

SOUTHERN SECTION

American Society
of Animal Science

ANNUAL MEETING

January 31 - February 4, 2003
Mobile, Alabama

In Conjunction with the 100th
Annual Convention
Of the Southern Association
of Agricultural Scientists

**AMERICAN SOCIETY
OF
ANIMAL SCIENCE
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2002-2003**

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Southeastern Regional Academic Quadrathlon

January 31 – February 3, 2003

Schedule of Events

Friday, January 31

10:00 pm Advisor's Meeting

Best Western-University Convention Center
Auburn, AL

Saturday, February 1

8:00 am – 12:00 noon -- Lab Practicum

1:00 pm – 5:00 pm -- Written Exam

Auburn University
Auburn, AL

Sunday, February 2

8:00 am – 5:00 pm -- Oral Presentations

Quiz Bowl

Church Suite, Mobile Ballroom II and Blakeley I
Adam's Mark Hotel
Mobile, AL

Monday, February 3

8:00 am – 9:30 am -- Quiz Bowl Final Round

Presentation of Awards

Room 201D
Mobile Convention Center
Mobile, AL

PROGRAM EVENTS

Friday, January 31

Academic Quadrathlon
Advisor's Meeting

P.M.

10:00 – 11:00

Room

Best Western
Auburn, AL

Saturday, February 1

Academic Quadrathlon
Lab Practicum

A.M.

8:00 – Noon

Room

Auburn University
Auburn, AL

P.M.

1:00 – 5:00

Room

Auburn University
Auburn, AL

Academic Quadrathlon
Written Exam

Sunday, February 2

Academic Quadrathlon
Quiz Bowl – Intermediate Rounds
Quiz Bowl – Intermediate Rounds
Oral Presentations
Oral Presentations – Preparation
Oral Presentations – Preparation
Oral Presentations – Preparation
Oral Presentations – Preparation

A.M.

8:00 – Noon
8:00 – Noon
8:00 – Noon
8:00 – Noon
8:00 – Noon
8:00 – Noon
8:00 – Noon

Room

Church Suite
Mobile Ballroom II
Blakeley I
Pecan Suite
Cypress Suite
Magnolia Suite
Dogwood Suite

P.M.

1:00 – 5:00

Room

Upper Concourse Mobile
Convention Center

Registration

Academic Quadrathlon
Quiz Bowl – Intermediate Rounds
Quiz Bowl – Intermediate Rounds
Oral Presentations
Oral Presentations – Preparation
Oral Presentations – Preparation
Oral Presentations – Preparation
Oral Presentations – Preparation
Supplementation Strategies for
Cattle Using Southern Forages—IEG 75
Small Ruminant IEG
Enhancing Reproductive Efficiency
in Cattle – IEG-72.
SAAS General Session
SAAS Reception

1:00 – 5:00
1:00 – 5:00
1:00 – 5:00
1:00 – 5:00
1:00 – 5:00
1:00 – 5:00
1:00 – 5:00
1:00 – 5:00
1:00 – 4:00
1:00 – 4:00
1:00—4:00
4:00 – 6:00
6:30 – 8:00

Church Suite
Mobile Ballroom II
Blakeley I
Pecan Suite
Cypress Suite
Magnolia Suite
Dogwood Suite

Dauphin
Oakleigh

Blakeley II
West
East & West

Monday, February 3

Registration

Academic Quadrathlon
Quiz Bowl Finals and

Awards Presentation

Graduate Student Paper Competition

Undergraduate Research Competition

A.M.

7:00 – Noon

8:00 – 9:30

8:00 – 10:45

10:30 – 12:00

RoomUpper Concourse, Mobile
Convention Center

201D

East

201D

Registration

Small Ruminant Production I

Physiology I

Extension I

Animal Science/Forage Joint Session I

Ruminant Animal Production I

Small Ruminant Production II

Business Meeting

P.M.

1:00 – 5:00

1:00 – 3:00

1:00 – 3:45

1:00 – 4:30

1:00 – 4:00

1:15 – 3:45

3:00 – 4:45

5:00 – 6:30

RoomUpper Concourse, Mobile
Convention Center

204B

East

204A

201D

201C

204B

201D

Tuesday, February 4

Registration

Meats

Teaching & Undergraduate Education

Ruminant Animal Production Symposium

Extension II

Physiology II

Animal Science/Forages Joint Session

Breeding & Genetics I

A.M.

8:00 – Noon

8:00 – 9:00

8:00 – 9:30

8:00 – 11:00

8:15 – 11:30

8:00 – 10:45

9:30 – 10:45

10:00 – 12:00

RoomUpper Concourse,
Convention Center

204B

201C

201D

201B

204A

204B

201C

Extension Luncheon

Small Ruminant Production III

Breeding & Genetics II

Ruminant Animal Production II

P.M.

Noon – 2:00

1:00 – 3:00

1:00 – 4:00

1:15 – 3:45

RoomJubilee Suite,
Adam's Mark

201B

201C

201D

Southern Section ASAS Annual Meeting Program

SUNDAY P.M.

Registration

Upper Concourse, Mobile Convention Center
1:00 p.m. – 5:00 p.m.

Small Ruminant Production Information Exchange Group

Room: Oakleigh, Adam's Mark Hotel
1:00 p.m. – 4:00 p.m.
Presiding: Joan Burke, USDA, Agricultural Research Service, Booneville, Arkansas

Supplementation Strategies for Cattle Using Southern Forages --Information Exchange Group -- 75

Room: Dauphin, Adam's Mark Hotel
1:00 p.m. – 4:00 p.m.
Presiding: Sam Coleman, USDA-ARS, Brooksville, FL

Enhancing Reproductive Efficiency in Cattle Information Exchange Group --72

Room: Blakeley II, Adam's Mark Hotel
1:00 p.m. – 4:00 p.m.

MONDAY A.M.

Registration

Upper Concourse, Mobile Convention Center
7:00 a.m. – 12:00 Noon

Academic Quadrathlon – Quiz Bowl Final Round and Presentation of Awards

Room 201D
Monday 8:00 a.m. – 9:30 a.m.

Graduate Student Paper Competition

Room: East, Mobile Convention Center

Monday 8:00 a.m. - 10:45 a.m.

Presiding: Scott Whisnant, North Carolina State University, Raleigh

| Abstract | | |
|-----------------|------------|--|
| Time | No. | |
| 8:00 | 32 | Exogenous γ -glutamyl cycle compound supplementation to <i>in vitro</i> maturation medium and effects on subsequent <i>in vitro</i> fertilization, culture, and viability of porcine oocytes and embryos. B. D. Whitaker ¹ and J. W. Knight ¹ , ¹ Virginia Polytechnic Institute and State University, Blacksburg VA/USA. |
| 8:15 | 33 | Supplementing bahiagrass hay with molasses or molasses-urea with or without soybean hulls. M. J. Kostenbauder ² , S. W. Coleman ¹ , C. C. Chase, Jr. ¹ , W. E. Kunkle ² , M. B. Hall ² , and F. G. Martin ² , ¹ USDA, ARS, STARS, Brooksville, FL, ² Univ. of Fla., Gainesville. |
| 8:30 | 34 | Effect of supplementation on nutrient digestion and retention by steers consuming bermudagrass hay. A.S. Webb, B.J. Rude, and D.G. St. Louis, Mississippi State University. |
| 8:45 | 35 | Effect of forage vs. concentrate feeding with or without antioxidants on carcass characteristics, fatty acid composition, and quality of Uruguayan beef. C.E. Realini ¹ , S.K. Duckett ¹ , G.W. Brito ² , M. Dalla Rizza ² , and D. De Mattos ² , ¹ Animal and Dairy Science Department, The University of Georgia, Athens, ² National Institute of Agricultural Research, Uruguay. |
| 9:00 | 36 | Effect of oil source with or without fish oil addition on ruminal biohydrogenation and conjugated linoleic acid (CLA) production in beef cattle fed finishing diets. B Jacob ¹ , S K Duckett ¹ , J R Sackmann ¹ , M H Gillis ¹ , C E Realini ¹ , K R Smith ¹ , A Parks ¹ , and R Eggleston ¹ , ¹ University of Georgia, Athens. |
| 9:15 | 37 | Measuring carcass composition of goat kids fed three dietary concentrations of copper. C. E. Hopkins ² , S. G. Solaiman ¹ , and C. R. Kerth ² , ¹ Tuskegee University, ² Auburn University. |
| 9:30 | | BREAK |
| 9:45 | 38 | Dexamethasone effects on leptin concentrations in stallions, mares, and geldings. J.A. Cartmill ¹ , D.L. Thompson, Jr. ¹ , W.A. Storer ¹ , and N.K. Huff ¹ , ¹ Louisiana State University Agricultural Center, Baton Rouge. |
| 10:00 | 39 | Feeding supranutritional concentrations of vitamin D ₃ and restricting dietary phosphorus effects on pork quality . T.R. Bonner, C.R. Kerth, W.F. Owsley, W.R. Jones, and L.T. Frobish, Auburn University . |
| 10:15 | 40 | Timing effects of second GnRH administration on AI pregnancy rate in an Ovsynch protocol in postpartum crossbred beef cattle. H.K. Baitis ¹ , W.D. Whittier ¹ , A. Garcia ¹ , and J.M. DeJarnette ² , ¹ Large Animal Clinical Science, Virginia Polytechnic Institute and State University, Blacksburg, VA, ² Select Sires Inc., Plain City, OH 43064. |
| 10:30 | 41 | Estrus Induction and Synchronization in Seasonally Anestrous Does in south Texas. M. A. Lerma ¹ and R. L. Stanko ^{1,2} , ¹ Texas A&M University-Kingsville, Kingsville, TX, ² Texas A&M University Agricultural Research Station, Beeville, TX. |

Undergraduate Research Paper Competition

Room: 201 D – Mobile Convention Center

Monday 10:30 a.m. – Noon

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

| | Abstract | |
|-------------|-----------------|---|
| Time | No. | |
| 10:30 | 114 | Evaluation of nutraceutical effects on pig immunity: effects of Promax. Leslie Dabovich ¹ , Lindsey Hulbert ¹ , Anthony Rudine ¹ , Sungwoo Kim ¹ , Fei Ji ¹ , and John McGlone ¹ , ¹ Pork Industry Institute, Dept Animal and Food Science, Texas Tech University. |
| 10:45 | 115 | Use of betamethasone to advance fetal maturation in mares with high-risk pregnancies. G. L. Olsen ¹ , D. L. Christiansen ¹ , J. Smith ¹ , R. Hopper ¹ , M. LeBlanc ² , and P. L. Ryan ¹ , ¹ Mississippi State University, Mississippi State, MS, ² Rood and Riddle Equine Hospital, Lexington, KY. |
| 11:00 | 116 | Rearing pigs indoors or outdoors: effects on pig growth, and behavior. Anthony Rudine ¹ , Leslie Dabovich ¹ , Lindsey Hulbert ¹ , Jeff Dailey ² , Julie Morrow ² , and John McGlone ¹ , ¹ Pork Industry Institute, Dept Animal and Food Science, Texas Tech University, ² Livestock Issues Research Unit, USDA-ARS. |
| 11:15 | 117 | Toxicity in mares consuming <i>C. paspali</i> -infected dallisgrass hay. M.A. Seitz ¹ , B.J. Rude ¹ , N.M. Filipov ² , and P.L. Ryan ^{1,2} , ¹ Mississippi State University, Mississippi State, MS, ² College of Veterinary Medicine, Mississippi State, MS. |
| 11:30 | 118 | Somatogenic hormone effects on immunoglobulin M (IgM) production by pig splenocytes <i>in vitro</i> . C.A. Davila, L.A. Solis, and J.C. Laurenz, ¹ Texas A&M University-Kingsville. |
| 11:45 | 119 | Rearing pigs indoors or outdoors: effects on immunity and Salmonella shedding. Anthony Rudine ¹ , Leslie Dabovich ¹ , Scot Dowd ² , Julie Morrow ² , and John McGlone ¹ , ¹ Pork Industry Institute, Dept Animal and Food Science, Texas Tech University, ² Livestock Issues Research Unit, USDA-ARS. |

MONDAY P.M.

Registration

Upper Concourse, Mobile Convention Center
Monday 1:00 p.m. - 5:00 p.m.

Animal Science/Forages Symposium I

Room: 201D Mobile Convention Center
Monday 1:00 p.m. – 4:00 p.m.

Presiding: John Waller, University of Tennessee, Knoxville

A. Southeast beef forage systems

| Time | Topic/Speaker |
|------|--|
| 1:00 | Selection and management of cool-season forages. Stacey Gunter, University of Arkansas |
| 1:40 | Selection and management of warm-season forages. Gary Hill, University of Georgia |
| 2:20 | BREAK |

B. Estimating quality and intake of forages

| | |
|------|--|
| 2:30 | Assessing quality and anti-quality characteristics of forages using NIRS. Sam Coleman, USDA-ARS Brooksville FL |
| 3:10 | Evaluation of intake estimation techniques for grazing ruminants. Eric Vanzant, University of Kentucky |

Extension I

Room: 204A Mobile Convention Center
Monday 1:00 p.m. - 4:30 p.m.

Presiding: Dr. Warren Gill, University of Tennessee, Nashville

| | | Abstract |
|------|-----|--|
| Time | No. | |
| 1:00 | 14 | RE-Cycle: recipe for waste-free swine production. T van Kempen ¹ , J Koger ¹ , P Burnette ¹ , D Ali ¹ , J Spivey ¹ , A Wossink ¹ , A Fassbender ² , and P Loeffler ³ , ¹ North Carolina State University, ² ThermoEnergy, ³ Sam Houston State University. |
| 1:15 | 15 | Growth performance in weanling pigs fed diets with elevated copper levels from two copper sources. A. F. Harper ¹ , W. A. Selby ¹ , C. M. Wood ¹ , M. J. Estienne ¹ , J. P. Fontenot ¹ , and L. A. Kuehn ¹ , ¹ Virginia Polytechnic Institute and State University. |
| 1:30 | 16 | The Kentucky "Master Cattleman" program. R. Burris, L. Anderson, J. Bicudo, D. Bullock, J. Henning, J. Johns, G. Lacefield, L. Meyer, B. Mikel, and P. Scharko, University of Kentucky. |

- 1:45 17 Using a value-added study tour and workshop to develop county based Integrated Resource Management programs. K. D. Bullock, L. H. Anderson, W. R. Burris, J. C. Henning, P. B. Scharko, W. B. Mikel, D. W. Shepherd, J. Akers, J. Hunter, and A. Smith, University of Kentucky.
- 2:00 18 The Louisiana Calf-to-Carcass Program: Influence of sire breed. H. D. Chapman, J. E. Devillier, and D. E. Franke, Louisiana State University Agricultural Center.
- 2:15 19 Using advanced reproductive technology to determine estrus in estrous-synchronized beef heifers. T.W. Wilson¹, J.E. Rossi², and M.E. Pence², ¹University of Georgia, Statesboro, ²University of Georgia, Tifton.
- 2:30 20 Effect of Brahman-influence on cattle grazing fescue pastures. R. Burris, L. Anderson, D. Bullock, P. Scharko, and J. Randolph, University of Kentucky.
- 2:45 21 Survey of production and marketing practices of cattle producers in the Southeastern United States. J.E. Rossi¹, M.E. Pence, and R.C. Lacy, ¹University of Georgia, Tifton.
- 3:00 BREAK
- 3:15 22 Overview of West Nile Virus in horses in Tennessee. O. F. Harper, F. Hopkins, and E. L. Tipton, The University of Tennessee.
- 3:30 23 Impact of a new livestock program for youth in Worth County, Georgia. H.M. Harris¹, W.R. Getz², and T.E. Cary¹, ¹University of Georgia, Sylvester, GA, ²Fort Valley State University, Fort Valley, GA.
- 3:45 **INVITED** What Alabama is doing to incorporate Education into the Showring at Youth Livestock Shows. Bob Ebert, Auburn University, Alabama

Physiology I: Swine Reproduction & Management, Animal Health, Male Physiology

Room: East, Mobile Convention Center

Monday 1:00 p.m. - 3:45 p.m.

Presiding: Randy Stanko, Texas A&M University - Kingsville

- Abstract**
- | Time | No. | |
|-------------|------------|---|
| 1:00 | 46 | Some hematological and biochemical alterations of experimentally infected rabbits by <i>Pasteurella multocida</i> . Osama Abd-Alla ¹ , Hesham El-Shewy ¹ , Hamdy Fetaih ² , and Fatma Yousef ³ , ¹ Department of Clinicalpathology, College of Vet Med, Suez Canal Univ, Ismailia, EGYPT, ² Department of Pathology, College of Vet Med, Suez Canal Univ, Ismailia, EGYPT, ³ Animal Health Institute, Giza, Egypt. |
| 1:15 | 47 | Interaction of ergotamine with liver cytochrome P450 3A4 in rats. A. S. Moubarak, H. X. Wang, Z. B. Johnson, and C. F. Rosenkrans, Jr., University of Arkansas, Fayetteville. |
| 1:30 | 48 | Effects of administration of ergotamine tartrate to simulate fescue toxicosis on fertility of yearling beef bulls. F. N. Schrick ¹ , J. C. Waller ¹ , J. L. Edwards ¹ , M. D. Davis ¹ , H. E. Blackmon ¹ , F. N. Scenna ¹ , N. R. Rohrbach ¹ , A. M. Saxton ¹ , H. S. Adair ² , and F. M. Hopkins ² , ¹ Department of Animal Science, ² Department of Large Animal Clinical Sciences, University of Tennessee, Knoxville. |

- 1:45 49 Comparison of testicular and epididymal sperm content in Angus, Brahman, and Romosinuano bulls. J.W. Koch^{1,2,3}, S.R. Tatman³, C.C. Chase, Jr.⁴, T.H. Welsh, Jr.², and R.D. Randel³, ¹Prairie View A&M University, Prairie View, TX, ²Texas Agricultural Experiment Station, College Station, ³Overton, ⁴USDA, ARS, STARS, Brooksville, FL.
- 2:00 50 Evaluating the relationship between environmental temperature and physiological temperatures in hair sheep rams in the tropics. O.T. Isles, R.W. Godfrey, R.E. Dodson, and A.J. Weis, University of the Virgin Islands, Agricultural Experiment Station, St. Croix.
- 2:15 BREAK
- 2:30 51 Concentrations of leptin in serum and milk from gilts fed a high- or low-energy diet during gestation. M.J. Estienne, A.F. Harper, D.M. Kozink, and J.W. Knight, Virginia Polytechnic Institute and State University, Blacksburg .
- 2:45 52 Prepubertal administration of porcine Epidermal Growth Factor increases litter size. John McGlone¹, Deidre Anderson,¹, and Vaughan Lee², ¹Texas Tech University, ²Texas Tech University Health Sciences Center, Lubbock.
- 3:00 53 Characterization of collagen degradation marker excretion during postpartum uterine involution in sows. B. A. Belstra, W. L. Flowers, M. T. See, and W. J. Croom, North Carolina State University, Raleigh.
- 3:15 54 Enhancing feed intake during the early lactation period in sows. J. Miller, L.A. Solis, and J.C. Laurenz, Texas A&M University-Kingsville.
- 3:30 55 Real-time monitoring of *Salmonella* in swine: Specificity and sensitivity of bacterial detection through the gastrointestinal tracts of juvenile and market weight pigs. S.T. Willard¹, R.H. Bailey¹, M.L. Rybolt¹, B.S. Gandy¹, P.L. Ryan,¹ and D.C. Lay², ¹Mississippi State University, Mississippi State, Mississippi, ²USDA-ARS, West Lafayette, Indiana.

Ruminant Animal Production I – Diets and Supplements

Room: 201 C, Mobile Convention Center

Monday 1:15 p.m. - 3:45 p.m.

Presiding: Mike Looper, USDA-ARS, Booneville, AR

- | Time | Abstract No. | Abstract |
|-------------|---------------------|--|
| 1:15 | 66 | Effect of Supplemental Copper on Copper Status, Calf Weaning Weights, and Reproduction in Beef Cattle. J. W. Spears, K. E. Lloyd, C. L. Wright, T. E. Engle, M. E. Tiffany, and C. S. Whisnant, North Carolina State University, Raleigh. |
| 1:30 | 67 | Effect of Selenium Supplementation of Beef Cows on Immune Responses of Weaned Beef Calves . P. A. Beck ¹ , T. J. Wistuba ² , M. E. Davis ² , and S. A. Gunter ¹ , ¹ Southwest Research and Extension Center, Hope, AR, ² Department of Animal Science, University of Arkansas, Fayetteville. |
| 1:45 | 68 | Feeding Value of Pelleted and Loose Soybean Hulls, and Corn Gluten Feed in Self-Feeding Programs for Backgrounding Calves. M. H. Poore, North Carolina State University, Raleigh. |

- 2:00 69 Cool-Season Annual Swards with Legumes to Supplement Wintering Beef Cows. T. G. Montgomery¹, W. A. Whitworth², and S. A. Gunter³, ¹University of Arkansas - Monticello, ²Southeast Research & Extension Center, Monticello, AR, ³Southwest Research & Extension Center, Hope, AR.
- 2:15 70 The Effect of a Condensed Tannin-Containing Forage on Methane Emission by Goats. R. Puchala, B. R. Min, A. L. Goetsch, and T. Sahl, E (Kika) de la Garza Institute for Goat Research, Langston University, OK.
- 2:30 BREAK
- 2:45 71 Tifton 85 and Alicia Bermudagrass Hay and Supplement Intake and Digestion by Steers. G. M. Hill¹, S. Savage¹, R. N. Gates², R. D. Hatfield³, B. C. Hand¹, and B. G. Mullinix, Jr.¹, ¹University of Georgia, Tifton, GA, ²USDA-ARS, Tifton, GA, ³US Forage Research Center, Madison, WI.
- 3:00 72 Effect of Fatty Acid Profile on In Situ and In Vitro Digestibility of Raw Soybean in Grazing Cattle. B. C. Housewright¹, L. L. Pickering¹, H. L. Richardson¹, D. D. Kee², J. Heitholt³, V. Pantalone⁴, and K.W. Davenport, ¹Texas A&M University - Commerce, ²Texas Cooperative Extension Service, ³Texas Agricultural Experiment Station - Dallas, ⁴University of Tennessee, Knoxville.
- 3:15 73 Evaluation of Rice Mill Feed in Diets Fed to Beef Cattle. W. N. Stacey and D. L. Rankins, Jr., Auburn University, AL.
- 3:30 74 Ruminal Dry Matter Disappearance Using Dacron or F57 Bags. M Yavuz¹, C. J. Richards¹, A. M. Saxton¹, J. L. Klotz¹, and J. C. Waller¹, ¹The University of Tennessee, Knoxville, TN.

Small Ruminant Production I – Internal Parasites, Health & Meat Quality

Room: 204 B, Mobile Convention Center

Monday 1:00 p.m. – 3:00 p.m.

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

- | | | Abstract |
|-------------|------------|--|
| Time | No. | |
| 1:00 | 89 | Gastrointestinal parasitism in pasture and pen-reared lambs of three hair sheep breeds in the southeastern U.S. S. Wildeus ¹ , J. E. Miller ² , and J. R. Collins ¹ , ¹ Virginia State University, Petersburg, VA, ² Louisiana State University, Baton Rouge, LA. |
| 1:15 | 90 | Direct effects of condensed tannins on gastrointestinal nematodes in grazing Angora goats. B.R. Min, D. Miller, S.P. Hart, G. Tomita, E. Loetz, and T. Sahl, E. Kika (de la Garza Institute for Goat Research, Langston University, Langston, OK, 73050. |
| 1:30 | 91 | Dietary organic chromium enhances insulin secretion after an oral propilenglycol challenge in goats. H. R. Vera-Avila ¹ , C. Valdivia-Aguilar ² , E. Villagomez-Amezcu ¹ , and E. Ramirez-Rodriguez ¹ , ¹ INIFAP, Mexico, ² Programa Delfin, Mexico. |
| 1:45 | 92 | Effect of high dietary Cu on growth performance, rumen fermentation and immune response in goat kids. T.J. Craig, Jr., S.G. Solaiman, G. Reddy, and C.E. Hopkins, Tuskegee University. |

- 2:00 93 Goat meat quality characteristics as influenced by diet and postmortem aging time. K. M. Gadiyaram¹, S. Galipalli¹, G. Kannan¹, A. Carmichael¹, B. Kouakou¹, T. D. Pringle², K. W. McMillin³, S. Gelaye¹, and T. H. Terrill¹, ¹Fort Valley State University, Fort Valley, GA, ²The University of Georgia, Athens, GA, ³Louisiana State University, Baton Rouge, LA.
- 2:15 94 Indicators of gastrointestinal parasitism after an experimental *Haemonchus contortus* infection in young goats receiving dietary Quebracho tannin. S. Wildeus¹, A. M. Zajac², K. E. Turner³, and J. R. Collins¹, ¹Virginia State University, Petersburg, VA, ²Virginia Tech, Blacksburg, VA, ³Appalachian Farming Systems Research Center, Beaver, WV.
- 2:30 95 Effect of Tasco seaweed extract supplementation on plasma cortisol and antioxidant enzyme activities in goats subjected to transportation stress. S. Galipalli¹, G. Kannan¹, K. E. Saker², T. H. Terrill¹, B. Kouakou¹, S. Gelaye¹, and K. M. Gadiyaram¹, ¹Fort Valley State University, Fort Valley, GA, ²Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA.
- 2:45 96 Validation of a goat simulation model using performance test information for young fast growing meat bucks. M. Villaquiran¹, T. A. Gipson¹, and H. D. Blackburn², ¹E (Kika) de la Garza Institute for Goat Research, Langston University, OK, ²USDA/ARS/NPA/NSSL/NAGP, Fort Collins, CO.

Small Ruminant Production II – Feeding & Nutrition

Room: 204 B, Mobile Convention Center

Monday 3:00 p.m. - 4:45 p.m.

Presiding: Sam Jackson, Texas Tech University, Lubbock

- | Time | Abstract No. | Abstract |
|-------------|---------------------|--|
| 3:00 | 97 | Growth of Yearling Meat Goat Doelings with Changing Plane of Nutrition. R. Joemat ^{1,2} , A. L. Goetsch ¹ , G. W. Horn ² , T. Sahlu ¹ , R. Puchala ¹ , B. R. Min ¹ , J. Luo ¹ , and M. Smuts ³ , ¹ E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK, ² Animal Science Department, Oklahoma State University, Stillwater, OK, ³ Animal Nutrition and Products Institute, Agriculture Research Council, Irene, South Africa. |
| 3:15 | 98 | Prediction of Metabolizable Energy Requirements for Maintenance, Gain, and Mohair Fiber Growth by Angora Goats. J. Luo, A. L. Goetsch, and T. Sahlu, E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK. |
| 3:30 | 99 | Use of spectral reflectance measures from hyperspectral radiometry in prediction of lamb gains on bermudagrass pastures. M. A. Brown ¹ , P. J. Starks ¹ , and L. A. Appeddu ² , ¹ USDA-ARS, Grazinglands Research Laboratory, El Reno, OK, ² Southwestern Oklahoma State University, Weatherford, OK. |
| 3:45 | 100 | Comparison of circulating gossypol in two deer species consuming fuzzy whole or Easiflo™ cottonseed. C.G. Brown ^{1,2} , D.A. Neuendorff ² , T.A. Strauch ² , A.W. Lewis ² , B.C. Baldwin ³ , M.C. Calhoun ³ , and R.D. Randel ² , ¹ Tarleton State University, Stephenville, TX, ² Texas Agricultural Experiment Station, Overton, TX, ³ Texas Agricultural Experiment Station, San Angelo, TX. |
| 4:00 | 101 | Winter annual grasses for meat goats. J-M. Luginbuhl, J. P. Mueller, and A. P. Conrad, North Carolina State University, Raleigh NC. |

- 4:15 102 Evaluation of kudzu (*Pueraria lobata*) as a feed for goats. R. H. Davis and R. N. Corley III, Tuskegee University, Tuskegee AL / USA.
- 4:30 103 Growth rates of Boer and Kiko crossbred wethers fed endophyte-infected tall fescue or orchardgrass. R. Browning, Jr., Y. G. Myles, M. Byars, S. H. Kebe, T. Payton, E. Lane, C. Johnson, D. A. Young, and D. Coleman, Tennessee State University, Nashville.

Business Meeting

Room: 201 D, Mobile Convention Center
Monday 5:00 p.m. - 6:30 p.m.

TUESDAY A.M.

Registration

Upper Concourse – Mobile Convention Center
Tuesday 8:00 a.m. - 12:00 Noon

Extension II

Room: 201B, Mobile Convention Center
Tuesday 8:15 a.m. - 11:30 a.m.
Presiding: Matt Poore, North Carolina State University, Raleigh

| Time | Abstract No. | Abstract |
|-------------|---------------------|--|
| 8:15 | 24 | Determining the value of preconditioned feeder cattle. T.R. Troxel, University of Arkansas Cooperative Extension Service, Little Rock, AR. |
| 8:30 | 25 | Assessment of timing of castration and other factors that affect performance of calves in a 45-day conditioning program. J.B. Neel, A.E. Fisher, W.W. Gill, C.D. Lane, Jr., B.D. Sims, and M.D. Davis, University of Tennessee, Knoxville. |
| 8:45 | 26 | Effect of frame size and supplementation on performance of newly received beef steers. W.W. Gill ¹ , J.B. Neel ¹ , C.D. Lane, Jr. ¹ , A.E. Fisher ¹ , T.M. Steen ² , B.D. Sims ¹ , M.D. Davis ¹ , and C.J. Richards ¹ , ¹ University of Tennessee, Knoxville, ² Tennessee Farmers Cooperative. |
| 9:00 | 27 | Effects of age at first calving and age within contemporary group on calving intervals in beef cattle. J. A. Parish ¹ and M. S. Andrews ¹ , ¹ University of Arkansas Cooperative Extension Service. |
| 9:15 | 28 | Mineral problem provides opportunity to develop Extension model for partnerships in Tennessee. W.W. Gill, A.E. Fisher, C.D. Lane, Jr., D.K. Joines, and J.B. Neel, University of Tennessee, Knoxville. |
| 9:30 | 29 | Mineral study reveals imbalances in Tennessee forage systems. A.E. Fisher, W.W. Gill, C.D. Lane, Jr., D.K. Joines, J.B. Neel, and C.J. Richards, University of Tennessee, Knoxville. |

- 9:45 30 Serum copper and selenium levels of selected Tennessee cattle. C.D. Lane, Jr.¹, A.E. Fisher¹, W.W. Gill¹, J.B. Neel¹, R.B. Wilson², F.M. Hopkins¹, and F.D. Kirkpatrick,
¹University of Tennessee, Knoxville, ²C.E. Kord Animal Disease Diagnostic Laboratory.
- 10:00 BREAK
- 10:15 31 Evaluation of blood mineral levels of beef cows and heifers. M.S. Gadberry¹, T.R. Troxel¹, and G.V. Davis¹, ¹University of Arkansas, Cooperative Extension Service.
- 10:30 **INVITED** Designing Teaching Techniques to Reach non-Extension Clientele, Glenn Selk, Oklahoma State University, Stillwater
- 11:00 **INVITED** University of Georgia Heifer Evaluation and Reproductive Development Program, Johnny Rossi, University of Georgia, Tifton

Meats

Room: 204 B, Mobile Convention Center

Tuesday 8:00 a.m. - 9:00 a.m.

Presiding: C.R. Kerth, Auburn University, Auburn, Alabama

- | | | Abstract |
|-------------|------------|--|
| Time | No. | |
| 8:00 | 42 | Color stability of summer sausage displayed in light of varying intensity. A.M. Jydegaard ² , P.L. Dawson ¹ , H.J.S. Nielsen ² , and J.C. Acton ¹ , ¹ Clemson University, ² The Technical University of Denmark. |
| 8:15 | 43 | Effect of rumen-protected conjugated linoleic acid (CLA) or linoleic acid on leptin and CLA content of bovine adipose depots. M.H. Gillis ¹ , S.K. Duckett ¹ , J.R. Sackmann ¹ , and D.H. Keisler ² , ¹ University of Georgia, Athens, ² University of Missouri, Columbia. |
| 8:30 | 44 | Carcass characteristics, fat color, and tenderness of beef finished on concentrate or forage. C.R. Kerth, Auburn University. |
| 8:45 | 45 | Effects of biological type and forage feeding on carcass characteristics, fatty acid profiles, and sensory attributes of beef cattle. R. T. Baublits ¹ , A. H. Brown, Jr. ¹ , F. W. Pohlman ¹ , C. J. Richards ⁴ , H. D. Loveday ⁴ , D. O. Onks ³ , Z. B. Johnson ¹ , C. A. Wells ² , R. E. Morrow ² , and B. A. Sandelin ¹ , ¹ University of Arkansas, Fayetteville, AR, ² National Center for Appropriate Technology, Fayetteville, AR, ³ University of Tennessee, Springhill, TN, ⁴ University of Tennessee, Knoxville, TN. |

Teaching and Undergraduate Education

Room: 204 B, Mobile Convention Center

Tuesday 8:00 a.m. – 9:30 a.m.
Presiding: Brian J. Rude, Mississippi State University, Starkville

| | Abstract | |
|-------------|-----------------|--|
| Time | No. | |
| 8:00 | 112 | A service learning approach to teaching companion animal management. K. M. Downs, J. G. Gentry, and J. E. Mehlhorn, Middle Tennessee State University. |
| 8:15 | 113 | Relationships among prematriculation academic indicators and collegiate success,. C. F. Rosenkrans, Jr. and J. A. May, University of Arkansas, Fayetteville. |
| 8:30 | | Group Discussion: Methods of Evaluating Animal Sciences Graduating Seniors |

Ruminant Animal Production Symposium: Stocking Rate – Plant, Animal, and Environmental Implications

Room: 201 D, Mobile Convention Center
Tuesday 8:00 a.m. - 11:00 a.m.
Presiding: F. Monte Rouquette, Texas A&M University, Overton

| | Abstract | |
|-------------|-----------------|---|
| Time | No. | |
| 8:10 | 75 | INVITED Stocking Rate - Plant, Animal, and Environmental Implications. F. M. Rouquette, Texas Agricultural Experiment Station. |
| 8:25 | 76 | INVITED Animal and Plant Responses to Stocking Rate. G. E. Aiken and M. L. Looper, USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR. |
| 8:50 | 77 | INVITED Effect of Cattle Price and Contract Grazing on Economic Optimum Stocking Rates for Stockers. D. I. Bransby, Auburn University, Auburn, AL. |
| 9:15 | | BREAK |
| 9:30 | 78 | INVITED Effect of Grazing on Subsequent Animal Response: Performance, Body composition, Visceral Organs, and Nutrient Flux. C. R. Krehbiel, M. J. Hersom, and G. W. Horn, Oklahoma State University, Stillwater. |
| 10:00 | 79 | INVITED Environmental Considerations for Grazing Management. P. A. Moore ¹ , B. E. Haggard ¹ , S. Formica ² , P. B. DeLaune ³ , and B. C. Bellows ⁴ , ¹ USDA/ARS, Fayetteville, AR, ² Arkansas DEQ, Little Rock, AR, ³ University of Arkansas, Fayetteville, AR, ⁴ ATTRA, Fayetteville, AR. |
| 10:20 | | DISCUSSION |

Physiology II: Equine, Heat Stress, Ruminant Reproduction, Estrous Synchronization

Room: 204 A, Mobile Convention Center

Tuesday 8:00 a.m. - 10:45 a.m.

Presiding: Randy Stanko, Texas A&M University - Kingsville

| Abstract | | |
|----------|-----|--|
| Time | No. | |
| 8:00 | 56 | Effect of supplemental molasses on equine salivary pH and subsequent bacterial acid production. B.C. Housewright, E.L. Swain, J. Hamra, L.L. Pickering, H.L. Richardson, and D.B. Crenshaw, Texas A&M University - Commerce. |
| 8:15 | 57 | The effect of cooling strategy during summer heat stress on production performance and body composition quality traits in lactating Holstein dairy cattle. H.L. Evans ^{1,2} , J. Murphy ³ , E. Cuadra ⁴ , S.T. Willard ² , and R.C. Vann ¹ , ¹ Brown Loam Branch Experiment Station, Raymond, Mississippi, ² Mississippi State University, Mississippi State, Mississippi, ³ Coastal Plains Branch Experiment Station, Newton, Mississippi, ⁴ Alcorn State University, Alcorn State, Mississippi. |
| 8:30 | 58 | The effect of 6-Methoxybenzoxazinone (MBOA) on PMSG-induced superovulatory responses in St. Croix White ewes. T. Dickerson ¹ , R. Godfrey ² , R. Dodson ² , A. Weis ² , and S. Willard ¹ , ¹ Mississippi State University, Mississippi State, Mississippi, ² University of the Virgin Islands, St. Croix, USVI. |
| 8:45 | 59 | Effects of prostaglandins E and F on early embryonic development in the goat. B.L. Sayre, M.P.L. Dismann, and J.P. Tritschler, Virginia State University, Petersburg, VA. |
| 9:00 | 60 | Prediction of blood plasma progesterone via near infrared transmittance spectroscopy. D. Tolleson ¹ , D. Rabbe ² , R. Randel ¹ , J. Stuth ¹ , and K. Busch ² , ¹ Texas A&M University Agriculture Program, ² Baylor University Dept. of Chemistry and Biochemistry. |
| 9:15 | | BREAK |
| 9:30 | 61 | Live animal carcass traits as influenced by estrous synchronization protocol and effects on fertility in nulliparous beef heifers. H.L. Evans ^{1,2} , S.T. Willard ² , and R.C. Vann ¹ , ¹ Brown Loam Branch Experiment Station, Raymond, Mississippi, ² Mississippi State University, Mississippi State, Mississippi. |
| 9:45 | 62 | Single versus split dose of PGF2a in a GnRH + PGF2a protocol combined with melengestrol acetate (MGA) in lactating <i>Bos taurus</i> x <i>Bos indicus</i> cows. G. E. Portillo, G. A. Bridges, M. K. Shaw, J. W. de Araujo, W. W. Thatcher, and J. V. Yelich, University of Florida, Gainesville. |
| 10:00 | 63 | Efficacy of a single versus a split dose of PGF2a in a GnRH + PGF2a estrous synchronization protocol combined with melengestrol acetate (MGA) in lactating Angus cows. G. A. Bridges, G. P. Portillo, M. K. Shaw, J. W. de Araujo, and J. V. Yelich, University of Florida, Gainesville. |
| 10:15 | 64 | Influence of GnRH and estradiol on estrus and luteal activity of anestrus postpartum beef cows. I. Rubio, F. J. White, N. H. Ciccioli, and R.P. Wettemann, Oklahoma State University, Stillwater. |

- 10:30 65 Estrous synchronization for beef heifers: CO-Synch versus Hybrid-Synch. B. K. Reed,¹ and C. B. Rodgers², ¹BKR Cattle Etc, ²Triple R Farms.

Animal Science/Forages Joint Session

Room: 204 B, Mobile Convention Center

Tuesday 9:30 a.m. – 10:45 a.m.

Presiding: John Stuedemann, USDA-ARS Watkinsville, GA

| Time | Abstract No. | Abstract |
|-------------|---------------------|---|
| 9:30 | 1 | The effect of early calf weaning followed by ryegrass (<i>Lolium multiflorum</i> Lam.) grazing on performance of fall-born calves in Florida. J. D. Arthington ¹ and R. S. Kalmbacher ¹ , ¹ University of Florida, Range Cattle Research and Education Center, Ona. |
| 9:45 | 2 | Performance of early-weaned calves grazing stargrass (<i>Cynodon nlemfuensis</i>) and Atraspalum (<i>Paspalum atratum</i>) pastures during summer. J. M. B. Vendramini ¹ , J. D. Arthington ² , L. E. Sollenberger ¹ , R. S. Kalmbacher ² , and P. Mislevy ² , ¹ University of Florida, Department of Agronomy, ² University of Florida, Range Cattle Research and Education Center. |
| 10:00 | 3 | Cool season forage-based beef cattle finishing systems. R. B. Pugh, D. O. Onks, J. D. Gresham, H. D. Loveday, and C. J. Richards, University of Tennessee, Knoxville TN. |
| 10:15 | 4 | The use of stockpiled limpograss as a winter forage supplement for beef cows in south Florida. T. E. Anton ¹ , J. D. Arthington ¹ , and F. M. Pate ¹ , ¹ University of Florida, Range Cattle Research and Education Center, Ona. |
| 10:30 | 5 | Evaluation of perennial eastern gamagrass regrowth. M.S.H. Mashingo ¹ , D.W. Kellogg ¹ , W.K. Coblenz ¹ , and K.S. Anschutz ¹ , ¹ Department of Animal Science, University of Arkansas. |

Breeding and Genetics I

Room: 201 C, Mobile Convention Center

Tuesday 10:00 - 12:00 Noon

Presiding: Joe C. Paschal, Texas A&M University, Corpus Christi.

| Time | Abstract No. | Abstract |
|-------------|---------------------|--|
| 10:00 | 6 | Heritability of measures of body density and their relationship to backfat thickness and loin eye area in swine. Z.B. Johnson ¹ and R.A. Nugest, III ² , ¹ University of Arkansas, Fayetteville, ² The Pork Group, Rogers, AR. |
| 10:15 | 7 | Milk production in four divergent biological types grazing common bermudagrass or endophyte infected tall fescue. B.A. Sandelin ¹ , A.H. Brown ¹ , M.A. Brown ² , Z.B. Johnson ¹ , and R.T. Baublits ¹ , ¹ Department of Animal Science, University of Arkansas, Fayetteville 72701, ² Grazinglands Research Laboratory, El Reno, OK 73086. |
| 10:30 | 8 | Fit of standard lactation curve models to milk production records of dairy buffaloes using different interval yields. E.B. Flores ¹ , D.W. Kellogg ¹ , A.H. Brown ¹ , Z.B. Johnson ¹ , and |

A. Mauromoustakos², ¹Department of Animal Science University of Arkansas,
²Department of Agricultural Statistics University of Arkansas.

- 10:45 9 Postpartum maternal behavior in six breed groups of beef cows. A.H. Brown, Jr.¹, Z.B. Johnson¹, J.A. Hornsby¹, B.A. Sandelin¹, R.T. Baublits¹, and E.B. Flores¹, ¹Department of Animal Science, University of Arkansas.
- 11:00 10 Genetic characterization of American Milking Devon Cattle. R. K. Splan¹, ¹Virginia Polytechnic Institute and State University, Blacksburg, VA.
- 11:15 11 Molecular genetic mapping of imprinted QTL for gestation length in Bos taurus x Bos indicus cross cattle produced by embryo transfer. Ikhide Imumorin^{1,4}, Dirk-Jan De Koning², James Sanders¹, Scott Davis¹, Johan van Arendonk², JongJoo Kim^{1,3}, and Jeremy Taylor¹, ¹Texas A&M University, College Station, TX USA, ²Wageningen University, Wageningen, The Netherlands, ³University of Liege, Liege, Belgium, ⁴Valdosta State University, Valdosta, GA 31698.
- 11:30 12 Reproductive and maternal performance of F₁ Brahman-, Senepol-, and Tuli-Angus cows bred to Charolais bulls as 3- to 8-yr-olds. D. G. Riley¹, C. C. Chase, Jr.¹, T. A. Olson², A. C. Hammond³, and S. W. Coleman¹, ¹USDA, ARS, STARS, Brooksville, FL, ²University of Florida, Gainesville, ³USDA, ARS, SAA, Athens, GA.
- 11:45 13 Evaluation of F₁ cows sired by Brahman, Boran, and Tuli for reproductive and maternal performance. K.L. Key¹, A.E. Ducoing², J.O. Sanders¹, and D.K. Lunt¹, ¹Texas A&M University, College Station, ²Universidad Nacional Autonoma de Mexico.

TUESDAY P.M.

Extension Luncheon

Room: Jubilee Suite, Adam's Mark Hotel
Tuesday 12:00 Noon - 2:00 p.m.

Small Ruminant Production III – Genetics, Carcass Merit, Marketing, and Basic Functions

Room: 201 B, Mobile Convention Center
Tuesday 1:00 p.m. – 3:00 p.m.

Presiding: Richard Browning, Tennessee State University, Nashville

- | Time | Abstract No. | |
|-------------|---------------------|---|
| 1:00 | 104 | Comparison of carcass traits of extensively raised hair breed lambs. J. M. Burke ¹ , J. K. Apple ² , W. J. Roberts ² , and C. B. Boger ² , ¹ USDA, Agricultural Research Service, ² University of Arkansas, Department of Animal Science. |
| 1:15 | 105 | Growth and carcass traits of St. Croix White and Dorper X St. Croix White lambs in the tropics. R.W. Godfrey and A.J. Weis, University of the Virgin Islands, Agricultural Experiment Station, St. Croix. |

- 1:30 106 Postpartum ovarian activity in Pelibuey ewes consuming crystalline wheat protected from ruminal degradation. D. G. Peña-Avila¹, H. R. Vera-Avila², E. Gonzalez-Padilla¹, G. Mendoza-Martinez³, and J. Lopez², ¹UNAM, Mexico, ²INIFAP, Mexico, ³Colegio de Postgraduados, Mexico.
- 1:45 107 Market Price, Cost of Production, Lambing Patterns and Marketing Options in the WV Sheep Industry. D Singh, D Smith, and M Knights, West Virginia University, WV.
- 2:00 108 Fatty acid composition of milk and Domiati cheese from grazing Alpine goats during a whole lactation. K.A. Soryal, S.S. Zeng, S. P. Hart, B. R. Min, and K. Tesfai, E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK.
- 2:15 109 Growth, intake and carcass characteristics of Boer- and Kiko-sired crossbred goat kids pen-fed a forage-based diet. S. Wildeus¹, H. N. Zerby², K. E. Turner³, S. P. Greiner⁴, and J. R. Collins¹, ¹Virginia State University, Petersburg, VA, ²The Ohio State University, Columbus, OH, ³Appalachian Farming Systems Research Center, USDA, ARS, Beaver, WV, ⁴Virginia Tech, Blacksburg, VA.
- 2:30 110 Performance, blood metabolites and visceral organ mass and composition in growing castrated dairy goats. A. Carmichael, B. Kouakou, S. Gelaye, G. Kannan, and T.H. Terrill, Fort Valley State University, Fort Valley, GA.
- 2:45 111 Growth and carcass characteristics in lambs from three hair sheep breeds raised on pasture and hay-based diets. S. Wildeus¹, H. N. Zerby², K. E. Turner³, and J. R. Collins¹, ¹Virginia State University, Petersburg, VA, ²The Ohio State University, Columbus, OH, ³Appalachian Farming Systems Research Center, USDA, ARS, Beaver, WV.

Breeding and Genetics Symposium

Room: 201 C, Mobile Convention Center

Tuesday 1:00 p.m. – 4:00 p.m.

Presiding: Joe C. Paschal, Texas A&M University, Corpus Christie

| Time | Topic/Speaker |
|-------------|---|
| 1:00 | Introduction: Use of Genomic Information in Commercial Applications, Joe C. Paschal, Texas A&M University |
| 1:20 | Genomic Information in Beef Cattle and Commercial Applications, Mike Heaton, USMARC, Clay Center, NE |
| 2:00 | Genomic Information in Swine and Commercial Applications, speaker to be announced |
| 2:40 | Genomic Information in Sheep and Commercial Applications, speaker to be announced |
| 3:30 | DISCUSSION |

Ruminant Animal Production II – Grazing and Feedlot Cattle

Room: 201 D, Mobile Convention Center

Tuesday 1:15 p.m. - 3:45 p.m.

Presiding: Stacey Gunter, University of Arkansas, Hope

| | Abstract | |
|-------------|-----------------|---|
| Time | No. | |
| 1:15 | 80 | Winter Pasture Grazing Performance Effects on Feedlot and Carcass Traits in Cattle. J. J. Cleere ¹ , A. D. Herring ² , J. W. Holloway ³ , H. Lippke ³ , C. R. Long ¹ , M. F. Miller ⁴ , K. R. Pond ⁴ , F. M. Rouquette ¹ , and B. G. Warrington ³ , ¹ Texas A&M University, Overton, ² Texas A&M University, College Station, ³ Texas A&M University, Uvalde, ⁴ Texas Tech University, Lubbock. |
| 1:30 | 81 | Season-Long Versus Intensive-Early Stocking at Two Nitrogen Fertilization Rates with Stocker Cattle Grazing Bermudagrass/Dallisgrass Pasture. L. G. Driggers ¹ , S. A. Gunter ² , P. A. Beck ² , and M. J. Phillips ² , ¹ Department of Agricultural and Extension Education, University of Arkansas, Fayetteville, ² Southwest Research & Extension Center, Hope, AR. |
| 1:45 | 82 | Performance of Romosinuano Steer Calves as Winter Stockers for the Southern Great Plains. W. A. Phillips ¹ , S. W. Coleman ² , D. G. Riley ² , C. C. Chase ² , and H.S. Mayeux ¹ , ¹ USDA-ARS, Grazinglands Research Laboratory, El Reno, OK, ² USDA-ARS Subtropical Agricultural Research Station, Brooksville, FL. |
| 2:00 | 83 | Comparison of Respiration Rate, Body Temperatures, and Temperament in Temperate and Tropically Adapted Beef Steers. R. J. Hollenbeck ¹ , S. T. Willard ² , T. H. Welsh ¹ , and R. D. Randel ³ , ¹ Texas Agricultural Experiment Station, College Station, ² Mississippi State University, Starkville, ³ Texas Agricultural Experiment Station, Overton. |
| 2:15 | 84 | Comparison of Adrenal Steroid Secretion and Plasma Metabolites in Temperate and Tropically Adapted Beef Steers. R. J. Hollenbeck ¹ , S. T. Willard ² , R. D. Randel ³ , and T. H. Welsh ¹ , ¹ Texas Agricultural Experiment Station, College Station, TX, ² Mississippi State University, Starkville, MS, ³ Texas Agricultural Experiment Station, Overton, TX. |
| 2:30 | | BREAK |
| 2:45 | 85 | Influence of Steroid Implantation and Supplementation on Performance and Lactate Dehydrogenase Activity in Steers Grazing Bermudagrass. M. L. Looper ¹ , G. E. Aiken ¹ , J. A. May ² , and C. F. Rosenkrans, Jr. ² , ¹ USDA-Agricultural Research Service, Dale Bumpers Small Farms Research Center, Booneville, AR, ² University of Arkansas, Fayetteville. |
| 3:00 | 86 | Responses of Metaphylactic Treatment with Micotil on the Incidence of Bovine Respiratory Disease (BRD) in Southeastern Stocker Cattle. R. C. Vann ¹ , T. Engelken ² , B. J. Boyd ¹ , H. L. Evans ¹ , and D. McClary ³ , ¹ Brown Loam Branch Experiment Station, Raymond, MS, ² CVM Mississippi State University, Mississippi State, MS, ³ Elanco Animal Health, Greenfield, IN. |
| 3:15 | 87 | Incidence of Fecal Shedding of <i>Escherichia Coli</i> and <i>Salmonella spp.</i> in Beef Cattle Grazing Endophyte-Infected and Non-Infected Tall Fescue. M. L. Looper ¹ , G. E. Aiken ¹ , T. S. Edrington ² , C. F. Rosenkrans, Jr. ³ , and R.O. Elder ² , ¹ USDA-Agricultural Research Service, Dale Bumpers Small Farms Research Center, Booneville, AR, ² USDA-Agricultural Research Service, Southern Plains Ag. Research Center, College Station, TX, ³ University of Arkansas, Fayetteville. |

3:30 88 Effects of Serum Cu and Se Levels on Antibody Titers of Stocker Calves Exposed to *Leptospira pomona* Vaccine . H. L. Richardson, B. C. Housewright, and D. B. Crenshaw, Texas A&M University-Commerce, Commerce, TX.

Southern Section American Society of Animal Science

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| | | |
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| | | |
|---------|-----------------|-------------------------|
| 1954–55 | R.A. Damon | Louisiana State Univ. |
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| 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. |

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| 1998 | Not given | |
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| 1994 | George E. Mitchell, Jr. | Kentucky |
| 1993 | L.E. McDowell | Florida |
| 1992 | Joseph Fontenot | Virginia |
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| 1988 | Clarence B. Ammerman | Florida |
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| 1984 | L.C. Ulberg | North Carolina |
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| 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 |
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| 1971 | Ray H. Dutt | Kentucky |
| 1970 | Robert C. Carter | Virginia |
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American Society of Animal Science Extension Award Recipients

| | | |
|------|----------------------|----------------|
| 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

| | |
|------|---------------------------|
| 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**

| | | |
|-------------------|----------------------|------------------------|
| 2002 ¹ | Joel Yelich | University of Florida |
| 2002 ² | Beth Kegley | University of Arkansas |
| 2001 ¹ | Shawn Ramsey | Texas A&M University |
| 2001 ² | Jason Apple | University of Arkansas |
| 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

**National Pork Board Award for Innovation
Award Recipients**

| | | |
|------|-----------|------------------------|
| 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 |
|-------------|------------------|-------------------------|-------------------------|
| 2002 | J. A. Parish | Auburn | 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**

| Year | Awardee | Place of Meeting | University |
|-------------|-----------------|-------------------------|--------------------------------|
| 2002 | B. Spader | Columbia | University of Missouri |
| 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**

2002-2003
(chair listed first)

Executive

D.K. Aaron (KY), K. L. Esbenshade (NC),
T.R. Troxel, (AR), J.F. Baker (GA)

Advisory

D. Ely (KY), P. Harms (TX), P. Humes (LA),
R. McKinnie (NC), R. Wetteman (OK), G. Hembry (FL)

Distinguished Service Award

J. Hughes (OK), D. Morrison (LA), J. Fontenot (VA),
C. Ammerman (FL), G. Cromwell (KY)

Extension Award

M. Poore (NC), K. Esbenshade (NC), R. Burris (KY),
C. Lane (TN), L. Benyshek (GA), W. Gill (TN)

Graduate Student Award

S. Whisnant (NC), W. Greene (TX), C. Brooks (OK),
D. Franke (LA), S. Schmidt (AL)

Young Animal Scientist Award-Research

K. Pond (TX), C. Chase (FL), J. Apple (AR),
E. Kegley (AR), R. Wetteman (OK)

Young Animal Scientist Award-Education

T. Marshall (FL), G. Selk (OK), R. Del Vecchio (LA),
S. Ramsey (TX), J. Yelich (FL)

NPB Award

K. Esbenshade (NC), A. Harper (VA), C. Maxwell (AR)

Academic Quadrathlon

T. Thrift (FL), J. Sterle (TX), B. Rude (MS),
J. Yelich (FL), D. Coleman (AL)

Minority Issues

R. McKinnie (NC), R. Browning (TN)

Necrology

G.L.M. Chappell (KY), A. H. Brown, Jr. (AR)

Nomination

T. Kiser (MS), P. Harms (TX), W. Getz (GA), D. Ely (KY)

Resolutions

L. Edgerton (KY), P. Harms (TX), J. Neel (TN)

Animal Science/Forages Joint Session

J. Waller (TN), J. Stuedemann (GA),
J. Jennings (AR), J. Andrae (GA)

Breeding and Genetics

J. Paschal (TX), K. Stalder (TN), D. Riley (FL)

Extension

C. Lane (TN), A. Harper (VA), J. Hall (VA)

Meats

C. Kerth (AL), B. Mikel (KY), S. Duckett (GA)

Nonruminant Animal Production

L. Frobish (AL), A. Harper (VA), C. Maxwell (AR)

Physiology

S. Washburn (NC), R. Stanko (TX),
J. Hall (VA), M. Estienne (VA)

Ruminant Animal Production

A. Goetsch (OK), G. Huntington (NC), M. Brown (TX),
L. Anderson (KY), J. Spears (NC)

Small Ruminant Production

W. Getz (GA), R. Browning (TN),
J. Burke (AR), S. Jackson (TX)

Teaching and Undergraduate Education

C. Rosenkrans (AR), M. McCann (VA), B. Rude (MS)