Sunday, 5 February 2006
Registration
12:00-5:00 PM
Wyndam 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 Ceber, Alabama A&M University

7. **Utility of Microsatellite for Determining Genetic Relationships in Maize Inbred Lines.** Cyrus Abdishani*, Fatemeh Dehghan-Nayeri and Bahman yazdi-Samadi, Coll of Agriculture, University of Tehran

8. **Growth Response of the Invasive Weed Tropical Spiderwort to Elevated Atmospheric CO₂.** Stephen A. Prior1, Andrew J. Price1, G. Brett Runion1, Hugo H. Rogers1, Dean H. Gjerstad2 and H. Allen Torbert1, (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. Kemerait Jr., Layla Sconyers and James Clark, University of Georgia

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. Shreffler, 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. Shreffler, 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

Genetic Diversity of Bahiagrass Germplasm Collected in Northern Arkansas. Byron L. Burson*1, David M. Burner1, Russell W. Jessup1 and K. Renganayaki2, (1)USDA-ARS, (2)Texas A&M University

Nutrient Transport in Alternative Swine Manure Treatment Systems. Susan Mcloud*, Natural Resources Conservation Service

Early Fertilization to Enhance Root Development in Corn. Ronnie W. Heiniger*1, Alan D. Meijer1 and Carl R. Crozier2, (1)Dept of Crop Science, North Carolina State University, (2)North Carolina State University Soil Science Dept.

Cover Crop Affects Nitrogen Response of Pearl Millet Grain Production in a Strip-Till System. Andrea L. Maas*, USDA-ARS and Wayne Hanna, University of Georgia

Genetic Structure of Natural Populations of Imperata cylindrica, an Invasive Clonal Species of the Southeastern United States. Ludovic J.A. Capo-Chichi* and Edzard van Santen, Auburn University

Inter- and Intra-Population Genetics of Imperata sp. Jason C. White*, Ludovic J.A. Capo-Chichi and Edzard van Santen, Auburn University

Effect of the Concentration of Chipped Bark in Sawdust Substrate on Crude Polysaccharide Extract and Lentinan Content of Shiitake Mushrooms. Ramakrishna Nalagorla, Catherine Sabota* and Caula Beyl, Alabama A&M University

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*1, Craig Charron2, Carl Sams1 and Fred Allen1, (1)University of Tennessee, (2)USDA-ARS

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

Determination of Bioavailable Nitrogen and Phosphorus from Broiler Litter. W. Ashley Hammac* II, C. Wesley Wood, Yucheng Feng, Oladiran Fasina, Joey Shaw and Brenda Wood, Auburn University

The Role of Soil Phosphorus in South Florida Agricultural and Natural Ecosystems. Yuncong Li*, Tropical Research and Education Center/University of Florida

Mowing and Nitrogen Source Effects on Ammonia Volatilization from Fertilizers Applied to Turfgrass. Ellen C. Knight*, C. Wesley Wood and Elizabeth Guertal, Auburn University

Long-Term Effects of Tillage and Manure Application on Soil Carbon and Nitrogen Mineralization. Dexter Watts*, H. Allen Torbert and Steven Prior, USDA-ARS National Soil Dynamics Laboratory

OpenAg.Info: A Geospatial Technologies and Precision Agriculture Education Initiative. Jared D. Williams*, David A. Crouse and Rob E. Austin, North Carolina State University

Effects of Soil Management and Landscape Factors on Greenhouse Gas Emissions. Catherine N. Gacengo*1, C. Wesley Wood1, Joey N. Shaw1, Kipling S. Balkcom2 and Randy Raper2, (1)Department of Agronomy and Soils, (2)USDA-ARS

Persistence of Bifenthrin and Chlorpyrifos in Nursery Soils. Sam O. Dennis*, 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 Rooms
“The Future of Animal Agriculture in North America”

SAAS Reception
6:30-8:30 PM
Wyndham Orlando Resort, Poolside 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*, Oklahoma State University.
8:45 AM Leaf Fatty Acid Profiles of Bahiagrass Clones During Fall Regrowth in North Florida. Jacque W. Breman*1, George Person2, Ann Blount2 and K. H. Quesenberry3, (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*, Ann Blount and Kenneth Quesenberry, University of Florida
9:15 AM Is Creeping Signalgrass an Alternative to Bahiagrass for Cow-Calf Grazing in Florida? Ike V. Ezenwa*1, John Arthington2, Rob S. Kalmbacher2 and Findlay M. Pate2, (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*1, Johan M. Scholberg1, Yoana Newman2 and John Rechcigl1, (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*1, Yi Su2, David L. Monts2 and Charles A. Waggoner3, (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*1, Nathan Slaton2, James Gibbons2 and Richard Cartwright2, (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*1, Mohd Israr1 and Shivendra Sahi2, (1)Western Kentucky University, (2)Western Kentucky University
11:15 AM Use of Duo festulolium in the Remediation of Phosphorus-Enriched Soils. Daniel L. Starnes*1, Nilesh Sharma1 and Shivendra Sahi2, (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

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*1, JERRY B. SARTAIN2, Martin Adjel1, John Rechcigl1 and Craig Stanley1, (1)University of Florida, (2)Soil and Water Science Department

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**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

8:45 AM  **Transferability of NIRS Soil C Measurement Techniques Across Systems.** Jason P. Wight*1, Fred Allen1, Nicole Labbe2 and Timothy G. Rials2, (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*1, H. Lee Stribling2, Brenda H. Wood1 and Steven D. Mitchell1, (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*¹, Dong-Wook Shin¹, Justin Schoof¹, James Jones² and James J. O'Brien³, (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

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*¹, Donald J. Boquet² and Alphonse B. Coco¹, (1)LSU AgCenter, (2)LSU AgCenter Macon Ridge Research Station

11:30 AM **X-ray Based Soybean Root Visualization and Characterization.** Fred Allen*¹, Dan McDonald², Richard Johnson¹ and Ronald Michaels², (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 Esechie* and Ahmed Al-Saidi, Sultan Qaboos University

2:30 PM **Southern Branch-ASA Business Meeting.** Presiding: Daren Redfearn, Oklahoma State University