

**SOUTHERN SECTION**

**American Society  
of Animal Science**

**ANNUAL  
MEETING**

**February 14–18, 2004  
Tulsa, Oklahoma**

**In Conjunction with the 101<sup>st</sup>  
Annual Convention  
of the Southern Association  
of Agricultural Scientists**

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Graduate Student Awards Competition  
Agri Laboratories, Southeast Region

# Southeastern Regional Academic Quadrathlon

February 13 – 16, 2004

## Schedule of Events

Friday, February 13  
Advisor's Meeting

Best Western Hotel  
Stillwater, OK

Saturday, February 14  
8:00 am – Noon – Lab Practicum  
1:00 pm – 5:00 pm – Written Exam

Stillwater, OK

Sunday, February 15  
8:00 am – 5:00 pm — Quiz Bowl  
8:00 am – 5:00 pm — Oral Presentations

Tulsa, OK

Monday, February 16  
8:00 am – Final Quiz Bowl Round

Tulsa, OK

## PROGRAM EVENTS

Friday, February 13	P.M.	Room
Academic Quadrathlon		Best Western Hotel
Advisor's Meeting		Stillwater, OK
Saturday, February 14	A.M.	Room
Academic Quadrathlon		
Lab Practicum	8:00–Noon	Stillwater, OK
	P.M.	
Academic Quadrathlon		
Written Exam	1:00–5:00	Stillwater, OK
Sunday, February 15	A.M.	Room
Academic Quadrathlon	8:00–Noon	Directors Row 3
Quiz Bowl	8:00–Noon	Directors Row 3
Quiz Bowl	8:00–Noon	Studio 304
Oral Presentations	8:00–Noon	Studio 302
Oral Presentations- Preparation	8:00–Noon	Studio 301
Oral Presentations- Preparation	8:00–Noon	Studio 303
Oral Presentations- Preparation	8:00–Noon	Studio 315
Oral Presentations- Preparation	8:00–Noon	Studio 306
	P.M.	
Registration	1:00–5:00	Second Floor Lobby Area
Academic Quadrathlon	1:00–5:00	Directors Row 3
Quiz Bowl	1:00–5:00	Directors Row 3
Quiz Bowl	1:00–5:00	Studio 304
Oral Presentations	1:00–5:00	Studio 302
Oral Presentations- Preparation	1:00–5:00	Studio 301
Oral Presentations- Preparation	1:00–5:00	Studio 303
Oral Presentations- Preparation	1:00–5:00	Studio 315
Oral Presentations- Preparation	1:00–5:00	Studio 306
Enhancing Reproductive Efficiency In Cattle – IEG-72	1:00–5:00	Directors Row 1
IEG-75	1:00–4:00	Directors Row 4
Advisory Committee/ Executive Committee	5:00–8:00	Executive Suite

Monday, February 16	A.M.	Room
Registration	7:00–Noon	Second Floor
Academic Quadrathlon	8:00–Noon	Lobby Area
		Promenade
		Salon B
Graduate Student Paper Competition	9:00–Noon	Promenade
		Salon A
	P.M.	
Registration	1:00–5:00	Second Floor
		Lobby Area
ARPAS Exams	1:00–5:00	Studio 302
Extension I	1:00–5:00	Directors
		Row 1
Pasture & Forages	1:00–5:00	Promenade
		Salon A
Swine Physiology & Undergraduate Teaching	1:00–5:00	Promenade
		Salon B
Ruminant Animal Production	1:00–5:00	Directors
		Row 3
Small Ruminant I&II	1:00–5:00	Directors
		Row 2
Business Meeting	5:00–7:00	Promenade
		Salon A
Tuesday, February 17	A.M.	
Registration	8:00–Noon	
ARPAS Exams	8:00–Noon	Studio 302
Extension	9:00–Noon	Directors
		Row 1
Meats	9:00–Noon	Directors
		Row 4
Small Ruminant	8:00–Noon	Directors
		Row 3
Physiology I	8:00–Noon	Directors
		Row 2
Extension Luncheon	Noon–2:00	Promenade
		Salon A
	P.M.	
Breeding & Genetics	1:00–5:00	Directors
		Row 2
Physiology II	1:00–5:00	Directors
		Row 3
Pasture & Forages II	1:00–5:00	Directors
		Row 5

## Graduate Student Competition

Room: Promenade Salon A

Monday 9:00 - Noon

Chair: L. Wayne Green, Texas Agricultural Experiment Station, Amarillo, TX

Abstract	Time	
45	9:00	Characterization of leptin levels in <i>callipyge</i> sheep. J. N. Fleming <sup>*1</sup> , S. P. Jackson <sup>1</sup> , D. H. Keisler <sup>2</sup> , S. J. Schweers <sup>1</sup> , J. R. Blanton, Jr. <sup>1</sup> , <sup>1</sup> Texas Tech University, <sup>2</sup> University of Missouri
46	9:15	Utilization of chemical treatments to reduce <i>Escherichia coli</i> O157:H7 from inoculated cattle manure S. L. Krumpelman <sup>*1</sup> , J. K. Apple <sup>1</sup> , E. B. Kegley <sup>1</sup> , M. G. Johnson <sup>1</sup> , S. E. Watkins <sup>1</sup> , <sup>1</sup> University of Arkansas, Fayetteville
47	9:30	Effect of P.G. 600 on the timing of ovulation in gilts treated with Regu-mate B.R. Horsley <sup>*1</sup> , M.J. Estienne <sup>1</sup> , S.H. Purcell <sup>1</sup> , H.K. Baitis <sup>1</sup> , W.E. Beal <sup>1</sup> , A.F. Harper <sup>1</sup> , J.W. Knight <sup>1</sup> , <sup>1</sup> Virginia Polytechnic Institute and State University, Blacksburg
48	9:45	Effects of IGF-1 and -2 on pregnancy associated plasma protein-A (PAPP-A) gene expression in bovine granulosa and theca cells: assessment by quantitative RT-PCR. Pauline Y. Aad <sup>*1</sup> , Consuelo A. T. Santiago <sup>1</sup> , Justin L. Voge <sup>1</sup> , Jerry R. Malayer <sup>1</sup> , Leon J. Spicer <sup>1</sup> , <sup>1</sup> Oklahoma State University
49	10:00	Effects of implant strategy on lipid deposition in finished beef cattle KR Smith <sup>*1</sup> , TD Pringle <sup>1</sup> , SK Duckett <sup>1</sup> , MG Gillis <sup>1</sup> , CE Realini <sup>1</sup> , <sup>1</sup> University of Georgia
	10:15	Break
50	10:45	Melanoma in horses: A review of 245 cases C. G. Knehr <sup>*1,2</sup> , J. L. Robertson <sup>2</sup> , R. K. Splan <sup>1</sup> , <sup>1</sup> Department of Animal and Poultry Sciences, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, <sup>2</sup> Center for Comparative Oncology, VMRCVM, Virginia Polytechnic Institute and State University, Blacksburg, Virginia
51	11:00	Effects of feeding a modified yeast cell wall preparation upon the occurrence of fescue toxicosis in mares. A.I. Orr <sup>*1</sup> , D.L. Christiansen <sup>1</sup> , B.J. Rude <sup>1</sup> , N.M. Filipov <sup>1</sup> , B.P. Fitzgerald <sup>2</sup> , P.L. Ryan <sup>1</sup> , <sup>1</sup> Mississippi State University, <sup>2</sup> University of Kentucky
52	11:15	Forage intake and performance of early-weaned calves grazing rye-ryegrass pastures and receiving three levels of supplementation J.M.B. Vendramini <sup>*1,2</sup> , L.E. Sollenberger <sup>1</sup> , J.D. Arthington <sup>2</sup> , J.D. Debeux, Jr. <sup>1</sup> , <sup>1</sup> University of Florida, Department of Agronomy, <sup>2</sup> University of Florida, Range Cattle Research and Education Center
53	11:30	Physiological indicators of performance and feed efficiency traits in growing steers and bulls E. G. Brown <sup>*1</sup> , G. E. Carstens <sup>1</sup> , J. T. Fox <sup>1</sup> , K. O. Curley, Jr. <sup>1</sup> , T. M. Bryan <sup>1</sup> , L. J. Slay <sup>1</sup> , T. H. Welsh, Jr. <sup>1</sup> , R. D. Randel <sup>2</sup> , J. W. Holloway <sup>3</sup> , D.H. Keisler <sup>4</sup> , <sup>1</sup> Texas Agricultural Experiment Station, College Station, <sup>2</sup> Texas Agricultural Experiment Station, Overton, <sup>3</sup> Texas Agricultural Experiment Station, Uvalde, <sup>4</sup> University of Missouri

## Pastures and Forages I

Room: Promenade Salon A

Monday 1:00 – 4:00

Chairs: John Stuedemann and John Andrae, USDA-ARS and University of Georgia, Athens, GA

Abstract	Time	
1	1:00	<b>Invited Paper:</b> Designing supplements for stocker cattle grazing wheat pasture Gerald W. Horn, Oklahoma State University, Stillwater
2	1:30	Influence of forage blend and cultivation method on cool season forage availability for beef cattle grazing R. O. Myer <sup>*1</sup> , A. R. Blount <sup>1</sup> , <sup>1</sup> University of Florida
3	1:45	Evaluation of cool-season annual grasses interseeded into bermudagrass sod for growing cattle P. A. Beck <sup>*1</sup> , S. A. Gunter <sup>1</sup> , C. B. Stewart <sup>1</sup> , J. M. Phillips <sup>1</sup> , <sup>1</sup> University of Arkansas, Southwest Research and Extension Center
4	2:00	Effect of planting date and stocking rate on growth performance of cattle and grain yield in a dual-purpose winter wheat system B. G. Fieser <sup>*1</sup> , G. W. Horn <sup>1</sup> , E. G. Krenzer <sup>1</sup> , F. M. Epplin <sup>1</sup> , <sup>1</sup> Oklahoma Agricultural Experiment Station, Stillwater
	2:15	Break
5	2:45	<b>Invited Paper:</b> Potential of seeded bermudagrasses for forage and animal production Larry Redmon, Texas A&M University, Overton
6	3:15	Tall fescue vs. small grains as components of year-round stocker grazing systems. K.S. Lusby <sup>*1</sup> , S.A. Gunter <sup>1</sup> , D.S. Hubbell III <sup>6</sup> , <sup>1</sup> Division of Agriculture, University of Arkansas
7	3:30	Cool-season annual pasture with legumes to supplement wintering beef cows W. A. Whitworth <sup>1</sup> , T. G. Montgomery <sup>1</sup> , S. A. Gunter <sup>2</sup> , <sup>1</sup> University of Arkansas SEREC, Monticello, <sup>2</sup> University of Arkansas SWREC, Hope
8	3:45	Assessment of a modified Merrill grazing system in South Texas. K. K. Porter <sup>*1</sup> , J. A. Ortega-S. <sup>2</sup> , S. D. Lukefahr <sup>1</sup> , R. L. Stanko <sup>1</sup> , <sup>1</sup> Department of Animal and Wildlife Sciences, Texas A&M University-Kingsville, <sup>2</sup> Department of Animal and Wildlife Sciences, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville

## Extension I

Room: Directors Row 1  
Monday 1:30 – 4:15  
Chair: John Hall, Virginia Tech, Blacksburg, VA

Abstract	Time	
28	1:30	Assessment of awareness and constraints in production of Guinea fowl in Tennessee and other parts of the United States. S. N. Nahashon <sup>1</sup> , A. Amenyenu* <sup>1</sup> , S. Muhammad <sup>1</sup> , N. Adefope <sup>1</sup> , D. Wright <sup>1</sup> , <sup>1</sup> Institute of Agricultural and Environmental Research, Tennessee State University
29	1:45	Spray dried plasma in the initial post-weaning diet improves pig performance during phase I with no effects in subsequent diet phases J. Zhao <sup>1</sup> , A. F. Harper* <sup>1</sup> , K. E. Webb, Jr. <sup>1</sup> , M. J. Estienne <sup>1</sup> , <sup>1</sup> Virginia Polytechnic Institute and State University, Blacksburg
30	2:00	Arkansas EIA verification program- A partnership of extension, industry, and regulatory. S. M. Jones* <sup>1</sup> , <sup>1</sup> University of Arkansas Cooperative Extension Service
31	2:15	An inventive approach: Horse ownership courses. O. F. Harper <sup>1</sup> , J. Hall <sup>1</sup> , J. Goddard <sup>1</sup> , J. Rhea <sup>1</sup> , M. Bedwell <sup>1</sup> , <sup>1</sup> University of Tennessee
32	2:30	4-H high adventure horse packing program. S.M. Jones* <sup>1</sup> , <sup>1</sup> University Of Arkansas Cooperative Extension Service
	2:45	Break
33	3:15	Telephone survey of small ruminant parasite control and management in the Mid-Atlantic Region. J.P. Tritschler* <sup>1</sup> , M.P.L. Dismann <sup>1</sup> , B.L. Sayre <sup>1</sup> , <sup>1</sup> Virginia State University
34	3:30	Seasonal mineral imbalances in Tennessee forage systems A.E. Fisher <sup>1</sup> , W.W. Gill* <sup>1</sup> , C.D. Lane, Jr. <sup>1</sup> , D.K. Joines <sup>1</sup> , J.B. Neel <sup>1</sup> , <sup>1</sup> University of Tennessee
35	3:45	Soil forage mineral interrelationships A.E. Fisher <sup>1</sup> , C.D. Lane, Jr.* <sup>1</sup> , W.W. Gill <sup>1</sup> , D.K. Joines <sup>1</sup> , J.B. Neel <sup>1</sup> , <sup>1</sup> University of Tennessee
36	4:00	Assessing impact of Extension programming for correcting mineral imbalances and deficiencies in Tennessee beef cattle J.B. Neel* <sup>1</sup> , W.W. Gill <sup>1</sup> , C.D. Lane, Jr. <sup>1</sup> , D.K. Joines <sup>1</sup> , A.E. Fisher <sup>1</sup> , <sup>1</sup> University of Tennessee

## Swine Physiology, Undergraduate Competition, and Teaching

Room: Promenade Salon B  
Monday 1:00 – 4:15  
Chair: Brian Rude, Mississippi State University, Mississippi State, MS

Abstract	Time	
64	1:00	<b>Invited Paper:</b> A reevaluation of measures of boar fertility Billy Flowers, North Carolina State University, Raleigh
65	2:00	Behavior of pregnant gilts and sows in crates or pens fed either by a single drop or by trickle feeding L.E. Hulbert* <sup>1</sup> , J.L. Morrow <sup>2</sup> , J. Dailey <sup>2</sup> , J.J. McGlone <sup>1</sup> , <sup>1</sup> Pork Industry Institute, Texas Tech University, <sup>2</sup> Livestock Issues Research Unit, USDA-ARS
66	2:15	Effects of fasting and development on leptin and PPAR $\gamma$ gene expression in various fat depots CW O’Gorman* <sup>1</sup> , Y Matsumoto <sup>1</sup> , MR Garcia <sup>1</sup> , <sup>1</sup> Texas A&M University-Kingsville, Department of Animal and Wildlife Sciences, Kingsville, TX
67	2:30	Dehydroepiandrosterone-sulfate (DHEAS) enhances <i>in vitro</i> lymphocyte function and improves immunization response in pigs N. Burdick* <sup>1</sup> , J. Dominguez <sup>1</sup> , T.H. Welsh, Jr. <sup>2</sup> , J.C. Laurenz <sup>1</sup> , <sup>1</sup> Texas A&M University-Kingsville, <sup>2</sup> Texas A&M University, College Station
68	2:45	Porcine endometrial nitric oxide synthase gene expression and uterine nitric oxide content during estrous cycle and early pregnancy Jackie L. Roberts* <sup>1</sup> , Jason W. Ross <sup>1</sup> , Morgan D. Ashworth <sup>1</sup> , Jerry R. Malayer <sup>2</sup> , Rodney D. Geisert <sup>1</sup> , <sup>1</sup> Dept. Animal Science, Oklahoma State University, <sup>2</sup> Dept. Physiological Sciences, Oklahoma State University
	3:00	Break
69	3:30	Improving the performance of weaned pigs with natural products J.W. Rounsavall* <sup>1</sup> , C.A. Newman <sup>1</sup> , F. Neher <sup>2</sup> , J.C. Laurenz <sup>1</sup> , <sup>1</sup> Texas A&M University-Kingsville, <sup>2</sup> Biomin, Inc., Herzogenburg, Austria
70	3:45	The physical size of gestating sows. J. J. McGlone <sup>1</sup> , B. Vines <sup>2</sup> , A. C. Rudine <sup>1</sup> , P. Dubois <sup>2</sup> , <sup>1</sup> Pork Industry Institute, Department of Animal and Food Science, Texas Tech University, Lubbock, TX 79409-2141, <sup>2</sup> Cargill Pork, Inc., Russellville, AR 72811
71	4:00	Libido after PGF <sub>2a</sub> treatment in boars with suppressed circulating concentration of gonadal steroids. M.J. Estienne* <sup>1</sup> , A.F. Harper <sup>1</sup> , J.W. Knight <sup>1</sup> , C.R. Barb <sup>2</sup> , G.B. Rampacek <sup>3</sup> , <sup>1</sup> Virginia Polytechnic Institute and State University, Blacksburg, <sup>2</sup> USDA-ARS, Athens, GA, <sup>3</sup> University of Georgia, Athens
72	4:15	Teaching hands-on International agriculture with emphasis in Mexico. J. A. Ortega-S <sup>1</sup> , J. A. Hinojosa <sup>2</sup> , R. L. Stanko <sup>3</sup> , <sup>1</sup> Department of Animal and Wildlife Sciences, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, <sup>2</sup> College of Agricultural & Human Sciences, Texas A&M University-Kingsville, <sup>3</sup> Department of Animal and Wildlife Sciences, Texas A&M University-Kingsville

## Ruminant Animal Production

Room: Directors Row 3

Monday 1:00 – 5:15

Chair: Michael Brown, West Texas A&M,  
Canyon, TX

Abstract	Time	
90	1:00	Effects of Component TES® and Revalor S® in a single implant or reimplant program on buller incidence, feedlot performance, and carcass characteristics of yearling steers B. L. Voyles* <sup>1</sup> , M. S. Brown <sup>2</sup> , R. S. Swingle <sup>1</sup> , K. J. Karr <sup>1</sup> , <sup>1</sup> Cactus Feeders, <sup>2</sup> West Texas A&M University
91	1:15	Performance of market cows consuming composted broiler litter, corn or soyhulls, and hay. S. M. DeRouen* <sup>1</sup> , D. W. Sanson <sup>2</sup> , D. H. Foster <sup>3</sup> , <sup>1</sup> Louisiana State University Agricultural Center, Homer, <sup>2</sup> Louisiana State University Agricultural Center, Rosepine, <sup>3</sup> Louisiana Department of Agriculture, Baton Rouge
92	1:30	Wheat pasture bloat dynamics and mitigation with tannins. B.R. Min* <sup>1</sup> , W.E. Pinchak <sup>1</sup> , J.D. Fulford <sup>1</sup> , R. Puchala <sup>2</sup> , R.J. Gill <sup>1</sup> , <sup>1</sup> Texas A & M Agricultural and Extension Center, Vernon, TX, <sup>2</sup> E (kika) de la Garza American Institute for Goat Research, Langston, OK
93	1:45	Effects of a dietary sweetener on feedlot performance and carcass characteristics of beef steers C.D. Drager* <sup>1</sup> , M.S. Brown <sup>1</sup> , E.M. Cochran <sup>1</sup> , E.A. Lauterbach <sup>1</sup> , T.J. Biggs <sup>1</sup> , W. Rounds <sup>2</sup> , <sup>1</sup> Division of Agriculture, West Texas A&M University, <sup>2</sup> Prince Agri Products, Inc.
94	2:00	Intake and digestibility of hay fed to beef cows supplemented with de-oiled rice bran T. C. Losi <sup>2</sup> , S. A. Gunter* <sup>1</sup> , P. A. Beck <sup>1</sup> , S. Hutchison <sup>1</sup> , M. S. Gadberry <sup>3</sup> , P. Capps <sup>1</sup> , <sup>1</sup> University of Arkansas Southwest Research & Extension Center, Hope, <sup>2</sup> Universidade Estadual Paulista - Faculdade de Medicina Veterinaria e Zootecnia, Botucatu, SP Brasil, <sup>3</sup> University of Arkansas Cooperative Extension Service, Little Rock
95	2:15	Relationship between measures of cow and calf temperament and live animal body composition traits in calves at weaning R. C. Vann* <sup>1</sup> , J. F. Baker <sup>2</sup> , R. D. Randel <sup>3</sup> , <sup>1</sup> MAFES-Brown Loam Experiment Station, <sup>2</sup> University of Georgia-Tifton Campus, <sup>3</sup> Texas Agricultural Research & Extension Center
96	2:30	Investigation of Factors Influencing Feedlot Performance and Profitability in the 2001-2002 Texas A&M Ranch to Rail Program-South K. W. Harborth* <sup>1</sup> , A. D. Herring <sup>1</sup> , J. C. Paschal <sup>1</sup> , <sup>1</sup> Texas A&M University
97	2:45	Weaning date and pasture rotation frequency effects on forage measurements and performance by fall-born calves grazing tall fescue pastures. K. P. Coffey* <sup>1</sup> , W. K. Coblenz <sup>1</sup> , T. F. Smith <sup>1</sup> , J. E. Turner <sup>1</sup> , D. S. Hubbell, III <sup>1</sup> , D. A. Scarbrough <sup>1</sup> , B. C. McGinley <sup>1</sup> , C. F. Rosenkrans, Jr. <sup>1</sup> , <sup>1</sup> University of Arkansas
	3:00	Break
98	3:15	Digestibility and protein utilization in steers fed corn and pearl millet diets. G. M. Hill* <sup>1</sup> , W. W. Hanna <sup>2</sup> , B. C. Hand <sup>1</sup> , A. E. Coy <sup>1</sup> , B. G. Mullinix, Jr. <sup>1</sup> , <sup>1</sup> University of Georgia, Coastal Plain Expt. Sta., Tifton, GA/USA, <sup>2</sup> USDA-ARS, Coastal Plain Expt. Sta., Tifton, GA/USA
99	3:30	Performance of yearling stocker cattle of different biological types in a management-intensive grazing system M. L. Thomas* <sup>1</sup> , D. W. Kellogg <sup>1</sup> , A. H. Brown, Jr. <sup>1</sup> , Z. B. Johnson <sup>1</sup> , C. P. West <sup>1</sup> , <sup>1</sup> University of Arkansas
100	3:45	Byproduct-based diets for finishing beef steers. M.H. Poore* <sup>1</sup> , <sup>1</sup> North Carolina State University
101	4:00	Relationships between temperament and growth traits in crossbred steers R. C. Vann* <sup>1</sup> , B. Macoon <sup>1</sup> , J. D. Perkins <sup>1</sup> , R. D. Randel <sup>2</sup> , <sup>1</sup> MAFES-Brown Loam Experiment Station, <sup>2</sup> Texas Agricultural Research and Extension Center
102	4:15	Effects of a sunflower seed supplement on performance and reproduction of beef cows and their progeny J.P. Banta* <sup>1</sup> , D.L. Lalman <sup>1</sup> , R.P. Wettemann <sup>1</sup> , <sup>1</sup> Oklahoma State University
103	4:30	Calving primiparous Braford heifers at two- versus three-years of age S. Galindo-Gonzalez* <sup>1,2</sup> , J.D. Arthington <sup>1</sup> , S.W. Coleman <sup>3</sup> , A. de Vries <sup>2</sup> , <sup>1</sup> University of Florida, Range Cattle Research and Education Center, Ona, <sup>2</sup> University of Florida, Department of Animal Sciences, Gainesville, <sup>3</sup> USDA-ARS Subtropical Agricultural Research Station, Brooksville
104	4:45	Effect of different levels and oscillating digestible intake protein on performance and blood urea nitrogen concentration of beef calves R. Shanklin* <sup>1</sup> , G. Scaglia <sup>1</sup> , J. P. Fontenot <sup>1</sup> , <sup>1</sup> Virginia Polytechnic Institute and State University
105	5:00	The effects of antimicrobial use on the performance of newly received cattle S. Hutchison* <sup>1</sup> , P. A. Beck <sup>1</sup> , S. A. Gunter <sup>1</sup> , <sup>1</sup> University of Arkansas Southwest Research & Extension Center, Hope

## Small Ruminant Production I - Genetics and Breed Evaluation

Room: Directors Row 2

Monday 1:00 – 3:00

Chair: Richard Browning, Jr., Tennessee State University, Nashville, TN

Abstract	Time	
106	1:00	Genetic evaluation opportunities for small ruminants D. R. Notter* <sup>1</sup> , <sup>1</sup> Virginia Polytechnic Institute & State University

107	1:45	Growth and parasite resistance of pasture-raised Dorper-, Texel-, and Suffolk-sired Katahdin crossbred lambs D. J. Jackson <sup>*1</sup> , N.C. Whitley <sup>1</sup> , J.W. Lemaster <sup>2</sup> , C.M. Fletcher <sup>1</sup> , S. Schoenian <sup>2</sup> , <sup>1</sup> University of Maryland Eastern Shore, <sup>2</sup> Maryland Cooperative Extension
108	2:00	Production traits of St. Croix White and Dorper X St. Croix White lambs grazing native pasture during the dry season in the US Virgin Islands R.W. Godfrey <sup>*1</sup> , A.J. Weis <sup>1</sup> , R.E. Dodson <sup>1</sup> , <sup>1</sup> University of the Virgin Islands, Agricultural Experiment Station
109	2:15	Evaluation of Boer and Kiko goats for doe-kid performance to weaning. R. Browning, Jr. <sup>*1</sup> , S. H. Kebe <sup>1</sup> , M. Byars <sup>1</sup> , <sup>1</sup> Tennessee State University
110	2:30	Genotype $\times$ environmental interactions in goats. Neville C. Beckford <sup>*1</sup> , Jackson M. Dzakuma <sup>1</sup> , Eric Risch <sup>1</sup> , Louis C. Nuti <sup>1</sup> , <sup>1</sup> Prairie View A&M University
111	2:45	Genetic and environmental effects on phenotypic expression of myotonia in the Myotonic goat. B.L. Sayre <sup>*1</sup> , S. Wildeus <sup>1</sup> , M. Dismann <sup>1</sup> , J.R. Collins <sup>1</sup> , <sup>1</sup> Virginia State University

## Small Ruminant Production II - General Management, Marketing, and Internal Parasite Control

Room: Directors Row 2

Monday 3:15 – 4:45

Chair: Steve Hart, Langston University,  
Langston, OK

Abstract	Time	
112	3:15	Differences in performance of hair sheep lambs and meat goat kids offered high forage diets with a corn-based supplement S. Wildeus <sup>*1</sup> , K. E. Turner <sup>2</sup> , S. P. Greiner <sup>3</sup> , J. R. Collins <sup>1</sup> , <sup>1</sup> Virginia State University, Petersburg, <sup>2</sup> USDA, ARS, Appalachian Farming Systems Research Center, Beaver, WV, <sup>3</sup> Virginia Tech, Blacksburg
113	3:30	Use of ceramic rumen boluses of different sizes for electronic identification of hair sheep lambs S. Wildeus <sup>*1</sup> , J. R. Collins <sup>1</sup> , S. K. Duckett <sup>2</sup> , <sup>1</sup> Virginia State University, Petersburg, <sup>2</sup> University of Georgia, Athens
114	3:45	Forecasting models developed from West Virginia lamb sale transactions provide evidence of seasonality of slaughter and feeder lamb prices and a shifting market preference D. Singh-Knights <sup>*1</sup> , D. Smith <sup>1</sup> , M Knights <sup>1</sup> , <sup>1</sup> West Virginia University
115	4:00	The effect of Quebracho tannin supplementation on growth and parasitism in young goats and hair sheep grazing parasite-infected pasture S. Wildeus <sup>*1</sup> , A. M. Zajac <sup>2</sup> , K. E. Turner <sup>3</sup> , J. R. Collins <sup>1</sup> , <sup>1</sup> Virginia State University, Petersburg, <sup>2</sup> Virginia Tech, Blacksburg, <sup>3</sup> USDA, ARS, Appalachian Farming Systems Research Center, Beaver, WV
116	4:15	Effect of copper oxide needles on gastrointestinal parasites in grazing meat goats H.M. Glennon <sup>*1</sup> , J-M. Luginbuhl <sup>1</sup> , J.P. Mueller <sup>1</sup> , A.M. Zajac <sup>2</sup> , K.L. Anderson <sup>1</sup> , J.W. Spears <sup>1</sup> , T.T. Brown <sup>1</sup> , C. Brownie <sup>1</sup> , <sup>1</sup> North Carolina State University, <sup>2</sup> Virginia-Maryland Regional College of Veterinary Medicine
117	4:30	Dose of copper oxide wire particles (COWP) and feed supplement level influences <i>Haemonchus contortus</i> infection in lambs Joan M. Burke <sup>*1</sup> , James E. Miller <sup>2</sup> , <sup>1</sup> USDA, ARS, <sup>2</sup> School of Veterinary Medicine, Louisiana State University

## Business Meeting

Awards Presentations will take place at the end of the meeting.

Room: Promenade Salon A

Monday 5:00 – 7:00pm

## Extension II

Room: Directors Row 1

Tuesday 9:00 – 11:30

Chair: Clyde Lane, Jr., University of Tennessee, Jackson, TN

Abstract	Time	
37	9:00	Arkansas beef improvement program - whole farm program T. R. Troxel <sup>*1</sup> , M. S. Gadberry <sup>1</sup> , J. A. Jennings <sup>1</sup> , D. E. Kratz <sup>1</sup> , <sup>1</sup> University of Arkansas Cooperative Extension Service
38	9:15	Arkansas beef improvement program – special projects T. R. Troxel <sup>1</sup> , M. S. Gadberry <sup>*1</sup> , J. A. Jennings <sup>1</sup> , D. E. Kratz <sup>1</sup> , <sup>1</sup> University of Arkansas Cooperative Extension Service
39	9:30	Arkansas beef improvement program survey T. R. Troxel <sup>*1</sup> , M. S. Gadberry <sup>1</sup> , J. A. Jennings <sup>1</sup> , D. E. Kratz <sup>1</sup> , <sup>1</sup> University of Arkansas Cooperative Extension Service
40	9:45	Comparison of estrous synchronization and conception rates for two prostaglandin based estrous synchronization protocols for beef heifers. T.W. Wilson <sup>*1</sup> , J.F. Baker <sup>2</sup> , J.H. Pope <sup>3</sup> , M.E. Pence <sup>2</sup> , P. Ham <sup>4</sup> , <sup>1</sup> The University of Georgia, Statesboro, <sup>2</sup> The University of Georgia, Tifton, <sup>3</sup> The University of Georgia, Cooperative Extension Service, <sup>4</sup> Sleepy Creek Farms, Monroe County, GA
	10:00	Break

41	10:30	Development of a chuteside and electronic beef quality assurance (BQA) record systems J. B. Hall* <sup>1</sup> , S. P. Greiner <sup>1</sup> , J. F. Currin <sup>1</sup> , W. D. Whittier <sup>1</sup> , <sup>1</sup> Virginia Tech
42	10:45	Teaching body condition scoring of beef cows using contests Glenn Selk* <sup>1</sup> , <sup>1</sup> Oklahoma Cooperative Extension Service
43	11:00	Factors influencing beef producers participation in preconditioned certified calf sales Manuel D. Corro* <sup>1</sup> , David Lalman <sup>2</sup> , James D. White <sup>1</sup> , Robert P. Wettemann <sup>2</sup> , <sup>1</sup> Department of Agricultural Education, Oklahoma State University, <sup>2</sup> Department of Animal Science, Oklahoma State University
44	11:15	Mississippi farm to feedlot program: ten-year summary J. A. Parish* <sup>1</sup> , W. B. McKinley <sup>1</sup> , <sup>1</sup> Mississippi State University, Mississippi State, MS

## Meat Science

Room: Directors Row 4

Tuesday 9:00 - Noon

Chair: William Mikel, University of Kentucky, Lexington, KY

Abstract	Time	
55	9:00	Chemical, fatty acid and sensory characteristics of beef from cattle grazing forages supplemented with soyhulls vs. USDA Choice and Select beef R. T. Baublits* <sup>1</sup> , F. W. Pohlman <sup>1</sup> , A. H. Brown, Jr. <sup>1</sup> , Z. B. Johnson <sup>1</sup> , D. O. Onks <sup>2</sup> , D. C. Rule <sup>3</sup> , B. A. Sandelin <sup>1</sup> , C. M. Murrleta <sup>3</sup> , <sup>1</sup> University of Arkansas, <sup>2</sup> University of Tennessee, <sup>3</sup> University of Wyoming
56	9:15	Effects of supplemental Manganese on pork quality of growing and finishing swine. Adam W. Tittor* <sup>1</sup> , Jason K. Apple <sup>2</sup> , J. Brad Morgan <sup>1</sup> , <sup>1</sup> Oklahoma State University, <sup>2</sup> University of Arkansas
57	9:30	Effects of dietary fat source on performance and carcass composition of growing-finishing swine J. K. Apple* <sup>1</sup> , C. V. Maxwell <sup>1</sup> , L. K. Rakes <sup>1</sup> , J. D. Stephenson <sup>1</sup> , Z. B. Johnson <sup>1</sup> , W. A. Wallis <sup>1</sup> , S. Hutchison <sup>1</sup> , <sup>1</sup> University of Arkansas
58	9:45	Effects of iron supplementation level on performance and carcass characteristics of growing-finishing swine J. K. Apple* <sup>1</sup> , W. A. Wallis <sup>1</sup> , C. V. Maxwell <sup>1</sup> , L. K. Rakes <sup>1</sup> , T. M. Fakler <sup>2</sup> , <sup>1</sup> University of Arkansas, <sup>2</sup> Zinpro Corporation
59	10:00	Adipocyte size distribution in different fat depots in kids receiving fish oil supplemented diet Penka T. Marinova <sup>1</sup> , Veneta B. Banskalieva* <sup>1</sup> , Veneta L. Tzvetkova <sup>1</sup> , <sup>1</sup> Institute of Animal Science
	10:15	Break
60	10:45	Predicting beef tenderness using near infrared spectroscopy. S. Rust <sup>1</sup> , J. Brad Morgan <sup>1</sup> , S. Jeyamkondan <sup>1</sup> , G. Kranzler <sup>1</sup> , C. Raines* <sup>1</sup> , <sup>1</sup> Oklahoma State University
61	11:15	Impact of subprimal enhancement on postmortem aging and retail shelf life characteristics of fresh beef. Ian R. Shann* <sup>1</sup> , J. Brad Morgan <sup>1</sup> , Fred K. Ray <sup>1</sup> , <sup>1</sup> Oklahoma State University
62	11:30	Use of carbon monoxide packaging system in improving retail characteristics of “comprised” beef cuts. K. Henry <sup>1</sup> , J. Brad Morgan <sup>1</sup> , J. Duggin <sup>1</sup> , M. Fransreb <sup>2</sup> , <sup>1</sup> Oklahoma State University, <sup>2</sup> Cryovac/Sealed Air Corp.
63	11:45	Some effects of marinating and <i>sous vide</i> cooking on the production of value-added beef pot roasts J. M. Martin* <sup>1</sup> , J. L. Herring <sup>1</sup> , R. W. Rogers <sup>1</sup> , <sup>1</sup> Mississippi State University

## Physiology 1

Room: Directors Row 2

Tuesday 9:00 – 11:30

Chair: John Hall, Virginia Tech, Blacksburg, VA

Abstract	Time	
72	9:00	Influence of postpartum nutrition of primiparous beef cows on Insulin-Like Growth Factor-I in follicular fluid and plasma I Rubio* <sup>1</sup> , FJ White <sup>1</sup> , NH Ciccioli <sup>1</sup> , RP Wettemann <sup>1</sup> , LJ Spicer <sup>1</sup> , <sup>1</sup> Oklahoma Agricultural Experiment Station, Stillwater
73	9:15	Effects of body condition score at calving and length of the postpartum anovulatory interval on concentrations of steroids, insulin-like growth factor-I, and aromatase mRNA in dominant follicles F.J. White* <sup>1</sup> , I. Rubio <sup>1</sup> , D.W. Kastner <sup>1</sup> , R.P. Wettemann <sup>1</sup> , L.J. Spicer <sup>1</sup> , <sup>1</sup> Oklahoma Agricultural Experiment Station, Stillwater
74	9:30	Free IGF-I in follicular fluid: Relationship with total IGF-I, IGFBP, and steroids in dominant and large subordinate follicles of preovulatory cattle. Consuelo A. T. Santiago* <sup>1</sup> , Justin L. Voge <sup>1</sup> , Pauline Y. Aad <sup>1</sup> , Dustin T. Allen <sup>1</sup> , Daniel R. Stein <sup>1</sup> , Jerry R. Malayer <sup>1</sup> , Leon J. Spicer <sup>1</sup> , <sup>1</sup> Oklahoma State University
75	9:45	Reproductive performance of yearling heifers fed Megalac® before breeding. N. M. Long* <sup>1</sup> , G. M. Hill <sup>1</sup> , J. F. Baker <sup>1</sup> , W. F. Graves <sup>2</sup> , M. A. Froetschel <sup>2</sup> , B. G. Mullinix, Jr. <sup>1</sup> , <sup>1</sup> University of Georgia, Tifton, GA/USA, <sup>2</sup> University of Georgia, Athens, GA/USA
	10:00	Break
76	10:30	Influence of time of insemination after the onset of estrus on pregnancy rate of beef heifers RP Wettemann* <sup>1</sup> , FJ White <sup>1</sup> , I Rubio <sup>1</sup> , DW Kastner <sup>1</sup> , DL Lalman <sup>1</sup> , <sup>1</sup> Oklahoma Agricultural Experiment Station, Stillwater
77	10:45	Pregnancy rate and gestation length of early and late fall calving beef cows. D W Kastner* <sup>1</sup> , I Rubio <sup>1</sup> , F J White <sup>1</sup> , R P Wettemann <sup>1</sup> , <sup>1</sup> Oklahoma Agricultural Experiment Station

- 78 11:00 Influence of progesterone on estrous characteristics and pregnancy rate of grazing beef cows R. Flores<sup>\*1</sup>, M. L. Looper<sup>2</sup>, D. L. Kreider<sup>1</sup>, C. F. Rosenkrans, Jr.<sup>1</sup>, <sup>1</sup>University of Arkansas, Fayetteville, <sup>2</sup>USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR
- 79 11:15 CIDR and MGA synchronization protocols with timed insemination in beef heifers. Nathan M. Post<sup>\*1</sup>, David L. Kreider<sup>1</sup>, Rick W. Rorie<sup>1</sup>, <sup>1</sup>University of Arkansas

## Small Ruminant Production III - Nutrition and Species Co-grazing

Room: Directors Row 3

Tuesday 8:00 – 11:15

Chair: Joan Burke, USDA-ARS, Booneville, AR

- | Abstract | Time  |  |
|----------|-------|--|
| 118      | 8:00  | <b>Invited Paper:</b> Nutrient Requirements of Goats: Web-Based Calculator A. L. Goetsch <sup>*1</sup> , T. A. Gipson <sup>1</sup> , T. Sahlul <sup>1</sup> , R. C. Merkel <sup>1</sup> , <sup>1</sup> E (Kika) de la Garza American Institute for Goat Research, Langston University, Langston, OK  |
| 119      | 8:45  | Metabolizable protein requirements for maintenance and gain of growing goats J. Luo <sup>1</sup> , A. L. Goetsch <sup>*1</sup> , I. V. Nsahlai <sup>2</sup> , T. Sahlul <sup>1</sup> , <sup>1</sup> E (Kika) de la Garza American Institute for Goat Research, Langston University, Langston, OK, <sup>2</sup> Department of Animal and Poultry Science, University of Natal, Scottsville, R. South Africa   |
| 120      | 9:00  | Determination of Nitrogen Balance in Goats Fed the Byproduct, Secondary Protein Nutrients S.R. Freeman <sup>*1</sup> , M.H. Poore <sup>1</sup> , G.B. Huntington <sup>1</sup> , <sup>1</sup> North Carolina State University   |
| 121      | 9:15  | Effects of ruminally protected betaine and choline on net flux of nutrients across the portal-drained viscera and liver of meat goats consuming diets differing in protein concentration. R. Puchala <sup>*1</sup> , V. Banskalieva <sup>1</sup> , A.L. Goetsch <sup>1</sup> , J. Luo <sup>1</sup> , T. Sahlul <sup>1</sup> , <sup>1</sup> E (Kika) de la Garza American Institute for Goat Research, Langston University, Langston, OK  |
|          | 9:30  | Break  |
| 122      | 10:00 | Content and fatty acid composition of plasma lipids in lactating goats fed sunflower oil supplemented diet Veneta B. Banskalieva <sup>*1</sup> , Veneta L. Tzvetkova <sup>1</sup> , Penka T. Marinova <sup>1</sup> , <sup>1</sup> Institute of Animal Science  |
| 123      | 10:15 | Mixed-species and grazing management effects on the performance of goats: Preliminary Observations. S. Gebrelul <sup>1</sup> , A. Chappell <sup>1</sup> , Y. Ghebreyessus <sup>1</sup> , A. Harris <sup>*1</sup> , M. Berhane <sup>1</sup> , <sup>1</sup> Southern University Agricultural Research and Extension Center   |
| 124      | 10:30 | The effects of mixed-species and grazing management on the performance of Brangus cows: Early Observations. A. Chappell <sup>*1</sup> , S. Gebrelul <sup>1</sup> , V. Bachiredy <sup>1</sup> , O. Udoh <sup>1</sup> , G. Simon <sup>1</sup> , <sup>1</sup> Southern University Agricultural Research and Extension Center  |
| 125      | 10:45 | Effects of stocking rate on grazing behavior of sheep and goats co-grazing mixed pastures G. Anmut <sup>*1,2</sup> , A. L. Goetsch <sup>1</sup> , G. E. Aiken <sup>3</sup> , R. Puchala <sup>1</sup> , G. Detweiler <sup>1</sup> , C. R. Krehbiel <sup>2</sup> , R. C. Merkel <sup>1</sup> , T. Sahlul <sup>1</sup> , L. J. Dawson <sup>4</sup> , Z. B. Johnson <sup>5</sup> , <sup>1</sup> E (Kika) de la Garza American Institute for Goat Research, Langston University, Langston, OK, <sup>2</sup> Animal Science Department, Oklahoma State University, Stillwater, OK, <sup>3</sup> USDA ARS Dale Bumpers Small Farms Research Center, Booneville, AR, <sup>4</sup> College of Veterinary Medicine, Oklahoma State University, Stillwater, OK, <sup>5</sup> Department of Animal Science, University of Arkansas, Fayetteville, AR |
| 126      | 11:00 | Effects of stocking rate on performance of sheep and goats co-grazing mixed pastures G. Anmut <sup>*1,2</sup> , A. L. Goetsch <sup>1</sup> , G. E. Aiken <sup>3</sup> , R. Puchala <sup>1</sup> , G. Detweiler <sup>1</sup> , C. R. Krehbiel <sup>2</sup> , R. C. Merkel <sup>1</sup> , T. Sahlul <sup>1</sup> , L. J. Dawson <sup>4</sup> , Z. B. Johnson <sup>5</sup> , <sup>1</sup> E (Kika) de la Garza American Institute for Goat Research, Langston University, Langston, OK, <sup>2</sup> Animal Science Department, Oklahoma State University, Stillwater, OK, <sup>3</sup> USDA ARS Dale Bumpers Small Farms Research Center, Booneville, AR, <sup>4</sup> College of Veterinary Medicine, Oklahoma State University, Stillwater, OK, <sup>5</sup> Department of Animal Science, University of Arkansas, Fayetteville, AR      |

## Pasture and Forages II

Room: Directors Row 5

Tuesday 1:00 – 3:45

Chairs: John Andrae and John Stuedemann, University of Georgia and USDA-ARS, Athens, GA

- | Abstract | Time |  |
|----------|------|--|
| 9        | 1:00 | <b>Invited Paper:</b> Recent advances in legumes for grazing livestock production John G. Andrae, University of Georgia, Athens  |
| 10       | 1:30 | Evaluation of forage production and quality of triticale cultivars M. Lema <sup>0</sup> , E. Cebert <sup>0</sup> , <sup>1</sup> Tennessee State University, <sup>2</sup> Alabama A & M University  |
| 11       | 1:45 | Effects of supplementing soybean meal, corn or soybean hulls to steers consuming rice straw on <i>in vivo</i> digestibility. Von T. Nguyen <sup>*1</sup> , Brian J. Rude <sup>1</sup> , David G. St. Louis <sup>1</sup> , <sup>1</sup> Mississippi State University  |
| 12       | 2:00 | Effects of supplementing soybean meal, corn or soybean hulls to steers consuming rice straw on <i>in situ</i> disappearance of rice straw DM and rumen environment. Von T. Nguyen <sup>*1</sup> , Brian J. Rude <sup>1</sup> , David G. St. Louis <sup>1</sup> , <sup>1</sup> Mississippi State University |
|          | 2:15 | Break  |
| 13       | 2:45 | <b>Invited Paper:</b> The role of crabgrass in southern forage systems Ryan Reuter, Noble Foundation, Ardmore, Oklahoma  |

- 14 3:15 Fiber Composition and NDF Degradation Kinetics of Crabgrass Harvested on Seven Dates in Northern Arkansas R. K. Ogden\*<sup>1</sup>, W. K. Coblenz<sup>1</sup>, K. P. Coffey<sup>1</sup>, J. E. Turner<sup>1</sup>, D. A. Scarbrough<sup>1</sup>, J. A. Jennings<sup>1</sup>, M. D. Richardson<sup>1</sup>, <sup>1</sup>University of Arkansas
- 15 3:30 Effects of diet on performance, reproduction, and economics of market cows grazing stockpiled fescue M. L. Looper\*<sup>1</sup>, G. E. Aiken<sup>2</sup>, R. Flores<sup>3</sup>, C. F. Rosenkrans, Jr.<sup>3</sup>, <sup>1</sup>USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR, <sup>2</sup>USDA-ARS, Forage and Animal Production Research Unit, Lexington, KY, <sup>3</sup>University of Arkansas, Fayetteville, AR

## Breeding and Genetics

Room: Directors Row 2

Tuesday 1:00 – 4:30

Chair: David Riley, USDA-ARS, Brooksville, FL

- | <b>Abstract</b> | <b>Time</b> |   |
|-----------------|-------------|---|
| 16              | 1:00        | Influence of the sex-linked feathering locus on performance and carcass traits of the broiler breeder chickens. S. N. Nahashon* <sup>1</sup> , J. Bartlett <sup>3</sup> , E. J. Smith <sup>2</sup> , <sup>1</sup> Institute of Agricultural and Environmental Research, Tennessee State University, <sup>2</sup> Department of Animal and Poultry Science, Virginia Polytechnic and State University, <sup>3</sup> Department of Agricultural Sciences, Tuskegee University   |
| 17              | 1:15        | Evaluation of Romosinuano as straightbreds and crossbreds with Angus and Brahman: preweaning calf traits D. G. Riley* <sup>1</sup> , C. C. Chase, Jr. <sup>1</sup> , S. W. Coleman <sup>1</sup> , T. A. Olson <sup>2</sup> , <sup>1</sup> USDA, ARS, STARS, <sup>2</sup> Univ. Florida  |
| 18              | 1:30        | Evaluation of Romosinuano as straightbreds and crossbreds with Angus and Brahman: Stocker and feedlot gains W. A. Phillips* <sup>1</sup> , S. W. Coleman <sup>2</sup> , D. G. Riley <sup>2</sup> , C. C. Chase, Jr. <sup>2</sup> , H. S. Mayeux <sup>1</sup> , <sup>1</sup> USDA-ARS Grazinglands Research Laboratory, El Reno, OK, <sup>2</sup> USDA-ARS Subtropical Agricultural Research Station, Brooksville, FL  |
| 19              | 1:45        | Evaluation of Romosinuano as straightbreds and crossbreds with Angus and Brahman: carcass traits S. W. Coleman* <sup>1</sup> , D. G. Riley <sup>1</sup> , C. C. Chase, Jr. <sup>1</sup> , W. A. Phillips <sup>2</sup> , W. J. Horne <sup>3</sup> , J. H. Byrd <sup>3</sup> , <sup>1</sup> USDA, ARS, SubTropical Agricultural Research Station, Brooksville, FL, <sup>2</sup> USDA, ARS, Grazinglands Research Laboratory, El Reno, OK, <sup>3</sup> Texas Tech University, Lubbock   |
| 20              | 2:00        | Relationship of Sire Estimated Progeny Differences to Milk Yield in Brangus Cows M. A. Brown* <sup>1</sup> , S. W. Coleman <sup>2</sup> , D. L. Lalman <sup>3</sup> , <sup>1</sup> USDA-ARS, Grazinglands Research Laboratory, El Reno, OK 73036, <sup>2</sup> USDA-ARS, Subtropical Agricultural Research Station, Brooksville, FL 34601, <sup>3</sup> Oklahoma State University, Stillwater, 74074  |
| 21              | 2:15        | Differences in calf performance and milk production for daughters of high and low Milk EPD Angus and Hereford bulls. D.G. Bounds* <sup>1</sup> , R.J. Hammack <sup>1</sup> , S. Erat <sup>1</sup> , D.S. Buchanan <sup>1</sup> , <sup>1</sup> Oklahoma State University   |
|                 | 2:30        | Break   |
| 22              | 3:00        | Heterosis retention in Brahman-Angus and Brahman-Hereford F <sub>2</sub> cows for reproductive traits and maternal effects on survival and weight traits of their calves. K.L. Key* <sup>1</sup> , J.O. Sanders <sup>1</sup> , D.K. Lunt <sup>1</sup> , <sup>1</sup> Texas A&M University   |
| 23              | 3:15        | Evaluation of ultrasound body composition traits among long yearling Brahman bulls D. T. Dean* <sup>1</sup> , A. D. Herring <sup>1</sup> , <sup>1</sup> Texas A&M University, College Station   |
| 24              | 3:30        | Residual feed intake of growing bulls and relationships with temperament, fertility and performance traits J.T. Fox* <sup>1</sup> , G.E. Carstens <sup>1</sup> , E.G. Brown <sup>1</sup> , M.B. White, III <sup>1</sup> , S.A. Woods <sup>1</sup> , T.H. Welsh, Jr. <sup>1</sup> , J.W. Holloway <sup>2</sup> , B.G. Warrington <sup>2</sup> , R.D. Randel <sup>3</sup> , D.W. Forrest <sup>1</sup> , D.K. Lunt <sup>4</sup> , <sup>1</sup> Texas Agriculture Experiment Station, College Station, <sup>2</sup> Texas Agriculture Experiment Station, Uvalde, <sup>3</sup> Texas Agriculture Experiment Station, Overton, <sup>4</sup> Texas Agriculture Experiment Station, McGregor |
| 25              | 3:45        | Postpartum maternal behavior score and preweaning calf performance in six breed groups of beef cattle A. H. Brown, Jr.* <sup>1</sup> , Z. B. Johnson <sup>1</sup> , J. A. Hornsby <sup>1</sup> , B. A. Sandelin <sup>1</sup> , R. T. Baublits <sup>1</sup> , <sup>1</sup> University of Arkansas  |
| 26              | 4:00        | Effects of climatic and phototropic conditions prior to feeding on feed intake of beef bulls during feedlot performance tests G. T. Tabler* <sup>1</sup> , A. H. Brown, Jr. <sup>1</sup> , Z. B. Johnson <sup>1</sup> , E. E. Gbur, Jr. <sup>1</sup> , I. L. Berry <sup>1</sup> , K. C. Thompson <sup>1</sup> , D. W. Kellogg <sup>1</sup> , <sup>1</sup> University of Arkansas  |
| 27              | 4:15        | Sire breed and dam breed effects on preweaning traits of crossbred and purebred calves from Angus or Hereford dams E. L. Oxford* <sup>1</sup> , A. H. Brown, Jr. <sup>1</sup> , Z. B. Johnson <sup>1</sup> , <sup>1</sup> University of Arkansas  |

## Physiology 2

Room: Directors Row 3

Tuesday, 1:00 – 4:45

Chair: Rhonda Vann, Mississippi State University, Brown Loam Branch Experiment Station, Raymond, MS

- | <b>Abstract</b> | <b>Time</b> |  |
|-----------------|-------------|--|
| 80              | 1:00        | <b>Invited Paper:</b> Breeding Dairy Cattle during summer heat stress: Current strategies, pros and cons Scott T. Willard, Mississippi State University, Starkville  |
| 81              | 2:00        | Vaginal and skin temperatures of Holstein cows under conditions of heat stress in the tropics R.W. Godfrey* <sup>1</sup> , R.E. Dodson <sup>1</sup> , A.J. Weis <sup>1</sup> , <sup>1</sup> University of the Virgin Islands, Agricultural Experiment Station  |
| 82              | 2:15        | Production and physiological differences between large and small Holstein cows cooled with fans or fans and sprinklers. S. Bowers* <sup>1</sup> , S. Gandy <sup>1</sup> , T. Adams <sup>2</sup> , J. Murphey <sup>2</sup> , S. Willard <sup>1</sup> , <sup>1</sup> Mississippi State University, <sup>2</sup> Coastal Plain Experiment Station |

- 83 2:30 The effects of brown mid-rib (BMR) corn silage and tunnel ventilation cooling on symptoms of heat stress in lactating dairy cows. R.J. Williams\*<sup>1</sup>, A.M. Chapa<sup>1</sup>, T.O. Riley<sup>2</sup>, D.O. Pouge<sup>2</sup>, S.T. Willard<sup>1</sup>, T.R. Smith<sup>1</sup>, <sup>1</sup>Department of Animal and Dairy Sciences, Mississippi State University, <sup>2</sup>North Mississippi Branch Experiment Station, Holly Springs, MS
- 84 2:45 Relationship between animal temperament and stress physiology in Brahman cows. K. O. Curley, Jr.\*<sup>1</sup>, D. A. Neuendorff<sup>2</sup>, A. W. Lewis<sup>2</sup>, J. J. Cleere<sup>2</sup>, T. H. Welsh, Jr.<sup>1</sup>, R. D. Randel<sup>2</sup>, <sup>1</sup>Texas Agricultural Experiment Station, College Station, <sup>2</sup>Texas Agricultural Experiment Station, Overton
- 3:00 Break
- 85 3:30 Profiling mastitis in dairy cows: A case study of natural infection and thermal responsiveness S. Schmidt\*<sup>1</sup>, P. Hillman<sup>2</sup>, C. Lee<sup>3</sup>, K. Graves<sup>1</sup>, D. Hostetler<sup>1</sup>, S. Willard<sup>1</sup>, <sup>1</sup>Mississippi State University, <sup>2</sup>Cornell University, <sup>3</sup>University of Hawaii
- 86 3:45 Breedtype influences hypothalamic-pituitary-adrenal axis activity and responsiveness to exogenous bovine corticotropin-releasing hormone (bCRH) in beef steers L.E. Jonovich\*<sup>1</sup>, R.J. Hollenbeck<sup>1</sup>, K.O. Curley, Jr.<sup>1</sup>, R.D. Randel<sup>2</sup>, T.H. Welsh, Jr.<sup>1</sup>, <sup>1</sup>Texas Agricultural Experiment Station, College Station, <sup>2</sup>Texas Agricultural Experiment Station, Overton
- 87 4:00 Discrimination between two levels of indigenous external parasite burden in free-ranging beef cattle via near infrared reflectance spectroscopy of feces. Pete D. Teel\*<sup>1</sup>, Otto F. Strey<sup>1</sup>, Russell E. Wright<sup>2</sup>, Lisa A. Coburn<sup>2</sup>, Douglas R. Tolleson<sup>1</sup>, Jerry W. Stuth<sup>1</sup>, <sup>1</sup>Texas Agricultural Experiment Station, College Station, <sup>2</sup>Oklahoma Agricultural Experiment Station, Stillwater
- 88 4:15 Effects of a Lone Star tick (*Amblyomma americanum*) burden on growing beef steers: Intake, weight gain, and metabolic indicators. Douglas R. Tolleson\*<sup>1</sup>, Jerry W. Stuth<sup>1</sup>, Pete D. Teel<sup>1</sup>, Otto F. Strey<sup>1</sup>, Tina M. Bryan<sup>1</sup>, Kerry A. Dean<sup>1</sup>, Gordon E. Carstens<sup>1</sup>, Thomas H. Welsh Jr.<sup>1</sup>, <sup>1</sup>Texas Agricultural Experiment Station, College Station
- 89 4:30 Effects of a Lone Star tick (*Amblyomma americanum*) burden on growing beef steers: Near infrared spectra of feces. Douglas R. Tolleson\*<sup>1</sup>, Jerry W. Stuth<sup>1</sup>, Pete D. Teel<sup>1</sup>, Otto F. Strey<sup>1</sup>, Thomas H. Welsh Jr.<sup>1</sup>, Gordon E. Carstens<sup>1</sup>, Kerry A. Dean<sup>1</sup>, <sup>1</sup>Texas Agricultural Experiment Station, College Station

# Southern Section American Society of Animal Science

## Past Presidents

2002-03	D. K. Aaron	University of Kentucky
2001-02	T. R. Troxel	University of Arkansas
2000-01	L. L. Southern	Louisiana State University
1999-00	R. P. Wettemann	Oklahoma State University
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1996-97	P.R. Harms	Texas A&M University
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1994-95	D.S. Buchanan	Oklahoma State Univ.
1993-94	P.R. Nolan	University of Arkansas
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1991-92	R.W. Harvey	NC State University
1990-91	D.E. Franke	Louisiana State Univ.
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1987-88	D.G. Spruill	University of Georgia
1986-87	G.L. Cromwell	University of Kentucky
1985-86	B. Baker, Jr.	Mississippi State Univ.
1984-85	C.B. Ammerman	University of Florida
1983-84	W.G. Luce	Oklahoma State Univ.
1982-83	J.R. Hill	Clemson University
1981-82	J.W. Turner	Louisiana State Univ.
1980-81	A.M. Sorenson	Texas A&M University
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1978-79	E.R. Barrick	NC State University
1977-78	R.L. McGuire	Auburn University
1976-77	J.J. Guenther	Oklahoma State Univ.
1975-76	C.J. Brown	University of Arkansas
1974-75	S.L. Hansard	University of Tennessee
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1971-72	G.E. Mitchell, Jr.	University of Kentucky
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1968-69	R.C. Carter	VPI & SU
1967-68	G.L. Robertson	Louisiana State Univ.
1966-67	C.E. Lindley	Mississippi State Univ.
1965-66	R.F. Sewell	University of Georgia
1964-65	W.M. Warren	Auburn University
1963-64	R.F. Wheeler	Clemson University
1962-63	E.J. Warrick	USDA
1961-62	G.K. Davis	University of Florida
1960-61	W. Gifford	University of Arkansas
1959-60	J.A. Whatley	Oklahoma State Univ.
1957-58	B.L. Southwell	University of Georgia
1956-57	W.P. Garrigus	University of Kentucky
1955-56	J.C. Miller	Texas A&M University
1954-55	R.A. Damon	Louisiana State Univ.
1953-54	A.E. Cullison	University of Georgia
1952-53	C.M. Kincaid	VPI & SU
1951-52	R.S. Glasscock	University of Florida
1950-51	H.H. Levek	Mississippi State Univ.
1949-50	J.E. Foster	University of Maryland
1948-49	H.M. Briggs	Oklahoma State Univ.
1947-48	E.C. Godbey	Clemson University
1946-47	J.C. Grimes	Auburn University
1941-42	R.E. Hunt	VPI & SU
1940-41	M.G. Snell	Louisiana State Univ.
1939-40	L.E. Richardson	University of Tennessee

1938–39	E.W. Sheets	USDA
1937–38	L.I. Case	NC State University
1936–37	M.P. Jarnigan	University of Georgia
1935–36	J.B. Francioni	Louisiana State Univ.
1934–35	A.L. Shealy	University of Florida
1933–34	L.V. Starkey	Clemson University
1932–33	W.L. Blizzard	Oklahoma State Univ.

### American Society of Animal Science Distinguished Service Award Recipients

2003	Don E. Franke	Louisiana
2002	Fred Thrift	Kentucky
2001	Robert Wettmann	Oklahoma
2000	Philip Utley	Georgia
1999	Paul R. Noland	Arkansas
1998	Not Given	
1997	William G. Luce	Oklahoma
1996	Raymond W. Harvey	North Carolina
1995	Gary L. Cromwell	Kentucky
1994	George E. Mitchell, Jr.	Kentucky
1993	L.E. McDowell	Florida
1992	Joseph Fontenot	Virginia
1991	Robert Totusek	Oklahoma
1990	Virgil Hays	Kentucky
1989	Frank Baker	Arkansas
1988	Clarence B. Ammerman	Florida
1987	Lowell E. Walters	Oklahoma
1986	Lemuel Goode	North Carolina
1985	O.M. Hale	Georgia
1984	L.C. Ulberg	North Carolina
1983	C.J. Brown	Arkansas
1982	W.C. McCormick	Georgia
1981	Elliot R. Barrick	North Carolina
1980	J.A. Whatley, Jr.	Oklahoma
1979	Marvin Koger	Florida
1978	Thomas J. Marlowe	Virginia
1977	Sam Hansard	Tennessee
1976	J.C. Hillier	Oklahoma
1975	J.K. Riggs	Texas
1974	T.J. Cunha	Florida
1973	O.D. Butler	Texas
1972	George W. Litton	Virginia
1971	Ray H. Dutt	Kentucky
1970	Robert C. Carter	Virginia
1969	Henry H. Leveck	Mississippi
1968	Wesley P. Garrigus	Kentucky
1967	Byron L. Southwell	Georgia
1966	Charles S. Hobbs	Tennessee

### American Society of Animal Science Extension Award Recipients

2003	Darrh Bullock	Kentucky
2002	Warren Gill	Tennessee
2001	Walter R. Burris	Kentucky
2000	Tom R. Troxel	Arkansas
1999	George V. Davis, Jr.	Arkansas
1998	G. L. Monty Chappel	Kentucky
1997	Steven H. Umberger	Virginia
1996	Clyde D. Lane, Jr.	Tennessee
1995	John T. Johns	Kentucky
1994	David W. Freeman	Oklahoma
1993	J.R. Jones	North Carolina
1992	James B. Neel	Tennessee
1991	Keith Lusby	Oklahoma
1990	Joe Hughes	Oklahoma
1989	Henry Webster	Clemson

1988	Donald R. Gill	Oklahoma
1987	H. John Gerken, Jr.	Virginia
1986	M.K. Cook	Georgia
1985	W.G. Luce	Oklahoma
1984	Charles Cooper	Virginia
1983	C.W. Absher	Kentucky
1982	C.M. Triplett	Georgia
1981	Arden N. Huff	Virginia
1980	A.L. Eller, Jr.	Virginia

#### American Society of Animal Science Academic Quadrathlon Winners

2003	Texas A&M University
2002	University of Florida
2001	University of Kentucky
2000	Texas A&M University
1999	University of Kentucky
1998	University of Kentucky
1997	Oklahoma State University
1996	Oklahoma State University
1995	Virginia Tech
1994	Oklahoma State University
1993	Texas A&M University
1992	Oklahoma State University
1991	University of Kentucky
1990	Virginia Tech
1989	Oklahoma State University
1988	Texas A&M University
1987	University of Georgia
1986	University of Georgia
1985	University of Kentucky
1984	Texas A&M University

#### American Society of Animal Science Young Animal Scientist Award Recipients

2003 <sup>1</sup>	Sam Jackson	Texas Tech University
2003 <sup>2</sup>	Tom Spencer	Texas A&M University
2002 <sup>1</sup>	Joel Yelich	University of Florida
2002 <sup>2</sup>	Beth Kegley	University of Arkansas
2001 <sup>1</sup>	Shawn Ramsey	Texas A&M University
2001 <sup>2</sup>	Jason Apple	University of Arkansas
2000 <sup>1</sup>	Andy D. Herring	Texas Tech University
1999 <sup>2</sup>	Chad C. Chase, Jr.	USDA,ARS
1998 <sup>1</sup>	Markus F. Miller	Texas Tech University
1998 <sup>2</sup>	Arthur L. Goetsch	Langston University
1997 <sup>1</sup>	Tim Marshall	University of Florida
1996 <sup>1</sup>	William L. Flowers	NC State University
1996 <sup>2</sup>	Markus F. Miller	Texas Tech University
1995 <sup>1</sup>	Craig H. Wood	University of Kentucky
1995 <sup>2</sup>	Jeffrey D. Armstrong	NC State University
1994 <sup>1</sup>	Debra K. Aaron	University of Kentucky
1994 <sup>2</sup>	Peter J. Hansen	University of Florida
1993 <sup>1</sup>	Kevin Pond	NC State University
1993 <sup>2</sup>	Rod Geisert	Oklahoma State Univ.
1992 <sup>1</sup>	David S. Buchanan	Oklahoma State Univ.
1992 <sup>2</sup>	James L. Sartin	Auburn University
1991 <sup>1</sup>	W.E. Beal	VPI & SU
1991 <sup>2</sup>	Wayne Greene	Texas A&M University
1990 <sup>1</sup>	J.W. Mabry	University of Georgia
1990 <sup>2</sup>	T.H. Welsh	Texas A&M University
1989	J.W. Spears	NC State University
1988	S.B. Smith	Texas A&M University
1987	D.L. Thompson, Jr.	Louisiana State Univ.
1986	G.J. Hausman	USDA, ARS, Athens, GA
1985	J.W. Savell	Texas A&M University
1984	D.R. Notter	VPI & SU

1983	T.S. Stahly	University of Kentucky
1982	D.N. Marple	Auburn University

<sup>1</sup>Education  
<sup>2</sup>Research

### NPPC Swine Industry Award Recipients

2003	Theo van Kempen	NC State University
2002	Kim Cole	University of Arkansas
2001		
2000	Not given	
1999	Not given	
1998	Robert A. Cushman	NC State University
1997	M. Todd See	NC State University
1996	William L. Flowers	NC State University
1995	M. Todd See	NC State University
1994	Robert Dove	University of Georgia

### American Society of Animal Science Graduate Student Paper Award Recipients

Year	Awardee	Place of Meeting	University
2003	C. Realini	Mobile	Univ. of Georgia
2002	J. A. Parish	Orlando	Univ. of Georgia
2001	J. Montgomery	Ft. Worth	Texas Tech University
2000	M. R. Stivarious	Lexington	University of Arkansas
1999	T. E. Engle	Memphis	NC State University
1998	C. Barnett	Little Rock	Univ. of Tennessee
1997	D.H. Crews, Jr.	Birmingham	Louisiana State Univ.
1996	None Given		
1995	E.B. Kegley	New Orleans	NC State University
1994	R.D. Coffey	Nashville	University of Kentucky
1993	D.K. Bishop	Tulsa	Oklahoma State Univ.
1992	R.L. Stanko	Lexington	NC State University
1991	G.A. Rohrer	Ft. Worth	Texas A&M University
1990	K.A. Meurer	Little Rock	Mississippi State Univ.
1989	G.M. Davenport	Nashville	University of Kentucky
1988	M.J. Esteinne	New Orleans	University of Georgia
1987	T.W. Burnell	Nashville	University of Kentucky
1986	M.J. Wylie	Orlando	Texas A&M University
1985	M.W. Richards	Biloxi	Clemson University
1984	J.C. Betts	Nashville	Texas A&M University
1983	J.B. Lutz	Atlanta	University of Georgia
1982	K.R. Pond	Orlando	Texas A&M University
1981	L.W. Greene	Atlanta	VPI & SU
1980	D.K. Aaron	Hot Springs	University of Kentucky
1979	T.W. Robb	New Orleans	University of Kentucky
1978	E.F. Gray	Houston	University of Kentucky
1977	T.A. Puglisi	Atlanta	University of Georgia
1976	D.L. Thomas	Mobile	Oklahoma State Univ.
1975	J.C. Cornwell	New Orleans	Louisiana State Univ.
1974	D.M. Hallford	Memphis	Oklahoma State Univ.
1973	A.C. Mills	Atlanta	University of Florida
1972	C. McLellan, Jr.	Richmond	Oklahoma State Univ.
1971	C.L. Fields	Jacksonville	University of Kentucky
1970	A.R. Bellve	Memphis	NC State University
1969	W.L. Brown	Mobile	Auburn University
1968	W.E. Powell	Louisville	Auburn University
1967	F.W. Bazer	New Orleans	NC State University
1966	D.G. Ely	Jackson	University of Kentucky
1965	R.D. Goodrich	Dallas	Oklahoma State Univ.
1964	C.K. Vincent	Atlanta	NC State University

1963	C.B. Ramsey	Memphis	Univ. of Tennessee
1962	J.R. Crockett	Jacksonville	University of Florida

American Society of Animal Science  
Undergraduate Student Paper Award Recipients

<b>Year</b>	<b>Awardee</b>	<b>Place of Meeting</b>	<b>University</b>
2003	M. Seitz	Mobile	Mississippi State Univ.
2002	B. Spader	Orlando	University of Missouri
2001	R. Horsley	Ft. Worth	Virginia Polytechnic Univ.
2000	B. Robbins	Lexington	Virginia Tech
1999	J. L. Bardugone	Memphis	Virginia Tech
1998	S. F. Flohr	Little Rock	Virginia Tech
1997	T.M. Weick	Birmingham	Louisiana State Univ.
1996	K. J. Goodson	Greensboro	Texas A&M University
1995	B. C. Bloom	New Orleans	Auburn University
1994	Beth Good	Nashville	Oklahoma State Univ.
1993	C.J. Kirby	Tulsa	NC State University

# 2003-2004 SOUTHERN SECTION ASAS COMMITTEE CHAIRS AND CONTACT INFORMATION

## Program Committees

### Animal Science/Forages Joint Session

Stuedemann, J, GA  
Jennings, J, AR  
Andrae, J, GA  
Mullin, M, KY

### Breeding and Genetics

Riley, D, FL  
Dzakuma, J, TX  
DeRouen, S, LA

### Extension

Harper, A, VA  
Hall, J, VA  
Johns, J, KY

### Meats

Mikel, B, KY  
Duckett, S, GA  
Apple, J, AR

### Nonruminant Animal Production

Harper, A, VA  
Maxwell, C, AR

### Physiology

Stanko, R, TX  
Hall, J, VA  
Estienne, M, VA  
Vann, R, MS

### Ruminant Animal Production

Huntington, G, NC  
Brown, M, TX  
Anderson, L, KY  
Spears, J, NC

### Small Ruminant Production

Browning, R, TN  
Burke, J, AR  
Jackson, S, TX  
Hart, SP, OK

### Teaching and Undergraduate Education

Rude, B, MS  
Fernandez, JM, LA  
Brown, AH, Jr., AR  
Moore, J, NC

Minority Issues  
Browning, R, TN

## ASAS Committees

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Baker, JF, GA  
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Coleman, DA, AL  
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Humes, P, LA  
Wettemann, R, OK  
Hembry, G, FL  
Troxel, TR, AR  
Kiser, T, MS  
Browning, R, TN

Distinguished Service Award  
Morrison, D, LA  
Fontenot, J, VA  
Ammerman, C, FL  
Cromwell, G, KY  
Franke, D, LA

Graduate Student Award  
Greene, W, TX  
Brooks, C, TX  
Franke, D, LA  
Schmidt, S, AL  
Willard, S, MS

Young Animal Scientist Award - Research  
Chase, C, FL  
Apple, J, AR  
Kegley, E., AR  
Wettman, R, OK  
Spencer, T, TX

Young Animal Scientist Award - Education  
Selk, G, OK  
Ramsey, S, TX  
Yelich, J, FL  
Rosenkrans, C, AR  
Jackson, S, TX

Extension Award  
Burriss, R, KY  
Baker, JF, GA  
Lane, C, TN  
Gill, W, TN  
Bullock, D, KY

NPB Award  
Baker, JF, GA  
van Kempen, T, NC  
Harper, A, VA

Necrology  
Chappell, GLM, KY  
Brown, AH, Jr., AR

Nomination  
Ely, D, KY  
Getz, W, GA  
Troxel, TR, AR  
Hembry, G, FL

Resolutions  
Wettemann, R, OK  
Hill, G, GA

Academic Quadrathlon  
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Sterle, J, TX  
Yelich, J, FL  
Coleman, D, AL  
Carter, S, OK