SOUTHERN SECTION

American Society of Animal Science

ANNUAL MEETING

February 4–8, 2006
Orlando, Florida

In conjunction with the 103rd
Annual Convention of the Southern Association of Agricultural Scientists
AMERICAN SOCIETY OF ANIMAL SCIENCE
OFFICERS
2005-2006

Dr. David S. Buchanan, President
Oklahoma State University
Stillwater, OK

Dr. Maynard G. Hogberg, President-Elect
Iowa State University
Ames, IA

Dr. James R. Males, Past President
Oregon State University
Corvallis, OR

Dr. James W. Oltjen, Program Chair
University of California
Davis, CA

Dr. Ronnie D. Green, Recording Secretary
USDA-ARS
Beltsville, MD

Paula P. Schultz, Interim Executive Director
American Society of Animal Science
Savoy, IL

2005-2006 ASAS SOUTHERN SECTION OFFICERS

Dr. Ronald D. Randel, President
Texas A&M University
Overton, TX

Dr. Dale A. Coleman, President-Elect
Auburn University
Auburn, AL

Dr. Chadwick C. Chase, Jr., Secretary-Treasurer
USDA, ARS, STARS
Brooksville, FL

Dr. Elizabeth B. Kegley, Secretary-Treasurer-Elect
University of Arkansas
Fayetteville, AR

Dr. Kenneth L. Esbenshade, Past President
North Carolina State University
Raleigh, NC
Award Sponsors
2006 Southern Section ASAS

The Southern Section of the American Society of Animal Science expresses appreciation to the following organizations for financial assistance:

**Swine Industry Award for Innovation**  
National Pork Board  
Des Moines, IA

**Young Animal Scientist – Research**  
Elanco Animal Health  
Greenfield, IN

**Extension Award**  
Boehringer Ingelheim, Vetmedica Division  
St. Joseph, MO

**Young Animal Scientist – Education**

**Undergraduate Paper Competition**

**Graduate Student Awards Competition**
PROGRAM EVENTS

Friday, February 3
Academic Quadrathlon (AQ)
9:00 pm: Advisor’s Meeting Gainesville, FL

Saturday, February 4
AQ Lab Practicum
8:00 am - Noon Gainesville, FL

AQ Written Exam
1:00 - 5:00 pm Gainesville, FL

Sunday, February 5
AQ Quiz Bowl
8:00 am - noon Tangerine A, Paradise

AQ Oral Presentations
8:00 am - noon Ormond, Venice, Dayonta, Madeira

Registration
11:00 - 5:00 pm Palms Ballroom Foyer

AQ Quiz Bowl Championship & Awards Program
2:00 - 3:30 pm Siesta/Biscayne

ARPAS Exam
3:00 - 5:00 pm Coquina

Information Exchange Groups:
IEG-72 Enhancing Reproduction in Cattle - Rhonda Vann, President
1:00 - 4:00 pm Clearwater

IEG-75 Strategies for Southern Forages - Gary Hill, President
1:00 - 4:00 pm Marathon & Cedar

IEG - Small Ruminant Production - Sam Jackson, President
1:00 - 4:00 pm Cocoa

SAAS Opening Symposium
4:00 - 6:00 pm Citrus Ballroom, Orange/Lemon

ASAS Southern Section Advisory Committee/Executive Committee
6:00 - 8:00 pm Coquina
Monday, February 6

Registration
7:00 am - Noon  Palms Ballroom
Foyer

ARPAS Exams
10:00 - noon  Paradise

Undergraduate Student Competition
8:00 - 10:00 am  Lime

Graduate Student Paper Competition I
10:15 am - Noon  Lime

Registration
1:00 - 4:00 pm  Palms Ballroom
Foyer

ARPAS Exams
2:00 - 4:00 pm  Ormond

Graduate Student Paper Competition II
1:00 - 3:15 pm  Lime

Breeding and Genetics
1:00 - 2:15 pm  Largo

Physiology I
1:00 - 5:00 pm  Orange

Ruminant Animal Production I
1:00 - 4:15 p.m.  Siesta/Biscayne

Pastures and Forages I
1:15 - 2:15 p.m.  Cocoa

Pastures and Forages II
2:30 - 3:30 p.m.  Cocoa

Business Meeting
5:00 - 7:00 pm  Orange

Small Ruminant Subcommittee of the NAGP
7:00 - 9:00 pm  Palms Ballroom
Salon B

Tuesday, February 7

Registration
8:00 - noon  Palms Ballroom
Foyer

Meats I
8:00 - 9:30 am  Tangerine B

Small Ruminant Production
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 12:15 pm</td>
<td>Siesta/Biscayne</td>
</tr>
<tr>
<td>Extension I</td>
<td></td>
</tr>
<tr>
<td>8:30 - 11:30 am</td>
<td>Orange</td>
</tr>
<tr>
<td>Physiology II</td>
<td>Marathon &amp; Cedar</td>
</tr>
<tr>
<td>8:30 - 11:15 am</td>
<td></td>
</tr>
<tr>
<td>Extension Luncheon</td>
<td>Oleander B</td>
</tr>
<tr>
<td>Noon - 2:00 pm</td>
<td></td>
</tr>
<tr>
<td>Meats II</td>
<td>Orange</td>
</tr>
<tr>
<td>1:00 - 5:00 pm</td>
<td></td>
</tr>
<tr>
<td>Physiology III</td>
<td>Marathon &amp; Cedar</td>
</tr>
<tr>
<td>1:00 - 4:45</td>
<td></td>
</tr>
<tr>
<td>Ruminant Animal Production II</td>
<td>Tangerine B</td>
</tr>
<tr>
<td>1:00 - 5:00 pm</td>
<td></td>
</tr>
<tr>
<td>Extension II</td>
<td>Siesta/Biscayne</td>
</tr>
<tr>
<td>2:15 - 4:15 pm</td>
<td></td>
</tr>
</tbody>
</table>
SYMPOSIA and ORAL SESSIONS

Undergraduate Student Competition
Chair: A. Hayden Brown,
University of Arkansas, Fayetteville
Monday 8:00 - 10:00

1  8:00 AM  Estrus detection in gilts using digital infrared thermal imaging. D. Sykes*, A. Chromiak, S. Couvillion, P. Gerard, M. Crenshaw, S. Willard, and P. Ryan, Mississippi State University, Mississippi State.


3  8:30 AM  The effect of breed type on real-time ultrasound carcass traits, performance and pelvic measurement of heifers enrolled in the Eastern Kentucky Heifer Development Program. S. Wheeler*, T. Wistuba, P. Prater, and J. Willard, Morehead State University, Morehead, KY.


5  9:00 AM  Dry matter intake and digestibility of annual and perennial cool season grasses fed to lambs as high moisture hay. C. D. Farris**, W. A. Phillips², G. W. Horn¹, B. K. Northup², and H. S. Mayeux². ¹Oklahoma Agricultural Experiment Station, Stillwater, OK, ²USDA-ARS Grazinglands Research Laboratory, El Reno, OK.


7  9:30 AM  The use of alkanes to estimate forage intake of steers grazing either different fescue types or Lakota prairie grass. S. Gregory*, G. Scaglia, O. Abaye, and L. Stewart, Virginia Tech, Blacksburg, VA.

Graduate Student Competition I
Chair: D. E. Franke, LSU Agricultural Center
Monday 10:15 - Noon
Lime


11  10:45 AM Population dynamics of Eimeria spp in grazing beef calves in Virginia. A. Lucas*, W. Swecker, G. Scaglia, D. Lindsay, F. Elvinger, J. Fontenot, and A. Zajac, Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA.

12  11:00 AM The effects of acute restraint stress on lymphocyte proliferation and IgM production and cortisol levels in the pig. N. C. Burdick*, T. H. Welsh, Jr., J. A. Carroll, and J. C. Laurenz, Texas A&M University, Kingsville.


15  11:45 AM Copper deficiency results in decreased brain copper but does not affect brain prion protein characteristics in mature Angus cows. L. R. Legleiter*, J. W. Spears, K. E. Lloyd, S. L. Hansen, and R. S. Fry, North Carolina State University, Raleigh.

Graduate Student Competition II
Chair: D. E. Franke, LSU Agricultural Center
Monday 1:00 - 3:15
Lime

16  1:00 PM Effect of anabolic implants on beef carcass quality and yield, and factors regulating tenderness in Longissimus and Gluteus muscles. J. Long*, S. Duckett, E. Pavan, and H. Crowe, University of Georgia, Athens.
17 1:15 PM Forage quality, animal performance, and carcass traits of steers finished on winter annual ryegrass (Lolium multiflorum Lam.) pasture with varying levels of corn supplementation. S. Roberts*, C. Kerth, K. Braden, D. Rankins, L. Kriese-Anderson, and J. Prevatt, Auburn University, Auburn, AL.

18 1:30 PM Finishing steers on winter annual ryegrass (Lolium multiflorum Lam.) with varied levels of supplementation: Effects on fatty acid profile, shelf life and lipid stability. K. Braden*, K. Willian1, S. Roberts1, J. Gentry2, and C. Kerth2, 1Auburn University, Auburn, AL, 2Middle Tennesse State University, Mufreesboro, 1Tuskegee University, Tuskegee, AL.

19 1:45 PM Serum concentration comparisons of thyroxine, insulin-like growth factor-1 and leptin in foaling mares of fat versus moderate condition. C. Cavinder*, M. Vogelsang, P. Gibbs, D. Forrest, and B. Scott, Texas A&M University, College Station.

20 2:00 PM Fertility associated antigen (FAA) in peripubertal beef bulls as an indicator of potential fertility. J. Gallino*, A. Novosad1, G. Dawson2, R. Ax1, L. Sprott1, and D. Forrest1, 1Texas A&M University, College Station, 2University of Arizona, Tucson.

21 2:15 PM The effects of dietary fat supplementation on body composition traits and reproductive efficiency of beef heifers grazing ryegrass pastures. A. R. Dos Santos1, S. T. Willard1, R. C. Vann1, and B. Macoon1, 1Brown Loam Experiment Station, Raymond, MS, 2Mississippi State University, Starkville.


Breeding and Genetics  
Chair: Jackson M. Dzakuma,  
Prairie View A&M University  
Monday 1:00 - 2:15  
Largo

25  1:00 PM  Heritability and EPD for calving rate and calf survival in a multi-breed population. J. L. Guerra, D. E. Franke*, and D. C. Blouin, LSU Agricultural Center, Baton Rouge, LA, US.


27  1:30 PM  Evaluation of Romosinuano as straightbreds and crossbreds with Angus and Brahman: postweaning growth and temperament traits of heifers. J. Spatz*, D. Riley, C. Chase, S. Coleman, and T. Olson, University of Florida, Gainesville.


29  2:00 PM  Effects of artificially administered nematode challenge on three breeds of goats. E. A. Wilson*, J. M. Dzakuma*, N. C. Beckford*, B. M. Johnson*, L. C. Nuti*, and T. M. Craig**, 1Prairie View A&M University, Prairie View, TX, 2Texas A&M University, College Station.

Physiology I: Heat Stress Symposium  
Chair: Dr. Rhonda Vann,  
MAFES-Brown Loam Exp. Station  
Monday 1:00 - 5:00  
Orange

1:00 PM  Introduction. Dr. Rhonda Vann.

30  1:05 PM  Direct effects of thermal stress (TS) on gene expression in growing bovine mammary epithelial cells (BMEC) in collagen gel culture. R. Collier*, C. Stiening, J. Hoying, A. Hoying, and M Abdallah, University of Arizona, Tucson.

31  1:50 PM  Determinants of oocyte and embryonic resistance to elevated temperature in cattle - mechanisms and opportunities for exploitation to increase pregnancy rates during heat stress. P. J. Hansen*, University of Florida, Gainesville.

32  2:25 PM  Prediction of heat stress conditions in cattle using current technology to monitor thermal status. D. Spiers*, University of Missouri, Columbia.

3:00 PM  Break.
33  3:15 PM Indicators of heat stress and environmental monitoring of animal responses. S. Willard*, Mississippi State University, Mississippi State.

34  3:45 PM A history of the evaluation of the Slick hair gene. T. Olson*1, C. Chase2, M. Mariasegaram3, C. Lucena4, and E. Godoy5, 1University of Florida, Gainesville, 2USDA,ARS, Subtropical Agricultural Research Station, Brooksville, FL.


4:45 PM Questions & Discussion.

Ruminant Animal Production I: Health and Reproduction
Chair: Les Anderson, University of Kentucky
Monday 1:00 - 4:15
Siesta/Biscayne

36  1:00 PM The effects of cracking whole cottonseed on apparent nutrient digestibilities and N retention when fed to goats. B. Hagens*1, N. Whitley2, and B. Rude1, 1Mississippi State University, Starkville, 2University of Maryland Eastern Shore, Princess Anne.

37  1:15 PM Evaluation of a spinosad pour-on insecticide on the effectiveness and efficacy for horn fly (Haematobia irritans) control and management on beef cattle. L. A. Rakowitz*, S. F. Kelley, M. M. Beverly, and R. D. Hanagriff, Sam Houston State University, Huntsville, TX.


40  2:00 PM Effect of breed on acute phase protein response to weaning and transport in beef calves. X. Qiu*, J. Arthington1, D. Riley2, C. Chase Jr.2, W. Phillips2, and S. Coleman2, 1University of Florida, Ona, 2USDA-ARS, USA.


42  2:30 PM Effects of on-arrival vs. delayed BRD vaccination on health, performance and serum IBR titer levels of newly-received stocker cattle. J. T. Richeson*1, P. A. Beck1, S. A. Gunter1, M. S. Gadberry1, D. S.
Hubbell1, and C. Jones2. 1University of Arkansas Division of Agriculture, Fayetteville, 2Boehringer-Ingelheim Vetmedica, Inc., Ridgefield, CT.

43 2:45 PM Effect of cation-anion difference on measures of acid-base physiology in beef cows. M. Hersom*1, G. Hansen1, and J. Arthington2, 1University of Florida, Gainesville, 2North Florida Research and Education Center, University of Florida, Marianna, FL. 43 2:45 PM Effects of Tasco® in free-choice mineral on beef cow performance. J. Gentry*1, D. Colling2, and W. Gill3, 1Middle Tennessee State University, Murfreesboro, 2Acadian Agritech, Dartmouth, Nova Scotia, Canada, 3University of Tennessee, Knoxville.

44 3:00 PM Effects of Tasco® in free-choice mineral on beef cow performance. J. Gentry*1, D. Colling2, and W. Gill3, 1Middle Tennessee State University, Murfreesboro, 2Acadian Agritech, Dartmouth, Nova Scotia, Canada, 3University of Tennessee, Knoxville.

45 3:15 PM Effect of supplement timing on blood measurements and reproductive performance of beef heifers grazing annual ryegrass in the spring. D. Kreider1, K. Coffey*1, T. Montgomery2, K. Ferrell2, W. Coblenz2, W. Whitworth1, J. Caldwell1, R. McNew1, and R. Ogden1, 1University of Arkansas, Fayetteville, 2Univ. of Arkansas SE Research and Extension Center, Monticello, AR.


47 3:45 PM Effects of conventional or low bull to female ratio in extensively-managed, natural mating breeding groups. R. J. Rathmann*1, L. R. Sprott1, J. W. Holloway2, K. S. Barling1, B. G. Warrington1, K. O. Curley, Jr.1, and D. W. Forrest1, 1Texas A&M University, College Station, 2Texas Agricultural Experiment Station, Uvalde, TX.

48 4:00 PM Utilization of reproductive tract scores in extensively-managed, natural mating breeding groups. R. J. Rathmann*1, L. R. Sprott1, J. W. Holloway2, K. S. Barling1, B. G. Warrington1, K. O. Curley, Jr.1, and D. W. Forrest1, 1Texas A&M University, College Station, 2Texas Agricultural Experiment Station, Uvalde, TX.

Pastures and Forages I
Chair: Warren Gill, University of Tennessee
Monday 1:15 - 2:15
Cocoa

49 1:15 PM Effects of ruminal fill on short-term herbage intake rate. P. Gregorini*1,2, S. Gunter1, C. Masino2, and P. Beck1, 1University of Arkansas Division of Agriculture, Hope, 2Universidad Nacional de La Plata, La Plata, Argentina.

50 1:30 PM The effects of a morning fasting on the evening grazing behavior of beef heifers. P. Gregorini*1,2, M. Eirin1, M. Wade3, R. Refi1, M. Ursino1, O. Ansin1, and S. Gunter2, 1University of Arkansas Division of Agriculture, Hope, 2Universidad Nacional de La Plata, La Plata, Argentina.


Pastures and Forages II
Chair: John Arthington, University of Florida
Monday 2:30 - 3:30
Cocoa

Limit-grazing of winter wheat pasture to increase stocker productivity. W. A. Phillips, S. W. Coleman, D. G. Riley, C. C. Chase, Jr., and H. S. Mayeux. USDA-ARS Grazinglands Research Laboratory, El Reno, OK, USDA-ARS Subtropical Agricultural Research Station, Brooksville, FL.


Forage chicory as an alternative to annual ryegrass in stocker cattle production systems. R. H. Watson*, J. R. Parish, M. B. Howell, J. A. Parish, W. B. McKinley, and W. L. Newman, Mississippi State University, Mississippi State.

ASAS Southern Section Business Meeting and Awards
Monday 5:00 - 7:00
Orange

Small Ruminant Subcommittee of the NAGP Meeting
Monday 7:00 - 9:00
Palms Ballroom Salon B
Tuesday, February 7

Meats I
Chair: Jason K. Apple, University of Arkansas
Tuesday 8:00 - 9:30
Tangerine B

57  8:00 AM Price premiums and discounts for retail marketing attributes of flat iron steak. S. Watson*, E. Tucker¹, and D. Hudson². ¹Louisiana Tech University, Ruston. ²Mississippi State University, Mississippi State.


59  8:30 AM Effects of beef muscle type, with or without enhancement on pre-cooked value-added roast beef. J. Martin* and B. Williams, Mississippi State University, Mississippi State.

60  8:45 AM Comparison of raw soybean and soybean meal diets on carcass traits of gilts. D. Sykes*, S. Couvillion, J. Martin, T. Althen, P. Gerard, M. Crenshaw, and P. Ryan, Mississippi State University, Mississippi State.


Small Ruminant Production
Chair: Sam Jackson, Texas Tech University
Tuesday 8:00 - 12:15
Siesta/Biscayne

63  8:00 AM Use of multiple boluses of copper oxide wire particles for control of Haemonchus contortus in lambs. J. Burke*¹ and J. Miller². ¹USDA, Agricultural Research Service, Booneville, AR. ²Louisiana State University, Baton Rouge.


65  8:30 AM Control of Haemonchus contortus in ewes and does with a sustained-release multi-trace element/vitamin ruminal bolus. J. Burke*¹ and J. Miller². ¹USDA, Agricultural Research Service,
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45 AM</td>
<td>Teaching integrated parasite management (IPM) to sheep and goat producers.</td>
<td>S. Schoenian*, University of Maryland Cooperative Extension, Keedysville, MD.</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Crude protein of diet and feces in goats: Forward and reverse process prediction via near infrared reflectance spectroscopy.</td>
<td>R. Dittmar*, D. Tolleson1, S. Prince1, K. Banik1, J. Gallino1, U. Gombosuren2, and J. Stuth1, Texas A&amp;M University, College Station, Mercy Corps, Ulaan Baator, Mongolia.</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>Fermented fruit residues inclusion on ram's diet: Effects on voluntary intake and nutrients digestibility.</td>
<td>S. Pagán1, A. Rodríguez1, and E. Valencia2, Animal Industry Department, University of Puerto Rico at Mayagüez, Puerto Rico, Agronomy and Soil Sciences Department, University of Puerto Rico at Mayagüez, Puerto Rico.</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Forage intake in Suffolk, Katahdin, and reciprocal-cross lambs.</td>
<td>F. Gao1, M. Brown*, X. Wang1, J. Wu1, P. Starks1, and H. Mayeux1, Gansu Agricultural University, Lanzhou, Gansu, PRC. USDA-ARS, Grazinglands Research Laboratory, El Reno, OK.</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Weight gain in meat goat does fed endophyte-infected and non-infected tall fescue.</td>
<td>R. Browning, Jr.*, P. Pandya, T. Payton, B. Donnelly, W. Hendrixson, and M. Byars, Tennessee State University-IAgER, Nashville.</td>
</tr>
<tr>
<td>10:15 AM</td>
<td>In situ dry matter degradability of tropical legumes using fistulated goats and steers.</td>
<td>S. Pagán1, J. P. Muir1, and A. A. Rodriguez3, Department of Animal Industry, University of Puerto Rico at Mayagüez, Puerto Rico, Department of Agronomy and Soil Sciences University of Puerto Rico at Mayagüez, Puerto Rico.</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>The effect of time of day of supplemental feeding on production traits of lactating hair sheep in the tropics.</td>
<td>R. W. Godfrey* and M. C. Vinson, Agricultural Experiment Station, University of the Virgin Islands, St Croix, VI.</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Use of transrectal ultrasonography to determine early fetal development in meat goat does and hair sheep ewes.</td>
<td>S. Wildeus*, J. R. Collins, and E. J. Chozu, Virginia State University, Petersburg.</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Collection and freezing of Angora goat embryos for the USDA Animal Germplasm Repository.</td>
<td>J. McAllister*, S. Bushnell1, M. Purpera1, A. Landry1, B. Olcott, H. Blackburn2, E. Loetz1, K. Bondioli1, and R. Godke1, Louisiana State University.</td>
</tr>
</tbody>
</table>

11:30 AM Doe-kid performance to weaning among three meat goat breeds (Year 2). R. Browning, Jr.*, B. Donnelly, T. Payton, P. Pandya, W. Hendrixson, and M. Byars, Tennessee State University-IAgER, Nashville.

11:45 AM Ewe productivity in a grading-up mating scheme designed to remove wool from a traditional breed. D. K. Aaron*, D. G. Ely, E. Fink, and R. A. Zinner, University of Kentucky, Lexington.

12:00 PM Factors affecting the decision to exit the sheep industry: A three stage regression analysis for producers in West Virginia. D. Singh-Knights*, D. Smith, and M. Knights, West Virginia University, Morgantown.

Extension I: NCBA, “Meeting the Media”
Beef Check-Off Sponsored
Chair: J. T. Johns, University of Kentucky
Tuesday 8:30 - 11:30
Orange

8:30 AM Meeting the Media.
This session will provide training on how educators that work with the livestock industry can more effectively and comfortably react to requests from the media for interviews and more effectively be in control of the situation. We are recognized as authorities and leaders of the animal industry and are often the first people contacted when a crisis occurs in the industry. Presented by the NCBA on behalf of America’s beef producers through the beef check-off.

Physiology II
Chair: Dr. John Hall, Virginia PolyTech Institute
Tuesday 8:30 - 11:15
Marathon & Cedar

80 8:30 AM Antibody response in porcine colostrum with specificity to enterotoxigenic E. coli. J. Allen* and A. Byers, North Carolina A&T State University, Greensboro.

81 8:45 AM Enterotoxigenic Escherichia Coli infections from neonatal swine. J. Allen* and A. Byers, North Carolina A&T State University, Greensboro.

82 9:00 AM Validation of an automated tracking system to quantify overall activity and maintenance behaviors of individually housed nursery pigs. J.

9:30 AM Evaluation of non-nutrient additives as immunomodulators in nursery pigs. J. Carroll* and K. Haydon*, 1Livestock Issues Research Unit, Agricultural Research Service-USDA, Lubbock, TX, 2Prince Agri Products, Inc., Quincy, IL.

9:45 AM Break.


10:15 AM Training of young boars to mount an artificial sow and allow semen collection is expedited by treatment with Lutalyse. M. Estienne*, A. Harper, and R. Crawford, Virginia Polytechnic Institute and State University, Blacksburg.

10:30 AM Bioluminescence imaging and hormonal profiles in late gestation ewes following intra-uterine inoculation with lux-modified Escherichia coli. K. Moulton*, S. Willard*, P. Ryan*, D. Christiansen*, C. Klauser*, and W. Bennett*, 1Mississippi State University, Mississippi State, 2University of Mississippi Medical School, Jackson.


11:00 AM Efficacy of production drugs to assist in herd-health upgrades. D. Bishop* and T. Orban*, 1Reproductive Design Services, Garland, NC, 2Prestage Farms, Clinton, NC.

Extension Luncheon
Tuesday Noon - 2:00
Oleander B

Meats II: Pre-harvest Food Safety Symposium
Chair: Jason K. Apple, University of Arkansas
Tuesday 1:00 - 5:00
Orange

1:00 PM Research examining seasonal shedding of E. coli O157:H7. T. Edrington*, T. Callaway, K. Genovese, R. Anderson, and D. Nisbet, USDA-ARS Food and Feed Safety Research Laboratory, College Station, TX.
Does endophyte-infected tall fescue affect the prevalence of E. coli O157:H7 and Salmonella in the feces of ruminants? M. L. Looper*, T. S. Edrington2, R. Flores3, G. E. Aiken4, and C. F. Rosenkrans, Jr.; 1USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR, 2USDA-ARS, Food and Feed Safety Research Unit, College Station, TX, 3University of Arkansas, Fayetteville, 4USDA-ARS, Forage-Animal Production Research Unit, Lexington, KY.

Food borne pathogens associated with feedlot cattle.

Mindy Brashears, Texas Tech University.

Guy Lonergan, West Texas A&M University.

Roundtable discussion.

Physiology III
Chair: Dr. Rhonda Vann, MAFES-Brown Loam Exp. Station
Tuesday 1:00 - 4:45
Marathon & Cedar


Line and sex association between postweaning serum insulin-like growth factor-I (IGF-I) concentrations and growth traits of Angus cattle divergently selected for serum IGF-I concentration. M. Pagan*, M. E. Davis2, R. C. M. Simmen3, N. E. Raney4, and C. W. Ernst*; 1University of Puerto Rico, Mayaguez, Puerto Rico, 2The Ohio State University, Columbus, 3University of Arkansas for Medical Sciences, Little Rock, 4Michigan State University, East Lansing.

Line and sex association between serum insulin-like growth factor binding proteins (IGFBP) and growth traits of Angus cattle divergently selected for serum IGF-I concentration. M. Pagan*, M. E. Davis2, R. C. M. Simmen3, N. E. Raney4, and C. W. Ernst*; 1University of Puerto Rico, Mayaguez, Puerto Rico, 2The Ohio State University, Columbus, 3University of Arkansas for Medical Sciences, Little Rock, 4Michigan State University, East Lansing.


Effect of prenatal nutrition of calves on postpartum growth and plasma insulin and IGF-1. N. M. Long*, M. P. Davis, M. J. Prado-Cooper, and R. P. Wettemann, Oklahoma Agricultural Experiment Station, Stillwater, OK.

Break.
97 2:30 PM Relationships of cattle temperament and physiologic responses to handling during typical management situations. K. O. Curley, Jr.*, C. E. Schuehle Pfieffer, D. A. King, J. W. Savell, R. C. Vann, T. H. Welsh, Jr., and R. D. Randel, Texas Agricultural Experiment Station, College Station, TX, Brown Loam Experiment Station, Raymond, MS, Texas Agricultural Experiment Station, Overton, TX.

98 2:45 PM Relationship of temperament with immunization response and lymphocyte proliferation in Brahman bulls. R. Oliphint*, N. Burdick, J. Laurenz, K. Curley, R. Vann, R. Randel, and T. Welsh, Texas Ag Experiment Station, Overton, TX, Texas A&M University, Kingsville, Mississippi State University, Brown Loam.

99 3:00 PM Relationships between heifer temperament indices and fecal immunoreactive corticoid determinations. M. McGee*, K. Curley, R. Randel, D. Neuendorff, T. Welsh, A. Musselwhite, K. Kelly-Quagliana, and S. Willard, Mississippi State University, Mississippi State, Texas Agricultural Experiment Station, Overton, TX, Texas Agricultural Experiment Station, College Station, TX.

100 3:15 PM Effects of parity and once daily suckling on follicular dynamics in postpartum Brahman. J. Ramirez III*, D. A. Neuendorff, A. W. Lewis, and R. D. Randel, Texas Agricultural Experiment Station, Overton, TX.

101 3:30 PM Effects of early and late fall calving on reproductive performance and weaning weights of calves. M. P. Davis*, D. W. Kastner, I. Rubio, N. M. Long, and R. P. Wettemann, Oklahoma Agricultural Experiment Station, Stillwater, OK.

3:45 PM Break.

102 4:00 PM Effectiveness of CIDR-based estrous synchronization systems for natural service and AI in replacement heifers. J. B. Hall*, W. D. Whittier, J. C. Wuenschel, and R. Kasimanickam, Virginia Tech, Blacksburg.


104 4:30 PM Evaluation of follicular development in Brangus and Angus heifers receiving a 14 d melengestrol acetate (MGA®) treatment with PG 19 d later. S. Woodall*, B. Austin, R. Esterman, and J. Yelich, University of Florida, Gainesville.
Ruminant Animal Production II:
Growth and End Product
Chair: Jerry Spears, North Carolina State University
Tuesday 1:00 - 5:00
Tangerine B


108 1:45 PM Winter rye pasture based production programs for growing beef cattle. K. Hales*, E. Whitley, and G. Horn.1, 2The Noble Foundation, Ardmore, OK, 2Oklahoma Agricultural Experiment Station, Stillwater, OK.

109 2:00 PM Effects of feeding molasses based supplements on the performance of calves in a preconditioning program. B. Austin*, M. Hersom, and T. Thrift, University of Florida, Gainesville.

110 2:15 PM Corn gluten feed as a diet ingredient for Senepol- or Angus-sired finishing steers. M. Poore*, J. Cassady, and G. Benson, North Carolina State University, Raleigh.


112 2:45 PM Effects of supplemental energy source on adipose tissue accretion in stocker steers grazing ryegrass pastures. E. K. Bumpus*, J. E. Sawyer1, T. D. A. Forbes2, B. G. Warrington2, and J. W. Holloway2, 1Texas A&M University, College Station, 2Texas Agricultural Experiment Station, Uvalde, TX.

113 3:00 PM Selenium, zinc, and copper status in growing cattle grazing winter pasture on the Coastal Plain. S. A. Gunter*, J. W. Finley2, C. B. Stewart1, S. Hutchison1, and P. A. Beck1, 1University of Arkansas, Hope, 2USDA-ARS Grand Forks Human Nutrition Laboratory, Grand Forks, ND.

114 3:15 PM An evaluation of breeding soundness exam administration on subsequent ultrasound body composition traits in yearling beef bulls. R. C. Vann*, J. A. Parish2, W. B. McKinley*, B. J. White2, and S. T. Willard2, 1MAFES-Brown Loam Experiment Station, Raymond, MS, 2Mississippi State University, Mississippi State.

115 3:30 PM Use of blood metabolites at weaning as predictors of beef carcass traits. Z. Johnson1, J. May2, R.
116 3:45 PM Effects of different growing systems on rate of accretion of intramuscular and subcutaneous adipose tissue in feedlot cattle. J. T. Vasconcelos*, J. E. Sawyer, L. W. Greene, F. T. McCollum, and S. B. Smith, Texas A&M University, College Station, Auburn University, Auburn, AL, Texas A&M University Agricultural Research and Extension Center, Amarillo, TX.

117 4:00 PM Evaluation of feeder calf grade, background information and health status on feedlot weight gain and carcass traits of calves fed in South Texas. D. W. Groeschke, A. D. Herring*, J. E. Sawyer, and J. C. Paschal, Texas A&M University, College Station, Texas Cooperative Extension, Corpus Christi.

118 4:15 PM Use of ultrasound in combination with calf background information to predict beef carcass traits. D. T. Dean*, A. D. Herring, J. E. Sawyer, and D. S. Hale, Texas A&M University, College Station, Texas Cooperative Extension, College Station.

119 4:30 PM Growing program, breed, and gender influence ultrasound-based prediction accuracy for carcass marbling and fat thickness in crossbred beef cattle. J. E. Sawyer*, A. D. Herring, D. K. Lunt, D. T. Dean, R. D. Rhoades, and D. G. Riley, Texas A&M University, College Station, McGregor Agricultural Research Center, McGregor, TX, USDA Subtropical Agricultural Research Station, Brooksville, FL.


**Extension II**

Chair: J. D. Arthington, University of Florida

Tuesday 2:15 - 4:15

Siesta/Biscayne


122 2:30 PM Extension mediated disaster relief response to beef cattle producers stricken by hurricanes katrina and rita. J. Rowntree*, J. Parish, and W. McKinley, Louisiana State University Agricultural Center, Baton Rouge, Mississippi State University, Mississippi State.


125 3:15 PM Evaluation of body condition scores of cows wintered with a stockpiled bermudagrass + ryegrass system or traditional hay only system. J. Cleere*, L. Redmon¹, and G. Evers², Texas Cooperative Extension, College Station, TX, Texas Agricultural Experiment Station, Overton.

126 3:30 PM Characterization of Alabama feeder cattle through the Alabama beef connection program. J. Elmore and L. Kriese-Anderson*, Auburn University, Auburn, AL.


128 4:00 PM Distance education for multi-state beef cattle extension programming. J. Parish**, W. McKinley*, S. Seal¹, J. Rowntree², and L. Kriese-Anderson³, Mississippi State University, Mississippi State, Louisiana State University Agricultural Center, Baton Rouge, Auburn University, Auburn, AL.


130 4:30 PM Group marketing beef calves from small producers in Georgia: A startup experience. B. Freeman² and W. R. Getz¹, Fort Valley State University, Fort Valley, GA, ABS Global, DeForest, WI.