

**One Hundred and Third  
Annual Meeting**

**SOUTHERN  
ASSOCIATION OF  
AGRICULTURAL  
SCIENTISTS**

Orlando, Florida  
February 04-08, 2006

Wyndham Orlando Resort

For their support of the Southern Association of Agricultural Scientists, ***special thanks*** are expressed to:

For the Reception:

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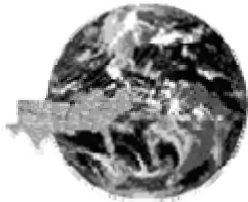
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***Conference participants are encouraged to thank  
the sponsors for their support of the SAAS.***

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**Southern Association  
of Agricultural Scientists  
Annual Meeting and Conference**



*Orlando Florida*

SAAS strives to forward the interests of Southern agriculture by bringing agricultural leaders in the educational field and industry together. The association instructs and trains individuals for the purpose of improving or developing their capabilities relating to educational activities in service to the public arena. SAAS also offers young scientists an opportunity to present papers resulting from their research, extension, or other efforts and to exchange knowledge with other leaders.

**Thank you for attending and taking part  
in this effort!**

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## SAAS REGISTRATION

Wyndham Orlando Resort Foyer

**Sunday** 8:00 am - 4:00 pm  
**Monday** 8:00 am - 4:30 pm  
**Tuesday** 8:00 am - Noon

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## SAAS PROGRAMS

Sunday, February 5

**4:00 pm - 6:00 pm — SAAS Opening Session and  
General Business Meeting**  
*Orange and Lemon Rooms*  
**The Future of Animal Agriculture in North  
America**

**6:30 pm – till — SAAS Reception**  
*East Pool Pavilion*  
*(Wyndham Foyer if raining)*

### ***“Super Bowl Party”***

*Come watch the game!*

Sponsored by Southern Farm Bureau Life  
Insurance Co. Jackson, Mississippi and  
Affiliates

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## EXECUTIVE COMMITTEE MEETINGS

Sunday, February 5

**2:30 pm - 3:30 pm--SAAS Board Meeting**  
Executive Board Room

Tuesday, February 7

**7:30 am - 9:30 am -SAAS Board Breakfast Meeting**  
Oleander B

## OPENING SESSION AND GENERAL BUSINESS MEETING

**Sunday February 5, 2006,  
4:00 to 6:00 PM**

**Wyndam - Orange and Lemon Rooms**

### Introduction

Scott Smith, President of SAAS  
University of Kentucky

### Program

**The Future of Animal Agriculture in North  
America**

Animal agriculture is undergoing fundamental change. This change is not limited to any particular size or type of livestock operation, nor is it limited to the farm. Every facet of the animal food chain-- from genetics to retailer to food service outlet-- is trying to adjust to the rapid pace of change. This session is sponsored by Farm Foundation and the SAEA, and will take a comprehensive look at this industry. All SAAS associations and represented discipline are invited to attend this session.

Speakers may include Walter Armbruster, Farm Foundation; Hal Harris, Clemson Univ.; David Blandford, Penn State Univ.; Peter Goldsmith, Univ. of Illinois; H.L. Goodwin, Univ. of Arkansas; Helen Jensen, Iowa State Univ.; Charlie Abdalla, Penn State Univ.; Mike Boehlje, Purdue Univ.

**General Business Meeting to follow.**

**Come Early  
Door prizes will be drawn!**

**ACADEMIC DEPARTMENT HEADS**

**Academic Department Heads  
2006 SAAS Meeting  
Wyndham Orlando Resort  
Monday, February 6, 2006  
Coquina Room**

**SPECIAL PROGRAMS**

**Thursday and Friday, February 2 - 3**

**8:00 am – 5:00 pm**  
**Sweet Potato IMP Project**  
Cedar/Marathon

**Saturday, February 4**

**8:00 am – 5:00 pm**  
**S-1023 Regional Project– Heat Stress in Dairy Cattle**  
Longboat

**8:00 am – 5:00 pm**  
**IR-4 Phytophthora capsici Disease Workshop**  
Tangerine A

**8:00 am – 5:00 pm**  
**NCAC-14/SRAC-11 Joint Meeting**  
Tangerine B

**Sunday, February 5**

**8:00 am – 11:00 am**  
**S-1023 Regional Project– Heat Stress in Dairy Cattle**  
Longboat

**8:00 am – 1:30 pm**  
**NCAC-14 Meeting**  
Hibiscus

**2:00 pm – 5:00 pm**  
**SS-AAEA Meeting**  
Hibiscus

The agenda for the meeting is:

7:00 - 7:20 am ..... Continental Breakfast

7:20 - 8:00 am ... A Discussion of Distance Learning  
and On-line Courses

8:00 - 8:45 am .... Discussion of University, College,  
and Departmental Changes

8:45 - 9:00 am .....Business Meeting

**ADMINISTRATIVE HEADS**

**Southern Association of Agricultural Scientists  
Administrative Heads of Agriculture Section  
Wyndham Orlando Resort  
(AHS)**

**Monday, February 6**

**7:30 am – 9:00 am – Administrative Heads of  
Agriculture Section (AHS)  
Executive Board Room**

**SAAS AGRICULTURAL COMMUNICATIONS**

**Annual Meeting**

**Orlando, Florida - February 5-6, 2006**

**Sunday, February 5**

**10:15 a.m. Research Session I**  
Palms Ballroom Salon B (Wyndham Resort)

**Welcome and Overview**

**“Communication Efforts of Florida Extension  
Agents during the 2004 Hurricane Season”**  
Melissa Muegge, Ricky Telg, Tracy Irani, Mark Kistler  
& Nick Place, University of Florida

**“Themes, Authors, and Citations in the *Journal  
of Applied Communications, 2000-2004*”**  
Jefferson D. Miller, University of Arkansas; Dana M.  
Stewart, American Gelbvieh Associates; and Lindsay  
M. West, Texas Tech University

**“Bridging Borders: Organizing Short-Term  
Agricultural Communication Study Abroad  
Programs”**  
Emily Rhoades, Ricky Telg, and Tracy Irani,  
University of Florida & Owen Roberts, University of  
Guelph

**Noon Lunch on your own**

**1:15 p.m. Professional Development Session I**  
Guest Speakers: Casey Pace, Communications  
Director, Florida Citrus Mutual, and Heather Nedley,  
Executive Director, Polk County Farm Bureau

**2:45 p.m. Break**

**3:00 p.m. Research Session II**

**“A Semiotic Analysis of Biotechnology and Food  
Safety Photographs in *Time, Newsweek, and U.S.  
News & World Report*”**  
Jennifer Lynn Norwood-Tolbert and Tracy A.  
Rutherford, Texas A&M University

**“The Stuff You Need Out Here: A Semiotic  
Analysis of Agricultural Magazine  
Advertisements”**  
Emily B. Rhoades, University of Florida

**4:00 p.m. General Session**

**AG COMMUNICATIONS**

**Monday, February 6**

**8:30 a.m. Research Session III**  
Palms Ballroom Salon B (Wyndham Resort)

**“Evaluating Genetically Modified Food Labels: A Focus Group Study”**  
Courtney Meyers, University of Florida, and Jefferson D. Miller, University of Arkansas

**“Understanding the U.S. Public’s Lack of Knowledge about Agricultural Biotechnology and Its Implications for Print Media”**  
Victoria L. Kramer, and Joan S. Thomson, Pennsylvania State University

**“Environmental Groups Identify Barriers to Agriculture in Adopting Water Quality BMPs”**  
Terrie Clark, Steven G. Hill, Ted Cable, Kris Boone, and Pat Melgares, Kansas State University

**10:00 a.m. Break**  
(Sponsored by ACE Southern Region)

**10:30 a.m. Professional Development Session II**  
Guest Speaker: Keith Rupp, Director of Public Relations, Florida Department of Citrus

**Noon Lunch on your own**

**1:30 p.m. Research Session IV**

**“Local Marketing and Promotional Efforts of Florida Extension Agents”**  
Ashley Hurst, Ricky Telg & Tracy Irani, University of Florida

**“Podcasting Agriculture News: A New Technology Challenging Traditional Radio”**  
Blair L. Fannin, Texas A&M University

**2:30 p.m. Break**

**3:00 p.m. Research Session V**

**“Cognitive and Affective Responses by Lubbock Chamber of Commerce Affiliates to Agricultural News”**  
Meredith Campbell, Chad S. Davis, Cindy Akers, David Doerfert & Steve Frazee, Texas Tech University

**AG COMMUNICATIONS**

**“Teaching Students to Write: A Review of History, Movements and Methods”**

Danna B. Kelemen, and D. Dwayne Cartmell, II, Oklahoma State University

**4:00 p.m. General Discussion and Business Meeting**

**Southern Agricultural Economics Association  
38<sup>th</sup> Annual Meetings Program  
February 5-8, 2006  
Orlando, Florida**

**SAEA OFFICERS:**

*President* ..... KIMBERLY L. JENSEN  
*President-Elect* ..... DAMONA DOYE  
*Director* ..... RANDALL D. LITTLE  
*Director* ..... CHARLES R. HALL  
*Director* ..... STANLEY M. FLETCHER  
*Secretary* ..... WOJCIECH J. FLORKOWSKI  
*Treasurer* ..... JEFFREY L. JORDAN  
*Past-President* ..... RICHARD L. KILMER  
*Editor* ..... HENRY KINNUCAN

**All meeting rooms are located in the  
Wyndham Orlando Resort, International Drive**

**Saturday 6 p.m. - 7 p.m.**

***Quiz Bowl***

**Palms Ballroom, Salon I**

**Sunday 8 a.m. – 5 p.m.**

***Quiz Bowl***

**Palms Ballroom, Salon I**

**Sunday 9 a.m. - 2 p.m.**

***SAEA Executive Board Meeting*  
Executive Boardroom**

**Sunday Noon - 5 p.m.**

***Registration***

**Palms Ballroom, Foyer**

**Sunday 2 p.m. - 5 p.m.**

***Department Heads' Meeting*  
Tangerine A**

**Sunday 2 p.m. - 5 p.m.**

***SS-AAEA Meeting*  
Hibiscus**

**Sunday 4 p.m. - 6 p.m.**

***SAAS General Session*  
Citrus Ballrooms, Orange & Lemon**

**Sunday 6:30 p.m. - 8:30 p.m.**

***SAAS Reception*  
East Pool Pavilion**

**Sunday 2 p.m. - Tuesday 5 p.m.**

***Selected Posters***

**Palms Ballroom, Salon E**

Poster Presentations-Tuesday 10:15 - 12:00 noon

**AGRICULTURAL ECONOMICS**

Presenters:

1. **Economic Impact of BSE on the United States Beef Industry**  
Sarah McMahon, Parr Rosson, Flynn Adcock,  
Texas A&M University
2. **US Cotton Producers—Past, Present, and Future, Evidence from the 1997 and 2002 Census of Agriculture**  
A. Blake Brown, North Carolina State University;  
George Frisvold, University of Arizona; Kenneth  
Paxton, LSU; Jeanne Reeves, Cotton  
Incorporated
3. **Making Do without Methyl Bromide: The Financial Efficiency and Viability of Georgia's Bell Pepper Enterprises Under Alternative Fumigation-Herbicide Systems**  
Mark M. Byrd, Cesar L. Escalante, Esendugue G.  
Fonsah, Michael E. Wetzstein, University of  
Georgia
4. **A Partial Budget Analysis of Wildlife Habitat Buffers in the Mississippi Black Belt**  
Philip J. Barbour, Mississippi State University;  
Steven W. Martin, Delta Research and Extension  
Center, Loren W. (Wes) Burger, Jr., Mississippi  
State University
5. **Usage Characteristics for Rural Business Websites**  
Susan Watson, Gary Kennedy, Louisiana Tech  
University; John Nwoha, University of Arkansas;  
Kenneth Rea, Louisiana Tech University
6. **Value of Factors that Drive Purchase of Flat Iron Steak**  
Erin Tucker, Susan Watson, Louisiana Tech  
University; Darren Hudson, Mississippi State  
University
7. **Certainty Equivalent Farm Returns from Bt and Non-Bt Cotton**  
Swagata "Ban" Banerjee, Steven W. Martin,  
Mississippi State University

## AGRICULTURAL ECONOMICS

8. **Water Management Strategies for Reducing Irrigation Demands in the Texas Panhandle**  
Dustin Gaskins, Stephen H. Amosson, Texas A&M University; Lal K. Almas, West Texas A&M University; DeDe Jones, Fran Bretz, Bridget Guerrero, Thomas Marek, Leon New, Texas A&M University
9. **Are Precision-Farming Technologies for Farms with Limited Resources? An Economic Decision Aid for Potential Precision Farming Technology Adopters**  
Vijay Subramaniam, David Debertin, Carl Dillon, University of Kentucky
10. **Panhandle Model Farms – Case Studies of Texas High Plains Agriculture**  
DeDe Jones, Dustin Gaskins, Texas A&M University
11. **Evaluating the Impact of Increased Fuel and Fertilizer Prices on 2006 Rice Base Planting Decisions**  
Michael E. Salassi, Brian L. Roule, LSU
12. **Quizbowl Benefits: Attitudes and Performance of Southern Region School Students at the SS-AAEA Quizbowl Competition**  
Jennie Popp, German Rodriguez, University of Arkansas
13. **Futures Hedging Strategies for Arkansas Cotton and Soybean Enterprises**  
Germán Rodríguez, Andrew McKenzie, Lucas Parsch, University of Arkansas
14. **Growing Goat Meat Industry in Selected Southern States: Profile, Issues, and Opportunities**  
Safdar Muhammad, Crystal A. Doss, Tennessee State University
15. **Value-added Marketing of Edible and Medicinal Mushroom**  
Kelli Ennis, Kenrett Y. Jefferson-Moore, North Carolina A&T State University

## AGRICULTURAL ECONOMICS

16. **Examining the Economic Trade-offs Between the Poultry and Water Recreation Industries: A Case Study in Environmental Management**  
Nathan Kemper, Jennie Popp, University of Arkansas; Dennis Robinson, University of Missouri; Wayne Miller, H.L. Goodwin, Jr., University of Arkansas; Gerald Doekson, Oklahoma State University
17. **A Trend toward Economic Accountability for Extension**  
Dean McCorkle, Dan Hanselka, Sarah McMahon, Steven Klose, David Anderson, Mark Waller, Scott Cummings, Texas A&M University; Garen Evans, Mississippi State University
18. **Using GIS Techniques to Identify Marginal Cropland: A Cotton Example**  
Kenneth W. Paxton, Huizhen Niu, LSU
19. **Maturity Group Tradeoffs in Corn Hybrid Selection: Yield Potential, Seeding Rate, Irrigation Cost and Seasonal Sale Price**  
Michael Popp, University of Arkansas; Jeffrey Edwards, Oklahoma State University; Larry Purcell, University of Arkansas
20. **The Economic Impact of the Multi-Fiber Arrangement Removal on Global Textile and Cotton Trade**  
Doris Yan Xia, Parr Rosson, Texas A&M University
21. **Marketing Opportunities for Two Ark Clam Species: Blood Ark (*Anadara ovalis*) and Ponderous Ark (*Noetia ponderosa*) Clams**  
Robert L. Degner, Kimberly L. Morgan, University of Florida
22. **Television Food Advertising and My Pyramid: Keeping Kids Healthy?**  
Anne Jones, Lisa House, Al Wysocki, University of Florida
23. **Estimation of the Economic Impact of Russian Varroa-Resistant Honey Bees**  
John V. Westra, Seon-Ae Kim, LSU
24. **An Examination of Environmental Liability Costs to Landowners**  
Gregory Ibendahl, Mississippi State University



## AGRICULTURAL ECONOMICS

25. **An Evaluation of the Potential Market for and Uses of Catfish Processing Waste**  
Aloyce R. Kaliba, Carole R. Engle, University of Arkansas at Pine Bluff
26. **An Economic Comparison of the Efficacy of Defoliation Recommendations**  
Joey E. Mehlhorn, Tim Burcham, Barbara Darroch, Richard Joost, University of Tennessee at Martin; Melissa Lowery, Southeastern Bollweevil Eradication Program
27. **Economic Contribution of Varying Agronomic Practices in South Carolina Soybean and Corn Production**  
Todd D. Davis, Charles E. Curtis, Jr., Jason K. Norsworthy, Clemson University
28. **Quality and Cost Adjusted Economic Impacts of Alternate Tillage and Production Practices in South Carolina Cotton**  
Charles E. Curtis, Jr., Todd D. Davis, Clemson University; Phillip J. Bauer, ARS-USDA; Jim Frederick, Clemson University

**Monday 8 a.m. - 5 p.m.**  
**Registration**  
**Palms Ballroom, Foyer**

**Monday 8 a.m. - 5 p.m.**  
**Quiz Bowl**  
**Palms Ballroom, Salon A**  
**Coffee Break - Oleander B 8 am - noon**

**Monday 8 a.m. - 5 p.m.**  
**Departmental Recruitment Displays**  
**Palms Ballroom, Foyer**

**Monday 8:30 a.m. - 8:45 a.m.**  
**38<sup>th</sup> Annual SAEA Meetings**  
**Opening Remarks and Welcome**  
Kimberly L. Jensen, SAEA President  
**Citrus Ballroom - Orange**

**Monday 8:45 a.m. - 9:45 a.m.**  
**Presidential Address**  
Damona Doye  
**Citrus Ballroom - Orange**

**Monday 10:15 a.m. - 12 noon**  
**Invited Papers 1**  
**Citrus Ballroom - Orange**

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## AGRICULTURAL ECONOMICS

Title: **Emerging Issues of Urban-Rural Interfaces**

1. **Public Demand for Urban Forests in Urban Sprawl.** Pengyu Zhu, Yaoqi Zhang, Auburn University
2. **The Effects of Urban Growth Boundary on Housing Price at Knox County, Tennessee.** Steven T. Yen, Seong-Hoon Cho, University of Tennessee; Zhuo Chen, University of Chicago
3. **Two Dimensions of the Spatial Distribution of Housing: Dependency and Heterogeneity across Tennessee's Six Metropolitan Statistical Areas.** Seong-Hoon Cho, Christopher D. Clark, William M. Park, University of Tennessee
4. **Wilderness and Primitive Area Recreation and Consumption: An Examination of Demographic and Spatial Factors.** J.M. Bowker, H. Ken Cordell, USDA Forest Service; John C. Bergstrom, Meghan Starbuck, Danielle Murphy, University of Georgia

**Monday 10:15 a.m. - 12 noon**  
**Invited Papers 2**  
**Madeira**

Title: **Bio-Security, Diseases, and Invasive Species: Implications of Bioterrorism for Agriculture**

1. **Bio-security and the U.S. Livestock Sector: Trading Off Prevention and Response in the Case of Foot and Mouth Disease.** V.A. McCarl, L. Elbakibze, Texas A&M University
2. **Invasive Species and Bio-security: Cost of Monitoring and Controlling Mediterranean Fruit Flies in Florida.** R. Pierre, T.H. Spreen, C.B. Moss, University of Florida.  
Discussants: Gary Becker, U.S. Dept. of Homeland Security  
John Fox, Kansas State University

**Monday, 12 noon - 1 p.m.**  
**SERA-IEG 16 Business Meeting**  
**Coquina**

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## AGRICULTURAL ECONOMICS

**Monday 1 p.m. - 2:45 p.m.**  
**Selected Papers 1**  
**Coquina**

Title: **Applications of Contemporaneous  
Econometric Methods**

Moderator: Octavio Ramirez, New Mexico State  
University

1. **Parametric and Nonparametric Evaluation of U.S. Hog Price Forecast.**  
William Wolatub, ERS-USDA; Ashagree Yigletu, Southern University and A&M; Christopher G. Davis, ERS-USDA; Sung Chul No, Southern University and A&M
2. **Legal Status and U.S. Farm Wages**  
Nobuyuki Iwai, Robert D. Emerson, Lurleen M. Walters, University of Florida
3. **Estimation of Production Functions Using Average Data**  
Matthew Salois, Grigorios Livanis, Charles B. Moss, University of Florida
4. **Economics of Management Zone Delineation in Cotton Precision Agriculture**  
Roderick M. Rejesus, Margariata Velandia, Eduardo Segarra, Kevin Bronson, Texas Tech University

**Monday 1 p.m. - 2:45 p.m.**  
**Selected Papers 2**  
**Clearwater**

Title: **BMP Adoption, Environment and Economic Performance**

Moderator: Nirmala Devkota, Louisiana State  
University

1. **Determination of BMP Adoption Effectiveness in the Louisiana Dairy Production Region**  
L. M. Hall, K. P. Paudel, W. M. Gauthier, J. W. Westra, H. Niu, LSU
2. **Are Friendly People Also Environmentally Friendly? Environmental Awareness as a Social Capital Outcome**  
Abdul B.A. Munasib, Jeffrey L. Jordan, University of Georgia

## AGRICULTURAL ECONOMICS

3. **Environmental Stewardship and Economic Performance: The Case of Corn and Soybean Farms**  
J. Fernandez-Cornejo, G. Ghosh, ERS-USDA

4. **Adoption of BMPs Under EQIP by Cattle Farmers - A Sequential Analysis**  
J. Obubuafo, J. Gillespie, K. Paudel, S. Ae Kim, LSU

**Monday 1 p.m. - 2:45 p.m.**  
**Selected Papers 3**  
**Daytona**

Title: **Surveys, Data and Probabilistic Forecasts**

Moderator: K.P. Paudel, LSU

1. **Surveys: What Does One Need to Know More about Them?**  
Harjanto Djunaidi, Middle Tennessee State University
2. **Almost Ideal Demand (AID) and Kuhn-Tucker Model in Estimation Recreation Demand**  
Rex Caffey, Nirmala Devkota, Krishna Paudel, Larry Hall, LSU
3. **Calibrating Probabilistic Forecasts**  
Paul A. Feldman, James W. Richardson, Keith D. Schumann, Steven L. Klose, Texas A&M University
4. **Choice of the Empirical Definition of Zero in the Translog Cost Functional Form**  
Yapo G. N'Guessan, Allen Featherstone, Hanas A. Cader, Kansas State University

**Monday 1 p.m. - 2:45 p.m.**  
**Selected Papers 4**  
**Paradise**

Title: **Issues in Nutrition and Produce Consumption**

Moderator: Bailey Norwood, Oklahoma State  
University

1. **Modeling Fresh Organic Produce Consumption: Evidence from Scanner Data**  
Feng Zhang, Chung L. Huang, University of Georgia; Biing-Hwan Lin, ERS-USDA

## AGRICULTURAL ECONOMICS

2. **Changing Patterns of Orange Juice Consumption in the Southern United States**  
Leigh Ann Love, James A. Sterns, Thomas H. Spreen, Allen F. Wysocki, University of Florida
3. **Derived Demand for Food Nutrients as Welfare Indicator of Biofortified Crops**  
Josyline C. Javelosa, Charles B. Moss, Andrew Schmitz, University of Florida
4. **Household Vegetable Demand in the Philippines: Is There an Urban-Rural Divide?**  
Maria Erlinda M. Mutuc, Suwen Pan, Roderick M. Rejesus, Texas Tech University

**Monday, 1 p.m. - 2:45 p.m.**  
**Organized Symposium 1**  
**Venice**

Title: **Promoting Non-Traditional Alternative Enterprises for Small Farmers**

Organizer: Safdar Muhammad, Tennessee State University

Moderator: Albert J. Allen, Mississippi State University

Presenters:

1. Surendra Singh and Enefiok Ekanem, Tennessee State University
2. Omoanghe Isikhuemhen, North Carolina A&T State University
3. Tom Tate, USDA/CSREES
4. Safdar Muhammad and Fisseha Tegegne, Tennessee State University
5. Albert Allen, Mississippi State University

**Monday, 1 p.m. - 2:45 p.m.**  
**Organized Symposium 2**  
**Madeira**

Title: **Price and Quality Differentiation: Implications for the U.S. Beef Market**

Organizers: Sayed Saghaian, University of Kentucky

Moderator: Darren Hudson, Mississippi State University

Presenters:

1. Dawn Thilmany and Wendy Umberger, Colorado State University
2. Amanda R. Ziehl, University of Tennessee
3. William Hahn and Kenneth Mathews, Jr., USDA-ERS
4. Sayed Saghaian, Michael Reed, Kenny Burdine, University of Kentucky

## AGRICULTURAL ECONOMICS

**Monday 3:15 p.m. - 5 p.m.**  
**Selected Papers 5**  
**Clearwater**

Title: **Farm Bill, Government Program and Policy**

Moderator: Xiaohui Deng, Cal State-Fresno

1. **Dynamic Analysis and Forecasts of Rough Rice Price under Government Price Support Program: An Application of Bayesian VAR**  
Sung Chul No, Southern University and A&M; Michael E. Salassi, LSU
2. **Should Farm Bill Cropping Restrictions Really Matter to Fruit and Vegetable Producers? The Case of the Rio Grande Valley, Texas**  
Roland J. Fumasi, James W. Richardson, Texas A&M University
3. **Perception of Decoupled Government Payments: Evidence from a National Survey**  
Fariz, Ahmadov, University of Georgia; Ashok Mishra, ERS-USDA; Barry Barnett, University of Georgia
4. **The Impact of Increased Planting Flexibility on Planting Decisions Across Texas**  
J. Marc Raulston, Joe L. Outlaw, James W. Richardson, George M. Knappek, Texas A&M University

**Monday 3:15 p.m. - 5 p.m.**  
**Selected Papers 6**  
**Daytona**

Title: **Analysis of Animal Production Decision**

Moderator: Robert H. Beach, Research Triangle Institute

1. **Dairy Resource Management: The Effects of Concentration and Urbanization**  
Erik O'Donoghue, Richard F. Nehring, Charles Barnard, Carmen L. Sandretto, ERS-USDA
2. **Considerations in the Dairy Relocation Decision**  
Brian K. Herbst, Joe L. Outlaw, David P. Anderson, Harry L. Bryant, Texas A&M University

## AGRICULTURAL ECONOMICS

3. **Heterogeneous Production Efficiency of Specialized Swine Producers**  
Glynn T. Tonsor, Allen M. Featherstone, Kansas State University
4. **Live Animal Ultrasound Information as a Decision Tool in Replacement Beef Heifer Programs**  
Alex Dos Santos, John D. Anderson, Rhonda C. Vann, Scott Willard, Mississippi State University

**Monday 3:15 p.m. - 5 p.m.**  
***Selected Papers 7***  
**Paradise**

Title: **Willingness to Pay**

Moderator: Harjanto Djunaidi, Middle Tennessee State University

1. **Willingness-to-Pay for Genetic Attributes in Aquaculture Industries**  
Brian C. Boever, R. Wes Harrison, Terrence R. Tiersch, LSU
2. **Heterogeneity in Producer's Marketing Strategy**  
Tong Zhang, B. Wade Brorsen, Oklahoma State University
3. **Does Biotech Regulation Affect Industrial Organization? The Case of the Global Seed Industry**  
James N. Barnes, LSU; Nicholas G. Kalaitzandonakes, University of Missouri; Harvey S. James, Jr., LSU
4. **Strategic Alliances in U.S. Branded Beef Programs**  
Steve Martinez, ERS-USDA; Roger Hanagriff, Sam Houston State University; Kevin E. Smith, ERS-USDA

**Monday 3:15 p.m. - 5 p.m.**  
***Selected Papers 8***  
**Madeira**

Title: **Issues in Farm Finance: Augmenting Household Income, Credit Quality Measurement and Loan Default Prediction**

Moderator: Erda Wang, Tarleton University

## AGRICULTURAL ECONOMICS

1. **Savings of Farm Households. Who does and How Much?**  
Ashok Mishra, ERS-USDA; Hung-Hao Chang, Cornell University
2. **Credit Quality of Kansas Farms**  
Allen M. Featherstone, Michael R. Langemeier, Kent J. Haverkamp, Kansas State University
3. **Compensating for Lower Household Income: The Case of U.S. Farm Households**  
Brian C. Briggeman, Ken Foster, Purdue University
4. **Predicting Credit Default in an Agricultural Bank: Methods and Issues**  
O. Odeh Oluwarotimi, Allen Featherstone, Sanjoy Das, Kansas State University

**Monday 3:15 p.m. - 5 p.m.**  
***Selected Papers 9***  
**Venice**

Title: **Information, Tourism, and Value Added Agriculture**

Moderator: James N. Barnes, LSU

1. **Estimating Aggregate Knowledge Flows Between US Counties**  
Daniel Monchuk, Southern Mississippi University; John Miranowski, Iowa State University
2. **Running to Stand Still: How Litigation has Emphasized Challenges Economists Face in the Absence of Data**  
Nathan Kemper, University of Arkansas; Jennie Poop, Dennis Robinson, Wayne Miller, H.L. Goodwin, Jr., University of Arkansas; Gerald Doekson, Oklahoma State University
3. **The Demand for Agritourism in the United States**  
Carlos E. Carpio, Michael K. Wohlgenant, Tullaya Boonsaeng, North Carolina State University
4. **An Empirical Analysis of County-Level Determinants of Small Business Growth and Poverty in Appalachia: A Spatial Simultaneous-Equations Approach**  
Gebremeskel H. Gebremariam, Tesfa G. Gebremedhin, West Virginia University

**AGRICULTURAL ECONOMICS**

**Monday 3:15 p.m. - 5 p.m.**  
**Organized Symposium 3**  
**Palms Ballroom, Salon H**

Title: **Lessons from the Tobacco Buyout**  
Organizers: Kelly J. Tiller, University of Tennessee  
Moderator: Thomas Capehart, USDA-ERS  
Presenters:  
1. William Snell, University of Kentucky  
2. Kelly Tiller, University of Tennessee  
3. Blake Brown, North Carolina State University  
4. Nathan Smith, University of Georgia

**Monday 3:15 p.m. - 5 p.m.**  
**Organized Symposium 4**  
**Coquina**

Title: **The WTO and its Potential Impacts on the U.S. Agricultural Policy**

Organizer: Parr Rosson and Flynn Adcock, Texas A&M University  
Moderator: P. Lynn Kennedy, LSU  
Presenters:  
1. Parr Rosson, Texas A&M University  
2. Larry Sanders, Oklahoma State University  
3. Mickey Paggi, California State University-Fresno  
4. John Robinson, Texas A&M University

**Monday 5:15 p.m. - 7 p.m.**  
**SAEA Business Meeting and Awards Program**  
**Citrus Ballrooms - Lime**

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**Tuesday 8 a.m. - 5 p.m.**  
**Registration**  
**Palms Ballroom, Foyer**

**Tuesday 10:15 a.m. - 12 noon**  
**Poster Session**  
**Palms Ballroom, Salon E**

**Tuesday 8:45 a.m. - 9:45 a.m.**  
**Keynote Speaker**  
**Dr. Bob Young, Chief Economist**  
**American Farm Bureau Federation**  
**Citrus Ballrooms – Lime**

**AGRICULTURAL ECONOMICS**

**Tuesday 10:15 a.m. - 12 noon**  
**Invited Papers 3**  
**Palms Ballroom, Salon B**

Title: **The Impact of Bio-Fuels on Southern States Agriculture**

1. **Outlook for the Bio-fuels Industry in Southern States.** Anthony Crook, USDA Rural Development
2. **Challenges to Producer Ownership of Ethanol and Bio-diesel Production Facilities.** Phil Kenkel and Rodney Holcomb, Oklahoma State University
3. **Economic Impacts of Bio-fuel Production on States and Rural Communities.** Joe Parcell and Pat Westhoff, University of Missouri
4. **The Economic Competitiveness of Bioenergy Production and Impacts on Southern Region Agriculture.** Marie Walsh, University of Tennessee

**Tuesday 10:15 a.m. - 12 noon**  
**Invited Papers 4**  
**Palms Ballroom, Salon H**

Title: **Putting Entrepreneurship into Agricultural Economics: Research and Teaching Perspectives**

1. **Returns to the Entrepreneurial Resource.** R. Brent Ross and Randy Westgren, University of Illinois, Urbana-Champaign
2. **Collective Entrepreneurship: An Emerging Phenomenon in Producer-Owned Organizations.** Michael L. Cook, University of Missouri; Brad Plunkett, Government of Western Australia
3. **Can Entrepreneurship Be Taught?** Peter G. Klein and J. Bruce Bullock, University of Missouri  
Discussant: Vincent Amanour-Boadu, Kansas State University

## AGRICULTURAL ECONOMICS

**Tuesday 10:15 a.m. - 12 noon**  
**Organized Symposium 5**  
**Lifetime Achievement Award Symposium**  
**Cocoa**

Organizer: Richard L. Kilmer, University of Florida

Moderator: Richard L. Kilmer, University of Florida

Presenters:

1. Stephen H. Amosson, Texas A&M University
2. Gerald A. Doeksen, Oklahoma State University
3. Danny A. Klinefelter, Texas A&M University
4. Thomas H. Spreen, University of Florida
5. Abner W. Womack, University of Missouri

**Tuesday 1 p.m. - 2:45 p.m.**  
**Selected Papers 10**  
**Citrus Ballrooms - Lime**

Title: **Teaching and Research Agenda**

Moderator: Joseph Mehlhorn, University of Tennessee  
at Martin

1. **Incorporation of Evolutionary Economic and Related Multidisciplinary Concepts Into a 1964 Conceptualization of a Market**  
Hector O. Zapata, Wayne M. Gauthier, LSU
2. **Authors: Quizbowl: Success in and out of the Classroom, A Five Year Study**  
Jennie Popp, German Rodriguez, University of Arkansas
3. **Do We Prepare Our Students Well for the Job Markets?**  
Tim Redd, Harjanto Djunaedi, Middle Tennessee State University
4. **Agricultural Health and Safety: A Research Agenda for Agricultural Economists**  
Robert Burton, Jr., Ross Key, Kansas State University

**Tuesday 1 p.m. - 2:45 p.m.**  
**Selected Papers 11**  
**Clearwater**

Title: **Precision Agriculture**

Moderator: Shankar Devkota, Oklahoma State University

## AGRICULTURAL ECONOMICS

1. **Field-Scale Research Experimental Designs and Spatial Econometric Methods for Precision Farming**

Terry Griffin, Raymond Florax, Jess Lowenberg-DeBoer, Purdue University

2. **Maximum Value of a Precise Nitrogen Application System for Wheat**

Jon T. Biermacher, Francis M. Epplin, B. Wade Brorsen, John B. Solie, William R. Raun, Oklahoma State University

3. **Yield Monitor Adoption and Information Use by U.S. Soybean Producers**

Stan Daberkow, Jorge Fernandez-Cornejo, ERS-USDA

**Tuesday 1 p.m. - 2:45 p.m.**  
**Selected Papers 12**  
**Cocoa**

Title: **Partial and General Equilibrium Analysis of Agricultural Commodities**

Moderator: Sung Chul No, Southern University and A&M

1. **Sensitive Product Designation in the Doha Round: The Case of Rice**  
Alvaro Durand-Morat, Eric Wailes, University of Arkansas
2. **Effect of Central American Free Trade Area (CAFTA) on U.S. Sugar Market**  
Hassan Marzoughi, P. Lynn Kennedy, LSU
3. **Cotton Trade Liberalizations and Domestic Agricultural Policy Reforms: A Partial Equilibrium Analysis**  
Suwen Pan, Samarendu Mohanty, Mohamadou Fadiga, Mark Welch, Texas Tech University

**Tuesday 1 p.m. - 2:45 p.m.**  
**Selected Papers 13**  
**Daytona**

Title: **Broiler Production and Waste**

Moderator: Sherry Larkin, University of Florida

1. **Assessing the Feasibility of Broiler Manure Transportation and Application in Crop Production under Environmental Restrictions**

K. Bhattara, K. Paudel, LSU

## AGRICULTURAL ECONOMICS

2. **Despairing over Disparities: Willingness to Pay and Willingness to Accept Differences among Broiler Producers in Louisiana**  
Y. Qin, K.P. Paudel, LSU
3. **How Much Is Poultry Litter Worth?**  
R.I. Carreira, H.L. Goodwin, S.J. Hamm, University of Arkansas
4. **Adoption of Best Management Practices among Poultry Producers in Louisiana**  
K.P. Paudel, Y. Qin, T. Lavargne, K. Wegenhoft, LSU

**Tuesday 1 p.m. - 2:45 p.m.**  
***Selected Papers 14***  
**Paradise**

Title: **Farm Level Agronomic Analysis**

Moderator: Philip R. Eberle, Southern Illinois Univ

1. **Herbicide Application Rates, Risk Premiums and Environmental Implications**  
Ray Massey, University of Missouri
2. **Application of Weather-Based Risk Models for Agricultural Risk Management in Developing Countries**  
Oscar Vergara, Gerhard Zuba, Tim Doggett, Air Worldwide Corporation
3. **Adoption of Conservation Tillage Methods and Genetically Modified Cotton**  
Roland K. Roberts, Burton C. English, Qi Gao, James A. Larson, University of Tennessee
4. **A Farm-Level Approach to the Methyl Bromide Phase-out: Identifying Alternatives and Maximizing Net Worth Using Stochastic Dominance and Optimization Procedures**  
Mark M. Boyd, Cesar L. Escalante, Michael E. Wetzstein, Esendugue G. Fonsah, University of Georgia

**Tuesday 1 p.m. - 2:45 p.m.**  
***Selected Papers 15***  
**Venice**

Title: **International Agricultural, Trade Analysis and Competitive Advanrage**

Moderator: Harjanto Djunaidi, Middle Tennessee State University

## AGRICULTURAL ECONOMICS

1. **Biotechnology and Economic Development: The Benefits of MSV Tolerant Maize in Kenya**  
Monica Lopez Andreu, David Norman, Orlen Grunewald, Kansas State University
2. **Economic Impacts of Restricted Animal Movements Due to Enhance Mexican Regional Bovine Health Criteria**  
Megan E. Cunningham, Derrell S. Peel, Oklahoma State University
3. **Technological Leapfrogging as a Source of Competitive Advantage in Global Produce Industries**  
Thom Wright, Suzanne Thornsbury, Lourdes Martinez, Michigan State University
4. **Sanitary and Phytosanitary Measures: A Game Theoretic Model of Comparative Evaluation**  
Nandini Banerjee, P. Lynn Kennedy, LSU

**Tuesday 1 p.m. - 2:45 p.m.**  
***Selected Papers 16***  
**Palms Ballroom, Salon H**

Title: **Government Policy Effectiveness and Its Impact**

Moderator: Albert Allen, Mississippi State University

1. **Participatory Integrated Watershed Management for Sustainable Rural Livelihoods in Developing Countries**  
Yoganand Budumuru, West Virginia University
2. **An Alternative Model for Analyzing the Physician-Hospital Relationship in Rural Areas**  
Matthew J. Fannin, James N. Barnes, LSU
3. **An Empirical Analysis of Food Assistance Participation Program in West Virginia**  
Ahadu T. Tekle, Tesfa G. Gebremedhin, West Virginia University
4. **Analyzing Arkansas's Economic Growth: Need for Effective Rural Development Policies**  
Biswaranjan Das, Daniel V. Rainey, University of Arkansas

## AGRICULTURAL ECONOMICS

**Tuesday 1 p.m. - 2:45 p.m.**  
***Selected Papers 17***  
**Coquina**

Title: **Weather, Land Value and Conjoint Analysis**  
Moderator: Roger A. Hinson, LSU

1. **Predicting Weather-Caused Crop Yield Losses In Kansas**  
Erda Wang, Jimmy R. Williams, Bertis B. Little, Bill B. Golden, Tarleton University
2. **Choice-Based Conjoint Experiment with Genetically Engineered Cotton in the Mississippi Delta**  
Swagata "Ban" Banerjee, Steven W. Martin, Darren Hudson, Mississippi State University
3. **Causes, Trends, and Impacts of Land Conversion: A Study of Urbanization in North Alabama**  
Maribel Mojica and James O. Bukenya, Alabama A&M University
4. **House and Landscape Value: An Application of Hedonic Pricing Technique Investigating Effects of Lawn Area on House Selling Price**  
Madison Coley, Wojciech J. Florkowski, University of Georgia; Michael Bowker, U.S. Forest Service

**Tuesday 1 p.m. - 2:45 p.m.**  
***Organized Symposium 6***  
**Palms Ballroom, Salon B**

Title: **Estimating Economic Losses Incurred by Agriculture from Natural Disasters**

Organizers: John Anderson, C.W. "Bill" Herndon, and Gregory Ibendahl, Mississippi State University  
Moderator: C.W. "Bill" Herndon, Mississippi State University

Presenters:

1. John Anderson, Mississippi State University
2. Kurt M. Guidry, Louisiana State University
3. Gregory Ibendahl, Mississippi State University
4. James L. Novak, Auburn University

**Tuesday 1 p.m. - 2:45 p.m.**  
***Organized Symposium 7***  
**Citrus Ballroom - Lemon**

## AGRICULTURAL ECONOMICS

Title: **The Economic Impact of CAFTA-DR on Southern Agriculture**

Organizer: Flynn Adcock and Parr Rosson, Texas A&M University  
Moderator: Stanley M. Fletcher, University of Georgia  
Presenters:

1. Sarah McMahon, Parr Rosson, and Flynn Adcock, Texas A&M University
2. Jaime Malaga, Texas Tech University
3. P. Lynn Kennedy, Louisiana State University

**Tuesday 3:15 p.m. - 5 p.m.**  
***Selected Papers 18***  
**Daytona**

Title: **Market Structure Analysis Across Countries**  
Moderator: P. Lynn Kennedy, Louisiana State University

1. **Who Dominates Market Power for U.S.- China Soybean Trade?**  
Baohui Song, Mary A. Marchant, Shuang Xu, University of Kentucky
2. **Testing for Market Integration and the Law of One Price in World Shrimp Markets**  
Ferdinand D. Vinuya, Clemson
3. **Monopsony Power and EU Fish Imports: Implications for Ugandan Exports of Fresh and Chilled Fish Fillet**  
Andrew Muhammad, Southern University and A&M
4. **The International Location of Pork Production**  
Hongsin Park, Ozgur Kaya, Lewell Gunter, University of Georgia

**Tuesday 3:15 p.m. - 5 p.m.**  
***Selected Papers 19***  
**Paradise**

Title: **Environmental Valuation and Policy**  
Moderator: J. Fernandez-Cornejo, ERS-USDA

1. **Impact of Forestry-Related Ordinances on Timber Harvesting in St. Tammany Parish**  
J.E. Henderson, T.M. Willson, M.A. Dunn, R.F. Kazmierczak, Jr., LSU



## AGRICULTURAL ECONOMICS

2. **The Impacts of Alternative Institutions on Distributional and Environmental Efficiency in Environmental Programs**  
V. Buller, D. Hudson, Mississippi State University
3. **Use of Bootstrap Method to Obtain Reliable Parameter Estimations on a Travel Cost Demand Model**  
N. Devkota, K.P. Paudel, R.H. Caffey, L. Hall, LSU
4. **A Double-Hurdle Model of Preferences for a Proposed Capacity Reduction Program in the Atlantic Shark Fishery**  
Jessica Musengezi, Fred Rossi, Sherry Larkin, University of Florida

**Tuesday 3:15 p.m. - 5 p.m.**  
***Selected Papers 20***  
**Venice**

Title: **Food Safety and Quality**

Moderator: Jayson L. Lusk, Oklahoma State University

1. **Influence of Risk/Benefit Perceptions on Willingness-to-Pay (WTP) for Genetically Modified (GM) Foods**  
Jae-Hwan Han, R. Wes Harrison, LSU
2. **Household Perceptions of the Quality of Drinking Water in Uganda**  
James O. Bukenya, Alabama A&M University
3. **Economic Impacts of Red Tide on Restaurant Sales**  
Kimberly L. Morgan, Sherry L. Larkin, University of Florida
4. **The Economics of Eating Fresh Fruits and Vegetables: Recognizing Discernible Patterns for Obesity Differences among Lower- and Higher-Income Consumers**  
Eugene Jones, Ohio State University

**Tuesday 3:15 p.m. - 5 p.m.**  
***Selected Papers 21***  
**Palms Ballroom, Salon H**

Title: **Crop Insurance, Farm Workers and Farm Size**

Moderator: Lucas D. Parch, The Univ of Arkansas

## AGRICULTURAL ECONOMICS

1. **Crop Insurance Adoption: Evaluating Yield Insurance Options Based on Sparse Data and Attitudes Toward Risk**  
Keith D. Schumann, James W. Richardson, Texas A&M University
2. **Testing the Efficiency of an Alternative Crop Index Insurance Product Based on an Agronomy Simulation Model**  
Xiaohui Deng, California State University-Fresno; Barry J. Barnett, Yingzhuo Yu, Axel Garcia, Gerrit Hoogenboom, University of Georgia
3. **The U.S. Farm Labor Market Post-IRCA: An Assessment of Farm Worker Earnings, Employment Patterns and Legal Status**  
Lurleen M. Walters, Orachos Napisintuwong, Nobuyuki Iwai, Robert D. Emerson, University of Florida
4. **Evaluating Differences in the Rate of Return on Assets Across Farm Size and Commodities**  
George M. Knapek, J. Marc Raulston, Joe L. Outlaw, James W. Richardson, David P. Anderson, James D. Sartwelle, III, Texas A&M University

**Tuesday 3:15 p.m. - 5 p.m.**  
***Selected Papers 22***  
**Coquina**

Title: **Competitive Advantage, Marketing Strategies and Economic Analysis**

Moderator: Kim Anderson, Oklahoma State University

1. **The "Phantom Costs" of Florida's Citrus Industry**  
Ronald P. Muraro, Fritz M. Rika, Thomas H. Spreen, University of Florida
2. **The Viability of a Farmer-Owned Crop Insurance Investment Account**  
Delton C. Gerloff, University of Tennessee
3. **Evaluation of Alternative Beef Cow Marketing Strategies**  
Curt R. Lacy, University of Georgia
4. **Economic Analysis and Impact of Sod Production in Texas**  
Lawrence L. Falconer, Sarah McMahon, Texas A&M University

## AGRICULTURAL ECONOMICS

Tuesday 3:15 p.m. - 5 p.m.  
*Selected Papers 23*  
Palms Ballroom, Salon B

Title: **Farm Production Efficiency**

Moderator: Stan Spurlock, Mississippi State University

1. **Risk Efficient Strategies for Using Winter Wheat Pasture**  
Karen W. Taylor, Francis M. Epplin, Oklahoma State University
2. **Economically Feasible Crop Production Alternatives to Peanuts in Southwestern Oklahoma**  
Shankar Devkota, Rodney Holcomb, Merritt Taylor, Francis Epplin, Oklahoma State University
3. **Optimal Irrigation Schedules and Estimation of Corn Yield under Varying Well Capacities and Soil Moisture Levels in Western Kansas**  
Sreedhar Upendram, Jeffrey Peterson, Kansas State University
4. **Sources of Farm Inefficiency in Kansas Farms**  
Orlen Grunewald, Monica Lopez Andreu, Kansas State University

Tuesday 3:15 p.m. - 5 p.m.  
*Selected Papers 24*  
Cocoa

Title: **Policy Analysis and Current Issues**

Moderator: James A. Larson, The Univ of Tennessee

1. **How Will Tobacco Farmers Respond to the Quota Buyout? Findings from a Survey of North Carolina Tobacco Farmers**  
Robert H. Beach, Research Triangle Institute; David Richmond, Wake Forest University; W. David Austin, Research Triangle Institute; Alison Snow Jones, Wake Forest University
2. **Urban Influence on Costs of Production in Selected Regions: A Frontier Approach**  
Richard Nehring, David Banker, Vince Breneman, ERS-USDA
3. **Who is Willing to Pay to Keep Livestock Production Away?**  
Philip R. Eberle, C. Matthew Rendleman, William C. Peterson, Southern Illinois University

## AGRICULTURAL ECONOMICS

4. **Economic Optimization of Groundwater Resources in the Texas Panhandle**  
Lal K. Almas, W. Arden Colette, Seong C. Park, West Texas A&M University

Tuesday 3:15 p.m. - 5 p.m.  
*Selected Papers 25*  
Clearwater

Title: **Agribusiness, Food Security and Rural Community**

Moderator: Dan Rainey, The University of Arkansas

1. **Innovation and Entrepreneurship in Rural Communities: Early Business Survival Challenges for the Agribusiness Entrepreneur**  
Cesar L. Escalante, University of Georgia; Calum G. Turvey, Cornell University
2. **An Analysis of the Relationship between Demographics and Food Security**  
Jermisha Johnson, Gerald Whelelock, Alabama A&M University
3. **Measuring the Impacts of Small Farms and Community Development Linkages in Selected Rural Counties**  
Albert Myles, Albert Allen, Mississippi State University
4. **Repayment Capacity among Smallholders Fish Farmers in Kenya**  
Aloyce R. Kaliba, University of Arkansas at Pine Bluff

Tuesday 3:15 p.m. - 5 p.m.  
*Selected Papers 26*  
Citrus Ballroom - Lemon

Title: **Market Structure and Access in the Wine, Produce and Livestock Industries**

Moderator: Y. Kunimitsu, National Institute for Rural Engineering, Tsukuba, Japan

1. **Switching of Wine Juice Production Methods: An Application to the Indiana Wine Market**  
Whitney Oliver Peake, Brian C. Briggeman, Purdue University

## AGRICULTURAL ECONOMICS

2. **Industry Concentration Impacts on Business Strategies Used by Small Produce Wholesalers**  
Roger A. Hinson, LSU; Ramona Sihoha, Dixie Watts Reaves, Virginia Polytechnic Institute and State University
3. **Modeling Live-Cattle Supply with Spot and Futures Prices**  
James E. Epperson, Zhang Fen, Jack E. Houston, University of Georgia
4. **Meat Processing in North America: Successes, Failures and Opportunities**  
Derek Brewin, Vahid Omidvar, University of Manitoba

**Tuesday 5 p.m. - 7 p.m.**  
**JAAE Editorial Council Meeting**  
**Executive Boardroom**

**Tuesday 7 p.m. - 9 p.m.**  
**SAEA Reception**  
**TGI Friday**  
**Orlando, 8120 International Drive**  
**(across from Wyndham Hotel)**

**Wednesday 8 a.m. - 10 a.m.**  
**Registration**  
**Palsm Ballroom, Foyer**

**Wednesday 8 a.m. - 9:45 a.m.**  
**Selected Papers 27**  
**Daytona**

Title: **Market Planning and Analysis**  
Moderator: Steve Martinez, ERS-USDA

1. **Planning an Expansion of Blueberry Production by Southern Growers**  
Wojciech J. Florkowski, University of Georgia; Abdulbaki Bilgic, Harran University
2. **Price Transparency in the Voluntary Price Reporting System for Live Cattle: Theory and Empirical Evidence**  
Scott W. Fausti, Matt Diersen, Bashir Qasmi, South Dakota State University

## AGRICULTURAL ECONOMICS

3. **Long-Term Valuation of Value Added Products: A Product Life-Cycle Approach**  
Haluk Gedikoglu, Joe L. Parcell, David J. Patterson, Richard Randle, Jim Kimbrough, University of Missouri
4. **A Niche Market for Sweet Potatoes – Specialty Packs to the United Kingdom**  
Roger A. Hinson, LSU

**Wednesday 8 a.m. - 9:45 a.m.**  
**Selected Papers 28**  
**Paradise**

Title: **Agricultural Prices**  
Moderator: Stan Daberkow, ERS-USDA

1. **Relationship Between Inflation for Prices Paid on Prices Received by Farmers**  
Jody L. Campiche, Henry L. Bryant, James W. Richardson, Joe L. Outlaw, Texas A&M University
2. **Impact of Fuel Price Increases on Texas Crops**  
Chris R. Eggerman, James W. Richardson, Joe L. Outlaw, Texas A&M University
3. **Geographic and Seasonal Differences in the Effectiveness of Feeder Cattle Hedging**  
William K. Brake, John D. Anderson, Brian K. Coffey, Mississippi State University
4. **Comparing the Risks and Returns of Alternative Price Risk Management Strategies for Southeastern Feeder Cattle Production**  
Matias G. Nardi, Todd D. Davis, Clemson; Curt Lacy, University of Georgia; Walter Prevatt, Auburn; Timothy D. Hewitt, University of Florida

**Wednesday 8 a.m. - 9:45 a.m.**  
**Selected Papers 29**  
**Venice**

Title: **Forestry: Climatic Effects and Carbon Sequestration**  
Moderator: Brandon David, Mississippi State University

1. **The Optimal Single Forest Rotation under Climatic Fluctuation Effect**  
H. Jia, University of Kentucky

## AGRICULTURAL ECONOMICS

2. **Analysis of Potential Carbon Sequestration and Revenue from Timber and Carbon Credits for Landowners of Abandoned Mine Lands**  
C. Bouquot, M. Sperow, West Virginia University
3. **A Risk Analysis of Carbon Sequestration in Claypan Soil**  
J.R. Williams, D.L. Pendell, D.W. Sweeney,  
Kansas State University

**Wednesday 8 a.m. - 9:45 a.m.**  
***Selected Papers 30***  
**Palms Ballroom, Salon H**

Title: **Livestock Economics**

Moderator: James Trapp, Oklahoma State University

1. **Factors Influencing the Adoption of Russian Varroa-Resistant Honey Bees**  
Seon-Ae Kim, John V. Westra, Jeffrey M. Gillespie, LSU
2. **Financial Impacts of Regional Differences in Beef Cattle Operations**  
James. D. Sartwelle III, Joe L. Outlaw, James W. Richardson, Texas A&M University
3. **Economic Returns to Different Stocking Rates for Cattle on Ryegrass under Contract Grazing and Traditional Ownership**  
Jose-Luis Zaragoza-Ramire, Chapingo University, Texcoco; David Bransby, Patricia A. Duffy, Auburn
4. **Willingness to Accept Payment to Participate in Dairy Programs to Reduce Manure Related Problems in Louisiana's Major Dairy Production Region**  
Wayne M. Gauthier, Krishna P. Paudel, Larry M. Hall, John V. Westra, LSU

**Wednesday 8 a.m. - 9:45 a.m.**  
***Selected Papers 31***  
**Coquina**

Title: **Ethanol, Economic and Cost Analysis**

Moderator: K.P. Paudel, LSU

1. **Ethanol Pricing: Explanations and Interrelationships**  
L.M. Higgins, H.L. Bryant, J.L. Outlaw, J.W. Richardson, Texas A&M University

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## AGRICULTURAL ECONOMICS

2. **Macro Economic Impacts of Installing Rice Husk Electricity Power Plants in Thailand**  
Y. Kunimitsu, National Institute for Rural Engineering, Tskuba City
3. **Economic Analysis of Solid-Set Sprinklers to Control Dust in Feedlots**  
S.H. Amosson, B. Guerrero, L.K. Almas, Texas A&M University
4. **Engineering Cost Analysis of a Dairy Anaerobic Digestive System: A Real Option Approach**  
Brandon Davis, Mississippi State University

**Wednesday 8 a.m. - 9:45 a.m.**  
***Selected Papers 32***  
**Palms Ballroom, Salon B**

Title: **Fuel, Transportation Efficiency and Agribusiness**

Moderator: Joe Outlaw, Texas A&M University

1. **Impact of Entry and Exit on Agribusiness-Trucking Industry Efficiency: A Panel Stochastic Frontier Analysis**  
Albert Allen, Saleem Shaik, Mississippi State University
2. **Impact of September 11, 2001 on the Profitability Performance of the U.S. Trucking Industry**  
Safdar Muhammad, Albert Allen, Saleem Shaik, Mississippi State University
3. **The Effect of Ethanol Production on Agricultural Production in the State of Alabama**  
Ellene Kebede, Tuskegee Institute; Patricia A. Duffy, Auburn; Robert Zabawa, Tuskegee Institute

**Wednesday 8 a.m. - 9:45 a.m.**  
***Selected Papers 33***  
**Citrus Ballrooms - Lemon**

Title: **Farm Programs and Current Issues**

Moderator: Francis Epplin, Oklahoma State University

1. **Farm Programs and Agriculture Land Value: Case of Southern Agriculture**  
Saleem Shaik, Mississippi State University

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## AGRICULTURAL ECONOMICS

2. **Will the Mississippi and Louisiana Dairy Industry Survive Hurricane Katrina?**  
Cary Herndon, Mississippi State University
3. **Economic Impacts of the Green Industry in the United States**  
Charles R. Hall, Alan W. Hodges, John J. Haydu, University of Tennessee
4. **An Optimization Model for Winery Capacity Use**  
Kolympiris Christos, University of Missouri; Michael R. Thomsen and Justin R. Morris, University of Arkansas

**Wednesday 8 a.m. - 9:15 a.m.**  
***Selected Papers 34***  
**Citrus Ballrooms - Lime**

Title: **Issues in Meat Demand**

Moderator: B. Wade Brorsen., Oklahoma State University

1. **A Dynamic Approach to Estimate Theoretically Consistent US Meat Demand System**  
Sulgham Anil, Hector O. Zapata, LSU
2. **Consumer Demand for a Ban on Antibiotic Drug Use in Pork Production**  
Jayson L. Lusk, Bailey Norwood, Ross Pruitt, Oklahoma State University
3. **Testing Separability Between Import and Domestic Commodities: Application to U.S. Meat Demand in a Dynamic Model**  
Tullaya Boonsaeng, Michael K. Wohlgenant, North Carolina State University
4. **Value Added to the Beef Cattle Chain Through Genetic Management**  
J. Robertson, J. Parcell, D. Patterson, R. Plain, University of Missouri

**Wednesday 8 a.m. - 9:15 a.m.**  
***Selected papers 35***  
**Cocoa**

Title: **Water Quality, Use, and Policy**

Moderator: Harjanto Djunaidi, Middle Tennessee State University

## AGRICULTURAL ECONOMICS

1. **Cost-Effectiveness of Alternative Environmental Policies for Reducing Non-Point Source Pollution in Public Water Supplies**  
E.B. Mafoua-Koukebene, State University of New York; R.H. Hornbaker, University of Illinois
2. **Water Policy Alternatives for the Southern Ogallala Aquifer**  
E. Wheeler, E. Segarra, P. Johnson, D. Willis, J. Johnson, Texas Tech University
3. **Effect of Water Price on the Multicrop Production Decision: Applying Fixed Allocatable Input Model in Georgia**  
Y. Yu, J. Mullen, G. Hoogenboom, University of Georgia
4. **Combating the Crisis: Managing Watersheds for Economic Profit and Environmental Quality Improvement**  
G. Rodriguez, J. Popp, University of Arkansas

**Southern Region Conference of the  
American Association for  
AGRICULTURAL EDUCATION**

**Hosted by  
The Tennessee Agricultural Education Programs**

**February 4-8, 2006 – Orlando, Florida  
The Wyndham Orlando Resort**

**Southern Region  
Agricultural Education Division officers**

President and Conference Chair:  
Randol Waters, University of Tennessee  
Research Meeting Chair:  
Carrie Fritz, University of Tennessee  
Vice-President:  
Tom Dobbins, Clemson University  
Secretary:  
Antoine Alston, North Carolina A & T University

**Southern Region  
American Association for  
Agricultural Education (AAAE) Officers**

Vice-President:  
James Smith, Texas Tech University  
Alternate Vice-President:  
Adam Kantrovich, Morehead State University  
Secretary:  
Randol Waters, University of Tennessee

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**Saturday, February 4**

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**4:00 – 7:00 p.m. - Registration**

Tennessee Agricultural Education  
Hotel Lobby

**7:00 p.m. - SIG Roundtables**

Lime

**Special Interest Group Roundtable Discussions**

Chair: Kirk Swortzel  
Facilitators:  
Shannon Washburn, Carrie Fritz, and John Ricketts

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**Sunday, February 5**

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**8:00 a.m. - Registration –**

Tennessee Agricultural Education  
Palms Ballroom Foyer

**AGRICULTURAL EDUCATION**

**9:00 a.m. - Joint Agricultural Education and  
Agricultural Communications Vespers Service**  
Palms Ballroom Salon G

**10:00 a.m. - Opening Session**

Palms Ballroom Salon G  
Presiding: Randol Waters and Carrie Fritz,  
University of Tennessee  
Remarks: James Smith, Southern Region Vice-  
President, AAAE; and Tom Dobbins, SAAS Division  
Vice-President (Outstanding Paper Selection)  
Facilitators: Gary Wingenbach, Texas A&M University;  
Rick Rudd, University of Florida; and Robin Peiter,  
University of Kentucky

**10:30 a.m. - Concurrent Research Session I**

**Session A: Technology and Distance Education**

Palms Ballroom Salon G  
Chair: Robin Horstmeier, University of Kentucky  
Discussant: Kim Dooley, Texas A&M University  
Facilitator: Ann DeLay, University of Florida

1. Impacts of an audience response system on student achievement in high school agriscience classes- *John Conoley, East Carolina University; Barry Croom, Gary Moore, and James L. Flowers, North Carolina State University*
2. Determining the effects of computer-animated instruction upon cognition of high school students- *Don Edgar, Texas A&M University*
3. Instructor perceptions of communication in on-line courses- *Rusty Miller & Ryan G. Anderson, Virginia Tech*
4. Sources for learning about information technology careers and personal influences on the use of information technologies: A longitudinal study- *Kirk Swortzel, Jacquelyn P. Deeds, and Walter N. Taylor, Mississippi State University*

**Session B: - Program and Professional  
Development**

Tangerine B  
Chair: Scott Burris, Texas Tech University  
Discussant: Matt Baker, Texas Tech University  
Facilitator: Wendy Warner, University of Florida

## AGRICULTURAL EDUCATION

1. Inservice delivery: Methods preferred by Georgia agriculture teachers- *John Uessler, John C. Ricketts, Dennis W. Duncan, and Jason B. Peake, University of Georgia*
2. Inservice needs of beginning agriculture teachers- *James Dyer and Shannon G. Washburn, University of Florida*
3. Total program efficacy: A comparison of traditionally and alternative certified agriculture teachers- *Dennis Duncan and John C. Ricketts, University of Georgia*
4. Research capacity in agricultural education- *Ed Osborne and Brian E. Myers, University of Florida*

### Session C: - Teacher Education

Palms Ballroom Salon H  
Chair: Craig Edwards, Oklahoma State University  
Discussant: Grady Roberts, Texas A&M University  
Facilitator: Nick Fuhrman, University of Florida

1. A case study of women's experiences in secondary agricultural education: Overcoming sexism with self-*Kathleen Kelsey, Oklahoma State University*
2. Have high school agricultural education teachers adjusted to block scheduling?- *Elizabeth Wilson, Sarah Looney, and Kristin Stair, North Carolina State University*
3. Female agriculture educators in Georgia- *John C. Ricketts, University of Georgia; Rhonda Stone, Coffee County High School; Elaine Adams, University of Georgia*
4. Walk the talk: Factors related to the motivation of teachers to conduct the SAE component of the high school agricultural education program- *Elizabeth Wilson and Gary Moore, North Carolina State University*

### 12:00 p.m. – Graduate Student Luncheon

Lemon  
Graduate Students and Invited Guests  
Chair: Carrie Fritz

### Lunch for Remainder of Membership (On Your Own)

## AGRICULTURAL EDUCATION

### 1:15 p.m. - AAEA Regional Committee Meetings

#### Professional Development Committee

Palms Ballroom Salon G  
Chair: Kirk Swortzel (5/06)  
Members: Shannon Washburn (5/06); Carrie Fritz (5/07)  
and John Ricketts (5/07)

#### Program Improvement Committee\*

Tangerine B  
Chair: Robin Peiter (5/06)  
Members: Jim Leising (5/06), Dennis Duncan (5/07)  
and Chanda Elbert (5/07)

#### Research Committee\*

Palms Ballroom Salon H  
Chair: Todd Bashears (5/07)  
Members: Craig Edwards (5/06), Jim Dyer (5/06), and  
Barry Boyd (5/07)

#### Member Services Committee\*

Coquina  
Chair: Dwayne Cartmell (5/06)  
Members: Adam Kantrobich (5/06), Jerry Gibson (5/07)  
Kim Dooley (5/07), and Tracy Rutherford (5/07)

#### Resolutions Committee

Meet in Hotel Room  
Chair: (Not a Standing Committee. Appointed at  
conference by Regional VP)

### 2:00 p.m. - SAAS Board of Directors Meeting

Executive Board Room  
(Randol Waters, Tom Dobbins, Antoine Alston,  
and Joe Kotrlik)

### 2:30 p.m. - Break

Palms Ballroom Salon E

### 2:30 p.m. – Research and Innovative Ideas Posters

Palms Ballroom Salon E  
Sessions Running Concurrently  
Chair: Robin Peiter

#### Research Posters

An Assessment of Females in Agriculture Science:  
An FFA Perspective -  
*CherRhonda M. Hollins, Chanda D. Elbert & Alvin  
Larke, Jr., Texas A&M University*

## AGRICULTURAL EDUCATION

### Research Posters (continued):

A Determination of Kentucky's Teacher Demand in Secondary Agricultural Education - *Kate Woglom, Jay Morgan & Brian Parr, Murray State University; Robin Peiter Horstmeier & Tracy Kitchel, University of Kentucky; Adam Kantrovich, Morehead State University; David Coffey, Western Kentucky University*

Industry Perceptions of The Effectiveness of Microwaves for Post-Harvest Food Safety in Eggs - *Lacey Quebe, Todd Brashears, Christine Alvarado & Mindy Brashears, Texas Tech University*

Gender Differences in Addressing Critical Needs of The Texas Agricultural Leadership Curriculum - *Stacy Stockard, Todd Brashears & Steve Frazee, Texas Tech University*

Career Interest in Agriculture of the 2004 Class of The Virginia Governor's School for Agriculture - *Ryan Anderson & John Cannon, Virginia Polytechnic Institute & State University*

Authorship in the Journal of Agricultural Education From 1996 To 2005 - *Amy Harder & T. Grady Roberts, Texas A&M University*

Front-Line Disaster Responders: The Needs of Florida's County Extension Professionals - *Mark J. Kistler, Nick T. Place, Tracy A. Irani & Ricky W. Telg, University of Florida*

Maximizing Students Quality of Life by Utilizing Career Development Events - *John H. (Rusty) Miller, Andy Seibel & Ryan Anderson, Virginia Polytechnic Institute & State University*

Using the NSF GK-12 Program Model to Increase Technological Competencies of Agriscience Teachers - *Diana L. Mowen, Shannon H. Degenhart, Julie F. Harlin, James R. Lindner, Gary J. Wingenbach & Larry Johnson, Texas A&M University*

There is No Need to Fret; It is Safe to Pet! Understanding Public Knowledge of Petting Zoo Safety - *Moriah Jennings, John Rayfield, Janice Boyce, Scott Burris, Todd Brashears & Mindy Brashears, Texas Tech University*

## AGRICULTURAL EDUCATION

### Research Posters (continued):

Processes To Develop an Agricultural Science Curriculum at Messiah Theological Institute at Mbale, Uganda - *Thomas Kipkurgat, John Kessell, David Lawver, Matt Baker & Sussie Bullock, Texas Tech University*

Help!! I Can't Do It All - *Marshall Swafford, G. Andrew Seibel & Thomas W. Broyles, Virginia Polytechnic Institute & State University*

Agricultural Education Teachers Cannot Be an Army of One - *Marshall Swafford, G. Andrew Seibel & Thomas W. Broyles, Virginia Polytechnic Institute & State University*

Pre-Service Agriculture Teachers' Sense of Teacher Efficacy at Two Large Universities - *Christopher Stripling & John C. Ricketts, University of Georgia; Grady Roberts, Texas A&M University*

Is Equine Science A Valuable Context For Supporting The Science Learning of Secondary Students? A Curriculum Review - *Craig Edwards & Jake Walker, Oklahoma State University*

The Beef Baccalaureate - *Karin Fritz, Todd Brashears & Scott Burris, Texas Tech University*

The Value of Self Reflection Through The Use of DVD Recording - *Elizabeth Wilson & Joy E. Wilson, North Carolina State University*

Using High School Academic Variables to Predict GSP Test Scores of Entering Agricultural Communications Students - *Lindsay West, Kim Cooper & Chad Davis, Texas Tech University*

### Innovative Ideas Posters

Recruitment and Retention of Students of Color In The College of Agriculture - *D. Harris, C. Elbert & M. Piña, Texas A&M University*

Bridging the Gap: Providing Contextual Mathematical Instruction to Post-Secondary Agriculture Majors - *Brian Parr & Jay Morgan, Murray State University*

Joining the Ranks: Rank I Certification In Administration With Career And Technical Education - *Christina Bowles, Julie Murphy, Robin Peiter Horstmeier & Tracy Kitchel, University of Kentucky*



## AGRICULTURAL EDUCATION

### Innovative Ideas Posters (continued):

Building Partnerships To Better Prepare Students For Student Teaching And Service as Agricultural Science Teachers - *Diana L. Mowen, Gary E. Briers, Julie F. Harlin, T. Grady Roberts & Alvin Larke Jr., Texas A&M University*

Alternative Teacher Certification Program - *Katy Groseta, Brian E. Myers, James E. Dyer & Shannon G. Washburn, University of Florida*

Ag Mechanics Institute – Agricultural Structures Module: Nailing Down Experiential and Cooperative Learning - *R. Brent Young & Jon W. Ramsey, Oklahoma State University*

The Rise And Fall of Tobacco In A Small Community: Implementing A Cross-Curricular Student Research Agenda - *K. Dale Layfield, Karen C. Hall & Barbara J. Speziale, Clemson University; Patricia M. Chandler, Florence County School District #3*

Greenhouse Management For Teachers: A Contextual Teaching Methods Course - *John C. Ricketts, Dennis Duncan & Paul Thomas, University of Georgia; Teri Hamlin, Georgia Department of Education*

Student Networking: A Fundamental Ingredient of Program Success - *René P. Miller & Leslie D. Jenkins-Mckendrick, Texas A&M University/Texas Tech University; Theresa Pesi Murphrey, Texas A&M University*

A Compact Precision Agriculture Sprayer For Use In University And Extension Educational Programs: *Aaron Dickinson, Donald M. Johnson & George W. Wardlow, University of Arkansas*

Teacher For A Day: Student Recruitment With A Different Twist - *Kirk A. Swortzel, Jacquelyn P. Deeds & Walter N. Taylor, Mississippi State University*

The Value of Water: Educational Programming to Maximize Profitability and Decrease Water Consumption - *Matt Norton, Pamela Miller & David Doerfert, Texas Tech University*

## AGRICULTURAL EDUCATION

### **4:00 p.m. - SAAS General Session**

Orange and Lemon  
“The Future of Animal Agriculture in North America”

### **6:30 - 8:30 p.m. - SAAS Reception**

East Pool Pavilion

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### **Monday, February 6**

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### **7:30 a.m. - Registration**

Tennessee Agricultural Education  
Palms Ballroom Foyer

### **8:30 a.m. - Concurrent Research Session II**

#### **Session D: - Student Teaching**

Tangerine B  
Chair: Penny Haase-Witler, Southern Arkansas University  
Discussant: Jim Dyer, University of Florida  
Facilitator: David Jones, University of Florida

1. Important elements of the student teaching experience in agricultural education: A comparison of cooperating teachers' and student teachers' perceptions- *Brent Young and M. Craig Edwards, Oklahoma State University*

2. Changes in student teacher perceptions of the student teacher-cooperating teacher relationship throughout the student teaching semester- *Holly Kasperbauer and T. Grady Roberts, Texas A&M University*

3. The influence of the relationship between the student teacher and cooperating teacher on the student teacher's decision to enter teaching- *Holly Kasperbauer and T. Grady Roberts, Texas A&M University*

4. Gender differences in student teacher-cooperating teacher interaction- *Tracy Kitchel, University of Kentucky*

#### **Session E: Extension Programs and Personnel**

Palms Ballroom Salon H  
Chair: Dennis Duncan, University of Georgia  
Discussant: Ed Osborne, University of Florida  
Facilitator: Ryan Anderson, Virginia Tech

## AGRICULTURAL EDUCATION

1. Leadership expectations of county Farm Bureau board members- *Hannah Carter and Rick D. Rudd, University of Florida*
2. Social barriers perceived by women small-scale agricultural producers- *Jefferson Miller, Elizabeth J. Maeda, and George W. Wardlow, University of Arkansas*
3. Factors influencing public school administrators'-*William Weeks, Oklahoma State University*
4. Emotional intelligence of state 4-H leadership youth in Mississippi- *Jacquelyn Deeds and Amber Schmidt Watts, Mississippi State University*

### **Session F: Leadership and Youth Development**

Tangerine A

Chair: Shannon Washburn, University of Florida

Discussant: Brian Meyers, University of Florida

Facilitator: Stacy Stockard, Texas Tech University

1. Student project teams: Understanding team process through an examination of leadership and team culture- *Penny Pennington and Kathleen Kelsey, Oklahoma State University*
2. Leadership context and role of rural FFA members in the southern region- *Robin Horstmeier, University of Kentucky*
3. Factors that influence the decision to participate in youth leadership development opportunities in rural high schools in three southern states- *John Rayfield, Kirsten Compton, David Doerfert, Steve Frazee, Chad Davis, and Cindy Akers, Texas Tech University*
4. Graduate fellows in the classroom: Middle school students' STEM beliefs and interests- *Shannon Degenhart, Gary J. Wingenbach, and James R. Lindner, Texas A&M University*

**10:00 a.m. - Break**

**10:30 a.m. - Concurrent Research Session III**

### **Session G: Agriscience and Urban Agriculture**

Tangerine B

Chair: Jay Morgan, Murray State University

Discussant: Gary Moore, North Carolina State University

Facilitator: Moriah Jennings, Texas Tech University

## AGRICULTURAL EDUCATION

1. Competencies and traits of successful agricultural science teachers- *Grady Roberts, Julie F. Harlin, Kim E. Dooley, and Theresa P. Murphrey, Texas A&M University*
2. Issues facing urban agriscience teachers: A Delphi study- *Wendy Warner and Shannon G. Washburn, University of Florida*
3. Agricultural literacy of urban/suburban & rural twelfth grade students in five Illinois high schools- *Seburn Pense, Southern Illinois University; Jessica Beebe, Kansas State University; James G. Leising, Oklahoma State University; Dexter B Wakefield, Southern Illinois University; Richard W. Steffen, Southern Illinois University*
4. The use and design of lab instruction in secondary agriscience classrooms- *Wendy Warner, Shannon Arnold, David Jones, and Brian Myers, University of Florida*

### **Session H: Instructional Methods and Resources**

Palms Ballroom Salon H

Chair: John Ricketts, University of Georgia

Discussant: David Lawver, Texas Tech University

Facilitator: Lacey Durham, Texas Tech University

1. Attitudes of secondary agricultural science and biology/business students toward information technology: A longitudinal study- *Kirk Swartzel, Jacquelyn P. Deeds, and Walter N. Taylor, Mississippi State University*
2. Assessment of references to agriculture in a middle grade science textbook- *Marshall Swafford, Virginia Tech; Robert Terry, Jr., University of Missouri*
3. Does curriculum integration intervention to improve the mathematics- achievement of students diminish their acquisition of technical competence: An experimental study in agricultural mechanics- *Brian Parr, Murray State University; M. Craig Edwards and James Leising, Oklahoma State University*
4. Therapeutic riding: An educational tool for children with disabilities as viewed by teachers- *Rusty Miller, Virginia Tech; Antoine J. Alston, North Carolina A&T State University*

## AGRICULTURAL EDUCATION

### Session I: Learning Styles and Learning

Tangerine A

Chair: Tracy Kitchel, University of Kentucky

Discussant: Jim Leising, Oklahoma State University

Facilitator: Karin Fritz, Texas Tech University

1. Experiential learning in secondary agricultural education classrooms- *Shannon Arnold, Wendy J. Warner, and Edward W. Osborne, University of Florida*
2. An Investigation of the critical thinking ability of secondary agriculture students- *Scott Burris, Texas Tech University; Bryan Garton, University of Missouri*
3. Influence of overtly teaching for critical thinking on critical thinking skills of undergraduates in a College of Agriculture- *Curt Friedel, Tracy Irani, Rick Rudd, Maria Gallo, and Erin Eckhardt, University of Florida*
4. Factors influencing gifted and talented students' college decisions- *John Cannon, Thomas W. Broyles, and John H. Hillison, Virginia Tech*

### 12:00 p.m. - Conference Luncheon

Palms Ballroom Salon F/G

Presiding: Adam Kantrovich, Southern Region  
AAAE Alternative Vice-President

Moment of Silence

Memorial Recognitions

Graduate Student Recognitions

Speaker: Distinguished Mystery Lecturer

### 1:30 p.m. - AAAE-SRC Business Meeting

Tangerine A

Presiding: James Smith, Texas Tech University,  
Southern Region AAAE Vice-President

Remarks: Randol Waters, University of  
Tennessee, SAAS Agricultural Education  
Division President and Conference Chair

### 2:45 p.m. – Break

### 3:15 – 4:45 p.m. - Professional Development Seminar

Tangerine A

Chair: Kirk Swortzel, Mississippi State University  
Chair, AAAE Southern Region Professional  
Development Committee

Facilitators: Shannon Washburn, Carrie Fritz and  
John Ricketts

## AGRICULTURAL EDUCATION

### 5:30 p.m. - Awards Dinner

Palms Ballroom Salon C/D

Presiding: James Smith, Texas Tech University,  
Southern Region AAAE Vice-President; and  
Randol Waters, University of Tennessee, SAAS  
Agricultural Education Division President and  
Conference Chair

### S-AAAE Meeting Adjourns after Dinner

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**Tuesday, February 7**

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### 7:30 a.m. - SAAS Board of Directors Meeting

Oleander B

(Randol Waters, Tom Dobbins, Antoine Alston and  
Joe Kotrlik)

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AMERICAN SOCIETY OF AGRONOMY  
SOUTHERN REGIONAL BRANCH

Sunday, 5 February 2006

**Registration**

**12:00-5:00 PM** - Wyndham Orlando Resort, Palms  
Ballroom Foyer, First Floor

**Crops Posters**

3:00 PM-6:00 PM - Wyndham Orlando Resort, Palms  
Ballroom Salon E, First Floor

- 1 **Heat Stress on Physiology and Biochemistry of Diverse Cotton Germplasm.** Androniki Bibi\*, Derrick Oosterhuis, Evangelos Gonias and Fred Bourland, University of Arkansas
- 2 **The Insecticide Imidacloprid Improves Cotton Growth under Heat Stress.** Evangelos Gonias\*, Derrick Oosterhuis and Androniki Bibi, University of Arkansas
- 3 **St. Augustinegrass Phosphorus Requirement Using Hydroponics Culture.** Min Liu\*, Jerry Sartain, Laurie Trenholm, Grady Miller, Willie Harris, Peter Nkedi-Kizza and Rongling Wu, University of Florida
- 4 **Cultivars from Florida's Annual Ryegrass Breeding Program.** Gordon M. Prine\*, Ann R. S. Blount, Kevin E. Kenworthy and Paul E. Reith, University of Florida
- 5 **Carbohydrate Partitioning in Relationship to Lint Yield in Contrasting Cotton Cultivars.** Jenny D. Clement\* and C. O. Gwathmey, University of Tennessee
- 6 **Comparative Yield and Production Cost of Canola and Winter Wheat in Alabama.** Udai R. Bishnoi\*, S. R. Mentreddy and Ernst Cebert, Alabama A&M University
- 7 **Utility of Microsatellite for Determining Genetic Relationships in Maize Inbred Lines.** Cyrus Abdmishani\*, Fatemeh Dehghan-Nayeri and Bahman yazdi-Samadi, Colleg of Agriculture, University of Tehran
- 8 **Growth Response of the Invasive Weed Tropical Spiderwort to Elevated Atmospheric CO<sub>2</sub>.** Stephen A. Prior\*<sup>1</sup>, Andrew J. Price<sup>1</sup>, G. Brett Runion<sup>1</sup>, Hugo H. Rogers<sup>1</sup>, Dean H. Gjerstad<sup>2</sup> and H. Allen Torbert<sup>1</sup>, (1)USDA-ARS National Soil Dynamics Laboratory, (2)School of Forestry and Wildlife Sciences
- 9 **Large Plot Evaluation of Soybean Rust Control.** Philip Jost\*, Robert C. Kemeraït Jr., Layla Sconyers and James Clark, University of Georgia

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- 10 **Effect of Plant Growth Hormones and EDTA on Lead Uptake in Sesbania drummondii Seedlings.** Reyes Quintero\* III, Mohd Israr and Shivendra Sahi, Department of Biology, Western Kentucky University
- 11 **Vinegar as a Contact Herbicide: Application Volume and Adjuvants.** Charles L. Webber\* III, USDA, ARS, SCARL and James W. Shrefler, Oklahoma State University
- 12 **Pelargonic Acid as a Contact Herbicide: Concentrations, Adjuvants, and Application Timing.** Charles L. Webber\* III, USDA, ARS, SCARL and James W. Shrefler, Oklahoma State University
- 13 **Production of Edamame Vegetable Soybeans in Tennessee.** Debra J. S. Carpenter\*, Vincent R. Pantalone, Fred L. Allen, Dennis E. Deyton and Carl E. Sams, University of Tennessee
- 14 **Effects of Chloride Irrigation Water on Soybean Excluder and Includer Cultivars.** Joshua M. Dunn\*, Arkansas State University and University of Arkansas and Darell Widick, Arkansas State University
- 15 **Genetic Variation of Radiation Use Efficiency in Wheat and its Impact on Fall Forage Production.** Jeffrey Edwards\*, Oklahoma State University
- 16 **Sequential Planting of Switchgrass Seed to Determine Optimal Planting Date for Establishment.** Kyle B. Holmberg\* and Brian S. Baldwin, Mississippi State University
- 17 **Influence of Late Nitrogen Fertilizer Applications on Corn Grain Yield on Two Mississippi River Alluvial Soils.** H. J. Mascagni\* Jr., LSU AgCenter's Northeast Reserach Station and R. Bell, LSU AgCenter's Northeast Research Station
- 18 **Optimal Row Spacings and Plant Populations for Single and Twin Row Corn Production.** Jason L. Satterwhite\*<sup>1</sup>, Kipling Balkcom<sup>2</sup>, Francisco J. Arriaga<sup>3</sup>, Andrew J. Price<sup>4</sup> and Edzard Van Santen<sup>1</sup>, (1)Auburn University, (2)UDA-ARS, (3)USDA-ARS, (4)USDA-ARS National Soil Dynamics Laboratory
- 19 **Genetic Diversity of Bahiagrass Germplasm Collected in Northern Arkansas.** Byron L. Burson\*<sup>1</sup>, David M. Burner<sup>1</sup>, Russell W. Jessup<sup>1</sup> and K. Renganayaki<sup>2</sup>, (1)USDA-ARS, (2)Texas A&M University
- 20 **Nutrient Transport in Alternative Swine Manure Treatment Systems.** Susan Mcloud\*, Natural Resources Conservation Service

## AGRONOMY

- 21 **Early Fertilization to Enhance Root Development in Corn.** Ronnie W. Heiniger<sup>\*1</sup>, Alan D. Meijer<sup>1</sup> and Carl R. Crozier<sup>2</sup>, (1)Dept of Crop Science, North Carolina State University, (2)North Carolina State University Soil Science Dept.
- 22 **Cover Crop Affects Nitrogen Response of Pearl Millet Grain Production in a Strip-Till System.** Andrea L. Maas<sup>\*</sup>, USDA-ARS and Wayne Hanna, University of Georgia
- 23 **Genetic Structure of Natural Populations of *Imperata cylindrica*, an Invasive Clonal Species of the Southeastern United States.** Ludovic J.A. Capo-Chichi<sup>\*</sup> and Edzard van Santen, Auburn University
- 24 **Inter- and Intra-Population Genetics of *Imperata* sp.** Jason C. White<sup>\*</sup>, Ludovic J.A. Capo-chichi and Edzard van Santen, Auburn University
- 25 **Effect of the Concentration of Chipped Bark in Sawdust Substrate on Crude Polysaccharide Extract and Lentinan Content of Shiitake Mushrooms.** Ramakrishna Nalagorla, Catherine Sabota<sup>\*</sup> and Caula Beyl, Alabama A&M University
- 26 **Effect of Scion vs. Rootstock on Isoflavone, Oil, Protein, and Amino Acid Levels in Seed of Grafted Soybean [*Glycine max* (L.) Merr.] Plants.** Richard Johnson<sup>\*1</sup>, Craig Charron<sup>2</sup>, Carl Sams<sup>1</sup> and Fred Allen<sup>1</sup>, (1)University of Tennessee, (2)USDA-ARS

### Soils Posters

**3:00 PM-6:00 PM**

Wyndham Orlando Resort, Palms Ballroom Salon E, First Floor

- 27 **Determination of Bioavailable Nitrogen and Phosphorus from Broiler Litter.** W. Ashley Hammac<sup>\* II</sup>, C. Wesley Wood, Yucheng Feng, Oladiran Fasina, Joey Shaw and Brenda Wood, Auburn University
- 28 **The Role of Soil Phosphorus in South Florida Agricultural and Natural Ecosystems.** Yuncong Li<sup>\*</sup>, Tropical Research and Education Center/University of Florida
- 29 **Mowing and Nitrogen Source Effects on Ammonia Volatilization from Fertilizers Applied to Turfgrass.** Ellen C. Knight<sup>\*</sup>, C. Wesley Wood and Elizabeth Guertal, Auburn University

## AGRONOMY

- 30 **Long-Term Effects of Tillage and Manure Application on Soil Carbon and Nitrogen Mineralization.** Dexter Watts<sup>\*</sup>, H. Allen Torbert and Steven Prior, USDA-ARS National Soil Dynamics Laboratory
- 31 **OpenAg.Info: A Geospatial Technologies and Precision Agriculture Education Initiative.** Jared D. Williams<sup>\*</sup>, David A. Crouse and Rob E. Austin, North Carolina State University
- 32 **Effects of Soil Management and Landscape Factors on Greenhouse Gas Emissions.** Catherine N. Gacengo<sup>\*1</sup>, C. Wesley Wood<sup>1</sup>, Joey N. Shaw<sup>1</sup>, Kipling S. Balkcom<sup>2</sup> and Randy Raper<sup>2</sup>, (1)Department of Agronomy and Soils, (2)USDA-ARS
- 33 **Persistence of Bifenthrin and Chlorpyrifos in Nursery Soils.** Sam O. Dennis<sup>\*</sup>, Jason Oliver, Desh Duseja and Peter Nveawiah-Yoho, Tennessee State University

### SAAS Opening Session

**4:00-6:00 PM**

Wyndham Orlando Resort, Orange and Lemon  
"The Future of Animal Agriculture in North America"

### SAAS Reception

**6:30 PM - till**

Wyndham Orlando Resort, East Pool Pavilion

**Monday, 6 February 2006**

### Crops--Forages/Grasses

Wyndham Orlando Resort, Jasmine Room, First Floor  
*Presiding: John P. Beasley Jr., University of Georgia*

- 8:30 AM **Opening Remarks.** Daren Redfearn<sup>\*</sup>, Oklahoma State University.
- 8:45 AM **Leaf Fatty Acid Profiles of Bahiagrass Clones During Fall Regrowth in North Florida.** Jacque W. Breman<sup>\*1</sup>, George Person<sup>2</sup>, Ann Blount<sup>2</sup> and K. H. Quesenberry<sup>3</sup>, (1)Union County Extension Office, (2)University of Florida, (3)Agronomy Department
- 9:00 AM **Self- and Cross-Fertility of Diploid Bahiagrass.** Carlos A. Acuna<sup>\*</sup>, Ann Blount and Kenneth Quesenberry, University of Florida

## AGRONOMY

- 9:15 AM **Is Creeping Signalgrass an Alternative to Bahiagrass for Cow-Calf Grazing in Florida?** Ike V. Ezenwa\*<sup>1</sup>, John Arthington<sup>2</sup>, Rob S. Kalmbacher<sup>2</sup> and Findlay M. Pate<sup>2</sup>, (1)University of Florida/IFAS, (2)Range Cattle Research & Ed. Center
- 9:30 AM **Effects of Diminishing Soil-P Status on Productivity and Quality of Warm Season Grasses.** Martin B. Adjei\*<sup>1</sup>, Johan M. Scholberg<sup>1</sup>, Yoana Newman<sup>2</sup> and John Rechcigl<sup>1</sup>, (1)University of Florida, (2)Texas A&M University
- 9:45 AM **Agronomic Performance of 'Kentucky 31' and Scandinavian Ecotype Tall Fescue Plants.** Philip S. Shine\* and Tim D. Phillips, Univ. of KY, Dept. of Plant and Soil Sciences
- 10:00 AM **Lupins, Lupins, Lupins!** Steven Noffsinger\* and Edzard Van Santen, Auburn University
- 10:15 AM **Break**

### Soils--I

Wyndham Orlando Resort, Jasmine Room, First Floor  
*Presiding: C. Wesley Wood, Auburn University*

- 10:25 AM **Introductory Remarks**
- 10:30 AM **Bioavailability and Speciation of Mercury in a Soil from Oak Ridge, Tennessee, USA.** Fengxiang Han\*<sup>1</sup>, Yi Su<sup>2</sup>, David L. Monts<sup>2</sup> and Charles A. Waggoner<sup>3</sup>, (1)Mississippi State University, (2)Diagnostic Instrumentation and Analysis Laboratory, Mississippi State University, (3)Diagnostic Instrumentation and Analysis Laboratory (DIAL), Mississippi State University
- 10:45 AM **Influence of Applying MSMA on Soil Minerals and Properties.** Wengui Yan\*<sup>1</sup>, Nathan Slaton<sup>2</sup>, James Gibbons<sup>2</sup> and Richard Cartwright<sup>2</sup>, (1)USDA-ARS, DB NRRC, (2)University of Arkansas
- 11:00 AM **Growth and Copper Accumulation in *Sesbania drummondii* Exposed to High Concentrations of Copper.** Abhishek K. Srivastava\*<sup>1</sup>, Mohd Israr<sup>1</sup> and Shivendra Sahi<sup>2</sup>, (1)Western Kentucky University, (2)Western Kentucky University

## AGRONOMY

- 11:15 AM **Use of *Duo festulolium* in the Remediation of Phosphorus-Enriched Soils.** Daniel L. Starnes\*<sup>1</sup>, Nilesh Sharma<sup>1</sup> and Shivendra Sahi<sup>2</sup>, (1)Department of Biology, Western Kentucky University, (2)Western Kentucky University
- 11:30 AM **Measuring Soil Carbon Storage Differences of Forest Ecosystems: Approaches and Challenges.** Monday Mbila\*, Maria Nobles and Wallace Dillon Jr., Department of Plant and Soil Science, Alabama A&M University
- 11:45 AM **Lunch**

### Crops--Row Crops

Wyndham Orlando Resort, Jasmine Room, First Floor  
*Presiding: Barry Tillman, University of Florida*

- 12:55 PM **Introductory Remarks**
- 1:00 PM **Row Spacing and Population Density Effects on Castor Seed Yield: A Preliminary Study.** D. Scott Horton\*, Brian S. Baldwin, Kyle B. Holmberg and Justin W. Smith, Mississippi State University
- 1:15 PM **Do Foliar Fungicides Have a Fit in Mid-South Corn Production Systems?** Jason Kelley\*, Richard Cartwright and Steven Sheets, University of Arkansas Cooperative Extension Service
- 1:30 PM **Determining the Relationship Between Cotton Canopy Reflectance and Plant Parameters to Predict Mepiquat Chloride Recommendations.** J. Randall Nelson\*, North Carolina State University and Ronnie W. Heiniger, Dept of Crop Science, North Carolina State University
- 1:45 PM **Agronomic and Economic Performance of BMP Cropping Systems.** Donald Boquet\*, LSU AgCenter Macon Ridge Research Station and Kenneth Paxton, LSU AgCenter Dep. Agricultural Economics and Agribusiness
- 2:00 PM **Plant Crop Sugarcane Responses to N-rate on Organic-Amended vs. Non-Amended Mineral Soils.** Ike V. Ezenwa\* and Peter Newman, University of Florida/IFAS

## AGRONOMY

- 2:15 PM **Sugarcane Response to Water Table, Periodic Flood, and Foliar Nitrogen on Organic Soil.** Barry Glaz\*, USDA-ARS-SAA and Robert Gilbert, University of Florida
- 2:30 PM **Break**
- Soils--II**  
Wyndham Orlando Resort, Jasmine Room, First Floor  
*Presiding: Nathan Slaton, University of Arkansas*
- 2:55 PM **Introductory Remarks**
- 3:00 PM **Oklahoma Agriculture Experiment Station Encroachment: Problems and Solutions.** R. Brent Westerman\*, Oklahoma State University
- 3:15 PM **Effects of Water Treatments Residuals (WTR) on Runoff and Leachate Phosphorus Losses in a Florida Sand.** Olawale O. Oladeji\*, George A. O'Connor and Jerry B. Sartain, Soil and Water Science Department
- 3:30 PM **Sustainability of Planted Loblolly Pine on a Remediated Brine-Contaminated Soil.** Benjamin C. McNally\* and Kenneth W. Farrish, Stephen F. Austin State University
- 3:45 PM **Chemical Characterization and Mineralization Rates of Selected Biosolids and Organic Wastes.** Caroline B. Reis\*<sup>1</sup>, JERRY B. SARTAIN<sup>2</sup>, Martin Adjei<sup>1</sup>, John Rechcigl<sup>1</sup> and Craig Stanley<sup>1</sup>, (1)University of Florida, (2)Soil and Water Science Department

### Tuesday, 7 February 2006

#### **Soils--III**

Wyndham Orlando Resort, Jasmine Room, First Floor  
*Presiding: Kipling S. Balkcom, USDA-ARS, Auburn, AL*

- 8:25 AM **Introductory Remarks**
- 8:30 AM **Soil Science As Inquiry-Based Education in NC Elementary Schools.** Dennis Osborne\*, NC State University, Sam Houston, NC Science, Mathematics, and Technology Education Center and Norman Budnitz, Pratt School of Engineering, Duke University

## AGRONOMY

- 8:45 AM **Transferability of NIR Soil C Measurement Techniques Across Systems.** Jason P. Wight\*<sup>1</sup>, Fred Allen<sup>1</sup>, Nicole Labbe<sup>2</sup> and Timothy G. Rials<sup>2</sup>, (1)University of Tennessee, (2)University of Tennessee, Tennessee Forestry Products Center
- 9:00 AM **Common Ragweed Response to Nitrogen, Phosphorus, and Lime.** C. Wesley Wood\*<sup>1</sup>, H. Lee Stribling<sup>2</sup>, Brenda H. Wood<sup>1</sup> and Steven D. Mitchell<sup>2</sup>, (1)Department of Agronomy and Soils, (2)School of Forestry and Wildlife
- 9:15 AM **Conservation Tillage, Double Cropping and Cover Crop Effects on Soil Properties, Water Use and Crop Growth in Subtropical South Texas.** Robert Wiedenfeld\*, Texas Agricultural Experiment Station
- 9:30 AM **Strip Tillage Systems for Peanut.** Kipling S. Balkcom\*, USDA-ARS and Francisco Arriaga, USDA-Agricultural Research Service
- 9:45 AM **Break**
- Crops--Peanuts and Soybeans**  
Wyndham Orlando Resort, Jasmine Room, First Floor  
*Presiding: Ernest L. Clawson, LSU AgCenter, St. Joseph, LA*
- 10:10 AM **Introductory Remarks**
- 10:15 AM **Contribution of Temperature, Precipitation, and Solar Radiation from Dynamically Downscaled Global Climate Model Output to Predicting Peanut Yields and Phenology in the SE USA.** John G. Bellow\*<sup>1</sup>, Dong-Wook Shin<sup>1</sup>, Justin Schoof<sup>1</sup>, James Jones<sup>2</sup> and James J. O'Brien<sup>1</sup>, (1)Center for Ocean Atmospheric Prediction Studies, (2)University of Florida
- 10:30 AM **Poor Field Emergence of Late-Maturing Peanut Cultivars.** Barry R. Morton\*, Barry L. Tillman, Daniel W. Gorbet and Kenneth J. Boote, University of Florida
- 10:45 AM **Variability in Seed Size Among Peanut Genotypes in the University of Florida Peanut Breeding Program.** Barry Tillman\* and Daniel Gorbet, University of Florida

## AGRONOMY

- 11:00 AM **Influence of Tillage and Nitrogen Application on Canola Following Soybean and Fallow.** Pawel Wiatrak\*, David L. Wright, James J. Marois and Tawainga W. Katsvairo, NFREC / Univ. of Florida
- 11:15 AM **Planting Dates for Maturity Group III and IV Soybeans in Narrow Rows.** Ernest L. Clawson\*<sup>1</sup>, Donald J. Boquet<sup>2</sup> and Alphonse B. Coco<sup>1</sup>, (1)LSU AgCenter, (2)LSU AgCenter Macon Ridge Research Station
- 11:30 AM **X-ray Based Soybean Root Visualization and Characterization.** Fred Allen\*<sup>1</sup>, Dan McDonald<sup>2</sup>, Richard Johnson<sup>1</sup> and Ronald Michaels<sup>2</sup>, (1)University of Tennessee, (2)Phenotype Screening Corporation
- 11:45 AM **Genetic Diversity of Large and Small Soybean Germplasm.** Bo Zhang and Pengyin Chen\*, Univ. of Arkansas
- 12:00 PM **Lunch**

### Soils--IV

Wyndham Orlando Resort, Jasmine Room, First Floor  
*Presiding: M. W. Ebelhar, Mississippi State University*

- 1:25 PM **Introductory Remarks**
- 1:30 PM **Corn Yield in the Mississippi Delta as Influenced by Nitrogen and Potassium.** M. W. Ebelhar\* and D. R. Clark, Mississippi State University
- 1:45 PM **Influence of PGR Application Timing on Cotton Yield in the Mississippi Delta with Different N Management.** M. W. Ebelhar\*, S. P. Nichols and D. R. Clark, Mississippi State University
- 2:00 PM **Mehlich-3 Phosphorus and Potassium Correlation and Fertilizer Calibrations for Rice, Soybean, and Wheat in Arkansas - Preliminary Results.** Nathan Slaton\*, Russell DeLong, Richard Norman, Charles Wilson, Morteza Mozaffari and Leo Espinoza, University of Arkansas
- 2:15 PM **Effect of Salinity on Local Desert Trees in Oman. Humphrey Esehie\* and Ahmed Al-Saidi, Sultan Qaboos University**
- 2:30 PM **Southern Branch-ASA Business Meeting.** Presiding: Daren Redfearn, Oklahoma State University

## Southern Section AMERICAN SOCIETY OF ANIMAL SCIENCE

### ANNUAL MEETING

February 4–8, 2006  
Orlando, Florida

In conjunction with the 103rd  
Annual Convention of the Southern Association of  
Agricultural Scientists

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## ANIMAL SCIENCE

### Award Sponsors 2006 Southern Section ASAS

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

#### Swine Industry Award for Innovation

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#### Young Animal Scientist – Research

Elanco Animal Health  
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#### Extension Award

Boehringer Ingelheim, Vetmedica Division  
St. Joseph, MO

#### Young Animal Scientist – Education

#### Undergraduate Paper Competition

#### Graduate Student Awards Competition

### PROGRAM EVENTS

#### Friday, February 3

Academic Quadrathlon (AQ)

9:00 pm: Advisor's Meeting  
Gainesville, FL

#### Saturday, February 4

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

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

#### Sunday, February 5

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

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

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

## ANIMAL SCIENCE

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

Siesta/Biscayne

ARPAS Exam  
3:00 - 5:00 pm

Coquina

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

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

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

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

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

#### Monday, February 6

Registration  
7:00 am - Noon  
Palms Ballroom  
Foyer

ARPAS Exams  
10:00 - noon  
Paradise

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

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

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

ARPAS Exams  
2:00 - 4:00 pm  
Ormond

**ANIMAL SCIENCE**

Graduate Student Paper Competition II 1:00 - 3:15 pm	Lime
Breeding and Genetics 1:00 - 2:15 pm	Largo
Physiology I 1:00 - 5:00 pm	Orange
Ruminant Animal Production I 1:00 - 4:15 p.m.	Siesta/Biscayne
Pastures and Forages I 1:15 - 2:15 p.m.	Cocoa
Pastures and Forages II 2:30 - 3:30 p.m.	Cocoa
Business Meeting 5:00 - 7:00 pm	Orange
Small Ruminant Subcommittee of the NAGP 7:00 - 9:00 pm	Palms Ballroom Salon B

**Tuesday, February 7**

Registration 8:00 - noon	Palms Ballroom Foyer
Meats I 8:00 - 9:30 am	Tangerine B
Small Ruminant Production 8:00 - 12:15 pm	Siesta/Biscayne
Extension I 8:30 - 11:30 am	Orange
Physiology II 8:30 - 11:15 am	Marathon & Cedar
Extension Luncheon Noon - 2:00 pm	Oleander B
Meats II 1:00 - 5:00 pm	Orange

**ANIMAL SCIENCE**

Physiology III 1:00 - 4:45	Marathon & Cedar
Ruminant Animal Production II 1:00 - 5:00 pm	Tangerine B
Extension II 2:15 - 4:15 pm	Siesta/Biscayne

**ASAS Southern Section Meeting  
Orlando, Florida  
February 4–8, 2006**

**Monday, February 6  
SYMPOSIA and ORAL SESSIONS**

**Undergraduate Student Competition**

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

- 8:00 AM Estrus detection in gilts using digital infrared thermal imaging. D. Sykes\*, A. Chromiak, S. Couvillion, P. Gerard, M. Crenshaw, S. Willard, and P. Ryan, Mississippi State University, Mississippi State.
- 8:15 AM Effect of social status of dairy heifers on expression of estrus and subsequent fertility. D. A. Elkins\* and R. W. Rorie, University of Arkansas, Fayetteville.
- 8:30 AM The effect of breed type on real-time ultrasound carcass traits, performance and pelvic measurement of heifers enrolled in the Eastern Kentucky Heifer Development Program. S. Wheeler\*, T. Wistuba, P. Prater, and J. Willard, Morehead State University, Morehead, KY.
- 8:45 AM Effects of grain by-products in supplements for stocker cattle grazing bermudagrass. T. E. Davis\*, E. B. Kegley, K. P. Coffey, W. K. Coblenz, R. K. Ogden, and J. A. Hornsby, University of Arkansas, Fayetteville.

## ANIMAL SCIENCE

- 5 9:00 AM Dry matter intake and digestibility of annual and perennial cool season grasses fed to lambs as high moisture hay. C. D. Farris<sup>1</sup>, W. A. Phillips<sup>2</sup>, G. W. Horn<sup>1</sup>, B. K. Northup<sup>2</sup>, and H. S. Mayeux<sup>2</sup>, <sup>1</sup>Oklahoma Agricultural Experiment Station, Stillwater, OK, <sup>2</sup>USDA-ARS Grazinglands Research Laboratory, El Reno, OK.
- 6 9:15 AM Nutrient utilization in Polypay and percentage White Dorper lambs fed a high roughage and a high concentrate diet. A. K. Lunsford\*, D. G. Ely, D. K. Aaron, M. L. Mallory, and R. A. Zinner, University of Kentucky, Lexington.
- 7 9:30 AM The use of alkanes to estimate forage intake of steers grazing either different fescue types or Lakota prairie grass. S. Gregory\*, G. Scaglia, O. Abaye, and L. Stewart, Virginia Tech, Blacksburg, VA.
- 8 9:45 AM Influence of postmortem aging treatments on tenderness of beef steaks from three breed types. E. R. Daniels\*, T. D. Bidner, M. A. Persica, and D. E. Franke, Louisiana State University Agricultural Center, Baton Rouge., Baton Rouge.

### Graduate Student Competition I

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

- 9 10:15 AM Effects of age at castration and transportation stress on physiological responses of newly weaned beef calves. J. S. Thurlow<sup>1</sup>, M. L. Looper<sup>2</sup>, S. T. Reiter<sup>1</sup>, M. A. Lamb<sup>1</sup>, and C. F. Rosenkrans Jr.<sup>1</sup>, <sup>1</sup>University of Arkansas, Fayetteville, <sup>2</sup>USDA-ARS Dale Bumpers Small Farm Research Center, Booneville, AR.

## ANIMAL SCIENCE

- 10 10:30 AM The effect of supplementation frequency and transportation stress on performance and health of newly weaned calves. C. Pickworth\*, G. Scaglia, W. Swecker, J. Fontenot, and M. Wahlberg, Virginia Tech, Blacksburg.
- 11 10:45AM Population dynamics of Eimeria spp in grazing beef calves in Virginia. A. Lucas<sup>1</sup>, W. Swecker<sup>1</sup>, G. Scaglia<sup>2</sup>, D. Lindsay<sup>1</sup>, F. Elvinger<sup>1</sup>, J. Fontenot<sup>2</sup>, and A. Zajac<sup>1</sup>, <sup>1</sup>Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA, <sup>2</sup>Virginia Tech, Blacksburg.
- 12 11:00 AM The effects of acute restraint stress on lymphocyte proliferation and IgM production and cortisol levels in the pig. N. C. Burdick<sup>1</sup>, T. H. Welsh, Jr.<sup>2</sup>, J. A. Carroll<sup>3</sup>, and J. C. Laurenz<sup>1</sup>, <sup>1</sup>Texas A&M University, Kingsville, <sup>2</sup>Texas A&M University, College Station, <sup>3</sup>USDA-ARS Livestock Issues Research Unit, Lubbock, TX.
- 13 11:15 AM Cow and calf performance in two years on Coastal or Tifton 85 pastures with aescynomene creep grazing. V. A. Corriher<sup>1</sup>, G. M. Hill<sup>1</sup>, J. G. Andrae<sup>2</sup>, M. A. Froetschel<sup>2</sup>, and B. G. Mullinix, Jr.<sup>1</sup>, <sup>1</sup>University of Georgia, Tifton, <sup>2</sup>University of Georgia, Athens.
- 14 11:30AM Adaptation of lambs to an endophyte-infected tall fescue seed diet. R. A. Zinner\*, D. G. Ely, D. K. Aaron, L. P. Bush, A. K. Lunsford, and M. L. Mallory, University of Kentucky, Lexington.
- 15 11:45AM Copper deficiency results in decreased brain copper but does not affect brain prion protein characteristics in mature Angus cows. L. R. Legleiter\*, J. W. Spears, K. E. Lloyd, S. L. Hansen, and R. S. Fry, North Carolina State University, Raleigh.

## ANIMAL SCIENCE

### Graduate Student Competition II

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

- 16 1:00 PM Effect of anabolic implants on beef carcass quality and yield, and factors regulating tenderness in Longissimus and Gluteus muscles. J. Long\*, S. Duckett, E. Pavan, and H. Crowe, University of Georgia, Athens.
- 17 1:15 PM Forage quality, animal performance, and carcass traits of steers finished on winter annual ryegrass (*Lolium multiflorum* Lam.) pasture with varying levels of corn supplementation. S. Roberts\*, C. Kerth, K. Braden, D. Rankins, L. Kriese-Anderson, and J. Prevatt, Auburn University, Auburn, AL.
- 18 1:30 PM Finishing steers on winter annual ryegrass (*Lolium multiflorum* Lam.) with varied levels of supplementation: Effects on fatty acid profile, shelf life and lipid stability. K. Braden\*<sup>1</sup>, K. William<sup>3</sup>, S. Roberts<sup>1</sup>, J. Gentry<sup>2</sup>, and C. Kerth<sup>1</sup>, <sup>1</sup>Auburn University, Auburn, AL, <sup>2</sup>Middle Tennessee State University, Mufreesboro, <sup>3</sup>Tuskegee University, Tuskegee, AL.
- 19 1:45 PM Serum concentration comparisons of thyroxine, insulin-like growth factor-1 and leptin in foaling mares of fat versus moderate condition. C. Cavinder\*, M. Vogelsang, P. Gibbs, D. Forrest, and B. Scott, Texas A&M University, College Station.
- 20 2:00 PM Fertility associated antigen (FAA) in peripubertal beef bulls as an indicator of potential fertility. J. Gallino\*<sup>1</sup>, A. Novosad<sup>1</sup>, G. Dawson<sup>2</sup>, R. Ax<sup>2</sup>, L. Sprott<sup>1</sup>, and D. Forrest<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>University of Arizona, Tucson.

## ANIMAL SCIENCE

- 21 2:15 PM The effects of dietary fat supplementation on body composition traits and reproductive efficiency of beef heifers grazing ryegrass pastures. A. R. Dos Santos\*<sup>1,2</sup>, S. T. Willard<sup>2</sup>, R. C. Vann<sup>1</sup>, and B. Macoon<sup>1</sup>, <sup>1</sup>Brown Loam Experiment Station, Raymond, MS, <sup>2</sup>Mississippi State University, Starkville.
- 22 2:30 PM Effects of supplement type on performance, reproductive and physiological parameters of yearling Brahman-crossbred heifers. R. F. Cooke\*<sup>1,2</sup>, C. R. Staples<sup>2</sup>, G. C. Lamb<sup>3</sup>, and J. D. Arthington<sup>1</sup>, <sup>1</sup>University of Florida - RCREC, Ona, <sup>2</sup>University of Florida - Animal Sciences, Gainesville, <sup>3</sup>University of Minnesota - Animal Sciences, Grand Rapids.
- 23 2:45 PM Effects of body condition and bovine somatotropin on estrus, ovarian follicles, and reproductive performance of postpartum Brahman-influenced cows. R. Flores\*<sup>1</sup>, M. L. Looper<sup>2</sup>, R. W. Rorie<sup>1</sup>, C. F. Rosenkrans, Jr.<sup>1</sup>, M. A. Lamb<sup>1</sup>, S. T. Reiter<sup>1</sup>, and D. L. Kreider<sup>1</sup>, <sup>1</sup>University of Arkansas, Fayetteville, <sup>2</sup>USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR.
- 24 3:00 PM Effect of liquid-molasses supplements containing catfish oil on beef cow performance and reproductive efficiency. D. Holley\*, M. Hersom, and J. Yelich, University of Florida, Gainesville.

### Breeding and Genetics

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

## ANIMAL SCIENCE

- 25 1:00 PM Heritability and EPD for calving rate and calf survival in a multi-breed population. J. L. Guerra, D. E. Franke\*, and D. C. Blouin, LSU Agricultural Center, Baton Rouge, LA, US.
- 26 1:15 PM Comparison of traits of pure and crossbred calves produced by Brooksville Angus sires and sires from prominent Angus bloodlines. D. G. Riley\*<sup>1</sup>, C. C. Chase, Jr.<sup>1</sup>, S. W. Coleman<sup>1</sup>, and T. A. Olson<sup>2</sup>, <sup>1</sup>USDA, ARS, Brooksville, FL, <sup>2</sup>Univ. Florida, Gainesville.
- 27 1:30 PM Evaluation of Romosinuano as straightbreds and crossbreds with Angus and Brahman: postweaning growth and temperament traits of heifers. J. Spatz\*, D. Riley, C. Chase, S. Coleman, and T. Olson, University of Florida, Gainesville.
- 28 1:45 PM Relationships of milk production in Brangus cows to postweaning calf performance. X. Wang<sup>1</sup>, M. Brown\*<sup>2</sup>, F. Gao<sup>1</sup>, J. Wu<sup>1</sup>, and H. Mayeux<sup>2</sup>, <sup>1</sup>Gansu Agricultural University, Lanzhou, Gansu, PRC, <sup>2</sup>USDA-ARS, Grazinglands Research Laboratory, El Reno, OK.
- 29 2:00 PM Effects of artificially administered nematode challenge on three breeds of goats. E. A. Wilson\*<sup>1</sup>, J. M. Dzakuma<sup>1</sup>, N. C. Beckford<sup>1</sup>, B. M. Johnson<sup>1</sup>, L. C. Nuti<sup>1</sup>, and T. M. Craig<sup>2</sup>, <sup>1</sup>Prairie View A&M University, Prairie View, TX, <sup>2</sup>Texas A&M University, College Station.

### Physiology I: Heat Stress Symposium

Chair: Dr. Rhonda Vann,  
MAFES-Brown Loam Exp. Station  
Monday 1:00 - 5:00  
Orange

1:00 PM Introduction. Dr. Rhonda Vann.

## ANIMAL SCIENCE

- 30 1:05 PM Direct effects of thermal stress (TS) on gene expression in growing bovine mammary epithelial cells (BMEC) in collagen gel culture. R. Collier\*, C. Stiening, J. Hoying, A. Hoying, and M Abdallah, University of Arizona, Tucson.
- 31 1:50 PM Determinants of oocyte and embryonic resistance to elevated temperature in cattle - mechanisms and opportunities for exploitation to increase pregnancy rates during heat stress. P. J. Hansen\*, University of Florida, Gainesville.
- 32 2:25 PM Prediction of heat stress conditions in cattle using current technology to monitor thermal status. D. Spiers\*, University of Missouri, Columbia.
- 3:00 PM Break.
- 33 3:15 PM Indicators of heat stress and environmental monitoring of animal responses. S. Willard\*, Mississippi State University, Mississippi State.
- 34 3:45 PM A history of the evaluation of the Slick hair gene. T. Olson\*<sup>1</sup>, C. Chase<sup>2</sup>, M. Mariasegaram<sup>2</sup>, C. Lucena<sup>1</sup>, and E. Godoy<sup>1</sup>, <sup>1</sup>University of Florida, Gainesville, <sup>2</sup>USDA,ARS, Subtropical Agricultural Research Station, Brooksville, FL.
- 35 4:15 PM Studies on genetics of heat tolerance in Holsteins. I. Misztal\*, J. Bohmanova, M. Freitas, and S. Tsuruta, University of Georgia, Athens.
- 4:45 PM Questions & Discussion.

### Ruminant Animal Production I: Health and Reproduction

Chair: Les Anderson, University of Kentucky  
Monday 1:00 - 4:15  
Siesta/Biscayne

**ANIMAL SCIENCE**

- 36 1:00 PM The effects of cracking whole cottonseed on apparent nutrient digestibilities and N retention when fed to goats. B. Hagens\*<sup>1</sup>, N. Whitley<sup>2</sup>, and B. Rude<sup>1</sup>, <sup>1</sup>Mississippi State University, Starkville, <sup>2</sup>University of Maryland Eastern Shore, Princess Anne.
- 37 1:15 PM Evaluation of a spinosad pour-on insecticide on the effectiveness and efficacy for horn fly (*Haematobia irritans*) control and management on beef cattle. L. A. Rakowitz\*, S. F. Kelley, M. M. Beverly, and R. D. Hanagriff, Sam Houston State University, Huntsville, TX.
- 38 1:30 PM Plane of nutrition by tick burden interaction in cattle: Effect on body weight, dry matter intake, and plasma IGF-1. J. Gallino\*, D. Tolleson, T. Welsh, L. Jonovich, G. Carstens, P. Teel, O. Strey, S. Prince, K. Dean, and J. Stuth, Texas A&M University, College Station.
- 39 1:45 PM Plane of nutrition by tick burden interaction in cattle: Effect on fecal composition. S. Prince\*, D. Tolleson, J. Gallino, K. Banik, P. Teel, O. Strey, G. Carstens, T. Welsh, K. Dean, and J. Stuth, Texas A&M University, College Station.
- 40 2:00 PM Effect of breed on acute phase protein response to weaning and transport in beef calves. X. Qiu\*<sup>1</sup>, J. Arthington<sup>1</sup>, D. Riley<sup>2</sup>, C. Chase Jr.<sup>2</sup>, W. Phillips<sup>2</sup>, and S. Coleman<sup>2</sup>, <sup>1</sup>University of Florida, Ona, <sup>2</sup>USDA-ARS, USA.
- 41 2:15 PM Effects of dexamethasone, and selenium and vitamin E on heat shock protein concentrations and lactate dehydrogenase activity in immune challenged steers consuming tall fescue baleage. S. Reiter\*, M. Nihsen, D. Kreider, Z. Johnson, and C. Rosenkrans, Jr, University of Arkansas, Fayetteville.

**ANIMAL SCIENCE**

- 42 2:30 PM Effects of on-arrival vs. delayed BRD vaccination on health, performance and serum IBR titer levels of newly-received stocker cattle. J. T. Richeson\*<sup>1</sup>, P. A. Beck<sup>1</sup>, S. A. Gunter<sup>1</sup>, M. S. Gadberry<sup>1</sup>, D. S. Hubbell<sup>1</sup>, and C. Jones<sup>2</sup>, <sup>1</sup>University of Arkansas Division of Agriculture, Fayetteville, <sup>2</sup>Boehringer-Ingelheim Vetmedica, Inc., Ridgefield, CT.
- 43 2:45 PM Effect of cation-anion difference on measures of acid-base physiology in beef cows. M. Hersom\*<sup>1</sup>, G. Hansen<sup>2</sup>, and J. Arthington<sup>3</sup>, <sup>1</sup>University of Florida, Gainesville, <sup>2</sup>North Florida Research and Education Center, University of Florida, Marianna, FL, <sup>3</sup>Range Cattle Research and Education Center, University of Florida, Ona, FL.
- 44 3:00 PM Effects of Tasco® in free-choice mineral on beef cow performance. J. Gentry\*<sup>1</sup>, D. Colling<sup>2</sup>, and W. Gill<sup>3</sup>, <sup>1</sup>Middle Tennessee State University, Murfreesboro, <sup>2</sup>Acadian Agritech, Dartmouth, Nova Scotia, Canada, <sup>3</sup>University of Tennessee, Knoxville.
- 45 3:15 PM Effect of supplement timing on blood measurements and reproductive performance of beef heifers grazing annual ryegrass in the spring. D. Kreider<sup>1</sup>, K. Coffey\*<sup>1</sup>, T. Montgomery<sup>2</sup>, K. Ferrell<sup>1</sup>, W. Coblenz<sup>1</sup>, W. Whitworth<sup>2</sup>, J. Caldwell<sup>1</sup>, R. McNew<sup>1</sup>, and R. Ogden<sup>1</sup>, <sup>1</sup>University of Arkansas, Fayetteville, <sup>2</sup>Univ. of Arkansas SE Research and Extension Center, Monticello, AR.

## ANIMAL SCIENCE

- 46 3:30 PM Effect of dietary manganese source and concentration on growth, reproductive performance, and manganese status of beef heifers. S. L. Hansen\*, C. S. Whisnant, K. E. Lloyd, and J. W. Spears, North Carolina State University, Raleigh.
- 47 3:45 PM Effects of conventional or low bull to female ratio in extensively-managed, natural mating breeding groups. R. J. Rathmann\*<sup>1</sup>, L. R. Sprott<sup>1</sup>, J. W. Holloway<sup>2</sup>, K. S. Barling<sup>1</sup>, B. G. Warrington<sup>2</sup>, K. O. Curley, Jr.<sup>1</sup>, and D. W. Forrest<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas Agricultural Experiment Station, Uvalde, TX.
- 48 4:00 PM Utilization of reproductive tract scores in extensively-managed, natural mating breeding groups. R. J. Rathmann\*<sup>1</sup>, L. R. Sprott<sup>1</sup>, J. W. Holloway<sup>2</sup>, K. S. Barling<sup>1</sup>, B. G. Warrington<sup>2</sup>, K. O. Curley, Jr.<sup>1</sup>, and D. W. Forrest<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas Agricultural Experiment Station, Uvalde, TX.

### Pastures and Forages I

Chair: Warren Gill, University of Tennessee  
Monday 1:15 - 2:15  
Cocoa

- 49 1:15 PM Effects of ruminal fill on short-term herbage intake rate. P. Gregorini\*<sup>1,2</sup>, S. Gunter<sup>1</sup>, C. Masino<sup>2</sup>, and P. Beck<sup>1</sup>, <sup>1</sup>University of Arkansas Division of Agriculture, Hope, <sup>2</sup>Universidad Nacional de La Plata, La Plata, Argentina.
- 50 1:30 PM The effects of a morning fasting on the evening grazing behavior of beef heifers. P. Gregorini\*<sup>1,2</sup>, M. Eirin<sup>2</sup>, M. Wade<sup>3</sup>, R. Refi<sup>2</sup>, M. Ursino<sup>2</sup>, O. Ansin<sup>2</sup>, and S. Gunter<sup>2</sup>, <sup>1</sup>University of Arkansas Division of Agriculture,

## ANIMAL SCIENCE

- Hope, <sup>2</sup>Universidad Nacional de La Plata, La Plata, Buenos Aires, Argentina, <sup>3</sup>Universidad del Centro de la Provincia de Buenos Aires, Tandil, Buenos Aires, Argentina.
- 51 1:45 PM The effect of fasting on the feeding station behavior of grazing beef heifers. M. Wade<sup>1</sup>, M. Eirin<sup>2</sup>, and P. Gregorini\*<sup>2,3</sup>, <sup>1</sup>Universidad del Centro de la Provincia de Buenos Aires, Tandil, Buenos Aires, Argentina, <sup>2</sup>Universidad Nacional de La Plata, La Plata, Buenos Aires, Argentina, <sup>3</sup>University of Arkansas Division of Agriculture, Hope.
- 52 2:00 PM The effect of morning fasting on beef heifers weight gain, body condition score and daily herbage intake. M. Eirin<sup>2</sup>, P. Gregorini\*<sup>1,2</sup>, R. Refi<sup>1</sup>, M. Ursino<sup>1</sup>, O. Ansin<sup>1</sup>, and S. Gunter<sup>1</sup>, <sup>1</sup>University of Arkansas Division of Agriculture, Hope, Hope, <sup>2</sup>Universidad Nacional de La Plata, La Plata, Buenos Aires, Argentina.

### Pastures and Forages II

Chair: John Arthington, University of Florida  
Monday 2:30 - 3:30  
Cocoa

- 53 2:30 PM Limit-grazing of winter wheat pasture to increase stocker productivity. W. A. Phillips\*<sup>1</sup>, S. W. Coleman<sup>2</sup>, D. G. Riley<sup>2</sup>, C. C. Chase, Jr.<sup>2</sup>, and H. S. Mayeux<sup>1</sup>, <sup>1</sup>USDA-ARS Grazinglands Research Laboratory, El Reno, OK, <sup>2</sup>USDA-ARS Subtropical Agricultural Research Station, Brooksville, FL.
- 54 2:45 PM Performance of beef heifers strip-grazing stockpiled endophyte infected, non-toxic endophyte infected and endophyte free tall fescue. M. E. Drewnoski\*, E. J. Oliphant, M. H. Poore, J. T. Green, and M. E. Hockett, North Carolina State University, Raleigh.

## ANIMAL SCIENCE

- 55 3:00 PM Effects of brown midrib gene in sudangrass (sorghum bicolor) on summer stocker steers performance. J. R. Parish<sup>\*1</sup>, R. H. Watson<sup>1</sup>, T. F. Best<sup>2</sup>, J. A. Parish<sup>1</sup>, R. R. Evans<sup>2</sup>, and W. B. McKinley<sup>1</sup>, <sup>1</sup>Mississippi State University, Mississippi State, <sup>2</sup>MAFES Prairie Research Station, Prairie, MS.
- 56 3:15 PM Forage chicory as an alternative to annual ryegrass in stocker cattle production systems. R. H. Watson\*, J. R. Parish, M. B. Howell, J. A. Parish, W. B. McKinley, and W. L. Newman, Mississippi State University, Mississippi State.

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

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

**Tuesday, February 7**

**Meats I**

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

- 57 8:00 AM Price premiums and discounts for retail marketing attributes of flat iron steak. S. Watson<sup>\*1</sup>, E. Tucker<sup>1</sup>, and D. Hudson<sup>2</sup>, <sup>1</sup>Louisiana Tech University, Ruston, <sup>2</sup>Mississippi State University, Mississippi State.
- 58 8:15 AM Empirical modeling for predicting objective tenderness of biceps femoris steaks. J. T. Sawyer\*, J. K. Apple, J.-F. Mullenet, B. Cheatman, W. K. Chung, R. Xiong, and J. Kandaswamy, University of Arkansas, Fayetteville.

## ANIMAL SCIENCE

- 59 8:30 AM Effects of beef muscle type, with or without enhancement on pre-cooked value-added roast beef. J. Martin\* and B. Williams, Mississippi State University, Mississippi State.
- 60 8:45 AM Comparison of raw soybean and soybean meal diets on carcass traits of gilts. D. Sykes\*, S. Couvillion, J. Martin, T. Althen, P. Gerard, M. Crenshaw, and P. Ryan, Mississippi State University, Mississippi State.
- 61 9:00 AM Effects of dietary fat source and slaughter weight on LM fatty acid composition of growing-finishing swine. M. S. Lee\*, J. K. Apple, C. V. Maxwell, D. L. Galloway, J. T. Sawyer, and J. W. S. Yancey, University of Arkansas, Fayetteville.
- 62 9:15 AM Effects of dietary fat source and slaughter weight on the fatty acid composition of carcass composition samples from growing-finishing swine. J. W. S. Yancey\*, J. K. Apple, C. V. Maxwell, D. L. Galloway, J. T. Sawyer, and M. S. Lee, University of Arkansas, Fayetteville.

**Small Ruminant Production**

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

- 63 8:00 AM Use of multiple boluses of copper oxide wire particles for control of Haemonchus contortus in lambs. J. Burke\*<sup>1</sup> and J. Miller<sup>2</sup>, <sup>1</sup>USDA, Agricultural Research Service, Booneville, AR, <sup>2</sup>Louisiana State University, Baton Rouge.
- 64 8:15 AM Effect of copper oxide needles on gastrointestinal parasites in weanling meat goats control-grazed on bermudagrass pastures. J.-M. Luginbuhl\*, H. Glennon, and J. Mueller, North Carolina State University, Raleigh.



**ANIMAL SCIENCE**

- 65 8:30 AM Control of *Haemonchus contortus* in ewes and does with a sustained-release multi-trace element/vitamin ruminal bolus. J. Burke<sup>\*1</sup> and J. Miller<sup>2</sup>, <sup>1</sup>USDA, Agricultural Research Service, Booneville, AR, <sup>2</sup>Louisiana State University, Baton Rouge.
- 66 8:45 AM Teaching integrated parasite management (IPM) to sheep and goat producers. S. Schoenian<sup>\*</sup>, University of Maryland Cooperative Extension, Keedysville, MD.
- 67 9:00 AM Crude protein of diet and feces in goats: Forward and reverse process prediction via near infrared reflectance spectroscopy. R. Dittmar<sup>\*1</sup>, D. Tolleson<sup>1</sup>, S. Prince<sup>1</sup>, K. Banik<sup>1</sup>, J. Gallino<sup>1</sup>, U. Gombosuren<sup>2</sup>, and J. Stuth<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Mercy Corps, Ulaan Baator, Mongolia.
- 68 9:15 AM Fermented fruit residues inclusion on ram's diet: Effects on voluntary intake and nutrients digestibility. S. Pagán<sup>\*1</sup>, A. Rodríguez<sup>1</sup>, and E. Valencia<sup>2</sup>, <sup>1</sup>Animal Industry Department, University of Puerto Rico at Mayagüez, Mayagüez, Puerto Rico, <sup>2</sup>Agronomy and Soil Sciences Department, University of Puerto Rico at Mayagüez, Mayagüez, Puerto Rico.
- 69 9:30 AM Forage intake in Suffolk, Katahdin, and reciprocal-cross lambs. F. Gao<sup>1</sup>, M. Brown<sup>\*2</sup>, X. Wang<sup>1</sup>, J. Wu<sup>1</sup>, P. Starks<sup>2</sup>, and H. Mayeux<sup>2</sup>, <sup>1</sup>Gansu Agricultural University, Lanzhou, Gansu, PRC, <sup>2</sup>USDA-ARS, Grazinglands Research Laboratory, El Reno, OK.
- 70 9:45 AM Fibrolytic enzymes on intake and digestibility of guineagrass (*Panicum Maximum* Jacq.) hay. K. Tous<sup>\*1</sup>, A. Rodríguez<sup>1</sup>, A. Adesogan<sup>2</sup>, and E.

**ANIMAL SCIENCE**

- Valencia<sup>1</sup>, <sup>1</sup>University of Puerto Rico, Mayagüez, Puerto Rico, <sup>2</sup>University of Florida, Gainesville.
- 71 10:00 AM Weight gain in meat goat does fed endophyte-infected and non-infected tall fescue. R. Browning, Jr.<sup>\*</sup>, P. Pandya, T. Payton, B. Donnelly, W. Hendrixson, and M. Byars, Tennessee State University-IAgER, Nashville.
- 72 10:15 AM In situ dry matter degradability of tropical legumes using fistulated goats and steers. S. Pagán<sup>\*1</sup>, E. M. Valencia<sup>2</sup>, J. P. Muir<sup>3</sup>, and A. A. Rodríguez<sup>1</sup>, <sup>1</sup>Department of Animal Industry, University of Puerto Rico at Mayagüez, Mayagüez, Puerto Rico, <sup>2</sup>Department of Agronomy and Soil Sciences University of Puerto Rico at Mayagüez, Mayagüez, Puerto Rico, <sup>3</sup>Texas Agricultural Experiment Station, Stephenville, TX.
- 73 10:30 AM The effect of time of day of supplemental feeding on production traits of lactating hair sheep in the tropics. R. W. Godfrey<sup>\*</sup> and M. C. Vinson, Agricultural Experiment Station, University of the Virgin Islands, St Croix, VI.
- 74 10:45 AM Use of transrectal ultrasonography to determine early fetal development in meat goat does and hair sheep ewes. S. Wildeus<sup>\*</sup>, J. R. Collins, and E. J. Chozu, Virginia State University, Petersburg.
- 75 11:00 AM Collection and freezing of Angora goat embryos for the USDA Animal Germplasm Repository. J. McAllister<sup>\*1</sup>, S. Bushnell<sup>1</sup>, M. Purpera<sup>1</sup>, A. Landry<sup>1</sup>, B. Olcott<sup>1</sup>, H. Blackburn<sup>2</sup>, E. Loetz<sup>3</sup>, K. Bondioli<sup>1</sup>, and R. Godke<sup>1</sup>, <sup>1</sup>Louisiana State University Agricultural Center, Baton Rouge, LA, <sup>2</sup>USDA National Center for

## ANIMAL SCIENCE

Genetics Resources Preservation, Ft. Collins, CO, <sup>3</sup>E. de la Garza American Institute for Goat Research, Langston, OK.

- 76 11:15 AM Effect of photoperiod on milk yield and quality, and reproduction in dairy goats. R. Garcia-Hernandez\*, A. Parks, J. Dzakuma, G. Newton, S. Horner, and L. Nuti, International Goat Research Center, Prairie View A&M University, Prairie View, TX.
- 77 11:30 AM Doe-kid performance to weaning among three meat goat breeds (Year 2). R. Browning, Jr.\*, B. Donnelly, T. Payton, P. Pandya, W. Hendrixson, and M. Byars, Tennessee State University-IAgER, Nashville.
- 78 11:45 AM Ewe productivity in a grading-up mating scheme designed to remove wool from a traditional breed. D. K. Aaron\*, D. G. Ely, E. Fink, and R. A. Zinner, University of Kentucky, Lexington.
- 79 12:00 PM Factors affecting the decision to exit the sheep industry: A three stage regression analysis for producers in West Virginia. D. Singh-Knights\*, D. Smith, and M. Knights, West Virginia University, Morgantown.

### Extension I: NCBA, "Meeting the Media"

Beef Check-Off Sponsored

Chair: J. T. Johns, University of Kentucky  
Tuesday 8:30 - 11:30  
Orange

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

## ANIMAL SCIENCE

### Physiology II

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

- 80 8:30 AM Antibody response in porcine colostrum with specificity to enterotoxigenic E. coli. J. Allen\* and A. Byers, North Carolina A&T State University, Greensboro.
- 81 8:45 AM Enterotoxigenic Escherichia Coli infections from neonatal swine. J. Allen\* and A. Byers, North Carolina A&T State University, Greensboro.
- 82 9:00 AM Validation of an automated tracking system to quantify overall activity and maintenance behaviors of individually housed nursery pigs. J. W. Dailey\*<sup>1</sup>, N. Krebs<sup>2</sup>, J. A. Carroll<sup>1</sup>, and J. J. McGlone<sup>2</sup>, <sup>1</sup>Livestock Issues Research Unit, Agricultural Research Service-USDA, Lubbock, TX, <sup>2</sup>Texas Tech University, Lubbock.
- 83 9:15 AM Photonic properties of transformed Salmonella typhimurium: Plasmid stability and concentration dependency. E. Williams\*<sup>1</sup>, K. Moulton<sup>1</sup>, D. Moore<sup>1</sup>, M. McGee<sup>1</sup>, F. Lovell<sup>1</sup>, S. Couvillion<sup>1</sup>, P. Ryan<sup>1</sup>, D. Lay<sup>2</sup>, and S. Willard<sup>1</sup>, <sup>1</sup>Mississippi State University, Mississippi State, <sup>2</sup>USDA-ARS, Livestock Behavior Research Unit, West Lafayette, IN.
- 84 9:30 AM Evaluation of non-nutrient additives as immunomodulators in nursery pigs. J. Carroll\*<sup>1</sup> and K. Haydon<sup>2</sup>, <sup>1</sup>Livestock Issues Research Unit, Agricultural Research Service-USDA, Lubbock, TX, <sup>2</sup>Prince Agri Products, Inc., Quincy, IL.

9:45 AM Break.

## ANIMAL SCIENCE

- 85 10:00 AM Reproduction in gilts fed a diet supplemented with a source of omega-3 polyunsaturated fatty acids. M. Estienne and A. Harper\*, Virginia Polytechnic Institute and State University, Blacksburg.
- 86 10:15 AM Training of young boars to mount an artificial sow and allow semen collection is expedited by treatment with Lutalyse. M. Estienne\*, A. Harper, and R. Crawford, Virginia Polytechnic Institute and State University, Blacksburg.
- 87 10:30 AM Bioluminescence imaging and hormonal profiles in late gestation ewes following intra-uterine inoculation with lux-modified Escherichia coli. K. Moulton\*<sup>1</sup>, S. Willard<sup>1</sup>, P. Ryan<sup>1</sup>, D. Christiansen<sup>1</sup>, C. Klauser<sup>2</sup>, and W. Bennett<sup>2</sup>, <sup>1</sup>Mississippi State University, Mississippi State, <sup>2</sup>University of Mississippi Medical School, Jackson.
- 88 10:45 AM Regulation of the GnRH receptor promoter by estradiol 17-B is revealed using adenoviral mediated gene transfer and cultured pituitary cells. C. A. Lents\*, J. D. Cantlon, T. M. Nett, and C. M. Clay, Colorado State University, Fort Collins.
- 89 11:00AM Efficacy of production drugs to assist in herd-health upgrades. D. Bishop\*<sup>1</sup> and T. Orban<sup>2</sup>, <sup>1</sup>Reproductive Design Services, Garland, NC, <sup>2</sup>Prestage Farms, Clinton, NC.

**Extension Luncheon**  
**Tuesday Noon - 2:00**  
**Oleander B**

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

## ANIMAL SCIENCE

- 90 1:00 PM Research examining seasonal shedding of E. coli O157:H7. T. Edrington\*, T. Callaway, K. Genovese, R. Anderson, and D. Nisbet, USDA-ARS Food and Feed Safety Research Laboratory, College Station, TX.
- 91 1:30 PM Does endophyte-infected tall fescue affect the prevalence of E. coli O157:H7 and Salmonella in the feces of ruminants? M. L. Looper\*<sup>1</sup>, T. S. Edrington<sup>2</sup>, R. Flores<sup>3</sup>, G. E. Aiken<sup>4</sup>, and C. F. Rosenkrans, Jr.<sup>3</sup>, <sup>1</sup>USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR, <sup>2</sup>USDA-ARS, Food and Feed Safety Research Unit, College Station, TX, <sup>3</sup>University of Arkansas, Fayetteville, <sup>4</sup>USDA-ARS, Forage-Animal Production Research Unit, Lexington, KY.
- Food borne pathogens associated with feedlot cattle.
- 2:00 PM Mindy Brashears, Texas Tech University.
- 2:30 PM Guy Lonergan, West Texas A&M University.
- 3:00 PM Roundtable discussion.
- Physiology III**  
Chair: Dr. Rhonda Vann,  
MAFES-Brown Loam Exp. Station  
Tuesday 1:00 - 4:45  
Marathon & Cedar
- 92 1:00 PM Effects of melengestral acetate (MGA) supplementation on pregnancy rate to artificial insemination in dairy heifers. D. Kreider\*, R. Rorie, C. Rosenkrans, W. Coblenz, and T. Lester, University of Arkansas, Fayetteville.
- 93 1:15 PM Line and sex association between postweaning serum insulin-like growth factor-I (IGF-I) concentrations and growth traits of Angus cattle

**ANIMAL SCIENCE**

- divergently selected for serum IGF-I concentration. M. Pagan\*<sup>1</sup>, M. E. Davis<sup>2</sup>, R. C. M. Simmen<sup>3</sup>, N. E. Raney<sup>4</sup>, and C. W. Ernst<sup>4</sup>, <sup>1</sup>University of Puerto Rico, Mayaguez, Puerto Rico, <sup>2</sup>The Ohio State University, Columbus, <sup>3</sup>University of Arkansas for Medical Sciences, Little Rock, <sup>4</sup>Michigan State University, East Lansing.
- 94 1:30 PM Line and sex association between serum insulin-like growth factor binding proteins (IGFBP) and growth traits of Angus cattle divergently selected for serum IGF-I concentration. M. Pagan\*<sup>1</sup>, M. E. Davis<sup>2</sup>, R. C. M. Simmen<sup>3</sup>, N. E. Raney<sup>4</sup>, and C. W. Ernst<sup>4</sup>, <sup>1</sup>University of Puerto Rico, Mayaguez, Puerto Rico, <sup>2</sup>The Ohio State University, Columbus, <sup>3</sup>University of Arkansas for Medical Sciences, Little Rock, <sup>4</sup>Michigan State University, East Lansing.
- 95 1:45 PM Effect of body condition on plasma concentrations of IGF-I in postpartum beef cows treated with somatotropin. M. J. Prado-Cooper\*, I. Rubio, M. P. Davis, N. M. Long, R. P. Wettemann, and L. J. Spicer, Oklahoma State University, Stillwater.
- 96 2:00 PM Effect of prenatal nutrition of calves on postpartum growth and plasma insulin and IGF-1. N. M. Long\*, M. P. Davis, M. J. Prado-Cooper, and R. P. Wettemann, Oklahoma Agricultural Experiment Station, Stillwater, OK.
- 2:15 PM Break.
- 97 2:30 PM Relationships of cattle temperament and physiologic responses to handling during typical management situations. K. O. Curley, Jr\*<sup>1</sup>, C. E. Schuehle Pfeiffer<sup>1</sup>, D. A. King<sup>1</sup>, J. W. Savell<sup>1</sup>, R. C. Vann<sup>2</sup>, T. H. Welsh, Jr.<sup>1</sup>, and R.

**ANIMAL SCIENCE**

- D. Randel<sup>3</sup>, <sup>1</sup>Texas Agricultural Experiment Station, College Station, TX, <sup>2</sup>Brown Loam Experiment Station, Raymond, MS, <sup>3</sup>Texas Agricultural Experiment Station, Overton, TX.
- 98 2:45 PM Relationship of temperament with immunization response and lymphocyte proliferation in Brahman bulls. R. Oliphint\*<sup>1</sup>, N. Burdick<sup>2</sup>, J. Laurenz<sup>2</sup>, K. Curley<sup>1</sup>, R. Vann<sup>3</sup>, R. Randel<sup>1</sup>, and T. Welsh<sup>1</sup>, <sup>1</sup>Texas Ag Experiment Station, Overton, TX, <sup>2</sup>Texas A&M University, Kingsville, <sup>3</sup>Mississippi State University, Brown Loam.
- 99 3:00 PM Relationships between heifer temperament indices and fecal immunoreactive corticoid determinations. M. McGee\*<sup>1</sup>, K. Curley<sup>2</sup>, R. Randel<sup>2</sup>, D. Neuendorff<sup>2</sup>, T. Welsh<sup>3</sup>, A. Musselwhite<sup>1</sup>, K. Kelly-Quagliana<sup>1</sup>, and S. Willard<sup>1</sup>, <sup>1</sup>Mississippi State University, Mississippi State, <sup>2</sup>Texas Agricultural Experiment Station, Overton, TX, <sup>3</sup>Texas Agricultural Experiment Station, College Station, TX.
- 100 3:15 PM Effects of parity and once daily suckling on follicular dynamics in postpartum Brahman. J. Ramirez III\*, D. A. Neuendorff, A. W. Lewis, and R. D. Randel, Texas Agricultural Experiment Station, Overton, TX.
- 101 3:30 PM Effects of early and late fall calving on reproductive performance and weaning weights of calves. M. P. Davis\*, D. W. Kastner, I. Rubio, N. M. Long, and R. P. Wettemann, Oklahoma Agricultural Experiment Station, Stillwater, OK.
- 3:45 PM Break.

## ANIMAL SCIENCE

- 102 4:00 PM Effectiveness of CIDR-based estrous synchronization systems for natural service and AI in replacement heifers. J. B. Hall\*, W. D. Whittier, J. C. Wuenschel, and R. Kasimanickam, Virginia Tech, Blacksburg.
- 103 4:15 PM Effectiveness of Estrumate vs. Prostamate in GnRH/CIDR + PG synchronization protocols in lactating Bos taurus x Bos indicus beef cows. R. Esterman\*, B. Austin, S. Woodall, and J. Yelich, University of Florida, Gainesville.
- 104 4:30 PM Evaluation of follicular development in Brangus and Angus heifers receiving a 14 d melengestrol acetate (MGA®) treatment with PG 19 d later. S. Woodall\*, B. Austin, R. Esterman, and J. Yelich, University of Florida, Gainesville.

### Ruminant Animal Production II: Growth and End Product

Chair: Jerry Spears, North Carolina  
State University  
Tuesday 1:00 - 5:00  
Tangerine B

- 105 1:00 PM Tall fescue type effect on backgrounded calf health and performance. C. Pickworth\*, G. Scaglia, W. Swecker, J. Fontenot, M. Wahlberg, and O. Abaye, Virginia Tech, Blacksburg.
- 106 1:15 PM Effect of hay quality on performance of growing beef calves limit fed total mixed rations. P. Beck\*, S. Hutchison, B. Stewart, S. Gunter, and M. Phillips, University of Arkansas, Hope.
- 107 1:30 PM Effect of applying ammonia or fibrolytic enzymes to bermudagrass hay on feed intake, digestion kinetics and growth of beef steers. N. K. Krueger\*, A. T. Adesogan, C. R. Staples, W. K. Krueger, L. E. Sollenberger, and R. C. Littell, University of Florida, Gainesville.

## ANIMAL SCIENCE

- 108 1:45 PM Winter rye pasture based production programs for growing beef cattle. K. Hales\*<sup>2</sup>, E. Whitley<sup>1</sup>, and G. Horn<sup>2</sup>, <sup>1</sup>The Noble Foundation, Ardmore, OK, <sup>2</sup>Oklahoma Agricultural Experiment Station, Stillwater, OK.
- 109 2:00 PM Effects of feeding molasses based supplements on the performance of calves in a preconditioning program. B. Austin\*, M. Hersom, and T. Thrift, University of Florida, Gainesville.
- 110 2:15 PM Corn gluten feed as a diet ingredient for Senepol- or Angus-sired finishing steers. M. Poore\*, J. Cassady, and G. Benson, North Carolina State University, Raleigh.
- 111 2:30 PM Pigeon pea digestibility and utilization by growing beef calves. G. M. Hill\*, S. C. Phatak, and B. G. Mullinix, Jr., University of Georgia, Tifton.
- 112 2:45 PM Effects of supplemental energy source on adipose tissue accretion in stocker steers grazing ryegrass pastures. E. K. Bumpus\*<sup>1</sup>, J. E. Sawyer<sup>1</sup>, T. D. A. Forbes<sup>2</sup>, B. G. Warrington<sup>2</sup>, and J. W. Holloway<sup>2</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas Agricultural Experiment Station, Uvalde, TX.
- 113 3:00 PM Selenium, zinc, and copper status in growing cattle grazing winter pasture on the Coastal Plain. S. A. Gunter\*<sup>1</sup>, J. W. Finley<sup>2</sup>, C. B. Stewart<sup>1</sup>, S. Hutchison<sup>1</sup>, and P. A. Beck<sup>1</sup>, <sup>1</sup>University of Arkansas, Hope, <sup>2</sup>USDA-ARS Grand Forks Human Nutrition Laboratory, Grand Forks, ND.
- 114 3:15 PM An evaluation of breeding soundness exam administration on subsequent ultrasound body composition traits in yearling beef bulls. R. C. Vann\*<sup>1</sup>, J. A. Parish<sup>2</sup>, W. B. McKinley<sup>2</sup>, B. J. White<sup>2</sup>, and S. T. Willard<sup>2</sup>, <sup>1</sup>MAFES-

## ANIMAL SCIENCE

Brown Loam Experiment Station,  
Raymond, MS, <sup>2</sup>Mississippi State  
University, Mississippi State.

- 115 3:30 PM Use of blood metabolites at weaning as predictors of beef carcass traits. Z. Johnson<sup>1</sup>, J. May<sup>1</sup>, R. Dollar<sup>1</sup>, C. Golden<sup>1</sup>, M. Nihsen<sup>1</sup>, K. May<sup>2</sup>, M. Looper<sup>3</sup>, and C. Rosenkrans, Jr.\*<sup>1</sup>, <sup>1</sup>University of Arkansas, Fayetteville, <sup>2</sup>Caldwell Farms, Rosebud, AR, <sup>3</sup>USDA-ARS, Dale Bumpers Small Farms Research Center, Booneville, AR.
- 116 3:45 PM Effects of different growing systems on rate of accretion of intramuscular and subcutaneous adipose tissue in feedlot cattle. J. T. Vasconcelos\*<sup>1,3</sup>, J. E. Sawyer<sup>1</sup>, L. W. Greene<sup>2</sup>, F. T. McCollum<sup>3</sup>, and S. B. Smith<sup>1</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Auburn University, Auburn, AL, <sup>3</sup>Texas A&M University Agricultural Research and Extension Center, Amarillo, TX.
- 117 4:00 PM Evaluation of feeder calf grade, background information and health status on feedlot weight gain and carcass traits of calves fed in South Texas. D. W. Groeschke<sup>1</sup>, A. D. Herring\*<sup>1</sup>, J. E. Sawyer<sup>1</sup>, and J. C. Paschal<sup>1,2</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas Cooperative Extension, Corpus Christi.
- 118 4:15 PM Use of ultrasound in combination with calf background information to predict beef carcass traits. D. T. Dean<sup>1</sup>, A. D. Herring\*<sup>1</sup>, J. E. Sawyer<sup>1</sup>, and D. S. Hale<sup>2,1</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>Texas Cooperative Extension, College Station.
- 119 4:30 PM Growing program, breed, and gender influence ultrasound-based prediction accuracy for carcass marbling and fat thickness in crossbred beef cattle. J.

## ANIMAL SCIENCE

E. Sawyer\*<sup>1</sup>, A. D. Herring<sup>1</sup>, D. K. Lunt<sup>1,2</sup>, D. T. Dean<sup>1</sup>, R. D. Rhoades<sup>1</sup>, and D. G. Riley<sup>3</sup>, <sup>1</sup>Texas A&M University, College Station, <sup>2</sup>McGregor Agricultural Research Center, McGregor, TX, <sup>3</sup>USDA Subtropical Agricultural Research Station, Brooksville, FL.

- 120 4:45 PM Meta analysis of residual feed intake with and without adjustment for carcass composition in growing and finishing calves. E. G. Brown\*<sup>1</sup>, L. O. Tedeschi<sup>1</sup>, G. E. Carstens<sup>1</sup>, P. A. Lancaster<sup>1</sup>, D. G. Fox<sup>2</sup>, T. D. A. Forbes<sup>1</sup>, R. D. Randel<sup>1</sup>, T. H. Welsh<sup>1</sup>, and F. M. Rouquette<sup>1</sup>, <sup>1</sup>Texas Agricultural Experiment Station, College Station, TX, <sup>2</sup>Cornell University, Ithaca, NY.

### Extension II

Chair: J. D. Arthington, University of Florida  
Tuesday 2:15 - 4:15  
Siesta/Biscayne

- 121 2:15 PM Combining internet course work with practical experience for the training of new agents in animal science curriculum. T. R. Troxel\*, B. L. Barham, M. S. Gadberry, S. M. Jones, J. A. Jennings, J. G. Powell, B. R. Kutz, J. T. Richeson, and R. Poling, University of Arkansas Cooperative Extension Service, Little Rock.
- 122 2:30 PM Extension mediated disaster relief response to beef cattle producers stricken by hurricanes katrina and rita. J. Rowntree\*<sup>1</sup>, J. Parish<sup>2</sup>, and W. McKinley<sup>2</sup>, <sup>1</sup>Louisiana State University Agricultural Center, Baton Rouge, <sup>2</sup>Mississippi State University, Mississippi State.
- 123 2:45 PM Assessing injectable mineral regimens for feeder cattle. A. E. Fisher, W. W. Gill\*, C. D. Lane, F. M. Hopkins, and R. L. Ellis, University of Tennessee, Knoxville.

## ANIMAL SCIENCE

- 124 3:00 PM Evaluation of Co-Ral Plus fly tagging system. A. E. Fisher, C. D. Lane\*, W. W. Gill, F. M. Hopkins, F. D. Kirkpatrick, and R. L. Ellis, University of Tennessee, Knoxville.
- 125 3:15 PM Evaluation of body condition scores of cows wintered with a stockpiled bermudagrass + ryegrass system or traditional hay only system. J. Cleere\*<sup>1</sup>, L. Redmon<sup>1</sup>, and G. Evers<sup>2</sup>, <sup>1</sup>Texas Cooperative Extension, College Station, TX, <sup>2</sup>Texas Agricultural Experiment Station, Overton.
- 126 3:30 PM Characterization of Alabama feeder cattle through the Alabama beef connection program. J. Elmore and L. Kriese-Anderson\*, Auburn University, Auburn, AL.
- 127 3:45 PM Factors affecting the sale price of pregnant beef heifers in the Georgia H.E.R.D program. J. E. Rossi\*, R. C. Lacy, T. W. Wilson, M. E. Pence, and B. G. Mullinix, University of Georgia, Tifton.
- 128 4:00 PM Distance education for multi-state beef cattle extension programming. J. Parish\*<sup>1</sup>, W. McKinley<sup>1</sup>, S. Seal<sup>1</sup>, J. Rowntree<sup>2</sup>, and L. Kriese-Anderson<sup>3</sup>, <sup>1</sup>Mississippi State University, Mississippi State, <sup>2</sup>Louisiana State University Agricultural Center, Baton Rouge,, <sup>3</sup>Auburn University, Auburn, AL.
- 129 4:15 PM Computer use by Tennessee cattle producers. J. B. Neel\*, A. E. Fisher, C. D. Lane, W. W. Gill, F. D. Kirkpatrick, and A. J. Rhea, University of Tennessee, Knoxville.
- 130 4:30 PM Group marketing beef calves from small producers in Georgia: A startup experience. B Freeman\*<sup>2</sup> and W. R. Getz<sup>1</sup>, <sup>1</sup>Fort Valley State University, Fort Valley, GA, <sup>2</sup>ABS Global, DeForest, WI.

## 103<sup>rd</sup> Annual Meeting of the Southern Association of Agricultural Scientists

### BIOCHEMISTRY and BIOTECHNOLOGY Division

The Azalea B Room, Wyndham Orlando Resort  
Orlando, FL, February 6, 2006

- 8:55** Introductory Remarks –  
Dr. Jeff Boles, President  
Dr. SK Ballal, Program Chair and Journal Editor
- 9:00** “Molecular Coordination of Metabolism by Glutamate Dehydrogenase.” Goodson Osuji, CARC, Prairie View A&M, Prairie View, Texas 77446
- 9:45** “An Economic Method for Purifying Extension Products after DNA Sequencing Reaction” Andy Chen, USDA-ARS, Knipping-Bushland U.S. Livestock Insects Research Laboratory, Kerrville, Tx 78028
- 10:30** “Behavioral Monitoring of Insects for Chemical Detection” Glen Rains, Biological and Agricultural Engineering Department, Faculty of Engineering, University of Georgia, Tifton, Ga 31793
- 11:15** “Plant Seed Storage Proteins” Caryl Chlan, Department of Biology, UL Lafayette, Lafayette, LA 70504-2451
- 11:45 – 1:00 Lunch Break**
- 1:00** “Metal Accumulation in the Medicinal Plant Hypericum Perforatum” Tera Michelle Sirvent, Department of Chemistry, University of West Florida, Pensacola, FL 32514
- 1:45** “Meiotic Chromosomes in 3D: Structure and Function.” Hank W. Bass, Department of Biological Science, Biology Unit 1, Chieftan Way, Florida State University, Tallahassee, FL 32306-4370
- 2:30** “Arsenic in Soil: Mechanisms of Treatment and in situ Removal by Electrokinetic Techniques” Danuta Leszczynska, FAMU-FSU College of Engineering, Department of Civil and Environmental Engineering, Florida State University, Tallahassee, FL 32310

## BIOCHEMISTRY and BIOTECHNOLOGY

- 3:15** "A Novel Transposable Element Identified in a Computerized Survey of the Rice Genome."  
Todd C. Wood, Bryan College, Dayton, TN 37321
- 4:00** "Antibiotic Resistance and Lead-tolerance in Bacteria from a Cattle Farm and a Chat Pile"  
James E. Champine, Department of Biology, Southeast Missouri State University, Cape Girardeau, MO 63701
- 4:45** **Closing Remarks**

## Southern Region American Society for HORTICULTURAL SCIENCE 66th Annual Meeting

Orlando, Florida  
Wyndham Orlando Resort  
February 4 - 6, 2006

### SOUTHERN REGION OFFICERS

Dr. David Wm. Reed, President  
Department of Horticultural Science  
Texas A&M University  
College Station, Texas 77843-2133

Dr. D. Scott NeSmith, President-Elect  
Department of Horticulture  
University of Georgia-Griffin Campus  
1109 Experiment Street  
Griffin, Georgia 30223-1797

Dr. Paul L. Smeal, Secretary-Treasurer  
1107 Kentwood Drive, SE  
Blacksburg, Virginia 24060-5656

### SECTION

Education  
Extension  
Floriculture,  
Ornamentals & Turf  
Fruit Crops  
Posters  
Postharvest/Biotech./  
Plant Biology  
Vegetable Crops  
Collegiate Branch  
Graduate Students

### CHAIRPERSON

Cynthia McKenney, TX  
Winston Dunwell, KY  
John Ruter, GA  
James Ballington, NC  
David Creech, TX  
William Klingeman, TN  
William Evans, MS  
Dan Lineberger, TX  
D.Scott NeSmith, GA

### COMMITTEES

Executive  
Nominations  
Membership

### CHAIRPERSON

James Ballington, NC  
John Clark, AR  
Paul Smeal, VA



## HORTICULTURAL SCIENCE

### AWARD SELECTION

#### COMMITTEES

J. Creighton Miller, Jr.  
Distinguished Educator

Julian C. Miller, Sr.  
Distinguished Research

Henry Covington Extension

John E. Hutchinson Young

Extension Professional

Excellence in Doctoral

Research & Writing

Leadership & Administration

Extension Publication

Awards

Outstanding Club Award

#### CHAIRPERSON

Joe Eakes, AL

John Clark, AR

David Henley, AR

William T. Kelley

Stuart Warren, NC

Regina Bracy, LA

Jeanine Davis, NC

Kim Pittcock, AR

### SPECIAL EVENTS AND SESSIONS

Wyndham Orlando Resort  
Orlando, Florida

#### SATURDAY, FEBRUARY 4, 2006

8:00 am - 6:00 pm

**Registration** - Paul Smeal

Wyndham Orlando Resort Lobby

8:00 am - 5:00 pm

**National Sweet Potato Collaborators**

Presiding: Mark Shankle

Room: Palms Ballroom C/D

8:00 am - 5:00 pm

**Pecan Research and Extension Forum**

Presiding: Lenny Wells

Room: Palms Ballroom Salon F

8:00 am - 5:00 pm

**Southern Blueberry/Small Fruit Workers**

Presiding: John Basswell

Room: Palm Ballroom Salon G

9:30 am - 11:30 pm

**ACB Program, Share Club Activities and Refreshments**

Presiding: Michael Boyd, President

Room: Palm Ballroom Salon H

12:00 noon

**ACB Group Lunch**

## HORTICULTURAL SCIENCE

1:00 pm - 5:00 pm

**Horticulture Administrators**

Presiding: Julia Kornegay

Room: Executive Boardroom

1:00 pm - 5:00 pm

**Master Gardener & Consumer Horticulture**

Chairperson: Tom Wichman

Room: Largo

1:00 pm - 4:30 pm

**ACB Activities**

TBA

4:30 pm - 5:30 pm

**ACB Reception**

Location TBA

5:00 pm - 6:00 pm

**Southern Region - ASHS Executive Meeting**

Presiding: James Ballington

Room: Executive Boardroom

#### SUNDAY, FEBRUARY 5, 2006

7:00 am - 6:00 pm

**Registration** - Paul Smeal

Palms Ballroom Foyer

8:00 am - 5:00 pm

**National Sweet Potato Collaborators**

Presiding: Mark Shankle

Room: Palms Ballroom C/D

8:00 am - noon

**Vigna Crop Germplasm Committee**

Presiding: Richard Fery

Room: Lime

8:00 am - noon

**Extension Section**

Presiding: Winston Dunwell

Room: Cocoa

8:00 pm - 5:00 pm

**Watermelon Research Group**

Presiding: Benny D. Bruton

Room: Palms Ballroom Salon A

## HORTICULTURAL SCIENCE

8:00 am - 10:00 am

### **J. B. Edmond Undergraduate Student Paper Competition**

Presiding: Michael Boyd, ACB President and David Reed, SR-ASHS President

Room: Palms Ballroom Salon F

10:00 pm - noon

### **Warren S. Barham Graduate PhD Student Paper Competition**

Presiding: D. Scott NeSmith

Room: Palms Ballroom Salon F

1:00 pm - 5:00 pm

### **Norman F. Childers Graduate MS Student Paper Competition**

Presiding: D. Scott NeSmith

Room: Palms Ballroom Salon F

1:00 pm - 5:00 pm

### **National Cowpea Improvement Association**

Presiding: Lynn Bradenberger

Room: Lime

1:00 pm - 5:00 am

### **Education Section**

Presiding: Cynthia McKenney

Room: Largo

7:00 am - noon

### **J. Benton Storey Student Judging Contest Setup**

Room: Palms Ballroom Salon E

1:00 pm - 3:00 pm

### **J. Benton Storey Undergraduate Student Horticulture Judging Contest**

Presiding: ACB Officers

Room: Palms Ballroom Salon E

9:00 am - noon

### **Set up Posters**

4:00 pm - 6:00 pm

### **Poster Session - Authors at Posters**

Presiding: David Creech

Room: Palms Ballroom Salon E

## HORTICULTURAL SCIENCE

4:00 – 6:00 pm

### **Southern Association of Agricultural Scientists General Session - Room: Orange & Lemon "The Future of Animal Agriculture in North America"**

7:00 pm

### **SAAS Reception**

Room: East Pool Pavilion

**MONDAY, FEBRUARY 6, 2006**

7:00 am - 10:00 am

### **Registration - Paul L. Smeal** Palms Ballroom Foyer

8:00 am - 10:45 am

### **Vegetable Crops Section**

Chairperson: Bill Evans

Room: Palms Ballroom Salon D

8:00 am - 10:45 am

### **Fruit Crops Section**

Chairperson: James Ballington

Room: Marathon & Cedar

8:00 am - 10:45 am

### **Floriculture, Ornamentals and Turf Section**

Chairperson: John Ruter

Room: Largo

8:30 am - 10:45 am

### **Postharvest/Biotechnology/Plant Biology Section**

Chairperson: Bill Klingeman

Room: Clearwater

9:00 am - 10:30 am

### **ACB Business Meeting**

Presiding: Michael Boyd, ACB President

Room: Lemon

11:00 am - 12:15 pm

### **SOUTHERN REGION ANNUAL BUSINESS MEETING & AWARD PROGRAM**

Presiding: David Reed, President

Room: Lemon

1:30 pm – 5:00 pm

### **Vegetable Crops Section**

Chairperson: Bill Evans

Room: Palms Ballroom Salon D

## HORTICULTURAL SCIENCE

1:30 pm – 5:00 pm

### Fruit Crops Section

Chairperson: James Ballington  
Room: Marathon & Cedar

1:30 pm – 3:00 pm

### Floriculture, Ornamentals and Turf Section

Chairperson: John Ruter  
Room: Largo

## PROGRAM

**SUNDAY, FEBRUARY 5, 2006**

### J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Palms Ballroom Salon F  
Presiding: Mr. Michael Boyd, Southern Region - ASHS ACB President and Dr. David Reed, Southern Region - ASHS President

Abstracts must be electronically submitted as attachment to Dr. Dan Lineberger,  
(dan-lineberger@tamu.edu)

#### 8:00 am

Order of presentation will be determined by a drawing at beginning of contest.

1. In Vitro Shoot Proliferation of *Encyclia tampensis* (Lind.) Orchids. Monica Haddix, Department of Natural Resources and Environmental Design, North Carolina A&T State University 1601 E. Market Street, Greensboro, NC 27411
2. Determining Optimum Distance for Cross-Pollination of Pecan. Jana Morris, Oklahoma State University, Dr. Mike W. Smith, Regents professor, Oklahoma State University, Stillwater, OK 74078, Tim Montz, Montz Pecan Orchard, Charlie TX.
3. Adventitious Shoot Propagation and Cultural Inputs on Nursery Production of a Primocane-Fruiting Blackberry Selection. Kimberly Dennis, John R. Clark, and James R. Robbins, Dept. of Horticulture, 316 Plant Science, University of Arkansas, Fayetteville, AR 72701
4. Directions for Future Extension in Horticulture. Jessica Behrens, Department of Horticultural Sciences, University of Florida, Gainesville, FL 32611-0690.

## HORTICULTURAL SCIENCE

### WARREN S. BARHAM PH.D. GRADUATE STUDENT PAPER COMPETITION

Room: Palms Ballroom Salon F  
Presiding: D. Scott NeSmith, President-elect, Southern Region-ASHS

Abstracts must be electronically submitted as attachment to D. Scott NeSmith  
(snesmith@griffin.uqa.edu)

#### 10:00 am

Order of presentation will be determined by a drawing at beginning of contest.

1. Phenolic composition and antioxidant activity in sweetpotato root and leaf tissues at different developmental stages. Malkeet S. Padda\* and David H. Picha, Dept. of Horticulture, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (mpadda1@lsu.edu)
2. Fate and Movement of NO<sub>3</sub>-N as a Result of Staged Leaching Irrigation Events and Fertilizer Source During Potato Production in Northeast Florida. Christine M. Worthington\* and Chad M. Hutchison, University of Florida, Plant Science Research and Education Unit, P.O. Box 728, Hastings, FL 32145. (CMWorthington@ifas.ufl.edu)
3. Development of a genetic linkage map in sweetpotato based on AFLP markers and QTL analysis of economically important traits. Jim Cervantes-Flores\*, Byron Sosinski, Albert Kriegner, Ken Pecota, Maria Roldan, and Craig Yencho, Dept. of Horticultural Science, North Carolina State University, Campus Box 7609, Raleigh, NC 27695-7609. (jccervan@ncsu.edu)

### NORMAN F. CHILDERS M.S. GRADUATE STUDENT PAPER COMPETITION

Room: Palms Ballroom Salon F  
Presiding: D. Scott NeSmith, President-elect, Southern Region-ASHS

Abstracts must be electronically submitted as attachment to D. Scott NeSmith  
(snesmith@griffin.uqa.edu)

#### 1:00 pm

Order of presentation will be determined by a drawing at beginning of contest.

## HORTICULTURAL SCIENCE

1. Effects of Post-application Halosulfuron-methyl at Various Percents of Coverage on Watermelon. Peter J. Dittmar\*, David W. Monks, and Jonathan R. Schultheis, Dept. of Horticultural Science, North Carolina State University, Campus Box 7609, Raleigh, NC 27695-7609. ([pjdittma@ncsu.edu](mailto:pjdittma@ncsu.edu))
2. Transplanting and Organic Mulch Affect Gas Exchange and Growth of Field Grown Red Oak (*Quercus shumardii* Buckli). Amber Bonds\* and Thayne Montague, Dept. of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122 ([thayne.montague@ttu.edu](mailto:thayne.montague@ttu.edu))
3. Reproductive Behavior of Diploid and Allotetraploid Azaleadendrons. Ryan N. Contreras\* and Thomas G. Ranney, Dept. of Horticultural Science, North Carolina State University, Fletcher, NC 28732 ([Ryan\\_Contreras@ncsu.edu](mailto:Ryan_Contreras@ncsu.edu))
4. Influence of Substrates on Rooting *Clematis socialis* Stem Cuttings. Connie N. Johnson\*, D.J. Eakes, A.N. Wright, J.L. Sibley, and L.L. Bruner, Dept. of Horticulture, 101 Funchess Hall, Auburn University, AL 36849. ([johncn@auburn.edu](mailto:johncn@auburn.edu))

### EXTENSION SECTION

Room: Cocoa

Presiding: Winston Dunwell, Extension Section Chair  
Abstracts must be electronically submitted as attachment to Winston Dunwell  
([wdunwell@uky.edu](mailto:wdunwell@uky.edu))

8:00 am GardenData.org, an Interactive FAQ database for Consumer Horticulture. Richard E. Durham\* ([rdurham@uky.edu](mailto:rdurham@uky.edu)) and Winston C. Dunwell, Department of Horticulture, University of Kentucky, N-318 Agricultural Science Building North, Lexington, KY 40546-0091

8:20 am Report on the Consumer Horticulture Forum: National extension programming in consumer horticulture through eXtension, Master Gardeners and other efforts. Richard E. Durham\*, ([rdurham@uky.edu](mailto:rdurham@uky.edu)) Department of Horticulture, University of Kentucky N-318 Agricultural Science Building North Lexington, KY 40546-0091 and Mary H. Meyer, Department of Horticulture, University of Minnesota

## HORTICULTURAL SCIENCE

8:40 am Bilingual Fresh Produce Food Safety Education in NC. Doug Sanders\* ([doug\\_sanders@ncsu.edu](mailto:doug_sanders@ncsu.edu)), Luz Reyes, Dennis Osborne, and Darrell Blackwelder, North Carolina State University

9:00 am Extension Fulfilling a Niche: A New Horticulture Course in South Florida. Adrian Hunsberger, Marguerite Beckford, and Henrique Mayer\* ([HMayer@ifas.ufl.edu](mailto:HMayer@ifas.ufl.edu)) University of Florida/IFAS Miami-Dade County Extension Service, 18710 SW 288 St. Homestead, FL 33030-2309

9:20 am Fire Ants Have Met Their Match: The Establishment of a Decapitating Phorid Fly in South Florida. Adrian Hunsberger\* ([AGHU@mail.ifas.ufl.edu](mailto:AGHU@mail.ifas.ufl.edu)), and Ruben Regalado, University of Florida/IFAS Miami-Dade County Extension Service, 18710 SW 288 St. Homestead, FL 33030-2309

9:40 am Using a Consumer Herb Gardening Study to Determine Program and Publication Needs. Lelia Scott Kelly\* ([leliak@ext.msstate.edu](mailto:leliak@ext.msstate.edu)), North Mississippi Research & Extension Center, PO Box 1690, Verona, MS 38879

10:00 am Teaching Master Gardeners How to Apply IPM Principles. Mary Lamberts\* ([lamberts@ifas.ufl.edu](mailto:lamberts@ifas.ufl.edu)) and Adrian Hunsberger, University of Florida/IFAS Miami-Dade County Extension Service, 18710 SW 288 St. Homestead, FL 33030-2309

10:20 am Sustainable Nursery Production Practices Extension Programs: IPM and BMP. Amy Fulcher, Dava Hayden and Winston Dunwell\* ([wdunwell@uky.edu](mailto:wdunwell@uky.edu)), University of Kentucky, P.O. Box 469, Princeton, KY 42445-0469

10:40 am CSREES - Your National Partner. James L. Green\* ([jgreen@csrees.usda.gov](mailto:jgreen@csrees.usda.gov)), National Program Leader - Horticulture, Cooperative State Research, Education, and Extension Service, USDA, 800 9<sup>th</sup> Street SW, Washington, DC 20250

11:00 am SRASHS Extension Program for 2007 67<sup>th</sup> Annual Meeting. Dr. John Braswell\*, ([braswell@ext.msstate.edu](mailto:braswell@ext.msstate.edu)), South MS Branch Expt Station, Mississippi State University-Coastal Research and Extension Center, P.O. Box 193, Poplarville, MS 39470

## HORTICULTURAL SCIENCE

### EDUCATION SECTION

Room: Largo

Presiding: Curt Rom

Abstracts must be electronically submitted as attachment to Dr. Cynthia McKenney, ([c-mckenney@tamu.edu](mailto:c-mckenney@tamu.edu))

1:00 pm The next generation of scientists is inspired at an early age. E.B. Peffley and C. S. Davis Dept. of Plant & Soil Science and the Dept of Ag Ed and Communication, Texas Tech University, Lubbock, TX 79409: ([ellen.peffley@ttu.edu](mailto:ellen.peffley@ttu.edu))

1:15 pm Teacher Immediacy/More Positive Classroom Experience for Students. Marihelen Glass, Ph.D. CPH. Dept. of Natural Resources and Environmental Design, North Carolina A&T State University, Greensboro, NC 27411: ([glassm@ncat.edu](mailto:glassm@ncat.edu))

1:30 pm Creation of a virtual M.S. Non-thesis program in Horticulture. C.B. McKenney, Dept. of Plant & Soil Science, Texas Tech University, Lubbock, TX 79409 and Dept. of Horticulture Sciences, Texas A&M University, College Station, TX 77843: ([c-mckenney@tamu.edu](mailto:c-mckenney@tamu.edu))

1:45 pm Using the community to teach plant materials - a real world study in plant identification. Allan Armitage. Dept. of Horticulture, University of Georgia, Athens, GA 30602: ([armitage@uga.edu](mailto:armitage@uga.edu))

### POSTERS

Room: Palms Ballroom Salon E

Presiding: David Creech

9:00 am - noon Set up Posters.

4:00 pm - 6:00 pm Poster Session - Authors at Posters

Posters should be in place by noon Sunday and remain until noon Monday, following the annual Business Meeting.

Abstracts must be electronically submitted as attachment to Dr. David Creech, ([dcreech@sfasu.edu](mailto:dcreech@sfasu.edu))

Graduate and Undergraduate posters for awards will be identified after posting.

## HORTICULTURAL SCIENCE

1. Study of the Origins and Spread of the Sweetpotato Weevil in the US Using rDNA Sequences. Megan Ulmer<sup>1</sup>, Regina Ali<sup>1</sup>, Conrad Bonsi<sup>2</sup>, Louis Jackai<sup>2</sup>, and Bryon Sosinski<sup>1</sup>. <sup>1</sup>NC State University Department of Horticultural Science, Campus Box 8619, Raleigh NC 27695, <sup>2</sup>Department of Agricultural and Environmental Sciences, Tuskegee University, 200-B Campbell Hall, Tuskegee AL 36088 ([sosinski@ncsu.edu](mailto:sosinski@ncsu.edu))

2. Quantitative Descriptive Analysis Methodology for the Determination of the Optimum Month for the Consumption of Edible Daylilies (*Hemerocallis* spp.) Ashley Pollard, Food Science, Nutrition and Health Promotion Department, Mississippi State University, P.O. Box 9805, Mississippi State, MS 39762 ([ashleypollard@yahoo.com](mailto:ashleypollard@yahoo.com))

3. Juice Yields of Sweet Potato Cultivars. Jovy Duran, Food Science, Nutrition and Health Promotion Department, Mississippi State University, P.O. Box 9805, Mississippi State, MS 39762 ([jovyduran@hotmail.com](mailto:jovyduran@hotmail.com))

4. Grafting of Triploid Watermelon on Squash and Gourd Rootstock. K. Cushman, J. Huan, L. Cushman, K. Armbruster Southwest Florida Research & Education Center - UF/IFAS 2686 SR 29 N, Immokalee FL 34142-9515. ([kecushman@ifas.ufl.edu](mailto:kecushman@ifas.ufl.edu))

5. Squash Production and Organic Weed Control. Charles L. Webber III, USDA, and James W. Shrefler, P.O. Box 159, Oklahoma State University, Lane, OK 74555 ([cwebber-usda@lane-ag.org](mailto:cwebber-usda@lane-ag.org))

6. Effect of rotation, tillage and production management on vegetable yields. Greg D. Hoyt, Dept. of Soil Science, NCSU, 455 Research Drive, Fletcher, NC 28732 ([greg\\_hoyt@ncsu.edu](mailto:greg_hoyt@ncsu.edu))

7. Improvement, Propagation and Use of Taxodium in Southeastern China. D. Creech<sup>1</sup> and Yin Yunlong<sup>2</sup>. <sup>1</sup>SFA Mast Arboretum, PO Box 13000, Stephen F. Austin State University, Nacogdoches, TX 75962-3000; <sup>2</sup>Nanjing Botanical Garden, PO Box 1435, Nanjing, 21104, China. ([dcreech@sfasu.edu](mailto:dcreech@sfasu.edu))

## HORTICULTURAL SCIENCE

8. Mandated Vidalia Onion Variety Trials; How well has it worked? George Boyhan, William M. Randle, Anna V. Resurreccion, Robert Shewfelt, Reid L. Torrance, Ronald H. Blackley Jr., M. Jefferson Cook, Heath Paradise, C. Randell Hill, and J. Thad Paulk. University of Georgia, Department of Horticulture, East Georgia Extension Center, PO Box 8112, GSU, Statesboro, GA 30460. ([gboyhan@uga.edu](mailto:gboyhan@uga.edu)).

9. Mississippi State University's Research and Education Efforts to Increase Nursery Mechanization across the Gulf South. Christine Coker, Patricia Knight, Ben Posadas, Scott Langlois, and Randy Coker, Mississippi State University, Coastal Research and Extension Center, 1815 Popps Ferry Road, Biloxi, MS 39532 ([cocker@ra.msstate.edu](mailto:cocker@ra.msstate.edu))

10. Testing anti-fungal competency of natural compounds against some post harvest pathogens using the disc assay method. J. Narciso, E. Baldwin and A. Plotto, USDA/ARS, Citrus and Subtropical Products Laboratory, 600 Ave. S, NW, Winter Haven, FL 33881. ([jan@citrus.usda.gov](mailto:jan@citrus.usda.gov))

11. Microsatellite markers for verifying parentage of pecans. LJ Grauke<sup>1</sup>, Maria Azucena Mendosa-Herrera<sup>1</sup>, Carol Loopstra<sup>2</sup> and Tommy E. Thompson<sup>1</sup>. USDA-ARS Pecan Breeding & Genetics. 10200 FM 50, Somerville, TX 77879; <sup>2</sup>Institute for Plant Genomics & Biotechnology, Texas A&M University, 2123 TAMU, College Station, TX 77843-2123. ([lig@tamu.edu](mailto:lig@tamu.edu))

12. Evaluation of Commercial Banana Cultivars in South Georgia for Ornamental and Nursery Production. Gerard Krewer<sup>1</sup>, Esendugue Greg Fonsah<sup>2</sup>, Mark Rieger<sup>3</sup>, Richard Wallace<sup>4</sup> and David Linvill<sup>5</sup>; <sup>1,2</sup> Depts. of Hort. and Ag & Applied Economics, Univ. of Ga., POB 1209, Tifton, Ga. 31793; <sup>3</sup>Dept. of Hort. Univ. of Ga., Miller Plant Science Building, Athens, Ga. 30602; <sup>4</sup> Dept. of Chemistry and Physics, Armstrong Atlantic State University, Savannah, GA 31419; <sup>5</sup> UGA Chatham County Extension Service, Savannah, GA 31419 ([gkrewer@uga.edu](mailto:gkrewer@uga.edu))

13. Abscisic acid drenches improve post-production shelf life of impatiens. James L. Gibson and Shannon Crowley, West Florida Research and Education Center, Institute of Food and Agricultural Sciences, Milton Campus, 5988 Highway 90, Building 4900, Milton, FL 32583 ([jl Gibson@ifas.ufl.edu](mailto:jl Gibson@ifas.ufl.edu))

## HORTICULTURAL SCIENCE

14. Nutrient deficiencies of *Pentas lanceolata* 'Butterfly Red.' James L. Gibson, Jude Groninger, and Sharon Wombles, West Florida Research and Education Center, Institute of Food and Agricultural Sciences, Milton Campus, 5988 Highway 90, Building 4900, Milton, FL 32583 ([jl Gibson@ifas.ufl.edu](mailto:jl Gibson@ifas.ufl.edu))

15. Nutrient deficiencies of *Allamanda nerifolia*. James L. Gibson, Jude Groninger, Sharon Wombles, and Katherine Campbell; James L. Gibson, West Florida Research and Education Center, Institute of Food and Agricultural Sciences, Milton Campus, 5988 Highway 90, Building 4900, Milton, FL 32583. ([jl Gibson@ifas.ufl.edu](mailto:jl Gibson@ifas.ufl.edu))

16. Herbicide Use in Hardy Ferns. Glenn B. Fain, USDA-ARS Southern Horticultural Laboratory, P.O. Box 287, 810 Hwy 26 West, Poplarville, MS 39470 ([gfain@msa-stoneville.ars.usda.gov](mailto:gfain@msa-stoneville.ars.usda.gov))

17. Physical and Chemical Properties of Substrates from Three Species of Pine Trees. Glenn B. Fain, USDA-ARS Southern Horticultural Laboratory, P.O. Box 287, 810 Hwy 26 West, Poplarville, MS 39470 ([gfain@msa-stoneville.ars.usda.gov](mailto:gfain@msa-stoneville.ars.usda.gov))

18. Postharvest Treatments for Extending Market Life of Fresh Horseradish. Picha, D.H. Department of Horticulture, Louisiana State University, 163 J C Miller Hall, Baton Rouge, LA 70803 Baton Rouge, LA 70803. ([dpicha1@lsu.edu](mailto:dpicha1@lsu.edu))

19. Performance of Heirloom and Late Blight Resistant Heirloom-type Tomato Hybrids in Organic and Conventional Field Trials. Jeanine M. Davis and Randolph G. Gardner, Dept. of Horticultural Science, North Carolina State University Mountain Horticultural Crops Research & Extension Center, 455 Research Drive, Fletcher, NC 28732. ([Jeanine\\_Davis@ncsu.edu](mailto:Jeanine_Davis@ncsu.edu))

20. Performance of 18 Jalapeno Varieties in Whole Pack and Sauce. Paul Wilson, Horticulture Department, Louisiana State University, 163 J C Miller Hall, Baton Rouge, LA 70803 Baton Rouge, LA 70803. ([pwwilson@lsu.edu](mailto:pwwilson@lsu.edu))

## HORTICULTURAL SCIENCE

21. Recent USDA-ARS Southern Horticulture Laboratory Blueberry Cultivar Releases. S.J. Stringer, J.M. Spiers, and A.D. Draper, USDA-ARS Small Fruits Research Station, P.O. Box 287, Poplarville, MS 39470 ([sjstringer@msa-stoneville.ars.usda.gov](mailto:sjstringer@msa-stoneville.ars.usda.gov))
22. Production of Delphinium in a Tobacco Transplant Greenhouse. Carl E. Niedziela Jr., Stephen A. Emerson, and Guochen Yang, Department of Natural Resources and Environmental Design, North Carolina A&T State University, Greensboro, NC 27411. ([cniedzie@ncat.edu](mailto:cniedzie@ncat.edu))
23. Chilling Requirements of Selected Floricane and Primocane-Fruiting Blackberries. Dr. John R. Clark<sup>1</sup>, and P. Manjula Carter<sup>2</sup> <sup>1</sup>University of Arkansas, Dept. Horticulture, 316 Plant Sciences Building, Fayetteville, AR 72701; <sup>2</sup>University of Arkansas Southwest Research and Extension Center, 362 Hwy 174 N., Hope, AR 71801 ([jclark@uark.edu](mailto:jclark@uark.edu))
24. Laboratory method to estimate incidence of fruit splitting in cultivated blueberry. Donna A. Marshall, J.M. Spiers, K.J. Curry, S.J. Stringer, USDA-ARS Small Fruits Research Station, P.O. Box 287, Poplarville, MS 39470. ([DAMarshall@msa-stoneville.ars.usda.gov](mailto:DAMarshall@msa-stoneville.ars.usda.gov))
25. Camellia: A new southern highbush blueberry cultivar. D. Scott NeSmith<sup>1</sup> and Arlen D. Draper<sup>2</sup>, <sup>1</sup>Dept. of Horticulture, 1109 Experiment Street, University of Georgia, Griffin, GA 30223- 1797; <sup>2</sup>USDA-ARS, Southern Horticultural Laboratory, Poplarville, MS 39470. ([snsmith@griffin.uga.edu](mailto:snsmith@griffin.uga.edu))
26. Rebel: A new early ripening southern highbush blueberry cultivar. D. Scott NeSmith<sup>\*</sup>, Dept. of Horticulture, 1109 Experiment Street, University of Georgia, Griffin, GA 30223- 1797. ([snsmith@griffin.uga.edu](mailto:snsmith@griffin.uga.edu))
27. Herbaceous Ornamental Trials in Central Mississippi. Keri Paridon, Mississippi State University, P.O. Box 231, Crystal Springs, MS 39059. ([keri@ra.msstate.edu](mailto:keri@ra.msstate.edu))

## HORTICULTURAL SCIENCE

28. 2005 Personal Size "Mini" Seedless Watermelon Variety Trial. Thomas Horgan, North Mississippi Research & Extension Center, Mississippi State University, Box 1690, 5421 Hwy 145 S., Verona, MS 38879. ([tehorgan@ra.msstate.edu](mailto:tehorgan@ra.msstate.edu))
29. Landscape Performance of New and Old Vinca Series - 2005 Observations. Allen Owings, Gordon Holcomb, Anthony Witcher, and Allen Broyles, LSU AgCenter - Department of Horticulture, 163 J C Miller Hall, Baton Rouge, LA 70803 ([aowings@agctr.lsu.edu](mailto:aowings@agctr.lsu.edu))
30. Initial Evaluation of Own Root vs. Budded Rose Cultivars in a Landscape Setting. Allen Owings, Anthony Witcher, and Allen Broyles, LSU AgCenter - Department of Horticulture, 163 J C Miller Hall, Baton Rouge, LA 70803 ([aowings@agctr.lsu.edu](mailto:aowings@agctr.lsu.edu))
31. Management of Downy and Powdery Mildew for Winter Squash. A.H. Beany<sup>1</sup>, K. Pernezny<sup>2</sup>, P.J. Stoffella<sup>1</sup>, N. Havranek<sup>2</sup>, and J. Sanchez<sup>2</sup>. <sup>1</sup> University of Florida, IFAS, Indian River Research and Education Center, 2199 South Rock Road, Fort Pierce, Florida 34945-3138, USA. <sup>2</sup> University of Florida, IFAS, Everglades Research and Education Center, 3200 East Palm Beach Road, Belle Glade, Florida 33430-4702, USA.
32. Crape myrtle evaluations in South Mississippi. Patricia R. Knight, John M. Anderson, Wayne McLaurin, and Christine Coker, Mississippi State University, Coastal Research and Extension Center, 1815 Popps Ferry Road, Biloxi, MS 39532 ([patriciaknight@bellsouth.net](mailto:patriciaknight@bellsouth.net))
33. Growing Olives in Texas; Regulation of Flowering in Arbequina. Nasir Malik, USDA-ARS, 2413 E. Hwy 83, Weslaco, TX 78596, email; ([nmalik@weslaco.ars.usda.gov](mailto:nmalik@weslaco.ars.usda.gov))
34. Effect of Rootstock on Yield and Quality of 'Cabernet Franc' (*Vitis vinifera*) in Oklahoma. Eric T. Stafne<sup>1</sup>, B. Dean McCraw<sup>1</sup>, William G. McGlynn<sup>1</sup>, and R. Keith Striegler<sup>2</sup> <sup>1</sup>Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078; <sup>2</sup>MVEC, Missouri State University, Mountain Grove, MO 65711. ([eric.t.stafne@okstate.edu](mailto:eric.t.stafne@okstate.edu))

## HORTICULTURAL SCIENCE

### PROGRAM MONDAY, FEBRUARY 6, 2006

#### VEGETABLE CROPS SECTION

Room: Palms Ballroom Salon D

Presiding: Bill Evans, Vegetable Crops Section Chair

Abstracts must be electronically submitted to Bill Evans, ([wbe@ra.msstate.edu](mailto:wbe@ra.msstate.edu))

8:00 am Purple Nutsedge Management for Organic Vegetable Production. Carlene A. Chase<sup>\*1</sup>, Rosalie L. Koenig<sup>2</sup>, Jeffery E. Pack<sup>1</sup>, Clinton C. Warren<sup>1</sup>; <sup>1</sup>University of Florida, Horticultural Sciences Department, PO Box 110690, Gainesville, FL 32611 and <sup>2</sup>Rosie's Organic Farm. ([cachase@ufl.edu](mailto:cachase@ufl.edu))

8:15 am Sandea/soil insecticide interaction studies in North Carolina potatoes. Roger B. Batts\*, Dept. of Horticulture, Campus Box 7609, NC State Univ. 27695-7609, Andrew W. MacRae, PO Box 1209, Rural Development Center, Univ. Georgia, Tifton, GA 31793 ([roger\\_batts@ncsu.edu](mailto:roger_batts@ncsu.edu))

8:30 am Evaluation of Under-Plastic Herbicide Applications in Transplanted Tomato. Joseph G. Masabni\*, Univ. of Kentucky, UKREC, PO Box 469, Princeton, KY 42445 ([jmasabni@uky.edu](mailto:jmasabni@uky.edu))

8:45 am Nutsedge control in tomato with combinations of Sandea (halosulfuron) and Dual Magnum (S-metolachlor). Wheeler G. Foshee\* III, Collin W. Adcock, Glenn R. Wehtje, and Charles H. Gilliam, Auburn University. 101 Funchess Hall, Auburn, AL 36849 ([foshewg@auburn.edu](mailto:foshewg@auburn.edu).)

#### 9:00 am Break

9:15 am Effects of reduced methyl bromide rates and mulches on nutsedge control. Bielinski M. Santos\*, James P. Gilreath and Myriam N. Siham, Gulf Coast Research and Education Center, IFAS, University of Florida. 14625 County Road. 672, Wimauma, FL 33598 ([bmsantos@ifas.ufl.edu](mailto:bmsantos@ifas.ufl.edu))

9:30 am Influence of virtually impermeable films on the efficacy of metam, chloropicrin and 1,3-dichloropropene on soilborne pest control. James P. Gilreath and Bielinski M. Santos\*, Gulf Coast Research and Education Center, IFAS, University of Florida, 14625 County Road. 672, Wimauma, FL 33598 ([bmsantos@ifas.ufl.edu](mailto:bmsantos@ifas.ufl.edu))

## HORTICULTURAL SCIENCE

9:45 am Performance of methyl bromide alternatives for strawberry in Florida and Spain. Bielinski M. Santos<sup>\*1</sup>, José Manuel López-Aranda<sup>2</sup>, James P. Gilreath<sup>1</sup>, Luis Miranda<sup>2</sup>, Carmen Soria<sup>2</sup>, and Juan J. Medina<sup>2</sup>. <sup>1</sup>Gulf Coast Research and Education Center, IFAS, University of Florida. 14625 County Road. 672, Wimauma, FL 33598 <sup>2</sup>Instituto Andaluz de Investigación y Formación Agraria. IFAPA. CICE-Junta de Andalucía. Spain. ([bmsantos@ifas.ufl.edu](mailto:bmsantos@ifas.ufl.edu))

10:00 am Impact of solarization and methyl bromide alternatives on greenhouse hot pepper production in Costa Rica. Bielinski M. Santos<sup>\*1</sup>, James P. Gilreath<sup>1</sup>, Jorge A. Solórzano-Arroyo<sup>2</sup>, and Jorge Mora-Bolaños<sup>2</sup>. <sup>1</sup>Gulf Coast Research and Education Center, IFAS, University of Florida. 14625 County Road. 672, Wimauma, FL 33598; <sup>2</sup>Laboratorio de Fitoprotección, Instituto de Innovación y Transferencia de Tecnología Agropecuaria, San José, Costa Rica ([bmsantos@ifas.ufl.edu](mailto:bmsantos@ifas.ufl.edu))

10:15 am Delivering herbicides through drip irrigation lines: An alternative for weed management? Bielinski M. Santos\* and James P. Gilreath. Gulf Coast Research and Education Center, IFAS, University of Florida, 14625 County Road. 672, Wimauma, FL 33598; ([bmsantos@ifas.ufl.edu](mailto:bmsantos@ifas.ufl.edu))

10:30 am Field testing of possible BMPs for tomato grown in the Caribbean Basin. Eric Simonne\*, David Studstill, Bob Hochmuth, George Hochmuth, Fritz Roka, Julia O'Hallorans, and Aparna Gazula, Horticultural Sciences Department, 1241 Fifield Hall, P.O. Box 110690, Gainesville, FL 32611. ([esimonne@mail.ifas.ufl.edu](mailto:esimonne@mail.ifas.ufl.edu))

10:45 am Evaluation of cowpeas (*Vigna unguiculata* (L.) Walp) for grain and fodder production in southwest Nigeria. Oluwatoyin S. Aribisala<sup>1\*</sup> and M.E. Aken'Ova<sup>2</sup>. <sup>1</sup>George Washington Carver Agricultural Experiment Station, Tuskegee University, AL 36088, <sup>2</sup>Department of Agronomy, University of Ibadan, Ibadan, Nigeria. ([toyinaribisala@yahoo.co.uk](mailto:toyinaribisala@yahoo.co.uk))

11:00 am Yields and Fruit Production Patterns of Eleven Eggplant Cultivars. Brian A. Kahn\* and Mark E. Payton, Depts. of Horticulture and Landscape Architecture and Statistics, Oklahoma State University, Stillwater, OK 74078 ([brian.kahn@okstate.edu](mailto:brian.kahn@okstate.edu))



## HORTICULTURAL SCIENCE

### 11:00 a.m Southern Region - ASHS Annual Business Meeting and Awards Program

1:15 pm High Tunnel Production of Tomatoes and Snapdragons in Southeast Alabama. Wheeler G. Foshee III, Brad E. Reeder, Raymond J. Kessler Jr., Joseph M. Kemble, and William A. Dozier Jr. Auburn University, Department of Horticulture, 101 Funchess Hall, Auburn. AL 36849-5408 (foshewg@auburn.edu)

1:30 pm Early Season Production of Tomatoes and Strawberries in High Tunnels in Alabama. J. M. Kemble, P. Sanders, W. Foshee, and D. Fields, Auburn University, Department of Horticulture, 101 unchess Hall, Auburn, AL 36849-5408 (foshewg@auburn.edu)

1:45 pm Plastic mulched bed width effects on pepper and cantaloupe yield. William Terry Kelley and David B. Langston, Jr. University of Georgia, P.O. Box 1209, Tifton, GA 31793. (wtkelley@uga.edu)

2:00 pm Tomato in-row spacing responses and implications. John. D. Downes\*, Texas Tech Univ. Plant and Soil Sci. Lubbock, TX 79409. (dixiedownes\_11@juno.com)

2:15 pm Okra in-row Spacing Alters Plant Growth and Yield in South Florida. Teresa Olczyk\*. University of Florida. IFAS Miami-Dade County Extension Service 18710 SW 288 Street Homestead, FL 33030-2309, Kent Cushman Southwest Florida Research & Education Center - UF/IFAS 2686 SR 29 N Immokalee FL 34142-9515, Waldemar Klassen, Tropical Research & Education Center - UF/IFAS 18905 SW 280 Street Homestead, FL 33031. (twol@ifas.ufl.edu)

2:30 pm Depth and width of the wetted zone after leaching irrigations on a sandy soil. Michela Farneselli\*, David Studstill, Eric Simonne, and Bob Hochmuth, Horticultural Sciences Department, University of Florida, 1241 Fifield Hall, P.O. Box 110690, Gainesville, FL 32611. (esimmonne@mail.ifas.ufl.edu)

### 2:45 pm Break

## HORTICULTURAL SCIENCE

3:00 pm Influence of compost on vegetable crop nutrient management. Doug Sanders\*, Luz Reyes, David Monks, Katie Jennings, Frank Louws and Jim Driver, North Carolina State University, Department of Horticulture, Box 7609, Raleigh, NC 27695-7609. Lewis Flynn, McGill-Leprechaun Composts, Invanhoe, NC (doug\_sanders@ncsu.edu)

3:15 pm Effect of washing/cutting on NO<sub>3</sub>-N and K sap concentrations on vegetable petioles. David Studstill\*, Michela Farneselli, Eric Simonne, and Bob Hochmuth, Horticultural Sciences Department, University of Florida, 1241 Fifield Hall, P.O. Box 110690, Gainesville, FL 32611 (esimmonne@mail.ifas.ufl.edu)

3:30 pm Optimization of drainage lysimeter design for field determination of nutrient loads. Aparna Gazula\*, Eric Simonne, Michael Dukes, George Hochmuth, Bob Hochmuth, and David Studstill, Horticultural Sciences Department, University of Florida, 1241 Fifield Hall, P.O. Box 110690, Gainesville, FL 32611. (esimmonne@mail.ifas.ufl.edu)

3:45 pm Effect of colored mulches on small (B size) irish potatoes (A three year study). Richard Hassell\*, T. Phillips, and T. Hale. Coastal Research & Education Center Clemson University, 2700 Savannah Highway, Charleston, South Carolina 29414 (rhassel@clemson.edu)

4:00 pm Production strategies for earliness in globe artichoke. Smiljana Goreta<sup>1\*</sup>, Lovre Bucan<sup>1</sup>, Gvozden Dumcic<sup>1</sup> and Daniel I. Leskovar<sup>2</sup>. <sup>1</sup>Institute for Adriatic Crops, Put duilova 11, Split 21000, Croatia, and <sup>2</sup>Texas Agricultural Experiment Station, Texas A&M University, 1619 Garner Field Rd., Uvalde, TX 78801 (SGoreta@ag.tamu.edu)

4:15 pm Effects of nitrogen rates on summer squash growth and yield. Camille E. Esmel\*, Bielinski M. Santos and James P. Gilreath. Gulf Coast Research and Education Center, IFAS, University of Florida, 14625 County Road, 672, Wimauma, FL 33598 (bmsantos@ifas.ufl.edu)

4:30 pm Fruit size and stage of ripeness affect postharvest water loss in bell pepper fruit (*Capsicum annuum* L.). Juan Carlos Díaz-Pérez\*, María Dolores Muy-Rangel, and Arturo Gaytán Mascorro, Department of Horticulture, Tifton Campus, University of Georgia. (jcdiaz@uga.edu)

## HORTICULTURAL SCIENCE

4:45 pm Organic vegetable culture in Mississippi: Growing and profitable! W.B. Evans, K.W. Hood, K.L. Paridon\*, and P.M. Hudson, Mississippi State University Truck Crops Branch, P.O. Box 231, Crystal Springs, MS 39059-0231 ([wbe@ra.msstate.edu](mailto:wbe@ra.msstate.edu))

5:00 pm IR4 Update, New Pest Control Products Being Researched for the Vegetable Crops Industry. Charles Meister, PhD, University of Florida, IR4 Field Research Coordinator

### FRUIT CROPS SECTION

Room: Marathon & Cedar

Presiding: James R. Ballington, Fruit Crops Section Chair

Abstracts must be electronically submitted to James R. Ballington ([jim\\_ballington@ncsu.edu](mailto:jim_ballington@ncsu.edu))

8:00 am Policies for Proprietary Release, Distribution and Sale of Fruit Crop Varieties and Germplasm by Land Grant Universities in the Southern Region: Introduction. Jim Ballington, Horticultural Science Department, North Carolina State University, Raleigh, NC 27695-7609

8:15 am Policies for Proprietary Release, Distribution and Sale of Fruit Crop Varieties and Germplasm at the University of Georgia. John Ingle, Director of Cultivar Development, University of Georgia Research Foundation, Athens, GA 30602.

8:45 am Policies for Proprietary Release, Distribution and Sale of Fruit Crop Varieties and Germplasm at North Carolina State University. Billy Houghteling, Technology Development Associate, Office of Technology Transfer, North Carolina State University, Raleigh, NC 27695-8210.

### 9:15 am Break

9:30 am Policies for Proprietary Release, Distribution and Sale of Fruit Crop Varieties and Germplasm at the University of Arkansas. John Clark, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701

10:00 am Sustainable Public Plant Breeding Programs. Berry Treat, Assistant Director, Research Programs/Germplasm Property, Florida Agricultural Experiment Station and Florida Foundation Seed Producers, Inc., University of Florida, Gainesville, FL 32611-0200

## HORTICULTURAL SCIENCE

10:30 am Discussion

10:45 am Adjourn for SR-ASHS Business Meeting

### Afternoon Session

1:15 pm Evaluation of Chemical and Physical Methods for Roundup Injury Protection in Seven Tree Fruit Rootstocks. Joseph G. Masabi, University of Kentucky Research and Extension Center, Princeton, KY 42445

1:30 pm Performance of Pawpaw Cultivars in South Carolina. Gregory L. Reighard, Department of Horticulture, Clemson University, Clemson, SC 29634-0319

1:45 pm Performance of Guardian Rootstock in North Carolina. Michael L. Parker, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695-7609

2:00 pm A Proposal for the Establishment of a Southern Region Apple Improvement Program. James R. Ballington, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695-7609

2:15 pm Suitable Regions for Blueberry Growing in China. Yu Hong, CY Wang, Y Gu, SA He. Nanjing Botanical Garden, Institute of Botany, Jiangsu Province and Chinese Academy of Sciences, P. O. Box 1435, Nanjing 210014, PR China ([shananhe@public1.ptt.js.cn](mailto:shananhe@public1.ptt.js.cn))

2:30 pm El Niño-Southern Oscillation Effects and Forecasting Chill Unit Accumulation for Deciduous Fruit Crops in the Southeastern USA. Bellow, J., Southeast Climate Consortium Florida State University, 200 R.M. Johnson Bldg., Tallahassee, FL 32306-2840 ([bellow@coaps.fsu.edu](mailto:bellow@coaps.fsu.edu))

2:45 pm IR4 Update, New Pest Control Products Being Researched for the Fruit Crops Industry. Charles Meister, PhD, University of Florida, IR4 Field Research Coordinator

### Floriculture, Ornamentals & Turf Section

Room: Largo

Presiding: John Ruter, Floriculture, Ornamentals & Turf Section Chair.

## HORTICULTURAL SCIENCE

Abstracts must be electronically submitted as attachments to Dr. John Ruter, ([ruter@uga.edu](mailto:ruter@uga.edu))

8:00 am Integrating Ornamental Ponds in South Florida's Tropical Landscape. Christian L. Miller\* and Joseph F. Garofalo, University of Florida, Miami-Dade County Extension Service, 18710 SW 288<sup>th</sup> St., Homestead, FL 33030. ([millec4@ifas.ufl.edu](mailto:millec4@ifas.ufl.edu)).

8:15 am Opportunities for Exporting Landscape Plants from South Florida to the Caribbean Nations. Ahmad R. Rafie\* and Joseph F. Garofalo, University of Florida, Miami-Dade County Extension Service, 18710 SW 288<sup>th</sup> St., Homestead, FL 33030.

8:30 am As the Growers See It: A Survey of Hurricane Katrina Damage to Nursery Crops and Structures in Miami-Dade, Florida. Joseph F. Garofalo\* and Marcelo Siqueira, University of Florida, Miami-Dade County Extension Service, 18710 SW 288<sup>th</sup> St., Homestead, FL 33030 and Altria Lab Plants, LLC, 18700 SW 272<sup>nd</sup> Street, Homestead, FL 33031. ([JGarofalo@mail.ifas.ufl.edu](mailto:JGarofalo@mail.ifas.ufl.edu)).

9:00 am Longterm Survival of Golden-Trumpet Tree, *Tabebuia chrysostricha* and Copperpod, *Peltophorum pterocarpum* on Rockland Soil in South Florida. Joseph F. Garofalo\*, University of Florida, Miami-Dade County Extension Service, 18710 SW 288<sup>th</sup> St., Homestead, FL 33030 ([JGarofalo@mail.ifas.ufl.edu](mailto:JGarofalo@mail.ifas.ufl.edu)).

9:15 am Tree Canopy Microclimates and Winter Injury to Woody Ornamentals. Derald A. Harp\*, Department of Agricultural Sciences, Texas A&M University, Commerce, TX 75429 ([Derald\\_Harp@tamu-commerce.edu](mailto:Derald_Harp@tamu-commerce.edu)).

9:30 am Influence of Age of Plant Tissue on Propagation of Stem Cuttings of *Murraya paniculata* and *Tecoma stans*. Christopher B. Cervenyc\*, James L. Gibson, and James E. Barrett, University of Florida, 1545 Fifield Hall, Gainesville, FL 32608 ([cervenyc@ifas.ufl.edu](mailto:cervenyc@ifas.ufl.edu))

9:45 am Media Influence on Post-Harvest Container Plant Quality in a Retail Nursery Setting. Angelina de los Rosarios Lopez\*, Edward Bush, Paul Catledge, Ann Gray, Allen Owings, Charles Johnson, and Paul Wilson, Louisiana State University, Horticulture Department, Julian C. Miller Hall, Baton Rouge, LA 70803 ([alopez3@lsu.edu](mailto:alopez3@lsu.edu))

## HORTICULTURAL SCIENCE

10:00 am Production Protocols for Greenhouse Forcing of Selected Woody Plants. Natalia Hamill\* and Allan Armitage. University of Georgia, Department of Horticulture, 1111 Miller Plant Science, Athens, GA 30602 ([nhamill@uga.edu](mailto:nhamill@uga.edu))

10:15 am Staking Affects Growth of Containerized Seedling Trees. Thayne Montague\*, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122 ([thayne.montague@ttu.edu](mailto:thayne.montague@ttu.edu))

10:30 am Preventing Blow-Over of Nursery Containers. Dick Parish\*, Hammond Research Station - LSU Ag Center, 21549 Old Covington Highway, Hammond, LA 70403 ([dparish@agcenter.lsu.edu](mailto:dparish@agcenter.lsu.edu)).

### Afternoon Session

1:30 pm Particle-Size Distribution of Bark Substrates and the Affects on Plant and Medium Relationships. Michael P. Richard\* and Ed Bush, Louisiana State University, Department of Horticulture, 1134 Cornerstone Dr., Baton Rouge, LA 70810 ([mricha8@lsu.edu](mailto:mricha8@lsu.edu)).

1:45 pm Controlling Broadleaf Weeds in Groundcovers. Christina Walsworth\* and Ed Bush, Louisiana State University, Department of Horticulture, 1134 Cornerstone Dr., Baton Rouge, LA 70810 ([mclwalsworth@bellsouth.net](mailto:mclwalsworth@bellsouth.net)).

2:00 pm Height Control of Herbaceous Perennials Forced using Night-Interrupted Lighting under Nursery Conditions. Gary J. Keever and J. Raymond Kessler\*, Department of Horticulture, 101 Funchess Hall, Auburn University, AL 36849 ([kesslerjr@auburn.edu](mailto:kesslerjr@auburn.edu))

2:15 pm Controlling Little-Leaf Disorder on *Loropetalum chinese* var. *rubrum* with Foliar Applications of Copper. John M. Ruter\*, University of Georgia, Department of Horticulture, 115 Coastal Way, Tifton, GA 31794 ([ruter@uga.edu](mailto:ruter@uga.edu))

2:30 pm The Influence of Cooling on Woody Shrubs Used for Greenhouse Forcing. Allan M. Armitage\* and Natalia Hamill, University of Georgia, Department of Horticulture, Athens, GA 30602 ([armitage@uga.edu](mailto:armitage@uga.edu))

## HORTICULTURAL SCIENCE

**2:45 pm Nitrogen Fertilization, Fungicide, and Planting Date Affect The Growth and Disease Incidence of Vinca (*Catharanthus roseus*) in Landscape Plantings.** Yan Chen\*. LSU AgCenter Hammond Research Station, 21549 Old Covington Hwy., Hammond, LA 70403 (yachen@agcenter.lsu.edu)

**Post Harvest/Biotechnology/Plant Biology Section**  
Room: Clearwater  
Presiding: Bill Klingeman, Post Harvest/Biotechnology/Plant Biology Chair

Abstracts must be electronically submitted as attachment to Bill Klingeman, ([wklingem@utk.edu](mailto:wklingem@utk.edu))

8:15 am Master gardener perception of genetically modified ornamental plants. W.E. Klingeman\*, C.R. Hall and E.W. Babbit, The University of Tennessee, Plant Sciences Department, 2431 Joe Johnson Drive, 252 Ellington PSB, Knoxville, TN 37996-4561. ([wklingem@utk.edu](mailto:wklingem@utk.edu))

8:30 am Phenolic composition and antioxidant activity in sweetpotato root and leaf tissues at different developmental stages. M.S. Padda and D.H. Picha\*, Department of Horticulture, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 ([dpicha1@lsu.edu](mailto:dpicha1@lsu.edu))

8:45 am Lycopene content of organically grown tomatoes. Penelope Perkins-Veazie\*, Warren Roberts and Julie K. Collins, USDA-ARS, SCARL, Lane, OK & WWREC, Oklahoma State University, Lane, OK 74555. ([pperkins-usda@lane-ag.org](mailto:pperkins-usda@lane-ag.org))

9:00 am Potential of chlorine dioxide treatment to extend longevity of cut flowers. Andrew J. Macnish\*, Ria T. Leonard and Terril A. Nell. Environmental Horticulture, P.O. Box 110670, University of Florida, Gainesville, FL 32611 ([amacnish@ifas.ufl.edu](mailto:amacnish@ifas.ufl.edu))

9:15 am Flower abscission and anthocyanin development in cut phlox flower heads: Effect of ethylene inhibitors and sucrose. Wayne A. Mackay\*, Environmental Horticulture, Texas A&M University - Dallas, 17360 Coit Rd., Dallas, TX 75252 ([w-mackay@tamu.edu](mailto:w-mackay@tamu.edu))

**9:30 am Break**

## HORTICULTURAL SCIENCE

9:45 am Fruit size and stage of ripeness affect postharvest water loss in bell pepper fruit (*Capsicum annuum* L.). Juan Carlos Díaz-Pérez\*, María Dolores Muy-Rangel and Arturo Gaytán Mascorro, 226 Horticulture Bldg., Department of Horticulture, University of Georgia, CAES-Tifton, Tifton, GA 31793 ([jcdiaz@uga.edu](mailto:jcdiaz@uga.edu))

10:00 am Edamame Vegetable Soybean Production in Tennessee. Debra Carpenter\*, Alison Stewart, Vince Pantalone, Carl Sams, Dennis Deyton and Fred Allen, The University of Tennessee, Plant Sciences Department, 2431 Joe Johnson Drive, 252 Ellington PSB, Knoxville, TN 37996-4561. ([vpantalo@utk.edu](mailto:vpantalo@utk.edu))

10:15 am Time and Temperature Effects on Degradation of Isothiocyanates in Biofumigation Systems. Christina L. Pierson\*, Dennis E. Deyton and Carl E. Sams, The University of Tennessee, Plant Sciences Department, 2431 Joe Johnson Drive, 252 Ellington PSB, Knoxville, TN 37996-4561. ([csams@utk.edu](mailto:csams@utk.edu))

10:30 am Current Research Programs at the USDA/ARS Citrus and Subtropical Products Laboratory. Elizabeth Baldwin\*, USDA/ARS Citrus & Subtropical Products Laboratory, 600 Ave. S, NW, Winter Haven, FL 33883-1909 ([ebaldwin@citrus.usda.gov](mailto:ebaldwin@citrus.usda.gov))

10:45 am Nutritional Components in Select Florida Tropical Fruits. Kanjana Mahattanatawee\*, Elizabeth Baldwin, Kevin Goodner and Gary Luzio, USDA/ARS Citrus & Subtropical Products Laboratory, 600 Ave. S, NW, Winter Haven, FL 33883-1909. ([ebaldwin@citrus.usda.gov](mailto:ebaldwin@citrus.usda.gov))

## HORTICULTURAL SCIENCE

### Guidelines for Electronic Submission of Abstracts for the Southern Region - American Society for Horticultural Science 2006 Conference in Orlando, Florida

Abstracts for papers presented at the Southern Region - American Society for Horticultural Society annual conference in Orlando, Florida, February 4-6, 2006 will be submitted electronically to the appropriate Section Chair

The abstract should include: title, author(s) (presenting author indicated with an asterisk), affiliation(s) and abstract. Do not allow the length to exceed approximately 250-275 words. Use Times New Roman, 12 pt font. Please use Word software only for your submission.

Section-Chairs or Coordinators must receive abstracts by February 15, 2006. Section Chairs will contact authors of missing abstracts to confirm if they will be submitting an abstract. Abstracts will be submitted by e-mail as an attached word processing file.

The Southern Region - ASHS must pay for the publication of abstracts, therefore *at least one author must be a Southern Region - ASHS member who has paid the conference registration fee.*

Section Chairs and Coordinators will send the abstracts, along with a copy of the program, to Nancy Hubbell, Managing Editor of *HortScience* at ASHS Headquarters by March 1, 2006.

## Southern Division of the American PHYTOPHATHOLOGICAL SOCIETY 2006 Meeting Program Wyndham Orlando Resort Orlando, Florida

### Sunday afternoon: February 5, 2006

12:00-4:00 p.m. - Registration  
(Palms Ballroom Foyer)

12:50-1:00 – Welcome  
Tim Brenneman, SDAPS President (Magnolia)

Symposium: Status and detection of invasive species  
- Craig Rothrock, presiding

1:00-1:15 - **How entomologists respond to invasive species.** Lance Osborne, Dept. of Entomology and Nematology, University of Florida - IFAS, Apopka, FL

1:15-1:30 - **Overview of the Asian soybean rust sentinel network for 2005.** D. E. HERSHMAN (1) and L. J. Giesler (2). (1) Dept. of Plant Pathology, University of Kentucky, Princeton, KY 42445; (2) Dept. of Plant Pathology, University of Nebraska, Lincoln, NE 68583.

1:30-1:45 - **Asian soybean rust: Syngenta spore trap project.** J.C. RUPE (1), M. D. WIGLESWORTH (2), S. SMITH, (1) and S. WICKIZER (1). (1) University of Arkansas, Fayetteville, AR; (2) Syngenta Crop Protection, Greensboro, NC

1:45-2:00 - **Detection of Asian soybean rust using PCR.** P. F. HARMON. Dept. of Plant Pathology, Univ of Florida, Gainesville, FL 32611.

2:00-2:15 - **Assessment of fungicide programs for management of Asian soybean rust in Georgia.** R.C. KEMERAIT (1), L.E. SCONYERS (1), P.H. JOST (3), J.M. KICHLER (4), and D.V. PHILLIPS (2), Dept. of Plant Pathology, University of Georgia, (1) Tifton, GA 31793; (2) Griffin, GA 30223; (3) Dept. of Crop and Soil Science, University of Georgia, Statesboro, GA 30460; (4) Cooperative Extension Service, University of Georgia, Oglethorpe, GA.

2:15-2:30 - **Phytophthora ramorum, a forest pathogen changing the west coast landscape: Where next?** Mike Benson. Dept. of Plant Pathology, North Carolina State University, Raleigh, NC 27695

## PLANT PATHOLOGY

2:30-245 - Discussion

2:45-3:00 - **Break**

Student presentations – Mike Benson, SDAPS Past-President, presiding

3:00-3:15 - **Impacts occurring on North Carolina packing lines and their effect on weight loss and Rhizopus soft rot in sweetpotato.** B.A. EDMUNDS and G.J. Holmes, Dept. of Plant Pathology, North Carolina State University, Raleigh NC 27695

3:15-3:30 - **Development of a bioassay to quantify fungicide residues on peanut foliage.** J.E. WOODWARD and T.B. Brenneman, Dept. of Plant Pathology, Univ. of Georgia, Tifton, GA 31793

3:30-3:45 - **Occurrence of race 4 of *Phytophthora nicotianae* in tobacco.** C.A. GALLUP (1), M.J. Sullivan (1), W.C. Nesmith (2), and H.D. Shew (1). (1) Plant Pathology, NC State Univ, Raleigh NC 27695; (2) Univ of Kentucky, Lexington, KY

3:45-4:00 - **Sporulation of *Alternaria alternata*, the cause of brown spot of tangerine as affected by lesion age and fungicide application.** R.F. REIS (1), A. de Goes (1), S.N. Mondal (2), and L.W. Timmer (2). (1) São Paulo State University, Jaboticabal, SP 14884, Brazil; (2) University of Florida, Citrus Research and Education Center, Dept. of Plant Pathology, Lake Alfred, FL 33850 USA.

4:00-4:15 - **Single- and multiple-year effects of soil solarization on population density of soilborne microorganisms in South Carolina.** S.M.C. NJOROGE (1), J.E. Toler (2), and A.P. Keinath (1). Clemson Univ., (1) Coastal REC, Charleston, SC 29414; (2) Dept. of Appl. Econ. & Stat., Clemson, SC 29634.

4:15-4:30 - **Effect of field resistance to the soybean cyst nematode on soybean sudden death syndrome development and yield components.** S.L. GIAMMARIA and J.C. Rupe. Department of Plant Pathology, University of Arkansas, Fayetteville, AR 72701

4:30- 4:45 - **Heat Stable Antibacterial Agents from Shiitake Mushroom.** A.K. BRAR and R.P. Pacumbaba. Department of Plant and Soil Science, Alabama A & M University, Normal, AL 35762

## PLANT PATHOLOGY

4:45-5:00 - **Molecular and biochemical characterizations of elsinochrome toxins produced by *Elsinoe fawcettii* causing citrus scab.** H.-L. LIAO and K.-R. Chung. Citrus Research and Education Center and Department of Plant Pathology, University of Florida, Lake Alfred, FL 33850

5:00-5:15 - **Genetic diversity of Tennessee *Sclerotinia homoeocarpa* isolates delineated by vegetative compatibility and AFLP analysis.** R.E. DEVRIES (1), R.N. Trigiano (1), M.T. Windham (1), A. Windham (1), and T.A. Rinehart (2). (1) University of Tennessee, Dept. of Entomology and Plant Pathology, Knoxville, TN 37996; (2) USDA/ARS, Southern Horticultural Laboratory, Poplarville, MS 39470.

5:30-6:30 - SDAPS Executive Committee Meeting (Executive Boardroom)

**4:00-6:00 - SAAS Opening and General Session and Symposium** (Orange and Lemon)

**6:30–8:30 - SAAS Reception** (East Pool Pavilion)

**Monday, February 6, 2006**

8:00-11:30 a.m. - Registration (Palms Ballroom Foyer)

8:00 - Announcements  
Tim Brenneman, SDAPS President (Magnolia)

Contributed papers – Bob Kemerait, presiding

8:00-8:15 - **Can solarization match methyl bromide fumigation in sites colonized by fungi?** R. MCSORLEY (1), K.-H. Wang (1), and S.K. Saha (2). (1) Dept. Entomology and Nematology, (2) Horticultural Sciences Dept., University of Florida, Gainesville, FL 32611.

8:15-8:30 - **Distribution of methyl isothiocyanate (MITC) in Vapam-treated plastic-mulched sandy soil beds.** B.L. CANDOLE (1), A. S. Csinos, (1) and D. Wang (2). (1) University of Georgia, Tifton, GA; (2) University of Minnesota, St. Paul, MN.

## PLANT PATHOLOGY

8:30-8:45 - **Incidence of damping-off in soils solarized and planted single or multiple years in South Carolina.** S.M.C. NJOROGE (1), J.E. Toler (2), and A.P. Keinath (1). Clemson Univ. (1) Coastal REC, Charleston, SC 29414; (2) Dept. Appl. Econ. & Stat., Clemson, SC 29634.

8:45-9:00 - **Managing mefenoxam-tolerant isolates of *Phytophthora capsici* on bell peppers.** C.S. KOUSIK. U.S. Vegetable Laboratory, USDA-ARS, Charleston, SC 29414.

9:00-9:15 - **Effects of zoxamide and dimethomorph on production and germination of zoospores of *Phytophthora capsici*.** A.P. KEINATH and P. McLaughlin. Clemson University, Coastal REC, Charleston, SC 29414.

9:15-9:30 - **Pathogenicity of a diverse group of isolates of *Phytophthora capsici* from Florida on four main vegetable crops.** R.D. FRENCH-MONAR, D.C. Schultz, and P.D. Roberts. Plant Pathology Department, IFAS-SWFREC, University of Florida, Immokalee, FL 34142.

9:30-9:45 - **Sentinel plot and commercial field monitoring of Asian soybean rust in Georgia in 2005.** L.E. SCONYERS (1), R.C. Kemerait (1), D.V. Phillips (2), and P.H. Jost (3). Dept. of Plant Pathology, University of Georgia, (1) Tifton, GA 31793; (2) Griffin, GA 30223; (3) Dept. of Crop and Soil Science, University of Georgia, Statesboro, GA 30460.

9:45-10:00 - Break

Contributed papers – Jeff Wilson, presiding

10:00-10:15 - **Recovery of *Didymella bryoniae* from melon crown debris.** A.P. KEINATH. Clemson University, Coastal REC, Charleston, SC 29414-5329.

10:15-10:30 - **Characterization of watermelon (*Citrullus lanatus* var. *citroides*) germplasm for resistance to root-knot nematodes.** J.A. THIES and A. Levi. U.S. Vegetable Laboratory, USDA-ARS, Charleston, SC 29414.

10:30-10:45 - **Variables affecting linear gall growth in fusiform rust-infected loblolly and slash pines.** C.H. WALKINSHAW, USDA Forest Service, Pineville, LA 71360.

## PLANT PATHOLOGY

10:45-11:00 - **Epiphytic bacteria from dogwood leaves show potential in powdery mildew bio-control.** F.A. MREMA, M.T. Mmbaga, and A. Shi. Tennessee State University, Otis L. Floyd Nursery Research Center, McMinnville, TN 37110.

11:00-11:15 - **Root-Knot Nematode Resistance in African Pearl Millets.** P. Timper and J. P. WILSON. USDA-ARS, Tifton, GA 31793.

11:15-11:30 - **Monitoring Abiotic and Biotic Stressors in Greenhouse Crops Using Color Infrared Imagery.** C.R. LITTLE and K.R. Summy. Dept. Biology, The University of Texas – Pan American, Edinburg, TX 78541.

11:30-11:45 - **Microtiter assay shows effectiveness of a natural fungicide for control of *Colletotrichum* spp.** David E. Wedge (1) and Barbara J. Smith (2). (1) USDA-ARS, Natural Products Utilization Research Unit, University, MS, 38677; (2) USDA-ARS Small Fruit Research Station, Poplarville, MS 39470.

11:45-12:00 - **Evaluating GFP as a Genetic Determinant for Disease Tolerance in Woody Plants.** A.K. NAGEL (1), K.D. Cox (1), D.R. Layne (2), and G. Schnabel (1). (1) Dept. Entomology, Soils, and Plant Sciences; (2) Dept. Horticulture, Clemson University, Clemson, SC 29634.

12:00-1:00 - **Graduate Student Luncheon** (Ormond), by invitation only

Contributed papers – Monica Elliot, presiding

1:00-1:15 - **Pathogenicity of two soil-borne fungi from commercial snapdragon range in Florida.** K.-H. WANG (1), E. Malek (2), and R. McSorley (1). (1) Entomology and Nematology Dept.; (2) Doctor of Plant Medicine Program, University of Florida, Gainesville, FL 32611.

1:15-1:30 - ***Phytophthora cambivora*, a new dieback pathogen of rhododendron and *Pieris* in North Carolina.** J. Hwang (1), C. Y. Warfield (2), and D. M. BENSON (2). (1) Dept Entomology, Soils, and Plant Sciences, Clemson University, Clemson, SC 29634; (2) Dept Plant Pathology, North Carolina State University, Raleigh, NC 27695

## PLANT PATHOLOGY

1:30-1:45 - **Leaf blight in Dogwood (*Cornus* spp.) caused by *Phytophthora* sp.** MARGARET T. MMBAGA and Frank Mrema. Tennessee State University, Otis Floyd Research Center, McMinnville TN 37110.

1:45-2:00 - **Epidemiology of powdery mildew on flowering dogwood in Tennessee.** Y. H. LI (1), M. T. Windham (1), R. N. Trigiano (1), D. C. Fare (2), J. M. Spiers (3), and W. E. Copes (3). (1) Dept. of Entomology and Plant Pathology, University of Tennessee, Knoxville, TN; (2) USDA/ARS Floral & Nursery Plants Research Unit, McMinnville, TN; (3) USDA/ARS Southern Horticultural Research Unit, Poplarville, MS.

2:00-2:15 - **New disease of *Syagrus romanzoffiana* (queen palm) in Florida.** M.L. ELLIOTT. Fort Lauderdale Research and Education Center, University of Florida, Fort Lauderdale, FL 33314.

2:15-2:30 - **Fungi and bacteria associated with watermelon vine decline in Florida.** P.D. ROBERTS (1), S. Adkins (2), and B.D. Bruton (3). (1) University of Florida, 2686 SR 29 N, Immokalee, FL 34142; (2) USDA-ARS, Ft. Pierce, FL 34945; (3) Lane, OK 74555

2:30-2:45 - **New host and location reports for *Tomato spotted wilt virus* (TSWV) and *Iris yellow spot virus* (IYSV).** C. NISCHWITZ, R. D. Gitaitis, A. S. Csinos and S. W. Mullis. University of Georgia, Coastal Plain Experiment Station, Dept. of Plant Pathology, Tifton, GA 31794.

2:45-3:00 - **Identification of *Armillaria* species on daylily based on ribosomal ITS and IGS-1 sequences.** K.E. BUSSEY and G. Schnabel. Dept. of Entomology, Soils and Plant Sciences, Clemson University, Clemson, SC 29634.

3:00-3:15 - Break

Contributed papers – Tyler Harp, presiding

3:15-3:30 - **University of Florida Certificate in Plant Pest Risk Assessment and Management.** R.J. McGovern (1) and N.C. Leppla (2). (1) Plant Medicine Program and Plant Pathology Department; (2) IPM Program and Entomology & Nematology Department, University of Florida, IFAS, CALS, Gainesville, FL 32611.

## PLANT PATHOLOGY

3:30-3:45 - **Mandipropamid: A new fungicide for control of lateblight and downy mildews.** TYLER HARP (1), Gary Cloud (2), Brad Minton (3), and Alex Cochran (4). Syngenta Crop Protection, (1) Vero Beach, FL; (2) Tallahassee, FL; (3) Cypress, TX; (4) Visalia, CA.

3:45-4:00 - **Timing Applications of ASM in Tobacco for TSWV Management.** A.S. CSINOS(1), M.G. Stephenson(2), L.L. Hickman(1) and S. Mullis(1), (1)Dept. of Plant Pathology; (2) Crop and Soil Sciences Dept., University of Georgia, CPES, Tifton, GA 31793.

4:00-4:15 - **Use of chlorpyrifos to supplement full- and reduced-input fungicide programs for control of peanut stem rot.** T. B. BRENNEMAN (1) and S. L. Brown (2). (1) Dept. Plant Pathology; (2) Dept. Entomology, University of Georgia, Tifton, GA 31794.

4:5-4:30 - **Evaluation of phosphonate fungicides for control of foliar and tuber late blight of potato.** H. MAYTON and W.E. Fry. Dept. Plant Pathology, Cornell University, Ithaca, NY 14853.

4:30-4:45 - **The use of Serenade MAX and Sonata in integrated programs to control gummy stem blight and downy mildew in watermelons** H. Brett Highland. AgraQuest Inc., Nokomis, FL 34275.

**4:45-5:45 - SDAPS Business Meeting**  
Tim Brenneman, SDAPS President, presiding

**6:00-9:00 - SDAPS Social (cash bar) and Southern Division deBary Bowl** (Palms Ballroom A)

**NOTE --** The SDAPS meeting ends Monday night. An IR4 *Phytophthora capsici* Disease Workshop will be held from 8 a.m to 5 p.m. on Saturday, February 4, in Oleander A. For additional information, contact David Thompson (732-932-9575 x613).



**Research Center Administrators Society  
Annual Meeting  
Wyndham Orlando Resort  
Orlando, Florida  
February 5-7, 2006**

**Sunday, February 5, 2006**

--- Longboat

1:30 p.m. - **RCAS Executive Board Meeting**  
Presiding – Robert Dunker, President

**Monday, February 6, 2006**

--- Palms Ballroom Salon I

7:00 a.m. - **Registration**  
Dr. Mike Phillips, Secretary, RCAS  
Center Director, Southwest Research and Extension  
Center, Hope, AR

8:00 - **Opening Remarks and Introductions**  
Robert Dunker, President, RCAS  
University of Illinois Crop Research & Education  
Center, Urbana, IL

8:15 - **Welcome to Florida and Florida Agriculture**  
University of Florida Institute of Food and Agricultural  
Sciences, University of Florida, Gainesville, FL

9:00 - **Hurricane Katrina: Preparation and  
Aftermath**  
Dr. Regina Bracy, Resident Coordinator, Hammond  
Research Station, Hammond, LA

9:30 - **Break**

10:00 - **Preparing for and Dealing with Natural  
Disasters**  
North Carolina Research Stations and North Carolina  
Department of Agriculture, Raleigh, NC

11:30 - **Lunch**

12:30 - **Tour and Banquet**  
Location to be announced.

**RESEARCH CENTER ADMINISTRATORS**

**Tuesday, February 7, 2006**

--- Palms Ballroom Salon I

8:00 a.m. - **Bioenergy: Has Its Time Finally Come?**  
Dr. David Bransby, Professor, Energy Crops and  
Bioenergy, Forage/Livestock Management,  
Department of Agronomy and Soils, Auburn  
University, Auburn, AL

9:00 - **Alternative Energy for Agriculture**  
Mr. Shannon Vineyard, President, Vinyard  
Technology Systems, Inc., Hartford, AL

10:00 - **Break**

10:30 - **Alternative Fuels Usage at University of  
Kentucky**  
Dr. Bill Peterson, Director, Management Operations,  
University of Kentucky, Lexington, KY

11:00 - **RCAS General Business Session**

12:00 - **Lunch**

1:30 - **Oklahoma Agriculture Experiment Station  
Encroachment: Problems and Solutions**  
R. Brent Westerman, Oklahoma Agriculture  
Experiment Station, Field and Research Service Unit  
Stillwater, OK

2:00 - **Panel Discussion: Effective Review of  
Research Centers**  
Panel Members:  
Dr. Pete Schultz, Director, Hampton Roads  
Agricultural Research and Extension Center,  
Virginia Beach, VA  
Mr. Fred Perry, Director, University of California  
Research and Extension Centers, University of  
California, Davis, CA  
Mr. Fred Swanson, Superintendent, Kearney  
Research and Extension Center, Parlier, CA

3:00 - **General Discussion**

3:30 - **Adjourn**

**SOUTHERN RURAL SOCIOLOGICAL ASSOCIATION  
ANNUAL MEETING**

***“Rural Leadership and Legacy:  
Partnering for Progress”***

**February 4 – 8, 2006  
Orlando, Florida**

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**RURAL SOCIOLOGY**

**Southern Rural Sociological  
Association Meeting**

Orlando, Florida  
February 4 – 8, 2006

**Sunday, February 5**

**8:30 A.M. – 4:00 P.M.**

**Registration  
PALMS BALLROOM FOYER**

**9:00 A.M. – 11:00 A.M.**

**SRSA EXECUTIVE COUNCIL MEETING  
OLEANDER A**

**9:00 A.M. – 1:00 P.M.**

**Poster Set-up  
PALMS BALLROOM – SALON E**

**11:30 A.M. – 12:30 P.M.**

**SRSA Rural Education Task Force Meeting  
OLEANDER A**

**12:30 P.M. – 1:00 P.M.**

**Meet and Greet Conference  
Attendees  
OLEANDER A**

**1:15 P.M. -- 2:15 P.M.**

**SESSION 1 – CHANGING RURAL DYNAMICS  
OLEANDER A**

**Moderator: Christopher Davis, Economist,  
ERS-USDA**

**Panel: Changing Dynamics in Rural  
Communities: Partnering for Success**

**Organizers:**

Committee on the Opportunities and Status of Blacks  
in Agricultural Economics (COSBAE)  
Christopher Davis, Economic Research Service,  
USDA

Keithly Jones, Economic Research Service, USDA  
Doris Newton, Economic Research Service, USDA  
Bill Edmondson, Economic Research Service, USDA  
Participants:

Deacue Fields III, Auburn University  
Doris Newton, Economic Research Services  
Ntam Baharanyi, Tuskegee University  
Daniel Rainey, Arkansas State University  
Dave Weatherspoon, Michigan State University  
Dovi Alipoe, Alcorn State University  
Ashok Mishra, Economic Research Services

## RURAL SOCIOLOGY

2:15 p.m. – 2:30 p.m.

**Break**

*PALMS BALLROOM FOYER*

2:30 P.M. – 3:30 P.M.

**SESSION 2 –**

**LOCAL COMMUNITIES AND INDUSTRIALIZED**

**AGRICULTURE**

*OLEANDER A*

**Moderator: Odili Onianwa, Alabama A&M University**

**Global Sourcing in the Broiler Industry: The Case of Tyson Foods and Pilgrim's Pride**

Douglas H. Constance, Sam Houston State University

**North Carolina's Black Belt and Industrialized Agriculture**

Godfrey Ejimakor, North Carolina A&T State University

Makesi Ormond, North Carolina A&T State University

Obinna Achareke, North Carolina A&T State University

**Trends and Impacts of Farmland Conversion in Alabama**

Maribel N. Mojica, Alabama A&M University

James O. Bukenya, Alabama A&M University

2:30 P.M. – 3:30 P.M.

**SESSION 3 – BLACK BELT INITIATIVE**

*GARDEN ROOM*

**Moderator: Rosalind Harris, University of Kentucky**

**Panel: Rural Social Scientists Engage the Black Belt Initiative**

Organizer: Rosalind Harris, University of Kentucky

Panelists:

Ntam Baharanyi, Tuskegee University

Sokoya Finch, Florida Family Network

Rosalind Harris, University of Kentucky

Terrence Thomas, North Carolina A&T State University

Veronica Womak, Georgia College and State University

Dreamal Worthen, Florida A&M University

## RURAL SOCIOLOGY

4:00 P.M. – 6:00 P.M.

**SAAS GENERAL SESSION**

*ORANGE AND LEMON*

6:00 P.M. – 8:30 P.M.

**SAAS RECEPTION**

*EAST POOL PAVILION*

**Monday, February 6**

8:00 A.M. – 4:00 P.M.

**Registration**

*PALMS BALLROOM FOYER*

7:30 A.M. – 8:30 A.M.

**Keynote Speaker**

*OLEANDER A*

8:30 A.M. – 9:30 A.M.

**SESSION 4 – RISK MANAGEMENT CATALYSTS**

*OLEANDER A*

**Moderator: Tracy Dunbar, University of Arkansas at Pine Bluff**

**Warriors and Winners: Risk Management Catalysts**

Organizer:

Mary Mafuyai-Ekanem, North Carolina A&T State University

Panelists:

Charlotte Ham, Tuskegee University

Elicia Chevarest, Alabama A&M University

Mary Mafuyai-Ekanem, North Carolina A&T State University

8:30 A.M. – 9:30 A.M.

**SESSION 5 -- RURAL EDUCATION ISSUES**

*GARDEN ROOM*

**Moderator: Glenn Israel, University of Florida**

**Panel: Rural Education Issues: Notes from the SRSA Rural Education Task Force**

Organizer: Glenn Israel, University of Florida, Chair, SRSA Rural

Education Task Force

Panelists:

Glenn Israel, University of Florida

Mark Schafer, Louisiana State University

Ed Reeves, Morehead State University

Don Albrecht, Texas A&M University

## RURAL SOCIOLOGY

Doug Smith, Western Kentucky University  
Bo Beaulieu, Southern Rural Development Center  
Frank Beck, Illinois State University  
Usman Adamu, University of Arkansas at Pine Bluff

**8:30 A.M. – 10:15 A.M.**

**SESSION 6: POSTER DISPLAY [Authors Present]**

***PALMS BALLROOM – SALON E***

**Moderator: Mary Mafuyai-Ekanem**

**Poster #1: Animal Waste Management Practices at Limited Resource Farms in Alabama**

Erica Soumare, Alabama A&M University  
Duncan M. Chembezi, Alabama A&M University  
Joseph Befecadu, Alabama A&M University  
E'licia L. Chaverest, Alabama A&M University

**Poster #2: The Development of a Rural Community Capacity Index – Based on Cornelia Flora's "Community Capital Framework"**

Elizabeth Higgins, Louisiana Tech University  
Patrick McCorkle, Louisiana Tech University  
Dave Norris, Louisiana Tech University  
Deborah Tootle, Louisiana State University

**Poster #3: An Economic Evaluation of Rabbit Production as an Alternative Enterprise for Small Farmers in North Alabama**

Jermisha Johnson, Alabama A&M University-  
Hezekiah Jones, Alabama A&M University  
Joseph Befecadu, Alabama A&M University

**Poster #4: Texas Latino Attitudes Toward Natural Resources and The Environment: "Survey Says..."**

Angelica Lopez, Texas A&M University  
Cruz C. Torres, Texas A&M University

**Poster #5: A Case Study of the Socioeconomic Impacts of Technology Transfer on a Philippine Company: Eliminating Aflatoxin in Peanut-Based Products**

Robert L. Moxley, North Carolina State University  
William B. Clifford, North Carolina State University  
Flor Crisanta F. Galvez, University of the Philippines/Diliman  
Ma. Leonora D.L. Francisco, University of the Philippines/Diliman

## RURAL SOCIOLOGY

**Poster #6: Perceptions of Agricultural Biotechnology among Science Students in Historically Black Land Grant Institutions**

Duncan M. Chembezi, Alabama A&M University  
Elicia L. Chaverest, Alabama A&M University  
Gerald Wheelock, Alabama A&M University  
Govind Sharma, Alabama A&M University  
Ellene Kebede, Tuskegee University  
Fisseha Tegegne, Tennessee State University

**Poster #7: Consumer Attitudes Toward Biotech Food Labeling and Safety of Biotech Foods Filing Requirements**

Enefiok Ekanem, Tennessee State University  
Fisseha Tegegne, Tennessee State University  
Mary Mafuyai-Ekanem, North Carolina A&T State University  
Surendra Singh, Tennessee State University  
Safdar Muhammad, Tennessee State University

**10:15 a.m. – 10:30 a.m.**

**Break**

***PALMS BALLROOM FOYER***

**10:30 A.M. – 11:30 A.M.**

**SESSION 7 -- RURAL LEADERSHIP AND WOMEN ISSUES  
*GARDEN ROOM***

**Moderator: Kim Bradford, USDA-NRCS-ENTSC**

**Rural Leadership Development: A Synthesis of Research**

Eric K. Kaufman, University of Florida  
Rick D. Rudd, University of Florida

**Leadership Style of the National Agricultural Women's Groups in Thailand**

Oranutda Chinnasri, University of Hawaii at Manoa

**10:30 A.M. – 11:30 A.M.**

***OLEANDER A***

**SESSION 8 -- SPECIAL ISSUES IN RESEARCH I**

**Moderator: Deborah M. Tootle, Louisiana State University**

**Sources and Channels of Information Used By Florida Adult Horse Owners**

Kristen M. Spahn, University of Maryland  
Glenn Israel, University of Florida

## RURAL SOCIOLOGY

### **Do African Americans Living With HIV Disease Believe That Antiretroviral Medications Can Kill Patients?**

Andrew A. Zekeri, Tuskegee University  
Tsegaye Habtemariam, Tuskegee University

### **Consumers' Food Expenditures and Consumption Patterns**

Courtney Finch, Tennessee State University

**11:30 a.m. – 1:00 p.m.**

#### **Awards Luncheon**

*POOLSIDE PAVILION*

*PRESIDENTIAL ADDRESS*

*PATRICIA DYK, SRSA PRESIDENT*

*"RURAL LEADERSHIP AND LEGACY:*

*PARTNERING FOR PROGRESS"*

**1:30 P.M. – 2:30 P.M.**

**SESSION 9 – FUNDING OPPORTUNITIES**

*OLEANDER A*

**Moderator: Douglas Constance, Sam Houston State University**

### **Panel: Southern Sustainable Agriculture Research and Education Grant Opportunities**

Organizers:

Douglas Constance, Sam Houston State University

Jeffrey Jordan, University of Georgia, Griffin

**2:30 p.m. – 2:45 p.m.**

**Break**

*PALMS BALLROOM FOYER*

**2:45 P.M. – 3:45 P.M.**

*GARDEN ROOM*

**SESSION 10 -- SPECIAL ISSUES IN RESEARCH II**

**Moderator: Christopher Borek, University of Florida**

### **A Decade and a Half of College Student Health Practice Trends in a Landgrant University**

Wolfgang Frese, Mississippi State University

Lynne Rich, Mississippi State University

Economic Feasibility of Incorporating Herbs and

Spices in Small Farm Operations in Alabama

Steven Wright, Alabama A&M University

Hezekiah Jones, Alabama A&M University

Joseph Befecadu, Alabama A&M University

## RURAL SOCIOLOGY

**2:45 P.M. – 4:45 P.M.**

**SESSION 11**

**Special Workshop: Entrepreneurial Coaching**

*OLEANDER A*

Ron Hustedde, University of Kentucky

**5:00 p.m. – 6:00 p.m.**

**SRSA Business Meeting**

*OLEANDER A*

**Tuesday, February 7**

**8:00 A.M. – 10:00 A.M.**

**Registration**

*PALMS BALLROOM FOYER*

**8:00 A.M. – 9:00 A.M.**

**SESSION 12 -- FOOD SECURITY, FOOD SAFETY AND WELFARE ISSUES I**

*OLEANDER A*

**Moderator: Fisseha Tegegne, Tennessee State University**

### **A Profile of Food Pantry Directors in the Deep South**

Patricia A. Duffy, Auburn University

Marina Irimia-Vladu, Auburn University

Suzie Cashwell, Western Kentucky University

John Bartkowski, Mississippi State University

Joseph J. Molnar, Auburn University

Vanessa Casanova, Auburn University

### **Attitudes and Preferences Regarding Farmers Market and Supermarket Produce: A Comparison of Statewide and On-site Consumer Survey**

Lamonica Ginton, Alabama A&M University

Maribel Mojica, Alabama A&M University

Odili Onianwa, Alabama A&M University

Edward Williams, Alabama A&M University

Gerald Wheelock, Alabama A&M University

**9:00 A.M. – 10:00 A.M.**

**SESSION 13 -- FOOD SECURITY, FOOD SAFETY AND WELFARE ISSUES II**

*OLEANDER A*

**Moderator: Fisseha Tegegne, Tennessee State University**

## RURAL SOCIOLOGY

### **Economic Survival Strategies of Food Insecure Single Mothers in Rural Alabama**

Andrew A. Zekeri, Tuskegee University

### **Forward-Looking Behavior and Time Limits: How Do Rural TANF Clients Manage Their Welfare Eligibility?**

Deborah A. Harris, Mississippi State University  
Domenico Parisi, Mississippi State University

### **Supper in the South: An Exploratory Look at Food Prices in Metropolitan and Micropolitan Areas in the Southern United States**

Julie N. Zimmerman, University of Kentucky  
Sarah Michelle Frank, University of Kentucky  
Seonok (Sunny) Ham, University of Kentucky

**8:00 A.M. – 9:00 A.M.**

#### **SESSION 14 – SOCIAL CAPITAL AND POVERTY I GARDEN ROOM**

**Moderator: Albert Allen, Mississippi State University**

### **Home Language and Educational Achievement: Mediating Effects of Family Social Capital and Residence**

Georgia E. Bianchi, University of Florida  
Glenn D. Israel, University of Florida

### **Social Factors as Determinants of Rural Poverty in Some Village of Matrooh Governorate in Egypt**

Ashraf Ragab EL-Ghannam, Agricultural Research Center, Egypt.

### **Big Bend People & Goats as a Witness for Goat Raising in the Agricultural Sector**

George K. Floro, Sul Ross State University, Big Bend People & Goats, Studies of Voluntarism and Social Participation

**9:00 A.M. – 10:00 A.M.**

#### **SESSION 15 – SOCIAL CAPITAL AND POVERTY II GARDEN ROOM**

**Moderator: Albert Allen, Mississippi State University**

### **Visual Cues and Response Format Effects in Mail Surveys**

Glenn D. Israel, University of Florida

## RURAL SOCIOLOGY

### **Livestock, Livelihoods and Poverty in the Eastern Cape Province of South Africa**

Christopher Phiri, Fort Hare Institute of Social & Economic Research, South Africa

**10:00 A.M. – 10:15 A.M.**

**BREAK**

**PALMS BALLROOM FOYER**

**10:30 A.M. – 11:30 A.M.**

#### **SESSION 16 – SMALL FARMS ISSUES**

**OLEANDER A**

**Moderator: Surendra Singh, Tennessee State University**

### **Panel: Small Farm Issues: Implications for Research, Outreach and Education in Rural Development**

Organizer: Enefiok Ekanem, Tennessee State University

Panelists:

Fisseha Tegegne, Tennessee State University  
Surendra Singh, Tennessee State University  
Denis Ebodaghe, USDA  
Roy Bullock, Tennessee State University  
Mary Mafuyai-Ekanem  
Safdar Muhammad

**10:30 A.M. – 11:30 A.M.**

#### **SESSION 17 -- RURAL COMMUNITIES I**

**GARDEN ROOM**

**Moderator: Dennis Ebodaghe, CSREES-USDA**

### **Time Use on America's Farms**

Mary Ahearn, USDA-Economic Research Service  
Karen Hamrick, USDA-Economic Research Service

### **Poor Places and Poor Health Outcomes: A Case Study of a Rural Pennsylvania Community**

Eric Cohen, Penn State Fayette, The Eberly Campus

### **Methamphetamine Production and the Rural-Urban Continuum: How Does Local Context Impact the Location of Clandestine Meth Labs?**

Deborah A. Harris, Mississippi State University  
J. Michelle Estis-Sumerel, Mississippi State University

### **The Community Context for Early Childhood Education**

Glenn D. Israel, University of Florida  
Chris Borek, University of Florida

**RURAL SOCIOLOGY**

**11:30 A.M. – 12:30 P.M.**

**SESSION 18 -- RURAL COMMUNITIES II**

**OLEANDER A**

**Moderator: Gene Theodori, Texas A&M University**

**Parental Resources and High School Quality in the Context of the Rural Gap in Postsecondary Educational Attainment**

Edward B. Reeves, Morehead State University

**Community Participation: Investigating Who Participates? and Why?**

Gene L. Theodori, Texas A&M University

**Community Based Organizations (CBO) Values, Governance, Institutional Capacity and Performance in a Dynamic Environment**

Terrence Thomas, North Carolina A&T State University

Benjamin Gray, North Carolina A&T State University

**11:30 A.M. – 12:30 P.M.**

**SESSION 19 -- ENVIRONMENTAL AND NATURAL RESOURCE POLICY ISSUES**

**GARDEN ROOM**

**Moderator: Surendra Singh, Tennessee State University**

**Texas Latino Attitudes Toward Natural Resources and the Environment**

Angelica Lopez, Texas A&M University

Cruz C. Torres, Texas A&M University

**What are the Implications of the Tobacco Buyout for Small Farmers?**

Fisseha Tegegne, Tennessee State University

Enefiok Ekanem, Tennessee State University

Safdar Muhammad, Tennessee State University

Surendra Singh, Tennessee State University

**12:30 P.M. – 1:30 P.M.**

**SRSA EXECUTIVE COUNCIL MEETING**

**OLEANDER A**

**2005-2006 SAAS  
EXECUTIVE COMMITTEE**

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**Member-at-Large:** Joe W. Kotrlik, Louisiana State Univ, Human Resource Educ & Workforce Dev, 142 Old Forestry Bldg, Baton Rouge, LA, 70803, Email: kotrlik@lsu.edu; Office: 225-578-5753; Fax: 225-578-5748

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**Vice Chair:** Steven Turner, Mississippi State Univ, Head, Ag Economics Dept, PO Box 5187, 103A Lloyd Ricks, Mississippi State, MS, 39762, Email: turner@agecon.msstate.edu; Office: 662-325-2049

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**President:** Kim Jensen, Univ of Tennessee, Dept of Ag Economics, 302 Morgan Hall, 2621 Morgan Circle, Knoxville, TN, 37996-4518, Email: kjensen@utk.edu; Office: 865-974-7481; Fax: 865-974-4829

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**Program Chairs and Selected Papers**

**Coordinators:** Harjanto (Harry) Djunaidi, Middle Tennessee State Univ, School of Agribusiness & Agriscience, Campus Box 5, Murfreesboro, TN, 37132, Email: djunaidi@mtsu.edu; Office: 615-898-2418; Fax: 615-898-5169; and

Dan Tilley, Oklahoma State Univ, Dept of Ag Economics, 442 Ag Hall, Ag Economics, Stillwater, OK, 74078, Email: dtilley@okstate.edu; Office: 405-744-6180; Fax: 405-744-8210

**Secretary/Treasurer:** Jeffery Jordan, Univ of Georgia, Dept of Ag & Applied Economics, 1109 Experiment St., CAES Griffin Campus, Griffin, GA, 30233-1797, Email: jjordan@griffin.uga.edu; Office: 770-228-7231 x106; Fax: 770-228-7208

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**Past President (2004-05):** Richard Kilmer, Univ of Florida, Food & Resource Economics, G113 McCarty Hall B, Gainesville, FL, 32611, Email: rilkilmer@ifas.ufl.edu; Office: 352-392-1881 x304; Fax: 352-392-9898

**Ag Education:**

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**Program Chair:** Dr. S. K. Ballal, Tenn Technological Univ, Dept of Biology, TTU Box 5055, Cookeville, TN, 38505, Email: skballal@tntech.edu; Office: 931-372-3444; Fax: 931-372-6257

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**President:** David Wm. Reed, Texas A&M Univ, Dept of Horticultural Sciences, Dept of Horticultural Sciences, College Station, TX, 77843-2133, Email: dwreed@tamu.edu; Office: 979-845-0139; Fax: 979-845-0627

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**Past President (2004-05):** Janet C. Cole, Oklahoma State Univ, Dept of Horticulture and Landscape Architecture, 360 Ag Hall, Stillwater, OK, 74078-6027, Email: jccole@okstate.edu; Office: 405-744-5770; Fax: 405-744-9709

**Plant Pathology:**

**President:** Timothy B. Brenneman, Univ of Georgia, Plant Pathology Department, CPES - PO Box 748, Tifton, GA, 31794, Email: arachis@uga.edu; Office: 222-386-3121; Fax: 222-386-7285

**Program Chair (and President-Elect):** Craig S. Rothrock, Univ of Arkansas, Plant Pathology Department, 217 Plant Science Bldg, Fayetteville, AR, 72701, Email: rothrock@comp.uark.edu; Office: 479-575-6687; Fax: 479-575-7601

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**Research Center Administrators:**

**President:** Robert "Bob" Dunker, Univ of Illinois, Crop Sciences Res & Education Center, 1102 S. Goodwin Ave, Urbana, IL, 61801, Email: r-dunker@uiuc.edu; Office: 217-244-5444; Fax: 217-333-8718

**Vice President & Program Chair:** Randall Rawls, PO Box 706, Winfield, AL, 35594, Email: rrawls@pepperlink.net; Office: 205-487-2150; Fax: 205-487-3909

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**Past President (2004-05):** Paul Sebesta, National Audubon Society, PO Box 922, Stillwater, OK, 74076, Email: psebest@audubon.org; Office: 405-207-9895

**Rural Sociology:**

**President:** Patricia Hyjer Dyk, Univ of Kentucky, Dept of Community & Leadership Development, 500 Garrigus Bldg, Lexington, KY, 40546-0215, Email: pdyk@uky.edu; Office: 859-257-3228; Fax: 859-257-1164

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**Rural Sociology (cont'd):**

**Program Chair:** Enefiok Ekanem, Tennessee State Univ, Institute of Ag & Environ Res, Box 9610, Nashville, TN, 37209-1561, Email: eekanem@tnstate.edu; Office: 915-963-5823; Fax: 615-963-1557

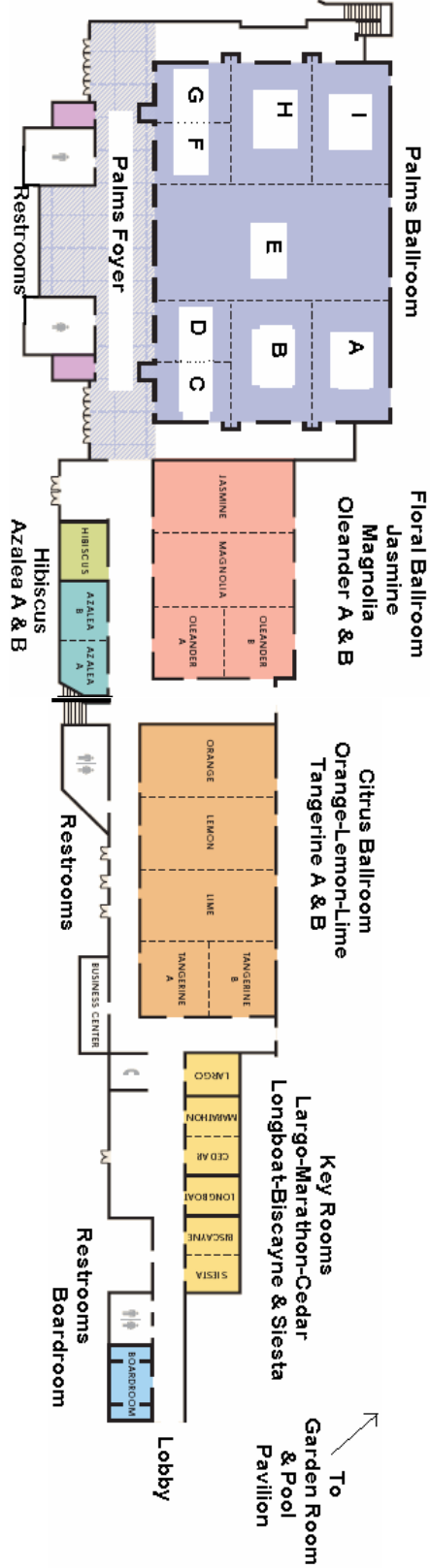
**Secretary:** Gene Theodori, Texas A&M Univ, , 2261 TAMU, College Station, TX, 77843-2261, Email: g-theodori@tamu.edu; Office: 979-845-2240; Fax: 979-845-0446

**Past President (2004-05):** Ntam Baharanyi, Tuskegee Univ, 306 Milbank Hall, Tuskegee, AL, 36088, Email: baharany@tuskegee.edu; Office: 334-727-8454; Fax: 334-727-8552

# Wyndham Orlando Resort

To East Pool Pavilion

To Clearwater, Cocoa, Coquina, Daytona, Madeira, Orland, Paradise and Venice



To Garden Room & Pool Pavilion

## NOTES

A series of horizontal lines for taking notes, flanked by decorative colorful chain-link graphics on both the left and right sides.

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#### **Georgia Farm Bureau Federation**

Wayne Dollar, President  
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Ochlocknee, GA 31773

#### **Kentucky Farm Bureau Federation**

Sam Moore, President  
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Baton Rouge, LA 70895-9005

#### **Mississippi Farm Bureau Federation**

David Waide, President  
6311 Ridgewood Road  
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#### **North Carolina Farm Bureau Federation**

Larry Wooten, President  
P.O. Box 27427  
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#### **South Carolina Farm Bureau Federation**

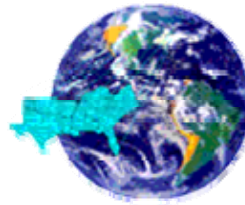
David Winkles, President  
P.O. Box 754  
Columbia, SC 29202

#### **Texas Farm Bureau**

Kenneth Dierschke, President  
P.O. Box 2689  
Waco, TX 76702-2389

#### **Virginia Farm Bureau Federation**

Bruce Hiatt, President  
P.O. Box 27552  
Richmond, VA 23261



**Southern Association  
of  
Agricultural Scientists**

### **Future Meeting Dates & Locations**

2007 – Mobile, AL (Feb. 03-07)

2008 – Dallas, Texas (Feb. 02-06)

***Conference participants are encouraged to write  
and thank their state Federation for the support of  
the SAAS Social.***