Southern Branch, American Society of Agronomy Program

Annual Meeting February 7-8, 2010

Wyndham Orlando Resort, Orlando, Florida

2009-2010 Officers

President: Dr. M. Wayne Ebelhar, Mississippi State Univ.
Vice President & Program Chair: Dr. Carl R. Crozier, North Carolina State Univ.
Secretary: Dr. Rebecca A. Gilfillen, Western Kentucky Univ.
Treasurer: Dr. Dennis J. Osborne, North Carolina State Univ.
Past President: Dr. Nathan A. Slaton, Univ. of Arkansas

Sunday, February 7, 2010

Registration: 7:00 AM- 4:00 PM
Palms Ballroom Salon A Foyer

1:00 PM-5:00 PM
Graduate Student Poster Competition - Crops
Palms Ballroom Salon E

**Authors Present 1:00 PM - 5:00 PM**

2. Evaluation of Trinexapac-Ethyl to Reduce Lodging for Hybrid Rice. Kevin A. Dillon*, Timothy W. Walker, Clifford H. Koger and Jac J. Varco, Mississippi State University
5. In Vitro Rooting of Arachis Paraguariensis On Agar Medium. O. O. Aina* and K. H. Quesenberry, University of Florida
7. Castor Plant Breeding in Texas. Laura Masor*, Steve Hague¹ and Dick Auld², (1)Texas A&M University, (2)Texas Tech Univ.

Graduate Student Poster Competition - Soils
Palms Ballroom Salon E

**Authors Present 1:00 PM - 5:00 PM**

9. Activated Carbon From Almond Shells to Adsorb the Heavy Metals From Contaminated Water and Soil. Amal H. Elamin* and Muchha R. Reddy, NC A&T STATE UNIVERSITY
12 **Nitrogen and Sulphur On Marandu Palisadegrass Root System.** Adriana G. Artur*, Francisco A. Monteiro, Pedro V. F. Machado and Rafael R. Monteiro, University of Sao Paulo

13 **Carbon and Nitrogen Mineralization From a Gelatin Industry Biological Sludge.** Rita C. M. Guimarães, Mara C. P. Cruz, Carlos A. K. Taniguchi*, Manoel E. Ferreira, Ana F. G. Faria and Thiago M. Santos, Sao Paulo State University

---

**Professional Poster - Crops**

**Authors Present 1:00 PM - 5:00 PM**

**19 Early Rotation Shoot Production of Bamboo (Phyllostachys sp.) On An Upland Soil.** David M. Burner* and Melanie L. Harrison Dunn, USDA-ARS

**20 Regional Collaborative Research On Cold Tolerance of Exotic Biofuel Grasses.** David M. Burner*1, Thomas Tew1, David Belesky1, Anna Hale1, Jim Kini1, Melanie L. Harrison Dunn1, Michael W. Hotchkiss1, Felix Fritschi2, Edward P. Richard Jr.1 and Paul Carver3, (1)USDA-ARS, (2)Univ. of Missouri, Columbia, (3)Bical

**21 Ascertaining in-Season Growth Habits of Cotton Using End-of-Season Plant Mapping.** Glen L. Ritchie* and Wheelus Davis, Univ. of Georgia

**22 Stockpiling EliteTall Fescue Cultivars.** Rocky Lemus*, Mississippi State University

**23 Interaction of Seeding Rates and Cultivars for Twin-Row Corn Production in Mississippi.** M. Wayne Ebelhar*, Davis R. Clark1 and Jerry L. Singleton2, (1)Mississippi State Univ., (2)Mississippi State University - Extension Service

**24 Effect of Corn, Soybean, and Cotton Rotation On Yield and Profitability.** Davis R. Clark*, M. Wayne Ebelhar and Steve W. Martin, Mississippi State Univ.

**25 Economic Analysis of Seeding Rate and Seed Cost of Recently Released Peanut Cultivars.** John P. Beasley* Jr.1, Nathan B. Smith2 and R. Scott Tubbs2, (1)Univ. of Georgia, (2)University of Georgia

**26 Influence of Seeding Rate On Weed Pressure and Plant Growth of Different Maturity Groups Soybeans.** Pawel Wiatrak*, Clemson Univ.

---

**Professional Poster – Soils**

**Authors Present 1:00 PM - 5:00 PM**

**27 The Aardvark: A Durable and Transportable Soil Borehole Permeameter.** Thomas G. Macfie*, Soil Science Inc


**29 Corn and Cotton Response to Biosolids and Poultry Manure in Two Precision Leveled Fields.** Morteza Mozaffar*, Nathan A. Slaton, Cindy G. Herron and Stephen D. Carroll, Univ. of Arkansas

**30 Biomass Cropping Effect On Water Quality in a Manure-Impacted Spodosol.** Maria L. Silveira*, Xiaolin Su1, Joao Vendramini1, Lynn E. Sollenberger2 and George A. O'Connor2, (1)University of Florida, (2)Univ. of Florida

**31 Temporal Distribution of Nutrients in Creeks of the Collins River Sub-Watershed Dominated by Nursery Crop Production.** Sam O. Dennis*1, Alvarzena Clardy1, Teferi Tsegay2 and Debbie Eskandarnia1, (1)Tennessee State University, (2)Alabama A&M Univ.

**32 Remediation of Soil Nutrient Accumulation by Poultry Litter through Prescription Based Inorganic Fertilizer Application.** Annesly Netthisinghe**, Rebecca Gilfillen1, Todd Willian1, Naomi Rowland1 and Karamat Sistani2, (1)Western Kentucky Univ., (2)USDA-ARS, Animal Waste Manage. Res. Unit

**33 Remediation of Soil Nutrient Accumulations Following Poultry Litter Application.** R.A. Gilfillen*1, W.T. Willian1, N.S. Rowland1 and Karamat R. Sistani2, (1)Western Kentucky Univ., (2)USDA-ARS

---

**Undergraduate Student Poster (Crops and Soils)**

**Authors Present 1:00 PM - 5:00 PM**

**14 The Effects of Natural and Induced Short-Term Floods On Four Sugarcane Clones.** Ricardo Joseph*, Stewart Reed1, Tomas Ayala-Silva1, Barry Glaz2 and Jack Comstock2, (1)USDA-ARS-SHRS, (2)USDA-ARS

**15 Effect of Potassium and Glyphosate Foliar Applications On Mineral Concentrations in Soybean Cultivars.** Tiffany L. Little*, Tyneiseca Epps, Mudlagiri B. Goli and Manju Pande, Mississippi Valley State University

**16 Soybean Seed Composition as Affected by Foliar K and Applications and Cultivar Differences.** Tyneiseca Epps*, Mudlagiri B Goli and Manju Pande, Mississippi Valley State University

**17 Comparison of Warm Season Legume Production Under Drip Irrigation in the Summer in a Semi-arid Region of West Texas.** Colton D. Laws*, Melanie W. Shinsky, Michael Nicodemus, Florah N. Mhlanga and Ellice Pierce, Abilene Christian University

**18 Development of Transgenic Medicago Harboring cry2A Gene From the Bacillus Thuringiensis to Confer Resistance towards Insects.** Shivendra V. Sahi and Jared Logan Mink*, Western Kentucky University
Monday, February 8, 2010

Registration: 7:00 AM- 4:00 PM
Palms Ballroom Salon A Foyer

7:50 AM - 10:30 AM
Graduate Student Oral Competition - Crops & Soils
Palms Ballroom Salon A

7:50 AM Introductory Remarks.
7:55 AM Impacts of FIVE Forage Grass SPECIES ON Selected SOIL PROPERTIES. Robert S. Tokosh1, Lin P. Handayani1 and Mark S. Coyne2, (1)Murray State University, (2)University of Kentucky
8:10 AM Effects of Indole-3-Acetic Acid Exogenously Applied to Cotton Species. Jenny Clement1, Steve Hague2 and Jean Gould1, (1)Texas A&M University, (2)Texas A&M Univ.
8:40 AM Evaluation of Runner-Type Peanut Cultivars and Approved Fungicides for Use in Organic Production. Dylan Q. Wann*, University of Georgia - Tifton, R. Scott Tubbs, University of Georgia and Albert K. Culbreath, Univ. of Georgia, Tifton Campus
8:55 AM Discussion.
9:05 AM Break.
9:30 AM Generation of Transgenic Medicago Sativa Resistant to Biotic and Abiotic Stresses by Expressing “Osmotin-Chitinase” Gene Chimera. Jahnavi reddy Kancharla*, Shivendra Sahi and Ajay Jain, Western Kentucky University
9:45 AM Evaluation of Upland x Sea Island Inbred Lines. Neha Kothari*, Texas A&M University, Steve Hague, Texas A&M Univ. and C. Wayne Smith, Texas A&M University
10:00 AM Discussion & Break.

10:30 AM - 12:00 PM
Professional Oral - Crops & Soils - I
Palms Ballroom Salon A

10:30 AM Introductory Remarks.
11:01 AM Manure Treatment for Green and Profitable Farming Systems of the Southeastern USA. Patrick Hunt1, Keri Cantrell1, Kyong Ro1, Matias Vanotti2, Ariel Szogi2, Jeff M. Novak3, Warren Busscher2 and Thomas Ducey1, (1)USDA-ARS, (2)USDA-ARS, Coastal Plains Soil, Water, Plant Res. Center, (3)USDA-ARS, Coastal Plains Res.
11:46 AM Discussion.

1:00 PM - 6:00 PM
Professional Oral - Crops & Soils - II & Bus. Mtg
Palms Ballroom Salon A

1:00 PM Introductory Remarks.
1:01 PM Single-Row Vs Twin-Row Corn Production in the Mississippi Delta. M. Wayne Ebelhar* and Davis R. Clark, Mississippi State Univ.
1:16 PM Agronomic and Economic Comparisons of Row Spacing and Row Patterns for Peanut. R. Scott Tubbs1, John P. Beasley Jr.2 and Nathan B. Smith1, (1)University of Georgia, (2)Univ. of Georgia
1:31 PM Utilization of Spectral Reflectance and Geographic Information System (GIS) Analysis for Bermudagrass Selection and Improvement. Brian M. Schwartz*, University of Georgia and Dana G. Sullivan, TurfScout
Effect of Planting Date and Cultivar On Corn Yield in the Mississippi Delta. M. Wayne Ebelhar* and Davis R. Clark, Mississippi State Univ.

Genotypic Differences in the Economic Analysis of Maize “Hybrid” Vs. “Local Cultivars” Applied with Variable Rates of Different Nitrogenous Fertilizer Sources. Amanullah Khan*, West Texas A&M University, Canyon, TX

Discussion / Break.

Carbon Footprint of Strawberry Production in Florida. Clyde Fraisse*, Univ. of Florida and Alfred Herndon, AgriHelp Inc.

Assessment of the Release of Floodplain Mercury Source to Downstream Aqueous Mercury in the Watershed of Oak Ridge, TN. Fengxiang Han*, Yi Su, David Monts, Charles Waggoner and Yunju Xia, Mississippi State Univ.

Effects of Compost and Tillage On Soils and Nutrient Losses in a Simulated Residential Landscape. Amy L. Shober*, Shawna Loper and Craig Stanley, University of Florida

Effect of Calcium Silicate On the Productivity and Silicon Accumulation in the Sugarcane Plant. Shaikh Mohammad Bokhtiar*, Bangladesh Sugarcane Research Institute

4R Nutrient Stewardship. Steve Phillips*, International Plant Nutrition Institute

Concluding Remarks.

So. Branch ASA Business Meeting.

Adjourn.