

SOUTHERN SECTION

American Society
of Animal Science

**ANNUAL
MEETING**

February 1-6, 2002
Orlando, Florida

In Conjunction with the 99th
Annual Convention
of the Southern Association
of Agricultural Scientists

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ANIMAL SCIENCE
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2001-2002**

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Southeastern Regional Academic Quadrathlon

February 2 - 4, 2002
Activities sponsored by Vigortone Ag Products, Inc.

Schedule of Events

Friday, February 1
10:00 pm Advisor's Meeting

Cabot Lodge Hotel
Gainesville, FL

Saturday, February 2
8:00 am - 12:00 noon ---- Lab Practicum
1:00 pm - 5:00 pm ----Written Exam

University of Florida
Gainesville, FL

Sunday, February 3
8:00 am - 5:00 pm --- Oral Presentations
Quiz Bowl

Osprey, Swan, and Boardroom
Radisson Hotel
Orlando, FL

Monday, February 4
8:00 am - 9:30 am ---- Quiz Bowl Final Round
Presentation of Awards

Egret
Radisson Hotel
Orlando, FL

Program Events

Friday, February 1	P.M.	Room
Academic Quadrathlon		
Advisor's Meeting	10:00 - 11:00	Cabot Lodge Hotel, Gainesville, FL
Saturday, February	A.M.	Room
Academic Quadrathlon		
Lab Practicum	8:00 - Noon	University of Florida, Gainesville
	P.M.	Room
Academic Quadrathlon		
Written Exam	1:00 - 5:00	University of Florida, Gainesville
Sunday, February 3	A.M.	Room
Academic Quadrathlon		
Quiz Bowl - Intermediate Rounds	8:00 - Noon	Ospry
Quiz Bowl - Intermediate Rounds	8:00 - Noon	Swan
Oral Presentations	8:00 - Noon	Boardroom
Oral Presentations - Preparation	8:00 - Noon	Exec Suite I
Oral Presentations - Preparation	8:00 - Noon	Exec Suite II
Oral Presentations - Preparation	8:00 - Noon	Exec Suite III
Oral Presentations - Preparation	8:00 - Noon	Exec Suite IV
	P.M.	Room
Registration	1:00 - 5:00	Foyer
Academic Quadrathlon		
Quiz Bowl - Intermediate Rounds	1:00 - 5:00	Ospry
Quiz Bowl - Intermediate Rounds	1:00 - 5:00	Swan
Oral Presentations	1:00 - 5:00	Boardroom
Oral Presentations - Preparation	1:00 - 5:00	Exec Suite I
Oral Presentations - Preparation	1:00 - 5:00	Exec Suite II
Oral Presentations - Preparation	1:00 - 5:00	Exec Suite III
Oral Presentations - Preparation	1:00 - 5:00	Exec Suite IV
Reproduction IEG	1:00 - 4:00	Eagle
IEG-75, Supplementation Strategies for		
Cattle Using Southern Forages	1:00 - 4:00	Egret
Small Ruminant IEG	3:00 - 6:00	Flamingo
SAAS General Session	4:00 - 6:30	

Monday, February 4	A.M.	Room
Registration	7:00 - Noon	Foyer
Academic Quadrathlon Quiz Bowl Finals and Awards Presentation	8:00 - 9:30	Egret
Graduate Student Paper Competition	8:00 - 12:30	Flamingo/Eagle

	P.M.	Room
Registration	1:00 - 5:00	Foyer
Undergraduate Paper Competition	1:00 - 3:00	Swan
Small Ruminant Production I Physiology I	1:00 - 2:45	Osprey
Meats	1:00 - 3:00	Flamingo
Symposium I - Ranch Mgt Systems	1:00 - 5:00	Eagle
Ruminant Animal Production I	1:25 - 5:00	Egret
Small Ruminant Production II	3:15 - 5:00	Flamingo
Symposium II - Undergraduate Education	3:00 - 4:30	Osprey
	3:30 - 4:30	Swan
Business Meeting	5:00 - 6:30	Egret

Tuesday, February 5	A.M.	Room
Registration	8:00 - Noon	Lobby
Breeding and Genetics	8:30 - Noon	Eagle
Small Ruminant Production III	8:00 - 10:15	Osprey
Ruminant Animal Production II	8:00 - 11:15	Flamingo
Extension	8:00 - 11:00	Egret
Physiology II	8:00 - 10:30	Swan
Small Ruminant Production IV	10:15 - 11:45	Osprey
Teaching and Undergraduate Education	10:45 - Noon	Swan

	P.M.	Room
Extension Luncheon	Noon - 2:00	Rounds
Animal Science/Forages	2:00 - 3:45	Swan
Symposium III - Extension	2:00 - 4:00	Osprey
Symposium IV - Forages	2:00 - 5:00	Flamingo

Southern Section ASAS Annual Meeting Program

SUNDAY P.M.

Registration

Radisson - Foyer
1:00 p.m. - 5:00 p.m.

Reproduction Information Exchange Group

Room: Eagle - Radisson
Sunday 1:00 p.m. - 4:00 p.m.
Presiding: Joel Yelich, University of Florida, Gainesville

Supplementation Strategies for Cattle Using Southern Forages - IEG-75

Room: Egret - Radisson
Sunday 1:00 p.m. - 4:00 p.m.

Small Ruminant Production Information Exchange Group

Room: Flamingo - Radisson
Sunday 3:00 p.m. - 6:00 p.m.
Presiding: Joan Burke, USDA, Agricultural Research Service, Booneville, Arkansas

MONDAY A.M.

Registration

Radisson - Foyer
7:00 a.m. - 12:00 Noon

Academic Quadrathlon - Quiz Bowl Final Round and Presentation of Awards

Room: Egret - Radisson
Monday 8:00 a.m. - 9:30 a.m.

Graduate Student Paper Competition

Room: Flamingo/Eagle - Radisson

Monday 8:00 a.m. - 12:30 p.m.

Presiding: Beth Kegley, University of Arkansas, Fayetteville

Abstract		
Time	No.	
8:00	33	Effects of novel endophyte-infected tall fescue on steer performance. M. Nihsen* ¹ , E. Piper ¹ , C. West ¹ , T. Denard ¹ , R. Crawford ² , Z. Johnson ¹ , and C. Rosenkrans, Jr. ¹ , ¹ University of Arkansas, Fayetteville, ² University of Missouri Southwest Research Center, Mt. Vernon.
8:15	34	Insulin-like growth factor-1 (IGF-1) modulation of macrophage tumor necrosis factor- α (TNF α) production in vitro. Liza A. Soliz* ¹ , Thomas H. Welsh, Jr. ² , and Jamie C. Laurenz ¹ , ¹ Texas A&M University-Kingsville, Kingsville, TX, ² Texas A&M University, College Station, TX.
8:30	35	The effect of nocturnal sampling on semen quality and the efficiency of collection in bovine species. J. H. Yates* ¹ , J. B. Paul ¹ , A. L. Canal ¹ , and J. E. Chandler ¹ , ¹ Louisiana State University Agricultural Center - Dairy Science Department.
8:45	36	The effect of Lutalyse on the training of sexually inexperienced boars for semen collection. D.M. Kozink*, M.J. Estienne, A.F. Harper, and J.W. Knight, Virginia Polytechnic Institute and State University, Blacksburg.
9:00	37	Weight necessary to adjust body condition scores in Angus cows. C.J. Tennant*, J.C. Spitzer, W.C. Bridges, Jr., and J.H. Hampton, Clemson University, Clemson, SC, USA.
9:15	38	Effects of ascorbic acid and alpha-tocopherol on physiological characteristics of boar spermatozoa. C. Golden* and C. Rosenkrans, Jr., University of Arkansas, Fayetteville.
9:30	39	Effectiveness of estradiol benzoate (EB) + progesterone (P) or GnRH at the initiation of a short term Melengesterol acetate (MGA) treatment in synchronizing crossbred <i>Bos indicus</i> cows for a timed-AI. MK. V. Dahms*, C. R. Barthle, G. P. Protillo, E. H. Hiers, W. W. Thatcher, and J. V. Yelich, University of Florida.
9:45	40	Characterizing the Origin and Transfer of Antibiotic Resistance in Swine Herds. K.N. Garner* and A.G. Mathew, University of Tennessee, Knoxville.
10:00		Break
10:15	41	Maternal performance of four divergent biological cow types grazing either common bermudagrass or endophyte-infected tall fescue. B.A. Sandelin* ¹ , A.H. Brown ¹ , M.A. Brown ² , Z.B. Johnson ¹ , and A.M. Stelzleni ¹ , ¹ University of Arkansas, ² USDA-ARS, Grazinglands Research Laboratory.
10:30	42	Evaluating scrotal circumference of bull calves prior to a 112-d gain test. J. L. Guerra* ¹ , D. E. Franke ¹ , D. E. Coombs ¹ , and A. R. Williams ² , ¹ Louisiana State University Agricultural Center, ² Mississippi State University.
10:45	43	Steer grazing behavior on non-toxic endophyte-infected, endophyte-free, and toxic endophyte-infected Jesup tall fescue. J. A. Parish* ¹ , M. A. McCann ¹ , R. H. Watson ¹ , J. S. McCann ¹ , J. H. Bouton ¹ , and C. S. Hoveland ¹ , ¹ The University of Georgia, Athens.
11:00	44	Effect of endophyte type on carcass traits, meat quality, and fatty acid composition of beef cattle grazing tall fescue. C.E. Realini* ¹ , S.K. Duckett ¹ , B.G. Lyon ² , C.S. Hoveland ¹ , J.H. Bouton ¹ , J.R. Sackmann ¹ , M.H. Gillis ¹ , and K.R. Smith ¹ , ¹ University of Georgia, ² USDA-ARS-Russell Research Center.
11:15	45	Effect of feeding different protein and energy supplements on performance and health of beef calves during the backgrounding period. R.J. Austin*, J.P. Fontenot, J. Fike, R.K. Shanklin, and A.B. Shank, Virginia Polytechnic Institute and State University, Blacksburg, VA.
11:30	46	Effects of forage and oil level on ruminal biohydrogenation and conjugated linoleic acid (CLA) production in beef cattle fed finishing diets. J.R. Sackmann* ¹ , S.K. Duckett ¹ , M.H. Gillis ¹ , K.R. Smith ¹ , C.E. Realini ¹ , A.H. Parks ¹ , and R.B. Eggleston ¹ , ¹ University of Georgia Athens, GA.

- 11:45 47 Effect of form of phosphorus and phytase supplementation on phosphorus utilization by ruminants. R.K. Shanklin*, J.P. Fontenot, J.S. Radcliffe, R.J. Austin, and J.P. Rice, Virginia Polytechnic Institute and State University, Blacksburg, VA.
- 12:00 48 Increasing shelf-life stability of beef steaks enhanced with Origanox™. C. L. Armstrong*, W. B. Mikel, and D. G. Ely, University of Kentucky.
- 12:15 49 The effects of chlorine dioxide, cetylpyridinium chloride, lactic acid and trisodium phosphate on processing, textural, lipid, instrumental color and sensory characteristics when used in a ground beef patty production system. J. R. Jimenez-Villarreal*, F. W. Pohlman, Z. B. Johnson, A. H. Brown, Jr, J. K. Apple, and J. F. Meullenet, University of Arkansas.

MONDAY P.M.

Registration

Radisson - Foyer

Monday 1:00 p.m. - 5:00 p.m.

Undergraduate Paper Competition

Room: Swan - Radisson

Monday 1:00 p.m. - 3:00 p.m.

Presiding: Charles F. Rosenkrans, Jr., University of Arkansas, Fayetteville

Abstract		
Time	No.	
1:00	132	Using soybean hulls as a replacement for hay in meat goat diets. A. T. Maye*, M. H. Poore, J. A. Moore, and J.-M. Luginbuhl, North Carolina State University, Raleigh.
1:15	133	Effect of urea and acidic pH on development of preimplantation bovine embryos. O.M. Ocon* ¹ and P.J. Hansen ¹ , ¹ University of Florida.
1:30	134	Effects of clipping pig needle teeth on sow and pig injuries and performance. B.R. Horsley*, M.J. Estienne, and A.F. Harper, Virginia Polytechnic Institute and State University, Blacksburg.
1:45	135	An assessment of a direct fed microbial feed additive (pro-biotic) for weanling pigs when fed alone and in combination with carbadox antibiotic. H.J. Cooper* ¹ , A.F. Harper ² , and M.J. Estienne ² , ¹ Virginia State University, Petersburg, ² Virginia Polytechnic Institute & State University, Blacksburg.
2:00	136	Dry matter digestibility and ruminal protein degradability of cool-season and warm-season forages. J. M. Peura* ¹ , J. P. Fontenot ¹ , R. K. Shanklin ¹ , and N. B. Frank ¹ , ¹ Virginia Polytechnic Institute and State University, Blacksburg, VA.
2:15	137	Comparison of two sources of phytase fed to chicks at different levels. W.A. Selby*, J.S. Radcliffe, D.M. Denbow, J.H. Wilson, and J.P. Fontenot, Virginia Polytechnic Institute and State University, Blacksburg, VA.
2:30	138	Fasting and re-feeding responses of plasma leptin in pony mares. B. R. Spader*, P. R. Buff, and D. H. Keisler, University of Missouri-Columbia.
2:45	139	Effects of dexamethasone and endophyte-infected fescue seed diet on rat liver metabolism of ergot alkaloids. S. Cannon*, M. Poole, A. Moubarak, Z. Johnson, and C. Rosenkrans, Jr., University of Arkansas, Fayetteville.

Small Ruminant Production I - Goats

Room: Osprey - Radisson

Monday 1:00 p.m. - 2:45 p.m.

Presiding: Joan M. Burke, USDA, Agricultural Research Service, Booneville, Arkansas

Abstract

Time	No.	
1:00	99	Intake, performance, and blood parameters in young goats offered high forage diets of lespedeza or alfalfa hay. K. E. Turner* ¹ , S. Wildeus ² , and J. R. Collins ² , ¹ USDA, ARS, Appalachian Farming Systems Research Center, Beaver, WV, ² Virginia State University, Petersburg, VA.
1:15	100	Serum and tissue copper concentrations in meat goats fed increasing levels of copper. T.D.A. Forbes* ¹ , R.V. Machen ³ , D.F. Waldron ² , C.M. Hensarling ¹ , and S.S. Sieckenius ¹ , ¹ Texas Agricultural Experiment Station, Uvalde, ² Texas Agricultural Experiment Station, San Angelo, ³ Texas Cooperative Extension.
1:30	101	Effect of dietary copper level on the copper status of lactating does and their offsprings. J-M. Luginbuhl*, M. H. Poore, J. W. Spears, and T. T Brown, North Carolina State University, Raleigh NC.
1:45	102	Effect of supplemental protein source on performance of Spanish × Boer wethers. S. A. Soto-Navarro*, A. L. Goetsch, T. Sahlu, and R. Puchala, E (Kika) de la Garza Institute for Goat Research, Langston University, Langston.
2:00	103	Meat Goats fed Byproduct Feeds: Ruminal and Blood Measurements. J. A. Moore*, M. H. Poore, and J-M Luginbuhl, North Carolina State University.
2:15	104	Morphological and chemical characteristics of South Texas shrubs affect intake rate of goats. E.E. Zimmerman ¹ , J.W. Stuth ¹ , B.K. Northup ² , and D.R. Tolleson* ¹ , ¹ Texas A&M University, College Station, ² USDA-ARS, El Reno, OK.
2:30	105	Pre- and post-weaning growth performance of Boer- and Kiko-sired crossbred goat kids. S. Wildeus* ¹ , K. E. Turner ² , and J. R. Collins ¹ , ¹ Virginia State University, Petersburg, VA, ² USDA, ARS, Appalachian Farming Systems Research Center, Beaver, WV.

Physiology I

Room: Flamingo - Radisson

Monday 1:00 p.m. - 3:00 p.m.

Presiding: David L. Kreider, University of Arkansas, Fayetteville

Abstract

Time	No.	
1:00		INVITED Synchronization systems for beef cattle. Dr. Joel Yelich, University of Florida, Gainesville.
1:30	65	Accuracy of estrus detection in a beef herd. C.J Tennant*, J.C. Spitzer, S.N. Johnson, S.P. Kennedy, G.L. Burns, and B.S. Hix, Clemson University, Clemson, SC, USA.
1:45	66	Administration of GnRH post-breeding improves pregnancy rates and increases serum concentrations of progesterone during heat stress in dairy cattle. S. Gandy* ¹ , S. Bowers ¹ , K. Graves ¹ , A. Elias ² , S. Willard ¹ , and C. Whisnant ² , ¹ Mississippi State University, Mississippi State, MS, ² North Carolina State University, Raleigh, NC.
2:00	67	Estrus synchronization and timed AI with MGA plus GnRH in beef females. N. Post* ¹ , D. Kreider ¹ , R. Rorie ¹ , and K. Cole ¹ , ¹ University of Arkansas, Fayetteville, AR.

- 2:15 68 Modulation of the cytochrome P450-mediated metabolism of ergotamine by ergonovine and dihydroergotamine. A. S. Moubarak*, Z. B. Johnson, and C. F. Rosenkrans, Jr., University of Arkansas, Fayetteville.
- 2:30 69 Luteal expression of insulin-like growth factor binding protein-1 and endothelin converting enzyme-1 after treatment with PGF_{2α} in goats. B.L. Sayre* and M.P.L. Dismann, Virginia State University, Petersburg, VA.
- 2:45 70 Temporal variables in the canter of the Tennessee Walking Horse. H. B. Hunter*¹ and R. K. Splan¹, ¹Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

Meats

Room: Eagle - Radisson

Monday 1:00 p.m. - 5:00 p.m.

Presiding: Ken W. McMillin, Louisiana State University, Baton Rouge
C.R. Kerth, Auburn University, Auburn, Alabama

Abstract

- | Time | No. | Abstract |
|------|-----|---|
| 1:00 | 50 | Modification of a Technique to Measure Bovine Muscle Protein Degradation in a Cell Culture System. J. L. Montgomery ¹ , W. M. Harper Jr.* ¹ , K. J. Morrow ² , K. W. Braden ¹ , M. F. Miller ¹ , and J. R. Blanton Jr. ¹ , ¹ Texas Tech University, Lubbock TX, ² Texas Tech Health Sciences Center, Lubbock TX. |
| 1:15 | 51 | Influence of dietary protein level on plasma insulin concentration, subcutaneous adipose tissue lipid content and composition in Boer cross and Spanish goats. E. N. Ponnampalam*, R. Puchala, I. Prieto, V. Banskalieva, L. J. Dawson, T. Sahlu, and A. L. Goetsch, E (Kika) de la Garza Institute for Goat Research, Langston University, Langston. |
| 1:30 | 52 | Effects of supplemental linoleic acid or rumen protected conjugated linoleic acid on performance and longissimus fatty acid composition of feedlot heifers. J.R. Sackmann* ¹ , S.K. Duckett ¹ , M.H. Gillis ¹ , C.E. Realini ¹ , and K.R. Smith ¹ , ¹ University of Georgia Athens, GA. |
| 1:45 | 53 | Effects of supplementing linoleic acid or rumen-protected conjugated linoleic acid on serum leptin and adipose tissue fatty acid levels in beef cattle. M.H. Gillis* ¹ , S.K. Duckett ¹ , J.R. Sackmann ¹ , K.R. Smith ¹ , C.E. Realini ¹ , and D.H. Keisler ² , ¹ University of Georgia, Athens, ² University of Missouri, Columbia. |
| 2:00 | 54 | Improving pork quality by feeding supranutritional levels of vitamin D ₃ . B.S. Wilborn*, C.R. Kerth, W.F. Owsley, W.R. Jones, and L.T. Frobish, Auburn University Department of Animal and Dairy Sciences. |
| 2:15 | 55 | Relationships of ham and loin pork quality measurements in a commercial processing plant. D. M. Price* ¹ , K. W. McMillin ¹ , J. M. Martin ² , A. P. Brock ¹ , and R. L. Payne ¹ , ¹ LSU Agricultural Center, Baton Rouge, LA, ² Bryan Foods, Inc., West Point, MS. |
| 2:30 | 56 | Predicting the tenderness of meat from young beef carcasses of diverse Angus and Brahman breeding. D. D. Johnson*, R. L. West, M. A. Elzo, and T. A. Olson, University of Florida. |
| 2:45 | 57 | Effects of transport water temperature, aerator type, and oxygen level on water quality and subsequent fillet quality in farm-raised Channel Catfish. Brian Bosworth* ¹ , Brian Small ¹ , and Charles Mischke ² , ¹ Catfish Genetics Research Unit, USDA-ARS, ² MAFES, Mississippi State University. |
| 3:00 | | Break |
| 3:15 | 58 | Effects of brine and ham temperature during curing on injection, yield, instrumental color, shear, and sensory characteristics of cured ham. J. N. Leach*, F. W. Pohlman, and Z. B. Johnson, University of Arkansas. |

- 3:30 59 Processing and product development of a fermented cabrito snack stick product. G. H. Cosenza*¹, S. K. Williams¹, D. D. Johnson¹, C Sims¹, and C. H. McGowan², ¹University of Florida, Gainesville, FL, ²Florida A&M University, Tallahassee, FL.
- 3:45 60 The impact of single antimicrobial intervention treatment with cetylpyridinium chloride, trisodium phosphate, chlorine dioxide or lactic acid on ground beef processing, lipid, instrumental color and sensory characteristics. J. R. Jimenez-Villarreal, F. W. Pohlman, R. T. Baublits*, Z. B. Johnson, J. K. Apple, A. H. Brown, Jr., and J. F. Meullenet, University of Arkansas Fayetteville, AR.
- 4:00 61 Processing, lipid, instrumental color and sensory characteristics of ground beef produced using trisodium phosphate, cetylpyridinium chloride, chlorine dioxide or lactic acid as multiple antimicrobial interventions. J. R. Jimenez-Villarreal*, F. W. Pohlman, Z. B. Johnson, A. H. Brown, Jr., J. K. Apple, and J. F. Meullenet, University of Arkansas.
- 4:15 62 The effects of multiple antimicrobial interventions on processing, lipid, textural instrumental color and sensory characteristics when used in a ground beef patty production system. J. R. Jimenez-Villarreal*, F. W. Pohlman, Z. B. Johnson, A. H. Brown, Jr., J. K. Apple, and J. F. Meullenet, University of Arkansas.
- 4:30 63 Antimicrobial effects of sodium lactate and glucono-delta-lactone in a restructured pork roll product stored at 20 2C. L. J. Woolsey¹, S. K. Williams*¹, and R. L. West¹, ¹University of Florida.
- 4:45 64 Effect of cold pasteurization on the color and flavor of frozen packaged ground beef patties. D. D. Johnson and K.A. Hunt*, University of Florida.

Symposium I
Integrated Approaches for Analysis of Ranch Management Systems
Joint Session of Agronomy/Agricultural Economics/Animal Science

Room: Egret - Radisson
Monday 1:25 p.m. - 5:00 p.m.

Presiding: Patrick J. Bohlen, MacArthur Agro-ecology Research Center, Lake Placid, Florida

- | Time | Topic/Speaker |
|-------------|---|
| 1:25 | Introductory remarks |
| 1:30 | Integrated approaches for analysis of ranch management systems: Introduction and overview. H. Swain*, P.J. Bohlen, K.L. Campbell, A.D. Steinman and J.M. Schaefer. |
| 2:00 | Water quality impacts of beef cattle ranches in the Lake Okeechobee Basin. J.C. Capece*, K.L. Campbell, P.J. Bohlen and D.A. Graetz. |
| 2:30 | Nutrient storage and cycling in subtropical pastures in relation to grazing and land use. D.A. Graetz* and P.J. Bohlen. |
| 3:00 | Break |
| 3:15 | Bioindicators in ranch management systems. R. McSorley* and G.W. Tanner. |
| 3:45 | Integrating ranch forage production, cattle performance and economics in ranch management systems. J.D. Arthington*, J.D. Fritz, M. Roka, J.J. Mullahey, S.W. Coleman, L.O. Lollis and R.M. Muchovej. |
| 4:15 | Future directions for integrated research in southeastern grazing lands. P.J. Bohlen, H. Swain and S.W. Coleman. |
| 4:30 | Discussion and adjourn |

Ruminant Animal Production I - Supplements

Room: Eagle - Radisson

Monday 3:00 p.m. - 5:00 p.m.

Presiding: Art Goetsch, Langston University, Langston, Oklahoma

Abstract		
Time	No.	
3:00	78	Self-feeding byproduct commodities to beef calves. M.H. Poore*, North Carolina State University, Raleigh.
3:15	79	Influence of diet on ultrasound measured carcass traits in three breeds of beef bulls. A.L. Bryant*, A.R. Williams, and W.B. McKinley, ¹ Mississippi State University, Starkville, MS.
3:30	80	Effect of reducing liquid supplement feeder wheel width and turning capability on molasses-based liquid supplement intake in beef heifers. P. A. Davis ¹ , B. R. Austin* ¹ , J. D. Arthington ² , and W. E. Kunkle ¹ , ¹ University of Florida, Gainesville, ² UF-IFAS Range Cattle Research and Education Center, Ona, FL.
3:45	81	Influence of fish oil addition on growth performance and immune function of growing cattle. T. J. Wistuba*, E. B. Kegley, and J. K. Apple, University of Arkansas, Fayetteville AR/USA.
4:00	82	Cholesterol profiles and body composition changes in beef heifers fed a soybean oil cube. R. C. Vann* ¹ , S. V. Tucker ² , R. A. Ray ² , D. R. Hardin ³ , and J. F. Baker ² , ¹ Mississippi State University-CMREC/BLES, ² University of Georgia-Tifton, ³ ABS Global, Inc.
4:15	83	Animal response to the ingestion of TASC0 seaweed meal. R.R. Evans* ¹ , V.G. Allen ² , R.L. Ivy ¹ , T.G. Best ¹ , and J.E. Huston ¹ , ¹ Mississippi State University, ² Texas Tech University.
4:30	84	Effect of dietary cottonseed meal concentration on feedlot performance and carcass characteristics of cull beef cows. T. J. Biggs* ¹ , M. S. Brown ¹ , and T. H. Montgomery ¹ , ¹ West Texas A&M University, Canyon, TX.
4:45		Discussion

Small Ruminant Production II - Goats

Room: Osprey - Radisson

Monday 3:00 p.m. - 4:30 p.m.

Presiding: Steve Wildeus, Virginia State University, Petersburg

Abstract		
Time	No.	
3:00	106	A state-wide survey of goat producers in Tennessee. M. L. Leite-Browning*, S. Muhammad, and R. Browning, Jr., Tennessee State University, Nashville.
3:15	107	Extension programming in response to new opportunities in an old commodity: A case study involving meat goat producers in Georgia. L. Sidney Law* ¹ and Will R. Getz ² , ¹ University of Georgia, Athens, ² Georgia Small Ruminant Research & Extension Center, Fort Valley State University, Fort Valley.
3:30	108	Carcass traits and cut yields of Boer, Spanish, and Myotonic kid goats with creep feeding and supplemented pasture finishing. K.W. McMillin* ¹ , L.C. Nuti ² , and F. Pinkerton ³ , ¹ Louisiana State University Agricultural Center, ² Prairie View A&M University, ³ The Goat Works.
3:45	109	Texture studies in Goats. Jackson M Dzakuma* and Eric Risch, Prairie View A&M University.
4:00	110	Goat milk constituents and processing characteristics with different feeding systems. K. A. Soryal*, S. S. Zeng, S. P. Hart, B. R. Min, B. Bah, R. Puchala, and T. Sahlu, E (Kika) de la Garza

- Institute for Goat Research, Langston University, Langston, OK.
- 4:15 111 Effectiveness of Melengestrol Acetate in Inducing Out-of-Season Breeding in Goats. D.J. Jackson* and N.C. Whitley, University of Maryland Eastern Shore.

Symposium II
Where Do Animal Science Curricula Go From Here?
Room: Swan - Radisson
Monday 3:30 p.m. - 5:00 p.m.
Presiding: K.M. Downs, Middle Tennessee State University, Nashville

- | Time | Topic/Speaker |
|-------------|---|
| 3:30 | Opening comments |
| 3:45 | Stay the course with production livestock
Speaker: Dr. Paul Humes, Louisiana State University |
| 4:00 | More emphasis on companion animals and horses
Speaker: Dr. Terry Kiser, Mississippi State University |
| 4:15 | More emphasis on biotechnology
Speaker: Dr. Skip Bartol, Auburn University |
| 4:30 | Discussion |

Business Meeting
Room: Egret - Radisson
Monday 5:00 p.m. - 6:30 p.m.

TUESDAY A.M.

Registration
Radisson - Foyer
Tuesday 8:00 a.m. - 12:00 Noon

Breeding and Genetics

Room: Eagle - Radisson

Tuesday 8:45 - 12:00 Noon

Presiding: Wayne E. Wyatt, Louisiana State University Agricultural Center, Jeanerette

Abstract

Time	No.	
8:45	8	Estimates of heritability for body length and relationship to other performance traits for four breeds of swine. Z. B. Johnson* ¹ and R. A. Nugent, III ² , ¹ University of Arkansas, Fayetteville, ² The Pork Group, Rogers, AR.
9:00	9	Calving rate and first lactation performance of three breed types of dairy heifers reared on a forage-based development program. E.B. Flores* ¹ , D.W. Kellogg ¹ , A.H. Brown, Jr. ¹ , Z.B. Johnson ¹ , and B.A. Sandelin ¹ , ¹ University of Arkansas, Fayetteville, AR.
9:15	10	Effect of milking 2X versus 3X on DHI performance parameters. J.W. Smith*, L.O. Ely, W.M. Graves, and W.D. Gilson, University of Georgia.
9:30	11	Association between reproductive tract score at three ages and pregnancy rate, and calving date for beef heifers. J. F. Baker* ¹ , R. C. Vann ² , and M. Pence, ¹ University of Georgia, Tifton, GA/USA, ² Mississippi State University, Raymond, MS/USA.
9:45	12	Genetic parameters for calf birth vigor and calf survival to weaning in a Florida Brahman herd. D. G. Riley* ¹ , C. C. Chase, Jr. ¹ , A. C. Hammond ² , T. A. Olson ³ , and S. W. Coleman ¹ , ¹ USDA, ARS, SubTropical Agricultural Research Station (STARS), Brooksville, FL, ² USDA, ARS, South Atlantic Area, Athens, GA, ³ University of Florida, Gainesville.
10:00	13	Breed and maternal EPD level influences on cow and calf traits. C. A. Perret* ¹ , J. L. Guerra ¹ , J. D. Domingue ¹ , T. Smith ² , and D. E. Franke ¹ , ¹ Louisiana State University Agricultural Center, ² University of Louisiana at Monroe.
10:15	14	Summer growth and thermoregulation in Hereford and Senepol steers fed orchardgrass or endophyte-infected tall fescue hay. R. Browning, Jr.* ¹ , C. Bradley, E. Bradley, and D. Coleman, Tennessee State University, Nashville.
10:30	15	Stocker and Feedlot Performance of Angus and Romosinuano Steer Calves. S. W. Coleman ¹ , W. A. Phillips* ² , D. G. Riley ¹ , C. C. Chase ¹ , and H. S. Mayeux ² , ¹ USDA-ARS Subtropical Agricultural Research Station, ² USDA-ARS Grazinglands Research Laboratory.
10:45	16	Evaluation of feedlot performance and carcass quality in four-breed composite steers. A.L. Bryant*, A.R. Williams, R.W. Rogers, T.G. Althen, and W.B. McKinley, ¹ Mississippi State University, Starkville, MS.
11:00	17	The influence of initial feedlot weight variation on feedlot and carcass traits. J. D. Domingue* ¹ , T. Smith ² , D. E. Franke ¹ , T. D. Bidner ¹ , H. D. Chapman ¹ , J. C. Paschal ³ , and G. Whipple-VanPatter ⁴ , ¹ Louisiana State University Agricultural Center, ² University of Louisiana at Monroe, ³ Texas A&M University, ⁴ University of Nebraska.
11:15	18	Traits affecting the quantitative measurement of ultrasonically obtained values for percent of intramuscular fat from the longissimus muscle area in Brangus cattle. A.M. Stelzleni* ¹ , T.L. Perkins ² , A.H. Brown, Jr. ¹ , F.W. Pohlman ¹ , Z.B. Johnson ¹ , and B.A. Sandelin ¹ , ¹ University of Arkansas, ² Southwest Missouri State University.
11:30	19	Interaction of beef growth type x production system for carcass traits of steers. A.H. Brown* ¹ , P.K. Camfield ² , Z.B. Johnson ¹ , L.Y. Rakes ¹ , F.W. Pohlman ¹ , C.J. Brown ¹ , and B.A. Sandelin ¹ , ¹ University of Arkansas, ² Oklahoma Panhandle State University.
11:45	20	Relationship of genetic and performance data of bulls to price paid at University of Georgia bull evaluation center sales. C.L. Hicks*, T.D. Pringle, G. Burden, R.L. Stewart, and D.T. Brown, University of Georgia, Athens, GA.

Small Ruminant Production III - Goats/Deer

Room: Osprey - Radisson

Tuesday 8:00 a.m. - 10:15 a.m.

Presiding: R. Browning, Tennessee State University, Nashville

		Abstract
Time	No.	
8:00	112	Growth and linear measurements of Boer, Spanish, and Myotonic kid goats with creep feeding and supplemented pasture finishing. L.C. Nuti* ¹ , K.W. McMillin ² , and F. Pinkerton ³ , ¹ Prairie View A&M University, ² Louisiana State University Agricultural Center, ³ The Goat Works.
8:15	113	Prediction of endogenous urinary nitrogen of goats. J. Luo* ¹ , A. L. Goetsch ¹ , J. E. Moore ² , Z. B. Johnson ³ , T. Sahl ¹ , C. L. Ferrell ⁴ , M. L. Galyean ⁵ , and F. N. Owens ¹ , ¹ E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK, ² University of Florida, Gainesville, FL, ³ University of Arkansas, Fayetteville, AR, ⁴ US Meat Animal Research Center, Clay Center, NE, ⁵ Texas Tech University, Lubbock, TX.
8:30	114	Prediction of maintenance energy needs of goats based on observations of heat or recovered energy. J. Luo* ¹ , A. L. Goetsch ¹ , Z. B. Johnson ² , I. V. Nsahlai ^{1,3} , and T. Sahl ¹ , ¹ E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK, ² Department of Animal Science, University of Arkansas, Fayetteville, AR, ³ Department of Animal and Poultry Science, University of Natal, Pietermaritzburg, South Africa.
8:45	115	Metabolizable energy requirements of lactating goats. I. V. Nsahlai* ^{1,2} , A. L. Goetsch ¹ , J. Luo ¹ , Z. B. Johnson ³ , and T. Sahl ¹ , ¹ E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK, ² Department of Animal and Poultry Science, University of Natal, Pietermaritzburg, South Africa, ³ Department of Animal Science, University of Arkansas, Fayetteville, AR.
9:00	116	The Effect of Diet on Somatic Cell Count, Mastitis and Gastro-intestinal Parasite Infestation in Dairy Goats. B.R. Min* ¹ , G. Tomita ¹ , S.P. Hart ¹ , W. Pomroy ² , and T. Sahl ¹ , ¹ E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK, 73050, ² Veterinary & Biomedical Science, Massey University, Palmerston North, New Zealand.
9:15	117	Titration of Efficacy of Ivermectin and Moxidectin Against an Ivermectin-Resistant <i>Haemonchus contortus</i> Derived from Goat in the Field. W.E. Pomroy ¹ , S.P. Hart* ² , and B.R. Min ² , ¹ Institute of Veterinary, Animal and Biomedical Science, Massey University, New Zealand, ² E (Kika) de la Garza Institute for Goat Research, Langston University, OK.
9:30	118	Consumption of whole cottonseed affects growth in red deer stags. C.G. Brown* ¹ , D.A. Neuendorff ¹ , T.A. Strauch ¹ , A.W. Lewis ¹ , M.L. Wade ¹ , B.C. Baldwin ² , M.C. Calhoun ² , and R.D. Randel ¹ , ¹ Texas Agricultural Research and Extension Center, Overton, TX, ² Texas Agricultural Research and Extension Center, San Angelo, TX.
9:45	119	Antlerogenesis in red deer stags: Relationships between velvet antler growth rates and temperature measurements. S. Bowers* ¹ , C. Brown ² , S. Gandy ¹ , M. Wade ² , T. Strauch ² , D. Neuendorff ² , R. Randel ² , and S. Willard ¹ , ¹ Mississippi State University, Mississippi State, MS, ² Texas A&M University - TAES, Overton, TX.
10:00	120	Observational versus electronic methods for the detection of estrus in red deer hinds. S. Bowers* ¹ , C. Brown ² , T. Strauch ² , S. Gandy ¹ , D. Neuendorff ² , R. Randel ² , and S. Willard ¹ , ¹ Mississippi State University, MS, ² Texas Agricultural Experiment Station, Overton TX.

Ruminant Animal Production II - Forages, Minerals, Vitamins, Additives, and Management

Room: Flamingo - Radisson

Tuesday 8:00 a.m. - 11:45 a.m.

Presiding: Mike Brown, West Texas A&M University, Canyon

Abstract		
Time	No.	
8:00	85	Tifton 85 and Alicia bermudagrass hay intake and digestion by growing steers. G. M. Hill* ¹ , S. Savage ¹ , R. N. Gates ² , B. C. Hand ¹ , and B. G. Mullinix, Jr. ¹ , ¹ University of Georgia, Tifton, GA/USA, ² USDA-ARS, Tifton, GA/USA.
8:15	86	Dry matter intake of cattle, sheep and elk determined by near infrared reflectance spectroscopy of feces. D. Tolleson* ¹ , J. Stuth ¹ , S. Keating ¹ , and S. Kronberg ² , ¹ Texas A&M University, College Station, ² USDA-ARS, Northern Great Plains Research Laboratory, Mandan, ND.
8:30	87	Digestibility and intake of four silages with added energy and protein fed to growing steers. M. H. O'Connor ¹ , G. M. Hill* ¹ , S. A. Martin ² , B. C. Hand ¹ , R. N. Gates ³ , J. K. Bernard ¹ , and B. G. Mullinix, Jr. ¹ , ¹ University of Georgia, Tifton, GA/USA, ² University of Georgia, Athens, GA/USA, ³ USDA-ARS, Tifton, GA/USA.
8:45	88	Digestibility and intake of corn, grain millet and sorghum silages with an inoculant fed to growing steers. M. H. O'Connor ¹ , G. M. Hill* ¹ , S. A. Martin ² , B. C. Hand ¹ , R. N. Gates ³ , J. K. Bernard ¹ , and B. G. Mullinix, Jr. ¹ , ¹ University of Georgia, Tifton, GA/USA, ² University of Georgia, Athens, GA/USA, ³ USDA-ARS, Tifton, GA/USA.
9:00	89	Effect of degree of corn processing on site and extent of digestion by beef steers. P. F. Dew ¹ , C. D. Drager* ¹ , M. S. Brown ¹ , and N. A. Cole ² , ¹ West Texas A&M University, Canyon, TX, ² USDA-ARS, Bushland, TX.
9:15	90	Effect of molasses-based versus corn-based supplements on the availability of trace minerals in beef heifers. J. D. Arthington* ¹ and F. M. Pate ¹ , ¹ Range Cattle Research and Education Center, University of Florida - IFAS.
9:30	91	Effect of sulfur content of feed ingredients on availability of copper in beef cattle supplements. J. D. Arthington* ¹ and F. M. Pate ¹ , ¹ Range Cattle Research and Education Center, University of Florida - IFAS.
9:45		Break
10:00	92	Effects of supplementing selenium to a beef cattle cow-calf herd on tissue selenium concentration. G. Valle ¹ , L. R. McDowell ¹ , D. L. Prichard ² , P. A. Davis* ¹ , P. J. Chenoweth ³ , D. L. Wright ² , F. G. Martin ¹ , W. E. Kunkle ¹ , and N. S. Wilkinson ¹ , ¹ University of Florida, Gainesville, ² UF-IFAS North Florida Research and Education Center, ³ Kansas State University.
10:15	93	Effect of dietary antioxidant vitamins on carcass characteristics of beef steers exposed to cattle feedyard manure dust. N. K. Chirase* ^{1,3,4} , L. W. Greene ^{1,3,4} , C. W. Purdy ² , R. W. Loan ³ , T. H. Montgomery ⁴ , and J. A. Avampato ¹ , ¹ Texas Agricultural Experiment Station, Amarillo, ² USDA/ARS, Bushland, TX, ³ Texas A&M University, College Station, ⁴ West Texas A&M University, Canyon.
10:30	94	Effects of ruminally protected betaine and choline on performance of lactating Alpine goats. T. Shenkoru ^{1,2} , F. N. Owens ¹ , R. Puchala* ¹ , A. L. Goetsch ¹ , and T. Sahlu ¹ , ¹ E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK 73050, ² Animal Science Department, Oklahoma State University, Stillwater, OK 74075.
10:45	95	Effects of backgrounding diet on ruminal metabolism in grazing stocker cattle. P. A. Beck* ¹ , J. M. Phillips ¹ , S. A. Gunter ¹ , K. A. Cassida ¹ , D. L. Galloway ² , and A. S. Freeman ³ , ¹ University of Arkansas Southwest Research and Extension Center, Hope, ² Department of Animal Science, University of Arkansas, Fayetteville, ³ Quality Liquid Feeds, Dodgeville, Wisconsin.
11:00	96	Effect of dietary monensin and malate on ruminal digestion and biohydrogenation in beef cattle fed finishing diets. J.G. Andrae* ¹ , S.K. Duckett ¹ , M.H. Gillis ¹ , J.R. Sackmann ¹ , S.A. Martin ¹ , A.

		Parks ¹ , and R. Eggleston ¹ , ¹ The University of Georgia, Athens.
11:15	97	Comparison of high and low stocking rates on subsequent cattle feedlot performance and carcass traits. J. J. Cleere* ¹ , A. D. Herring ¹ , J. W. Holloway ² , H. Lippke ² , C. R. Long ³ , F. M. Rouquette Jr. ³ , and B. G. Warrington ² , ¹ Texas Tech University, Lubbock, ² Texas Agricultural Experiment Station, Uvalde, ³ Texas Agricultural Experiment Station, Overton.
11:30	98	The impact of tunnel ventilation on heat stress in lactating dairy cows: Effects on body temperature and respiration rate. T. R. Smith* ¹ , S. Willard ¹ , A. Chapa ¹ , T. Riley ² , and D. Pogue ² , ¹ Mississippi State University, Starkville, ² North Mississippi Branch Experiment Station, Holly Springs.
11:45		Adjourn

Extension

Room: Egret - Radisson

Tuesday 8:00 a.m. - 11:00 a.m.

Presiding: Allen Harper, Virginia Polytechnic Institute and State University, Blacksburg

Abstract		
Time	No.	
8:00	21	Mineral status of Tennessee forages. A.E. Fisher*, C.D. Lane, Jr., W.W. Gill, K.J. Stalder, and J.B. Neel, University of Tennessee, Knoxville.
8:15	22	Results of beef Integrated Resource Management survey. C.D. Lane, Jr.*, A.E. Fisher, W.W. Gill, K.J. Stalder, and J.B. Neel, University of Tennessee, Knoxville.
8:30	23	Beef cattle reproductive management school of The South Florida Beef-Forage Program. J.F. Selph*, P.J. Hogue, E.J. Stice, T.E. Seawright, L.A. Gary, G. Mikulecky, J.D. Arthington, and R.S. Sand, University of Florida/IFAS.
8:45	24	Relationship between value of feeder calves and prices paid by Tennessee producers for herd bulls. JB Neel*, FD Kirkpatrick, and DB Owen, University of Tennessee, Knoxville.
9:00	25	Enhancing the value of spring-born calves. D.L. Rankins, Jr.*, J.W. Prevatt, R.A. Dawkins, and S.E. Peacock, Auburn University.
9:15	26	Effects of implanting Component E-C with Tylan [®] or zeranol on average daily gain on suckling calves located in southeast Georgia. T. W. Wilson* ¹ , J. F. Baker ² , G. S. Sell ¹ , J. S. Collins, V ¹ , M. T. Fowler ¹ , and N. R. Sell ¹ , ¹ The University of Georgia, Cooperative Extension Service, ² The University of Georgia, Tifton.
9:30	27	Effect of clostridial vaccines on performance, feed consumption patterns and lesion size scores of beef steers. N. K. Chirase* ¹ , L. W. Greene ¹ , G. D. Graham ¹ , and D. J. Smith ² , ¹ Texas Agricultural Experiment Station, Amarillo and West Texas A&M University, Canyon, ² Boehringer Ingelheim Vetmedica, Inc., St. Joseph, MO.
9:45	28	Current and subsequent season effects of parasite control in Arkansas stocker cattle. M. Fincher*, T.A. Yazwinski, C. Tucker, D. Hubbell, L.B. Daniels, and Z.B. Johnson, University of Arkansas, Fayetteville, AR.
10:00	29	Phase of external parasite feeding cycle affects NIRS predicted diet quality in cattle. D.R. Tolleson*, P.D. Teel, J.W. Stuth, and O.F. Strey, Texas A&M University, College Station.
10:15	30	A novel method for grazing cattle in southeast Arkansas: tomato field aftermath. B. K. Reed* ¹ and J. G. Green ² , ¹ University of Arkansas, Monticello, ² Green Hill Farms, Warren, AR.
10:30	31	Extension programs to increase use of composting for dead swine disposal in Virginia. A.F. Harper* and M.J. Estienne, Virginia Polytechnic Institute and State University, Blacksburg.
10:45	32	Acidulated soapstock and restaurant grease in diets for nursery pigs. C. W. Starkey*, J. D. Hancock, C. L. Jones, and D. J. Lee, Kansas State University, Manhattan.
11:00		Adjourn

Physiology II

Room: Swan - Radisson

Tuesday 8:00 a.m. - 10:15 a.m.

Presiding: John Hall, Virginia Polytechnic Institute and State University, Blacksburg
Randy Stanko, Texas A&M University, Kingsville

Abstract

Time	No.	
8:00		INVITED Reproduction in heat tolerant cattle. Dr. Chad Chase, USDA/ARS, STARS, Brooksville, Florida.
8:30	71	Estradiol benzoate (EB) administered at insertion of an intravaginal progesterone release device (CIDR) increases pregnancy rates in Angus and crossbred <i>Bos indicus</i> cows. G.A. Bridges*, C.R. Barthle, M.K. Dahms, G.P. Portillo, E.A. Hiers, and J.V. Yelich, University of Florida, Gainesville.
8:45	72	Postpartum luteal activity in tropically adapted breeds of beef cows. R.P. Wettemann* ² , W.A. Phillips ¹ , P.K. Hylton ² , and C.A. Lents ² , ¹ USDA-ARS, Grazinglands Research Laboratory, El Reno OK, ² Oklahoma Agricultural Experiment Station, Stillwater OK.
9:00	73	Expression of mRNA for growth hormone receptor, IGF-I, FSH-receptor, and LH-receptor in testis tissue of Angus, Brahman, and Romosinuano bulls. T. A. Strauch ^{1,2} , C. A. Abbey ¹ , J. W. Koch ^{1,2} , S. R. Tatman ^{1,2} , C. C. Chase, Jr. ³ , R. D. Randel ² , and T. H. Welsh, Jr. ¹ , ¹ Texas Agricultural Experiment Station, College Station and, ² Overton, TX, ³ Subtropical Agricultural Research Station, ARS, USDA, Brooksville, FL.
9:15	74	Effects of lasalocid on leptin concentrations and reproductive performance of postpartum Brahman cows. T. A. Strauch* ¹ , D. A. Neuendorff ¹ , C. G. Brown ¹ , M. L. Wade ¹ , A. W. Lewis ¹ , D. H. Keisler ² , and R. D. Randel ¹ , ¹ Texas Agricultural Experiment Station, Overton, TX, ² University of Missouri, Columbia, MO.
9:30	75	Effect of estradiol-17 β valerate on endocrine and immune tissues of prepubertal ewes. T.M. Bryan*, C.C. Chamberlain, C.A. Gray, T.E. Spencer, and T.H. Welsh, Jr., Texas A&M University System, College Station, Texas.
9:45	76	Synchronization of estrus and fertility in gilts administered P.G. 600 after treatment with Regumate for 14 or 18 days. M.J. Estienne* and A.F. Harper, Virginia Polytechnic Institute and State University, Blacksburg.
10:00	77	Follicular dynamics and ovulation rate in gilts actively immunized against 17- α -hydroxyprogesterone. K. Cole* ¹ , D. Kreider ¹ , N. Post ¹ , and C. Maxwell ¹ , ¹ University of Arkansas.

Small Ruminant Production IV - Sheep

Room: Osprey - Radisson

Tuesday 10:15 a.m. - 11:45 a.m.

Presiding: W.R. Getz, Georgia Small Ruminant Research and Extension Center, Fort Valley State University, Fort Valley, Georgia

Abstract

Time	No.	
10:15	121	The effect of flushing hair sheep ewes during the dry season in the tropics. R.W. Godfrey, R.E. Dodson*, and A.J. Weis, University of the Virgin Islands, St Croix, VI.
10:30	122	Evaluation of a laser thermometer for measuring the internal scrotal temperature of hair sheep rams. D.M. Henry* and R.W. Godfrey, University of the Virgin Islands, St Croix, VI.
10:45	123	Short term use of poultry litter in sheep diets. S. A. Harley* ¹ , D. M. Ferara ¹ , B. J. Rude ² , D. H.

- Keisler³, and N. C. Whitley¹, ¹University of Maryland Eastern Shore, ²Mississippi State University, ³University of Missouri.
- 11:00 124 Are Dorper crossbred ewes as tolerant to intestinal parasites as St. Croix or Katahdin ewes in the southeastern United States? J. M. Burke*¹, ¹USDA, Agricultural Research Service.
- 11:15 125 Are Dorper crossbred weaned lambs as tolerant to intestinal parasites as St. Croix or Katahdin lambs in the southeastern United States?. J. M. Burke*¹, ¹USDA, Agricultural Research Service.
- 11:30 126 Indicators of gastrointestinal parasitism in breeds of goats and hair sheep continuously or rotationally grazing naturally infected pasture. S. Wildeus*¹ and A. M. Zajac², ¹Virginia State University, Petersburg, VA, ²Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA.

Teaching and Undergraduate Education

Room: Swan - Radisson

Tuesday 10:30 a.m. - 11:45 a.m.

Presiding: Dale A. Coleman, Auburn University, Auburn, Alabama

Abstract

- | Time | No. | Abstract |
|-------------|------------|---|
| 10:30 | 127 | Increasing level of cooperative learning improves student performance in a beef cattle production course. B. K. Reed* and S. N. K. Reed, University of Arkansas, Monticello. |
| 10:45 | 128 | Demographics and academic success of animal science graduate students. C. Rosenkrans, Jr.*, Z. Johnson, and W. Coblentz, University of Arkansas, Fayetteville. |
| 11:00 | 129 | Birth of an inter-institutional program for transformative leadership in agricultural students: implications for animal sciences. D. Mulvaney* ¹ , H. Rahe ² , A. Trotman ³ , and C. Beyl ⁴ , ¹ Auburn University, ² Southwest Texas State University, ³ Tuskegee University, ⁴ Alabama A&M University. |
| 11:15 | 130 | Youth in Praxis: an agricultural leadership development and recruitment emphasis for high school youth. D.R. Mulvaney* ¹ and J.P. Sherman ¹ , ¹ Auburn University. |
| 11:30 | 131 | An evaluation of the University of Georgia (UGA) Animal and Dairy Science Department (ADS) curriculum by its recent graduates. T. D. Pringle*, The University of Georgia. |

TUESDAY P.M.

Extension Luncheon

Room: Rounds - Radisson

Tuesday 12:00 Noon - 2:00 p.m.

Presiding: Matt Poore, North Carolina State University, Raleigh

Animal Science/Forages
Room: Swan - Radisson
Tuesday 2:00 p.m. – 3:45 p.m.
Presiding: John Jennings, University of Arkansas, Little Rock

Abstract	
Time	No.
2:00	1
2:15	2
2:30	3
2:45	4
3:00	5
3:15	6
3:30	7

Symposium III
Overview of the Beef Cattle Genetic Evaluation Consortium Project
Joint Symposium of Breeding and Genetics/Extension
Room: Osprey - Radisson
Tuesday 2:00 p.m. - 4:00 p.m.
Presiding: Jerry Baker, University of Georgia, Tifton

Time	Topic/Speaker
2:00	Potential applications of DNA information to beef selection programs. John Pollak, Cornell University
2:45	Practical application: "The Bell Ranch Project." Keith Long, Seedstock Manager, Bell Ranch
3:30	Discussion
4:00	Adjourn

Symposium IV

The Greenhouse Effect, Carbon Sequestration, and the Role of Forages

Joint Agronomy/Animal Science Forage Symposium in conjunction with Extension and Ruminant Animal Production

Room: Flamingo - Radisson

Tuesday 2:00 p.m. - 5:00 p.m.

Presiding: Brad Venuto, Louisiana State University, Southeast Research Station,
Franklinton

Time	Topic/Speaker
2:00 to 2:50	Greenhouse gas emissions from US beef and dairy production systems. Don Johnson and H. Phetteplace, Colorado State University, Ft. Collins
2:50 to 3:30	Temporal and Spatial Responses in Soil Carbon Pools under Grass. Alan J. Franzleubbers, USDA-ARS, Watkinsville, GA
3:30 to 4:10	The Role of Animal and Pasture Management in Carbon Sequestration John A. Stuedemann, Alan J. Franzleubbers and Dwight H. Seman, USDA-ARS, Watkinsville, GA
4:10 to 4:50	Carbon Storage on Rangelands. B Herman Mayeux., USDA-ARS, El Reno, OK

Southern Section American Society of Animal Science

Past Presidents

2000-01	L. L. Southern	Louisiana State University
1999-00	R. P. Wettemann	Oklahoma State University
1998-99	J. D. Armstrong	Purdue University
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1996-97	P.R. Harms	Texas A&M University
1995-96	P.R. Utley	University of Georgia
1994-95	D.S. Buchanan	Oklahoma State Univ.
1993-94	P.R. Nolan	University of Arkansas
1992-93	D.R. Marple	Auburn University
1991-92	R.W. Harvey	NC State University
1990-91	D.E. Franke	Louisiana State Univ.
1989-90	A.L. Eller, Jr.	VPI & SU
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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
1979-80	W.C. McCormick	University of Georgia
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
1973-74	M. Koger	University of Florida
1972-73	J.P. Fontenot	VPI & SU
1971-72	G.E. Mitchell, Jr.	University of Kentucky
1970-71	L.S. Pope	Texas A&M University
1969-70	L.C. Ulberg	NC State University
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**

2001	Robert Wettemann	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

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

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**

2001 ¹	Shawn Ramsey	
2001 ²	Jason Apple	
2000 ¹	Andy D. Herring	Texas Tech University
1999 ²	Chad C. Chase, Jr.	USDA,ARS
1998 ¹	Markus F. Miller	Texas Tech University
1998 ²	Arthur L. Goetsch	Langston University
1997 ¹	Tim Marshall	University of Florida
1996 ¹	William L. Flowers	NC State University
1996 ²	Markus F. Miller	Texas Tech University
1995 ¹	Craig H. Wood	University of Kentucky
1995 ²	Jeffrey D. Armstrong	NC State University
1994 ¹	Debra K. Aaron	University of Kentucky
1994 ²	Peter J. Hansen	University of Florida
1993 ¹	Kevin Pond	NC State University
1993 ²	Rod Geisert	Oklahoma State Univ.
1992 ¹	David S. Buchanan	Oklahoma State Univ.
1992 ²	James L. Sartin	Auburn University
1991 ¹	W.E. Beal	VPI & SU
1991 ²	Wayne Greene	Texas A&M University
1990 ¹	J.W. Mabry	University of Georgia
1990 ²	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

¹Education

²Research

**NPPC Swine Industry
Award Recipients**

2001	Not given	
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
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**

Year	Awardee	Place of Meeting	University
2001	R. Horsley	Ft. Worth	Virginia Polytechnic Institute
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

**Southern Section
ASAS Committees**

2001-2002

(chair listed first)

Executive

T. Troxel (AR), D. Aaron (KY), L. Southern (LA),
K. Esbenshade (NC), W. Kunkle (FL)

Advisory

R. James (VA), P. Harms (TX), W. Christ (KY),
K. Lusby (AR), D. Buchanan (OK), D. Mulvaney (AL),
D. Ely (KY), P. Humes (LA)

Distinguished Service Award

G.E. Mitchell, Jr. (KY), B. Daniels (AR), D. Morrison (LA),
J. Fontenot (VA), C. Ammerman (FL)

Young Animal Scientist Award – Research

J. Spears (NC), K. Pond (TX), C. Chase (FL),
Z. Johnson (AR), J. Apple (AR)

Young Animal Scientist Award – Education

W. Flowers (NC), T. Marshall (FL), G. Selk (OK),
R. Del Vecchio (LA), S. Ramsey (TX)

Extension Award

J. Paschal (TX), D. Aaron (KY), R. Burris (KY),
C. Lane (TN), L. Benyshek (GA)

NPB Award

D. Aaron (KY), M. See (NC), A. Harper (VA),
C. Maxwell (AR)

Necrology

J. Johns (KY), L. Southern (LA)

Nomination

W. Gill (TN), J. Hughes (OK), P. Harms (TX),
T. Kiser (MS), W. Getz (GA)

Resolutions

G. Horn (OK), L. Edgerton (KY), P. Harms (TX)

Academic Quadrathlon

S. Carter (OK), T. Thrift (FL), J. Sterle (TX),
B. Rude (MS), J. Yelich (FL)

Graduate Student Awards Competition

E. Kegley (AR), S. Whisnant (NC), W. Greene (TX),
C. Brooks (OK), D. Franke (LA)

Breeding and Genetics

W. Wyatt (LA), J. Paschal (TX), K. Stalder (TN)

Extension

M. Poore (NC), C. Lane (TN)

Minority Issues

J. Fernandez (LA), R. McKinnie (NC), R. Browning (TN)

Animal Science/Forages Joint Session

B. C. Venuto (LA), J. Waller (TN), J. Studemann (GA),
J. Jennings (AR)

Meats

K. McMillin (LA), C. Keith (AL), B. Mikel (KY)

Nonruminant Animal Production

R. Myer (FL), L. Frobish (AL), A. Harper (VA)

Small Ruminant Production

D. Ely (KY), W. Getz (GA), R. Browning (TN),
J. Burke (AR)

Ruminant Animal Production

W. Kunkle (FL), A. Goetsch (OK), G. Huntington (NC),
M. Brown (TX), L. Anderson (KY)

Teaching and Undergraduate Education

D. Coleman (AL), K. Downs (TN), C. Rosenkrans (AR),
M. McCann (VA)

Physiology

D. Krieder (AR), S. Washburn (NC), R. Stanko (TX),
J. Hall (VA)

