and Pasture Productivity in Heifers Grazing Stockpiled Tall Fescue

M. H. Poore^{1,*}, A. D. Shaeffer¹, S. R. Freeman¹, D. H. Poole¹, G. R. Hansen¹, M. L. Alley¹, C. S. Whisnant¹, M. E. Drewnoski²,¹*Animal Science, North Carolina State University, Raleigh,* ²*Animal Science, University of Idaho, Moscow.*

10:30 AM 48

Effect of Cow-Size and Stocking Rate on Calf Growth, Hay Requirements and Cow Herd Efficiency

P. Beck¹, B. Stewart², H. Gray², S. Gadberry³,¹*Department of Animal Science,* ²*SWREC, University of Arkansas, Hope,* ³*Cooperative Extension Service, University of Arkansas, Little Rock.*

10:45 AM 49

Toxic Tall Fescue Exposure Timing Negatively Affects Reproductive Success in Two and Three Year Old Beef Cows

M. G. Burns¹, J. G. Andrae^{2,*}, M. C. Miller¹, F. N. Schrick³, S. L. Pratt¹,¹*Dept. of Animal and Vet Science,* ²*School of Ag Forestry and Environmental Sciences, Clemson University, Clemson, SC,* ³*Dept of Animal Science, University of Tennessee, Knoxville.*

11:00 AM 50

Feeding Ergot Alkaloids to Gestating Ewes Reduces Lamb Weight, Organ Size and Muscle Mass

S. K. Duckett^{1,*}, T. A. Burns¹, M. C. Miller¹, K. J. Mercer¹, M. G. Burns¹, J. G. Andrae¹, F. N. Schrick², S. L. Pratt¹,¹*Animal and Veterinary Sciences, Clemson University, Clemson, SC,* ²*Animal Science, University of Tennessee, Knoxville.*

Physiology

Chair: Mark J. Estienne, Virginia Tech
Tidewater AREC
Tangerine A

8:00 AM 51

Emerging Young Scholar: Effect of Ergot Alkaloids from Endophyte-Infected Tall Fescue on Ruminal Vasculature, Blood Flow, and Nutrient Absorption

A. P. Foote*, *University of Kentucky, Lexington.*

8:30 AM 52

Emerging Young Scholar: Characterization of the Interactions between Porcine Reproductive and Respiratory Syndrome Virus and Its Intracellular Environment

J. Hicks, *North Carolina State University, Raleigh.*

9:00 AM 53

Does Sex of Littermate Affect Reproductive Performance of Ewes?

J. A. Brown^{1,*}, D. P. Kirschten², G. S. Lewis²,
¹*Department of Biology, Wingate University, Wingate, NC,* ²*USDA, Agricultural Research Service, U.S. Sheep Experiment Station, Dubois, ID.*

9:15 AM 54

Effect of Dietary Menhaden Fish Oil (MFO) on Growth Performance in Gilts Farrowed by Sows Fed Gestation and Lactation Diets with or without MFO

M. J. Estienne*, A. F. Harper, *Tidewater Agricultural Research and Extension Center, Virginia Tech, Suffolk.*

9:30 AM 55

Effect of Citrus Pulp on the Viability of the Probiotic *Saccharomyces Cerevisiae* Boulardii and Subsequent Effects in Presence of Pathogens

J. R. Donaldson^{1,*}, J. A. Carroll², T. C. McLaurin¹, N. C. Burdick Sanchez², ¹*Biological Sciences, Mississippi State University, Mississippi State,* ²*Livestock Issues Research Unit, USDA-ARS, Lubbock, TX.*

9:45 AM Break

10:00 AM 56

Prenatal Transportation and Immune Indices in Neonatal and Growing Brahman Calves

D. M. Price^{1,2,*}, B. P. Littlejohn^{1,2}, D. Neuendorff², A. W. Lewis², N. C. Burdick Sanchez³, J. A. Carroll³, R. C. Vann⁴, S. D. Lawhon⁵, T. H. Welsh, Jr.¹, R. D. Randel², ¹*Animal Science, Texas A&M University, College Station,* ²*Texas A&M Agrilife Research, Texas A&M University System, Overton,* ³*Livestock Issues Research Unit, USDA-ARS, Lubbock, TX,* ⁴*MAFES-Brown Loam, Mississippi State University, Raymond,* ⁵*Veterinary Pathobiology, Texas A&M University, College Station.*

10:15 AM 57

Changes in Immune Indices in Response to Primary Vaccination in Weaned Brahman Calves Exposed to Prenatal Transportation

N. C. Burdick Sanchez^{1,*}, D. M. Price², J. A. Carroll¹, B. P. Littlejohn², D. A. Neuendorff², A. W. Lewis², R. C. Vann³, S. D. Lawhon⁴, T. H. Welsh, Jr.⁴, R. D. Randel², ¹*Livestock Issues Research Unit, USDA-ARS, Lubbock, TX*, ²*Texas A&M AgriLife Research, Texas A&M University, Overton*, ³*MAFES-Brown Loam, Mississippi State University, Raymond*, ⁴*Texas A&M AgriLife Research, Texas A&M University, College Station*.

10:30 AM 58

Circulating Concentrations of NEFAS as Mediators of the Innate Immune Response in Cattle

N. C. Burdick Sanchez^{1,*}, J. A. Carroll¹, J. R. Donaldson², J. O. Buntyn³, T. B. Schmidt⁴, ¹*Livestock Issues Research Unit, USDA-ARS, Lubbock*, ²*Department of Biological Sciences, Lubbock*, ³*Department of Animal and Dairy Sciences, Mississippi State University, Mississippi State*, ⁴*Department of Animal Science, University of Nebraska, Lincoln*.

10:45 AM 59

National Pork Board Swine Industry Award for Innovation: Novel Use of Lipid-Producing Bacteria to Increase Circulating Triglycerides in Swine

J. R. Donaldson^{1,*}, J. A. Carroll², T. B. Schmidt³, T. R. Callaway⁴, J. Grissett¹, N. C. Burdick Sanchez², ¹*Biological Sciences, Mississippi State University, Mississippi State*, ²*Livestock Issues Research Unit, USDA-ARS, Lubbock, TX*, ³*Animal Sciences, University of Nebraska, Lincoln*, ⁴*Food and Feed Safety Research Unit, USDA-ARS, College Station*.

Extension I

**Chair: Jeffrey W. Lehmkuhler, University of Kentucky
Largo**

9:00 AM 60

Efficacy of Concurrent Use of Fenbendazole and Ivermectin versus Ivermectin Alone on Parasite Egg Count and Performance of Beef Steers

R. S. Wells, R. Reuter, *Agriculture, Noble Foundation, Ardmore, OK*.

9:15 AM 61

Effect of Injection Site Protocol on Efficacy of a Modified-Live Virus Respiratory Vaccine and Injectable Anthelmintic Administered to Beef Cattle

J. G. Powell^{1,*}, J. T. Richeson², E. B. Kegley¹, J. L. Reynolds¹, J. A. Hornsby¹, ¹*Department of Animal Science, University of Arkansas, Fayetteville,* ²*Department of Agricultural Sciences, West Texas A & M University, Canyon.*

9:30 AM 62

Characteristics of Drought Stressed Corn Silage

J. Lehmkuhler^{1,*}, W. Burris¹, C. Lee², ¹*Animal and Food Sciences,* ²*Plant and Soil Sciences, University of Kentucky, Lexington.*

9:45 AM 63

Southern Carcass Improvement Project

T. Brink^{1,*}, M. Gardiner², L. Corah³, ¹*Vice President, J&F Oklahoma Holdings, Inc., Greeley, OK,* ²*Owner, Gardiner Angus Ranch, Ashland, KS,* ³*Animal Science, Kansas State University, Manhattan.*

10:00 AM Break

10:15 AM 64

Population and Price Differences for Sale Barn Marketed Calves in 2000, 2005, and 2010 due to Genetically Influenced Phenotype

M. S. Gadberry, T. R. Troxel, *Animal Science, University of Arkansas, Little Rock.*

10:30 AM 65

Population and Price Differences for Sale Barn Marketed Calves in 2000, 2005, and 2010 due to Management Influenced Phenotype

M. S. Gadberry, T. R. Troxel, *Animal Science, University of Arkansas, Little Rock.*

10:45 AM 66

The Southeast Cattle Advisor: an Integrated Educational Program

L. Stewart^{1,*}, R. C. Lacy², J. W. Prevatt³, G. C. Lamb⁴, D. E. Mayo⁵, B. Beer⁶, ¹*Animal and Dairy Science, The University of Georgia, Athens,* ²*Agricultural and Applied Economics, The University of Georgia, Tifton,* ³*Agricultural Economics and Rural Sociology, Auburn University, Auburn, AL* ⁴*Animal Sciences,* ⁵*Jackson County Extension, University of Florida, Marianna,* ⁶*Clemson University Extension, Clemson University, Lancaster.*

11:00 AM 67

The Kentucky Beef Leadership Program: Empowering Industry Leaders to Shape Educational Programming

L. Anderson^{1,*}, K. D. Bullock¹, J. W. Lehmkuhler¹, W. R. Burris², ¹*Animal & Food Science, University of Kentucky, Lexington,* ²*Animal & Food Science, University of Kentucky, Princeton.*

11:15 AM 68

**Deep South Stocker Conference: Multi-State
Extension Programming for Stocker Cattle
Operators across the Southeast**

B. B. Karisch^{1,*}, L. L. Jury¹, J. A. Parish¹, R. L. Stewart², D. Rankins, Jr³, ¹*Animal and Dairy Science Department, Mississippi State University, Mississippi State,* ²*Animal Science, University of Georgia, Athens,* ³*Animal Science, Auburn University, Auburn, AL.*

Small Ruminant Production

**Chair: Kenneth M. Andries, Kentucky State
University
Palms Ballroom D**

9:00 AM 69

**Parasite Management Practices and Anthelmintic
Resistance in Alpaca Herds in the Mid-Atlantic
Region - a Survey**

S. Wildeus^{1,*}, A. Zajac², ¹*Agricultural Research Station, Virginia State University, Petersburg,* ²*Department of Biomedical Sciences & Pathobiology, Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg.*

9:15 AM 70

**Gastro-Intestinal Parasitic Infestation in Bucks on
Performance Test and Its Relationships with
Production Traits**

K. Nadarajah^{1,*}, S. Schoenian², M. Penick³, D. L. Kuhlers¹, ¹*Animal Sciences, Auburn University, Auburn, AL* ²*Extension Office, University of Maryland, Keedysville,* ³*Livestock Division, Kerr Center, Poteau, OK.*

9:30 AM 71

**Sericea Lespedeza Alters Trace Mineral Status of
Lambs and Haemonchus Contortus**

J. Burke^{1,*}, J. Miller², T. Terrill³, M. Acharya⁴, S. Orlik², J. Garza², ¹*USDA, ARS, Booneville,* ²*School of Veterinary Medicine, LSU, Baton Rouge,* ³*Agricultural Research Station, FVSU, Fort Valley, GA,* ⁴*Animal Science, University of Arkansas, Fayetteville.*

9:45 AM 72

**Sericea Lespedeza Affects Serum Concentrations
of Trace Minerals in Small Ruminants**

J. Burke^{1,*}, J. Miller², T. Terrill³, S. Orlik², J. Garza², ¹*USDA, ARS, Booneville,* ²*School of Veterinary Medicine, LSU, Baton Rouge,* ³*Agricultural Research Station, FVSU, Fort Valley, GA.*

10:00 AM 73

**Evaluation of Producer Submitted Meat Goat
Performance Data**

K. Andries^{*}, *Food and Animal Science, Kentucky State University, Frankfort.*

10:15 AM Break

10:30 AM 74

Summer Annual Grasses for Meat Goats

J.-M. Luginbuhl*, J. P. Mueller, *Crop Science, North Carolina State University, Raleigh.*

10:45 AM 75

Fatty Acid Profile and Lipid Oxidation of Meat Goat Fed Varying Levels of Pine Bark

B. R. Min*, S. Solaiman, N. Gurung, E. Taha, *Animal and Poultry science, Tuskegee University, Tuskegee, AL.*

11:00 AM 76

Corn Gluten Feed Supplementation Effects on Growth and Intake in Hair Sheep Lambs Fed Hay-Based Diets

S. Wildeus^{1,*}, C. D. Teutsch^{2, 1}, *Agricultural Research Station, Virginia State University, Petersburg,*
²*Southern Piedmont Agricultural Research and Extension Center, Virginia Tech, Blackstone.*

11:15 AM 77

Residual Frying Oil Reduces Fiber Digestibility of Feedlot Sheep

F. B. O. Scarpino^{1,*}, J. M. B. Ezequiel¹, E. H. C. B. van Cleef^{2, 1}, *Animal Science, Sao Paulo State University, Jaboticabal, Brazil,*²*Animal Science and Industry, Kansas State University, Manhattan.*

Ruminant Animal Production II

**Chair: Russell B. Muntifering, Auburn University
Tangerine A**

1:00 PM 78

Impact of Protein Supplementation and/or Increased Forage Allowance on Growth and Reproductive Performance of Replacement Heifers

D. H. Poole^{1,*}, A. Shaeffer¹, S. Freeman¹, G. Hansen¹, M. Alley², S. Whisnant¹, M. Poore¹,
¹*Animal Science,*²*Population Health and Pathobiology, North Carolina State University, Raleigh.*

1:15 PM 79

Effect of Supplement Level on Adaptation to Dried Distillers Grains in a Round Bale Silage Based Diet for Beef Steers

E. Alava, M. Hersom*, J. Yelich, *Animal Sciences, University of Florida, Gainesville.*

1:30 PM 80

Effects of Different Calf Management Systems Following Early-Weaning on Growth Performance of Beef Calves

P. Moriel*, P. G. Martins, A. D. Aguiar, J. M. Vendramini, J. D. Arthington, *Range Cattle Research and Education Center, University of Florida, Ona.*

1:45 PM 81

Evaluation of High Moisture and Dry Feed Both with and without Hay Fed to Weaned Calves Subjected to Transportation Shrink.

D. Rankins, Jr., J. Starnes, *Animal Sciences, Auburn University, Auburn, AL.*

2:00 PM 82

Effects of Copper Oxide Bolus Administration on Productivity and Copper Status in Grazing Beef Calves Supplemented with Dried Distillers Grains

J. Hawley, E. B. Kegley, J. G. Powell, J. M. Bauer, J. A. Hornsby, J. L. Reynolds, D. L. Galloway, *Department of Animal Science, University of Arkansas, Fayetteville.*

2:15 PM 83

Finishing Steers with Corn or Soybean Hulls on Ryegrass Pastures

G. M. Hill^{1,*}, R. C. Lacy², G. W. Stone¹, D. R. Tillman¹, A. N. Franklin¹, ¹*Animal and Dairy Science, Agricultural Economics, The University of Georgia, Tifton.*

2:30 PM 84

The Effects of Stocker-Phase Implant Strategies on Subsequent Feedlot Performance and Carcass Characteristics

D. O. Alkire*, R. R. Reuter, *Agricultural Division, The Samuel Roberts Noble Foundation, Ardmore, OK.*

Extension II

**Chair: Jeffrey W. Lehmkuhler, University of Kentucky
Largo**

2:00 PM 85

Misconceptions that Lead to Straightbreeding in Commercial Beef Cattle Operations

D. Bullock*, L. Anderson, J. Lehmkuhler, R. Burris, *Animal and Food Sciences, University of Kentucky, Lexington.*

2:15 PM 86

Performance of Beef Calves Fed Supplements Containing Glycerin

R. Burris*, J. Lehmkuhler, J. Randolph, *Animal and Food Sciences, University of Kentucky, Princeton.*

2:30 PM 87

The Junior Beef Excellence Program and Comparison of Carcass Characteristics from Southern Oklahoma Show Steers versus the Commercial Beef Industry

B. Nichols^{1,*}, R. Reuter¹, F. Schmedt¹, S. Ingram¹, L. McDaniel², ¹*Agriculture Division, The Samuel Roberts Noble Foundation,* ²*Oklahoma Cooperative Extension Service, Oklahoma State University, Ardmore, OK.*

2:45 PM 88

**Beef Cattle Herd Health and Operation Facilities
Interactive Video Short Courses**

J. A. Parish¹, B. B. Karisch¹, C. L. Huston², S. Hankins³, L. L. Jury^{1,*}, ¹*Animal and Dairy Sciences, College of Veterinary Medicine, Extension Center for Technology Outreach, Mississippi State University, Mississippi State.*

3:00 PM 89

Hands-On Workshops Spark Interest in North Carolina Beef Producers

M. H. Poore, S. R. Freeman, M. L. Alley, J. L. Etheridge, A. D. Shaeffer^{*}, *Animal Science, North Carolina State University, Raleigh.*

3:15 PM 90

Impact of a Wild Game Safety and Processing Program on Attendee Food Safety, Quality, and Processing Knowledge

D. Griffing^{1,*}, M. Cheshire¹, S. Talley², C. Carr¹, D. Johnson¹, L. Eubanks¹, ¹*Animal Sciences, University of Florida, Gainesville, Florida Fish and Wildlife Conservation Commission, Florida Fish and Wildlife Conservation Commission, Tallahassee.*