

**Southern Branch, American Society of Agronomy Program**

**Annual Meeting February 7-8, 2010**

**Wyndham Orlando Resort, Orlando, Florida**

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**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**

- 1 **Evaluation of Wheat Genotypes for Grain Filling by Stem Reserves Utilization for Under Normal and Water Stress Conditions.** Saeed Farhangi\* V, Research Agriculture Center, Mashad, Iran.
- 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
- 3 **A Simple in Vitro Seed Germination Assay to Classify Switchgrass Genotypes for Thermotolerance.** Ramdeo Seepaul\*, Bisoondat Macoon, K. Raja Reddy and Brian Baldwin, Mississippi State University
- 4 **Water Deficit Effects On Growth and Reproductive Performance of Cotton.** Suresh B. Lokhande\*, K. Raja Reddy and David Brand, Mississippi State University
- 5 **In Vitro Rooting of *Arachis Paraguariensis* On Agar Medium.** O. O. Aina\* and K. H. Quesenberry, University of Florida
- 6 **Continued Studies of Past Broiler Litter Applications On Soybeans.** Joshua L. Scott\*, David L. Ferguson, Iin P. Handayani and John D. Mikulcik, Murray State University
- 7 **Castor Plant Breeding in Texas.** Laura Masor\*<sup>1</sup>, Steve Hague<sup>1</sup> and Dick Auld<sup>2</sup>, (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**

- 8 **Identifying Soil Phosphorus Sources and Sinks within Land-Use Systems of the Lake Okeechobee Basin.** Julia M. Showalter\*, Vimala D. Nair, Debolina Chakraborty, Yunlong Liu and Zhenli He, University of Florida
- 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
- 10 **Dry Matter Production of Corn in Soils Amended with Gelatin Industry Biological Sludge.** Carlos A. K. Taniguchi\*, Manoel E. Ferreira, Mara C. P. Cruz, Thiago M. Santos, Ana F. G. Faria and Rita C. M. Guimarães, Sao Paulo State University
- 11 **Comparing Organic Carbon Pools in Riparian Soils of Two Contrasting Watershed Ecosystems.** Robert S. Tokosh\* and Iin P. Handayani, Murray 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

Palms Ballroom Salon E

#### 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\*<sup>1</sup>, Thomas Tew<sup>1</sup>, David Belesky<sup>1</sup>, Anna Hale<sup>1</sup>, Jim Kiniry<sup>1</sup>, Melanie L. Harrison Dunn<sup>1</sup>, Michael W. Hotchkiss<sup>1</sup>, Felix Fritsch<sup>1,2</sup>, Edward P. Richard Jr.<sup>1</sup> and Paul Carver<sup>3</sup>, (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 Elite Tall Fescue Cultivars.** Rocky Lemus\*, Mississippi State University

23 **Interaction of Seeding Rates and Cultivars for Twin-Row Corn Production in Mississippi.** M. Wayne Ebelhar\*<sup>1</sup>, Davis R. Clark<sup>1</sup> and Jerry L. Singleton<sup>2</sup>, (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.<sup>1</sup>, Nathan B. Smith<sup>2</sup> and R. Scott Tubbs<sup>2</sup>, (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

Palms Ballroom Salon E

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

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

28 **Poultry Manure Nutrient Availability in Conventional and No-till Production.** Carl Crozier\*, T. Jot Smyth, Deanna Osmond and Alan Meijer, North Carolina State Univ.

29 **Corn and Cotton Response to Biosolids and Poultry Manure in Two Precision Leveled Fields.** Morteza Mozaffari\*, 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\*<sup>1</sup>, Xiaolin Sui<sup>2</sup>, Joao Vendramini<sup>1</sup>, Lynn E. Sollenberger<sup>2</sup> and George A. O'Connor<sup>2</sup>, (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\*<sup>1</sup>, Alvarzena Clardy<sup>1</sup>, Teferi Tsegaye<sup>2</sup> and Debbie Eskandarnia<sup>1</sup>, (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\*<sup>1</sup>, Rebecca Gilfillen<sup>1</sup>, Todd Willian<sup>1</sup>, Naomi Rowland<sup>1</sup> and Karamat Sistani<sup>2</sup>, (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\*<sup>1</sup>, W.T. Willian<sup>1</sup>, N.S. Rowland<sup>1</sup> and Karamat R. Sistani<sup>2</sup>, (1)Western Kentucky Univ., (2)USDA-ARS

### Undergraduate Student Poster (Crops and Soils)

Palms Ballroom Salon E

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

14 **The Effects of Natural and Induced Short-Term Floods On Four Sugarcane Clones.** Ricardo Joseph\*<sup>1</sup>, Stewart Reed<sup>1</sup>, Tomas Ayala-Silva<sup>1</sup>, Barry Glaz<sup>2</sup> and Jack Comstock<sup>2</sup>, (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 Semiarid 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. Tokosh<sup>\*1</sup>, lin P. Handayani<sup>1</sup> and Mark S. Coyne<sup>2</sup>, (1)Murray State University, (2)University of Kentucky

8:10 AM **Effects of Indole-3-Acetic Acid Exogenously Applied to Cotton Species.** Jenny Clement<sup>\*1</sup>, Steve Hague<sup>2</sup> and Jean Gould<sup>1</sup>, (1)Texas A&M University, (2)Texas A&M Univ.

8:25 AM **Influence of Maturity Group, Row Pattern, and Seeding Rate On Soybean Grown On Silt Loam Soils.** Kevin A. Dillon<sup>\*</sup>, Clifford H. Koger and Timothy W. Walker, Mississippi State University

8:40 AM **Evaluation of Runner-Type Peanut Cultivars and Approved Fungicides for Use in Organic Production.** Dylan Q. Wann<sup>\*</sup>, 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.**

9:15 AM **Development of Cotton with Gossypol-Free Seed.** Rosita Jauregui<sup>\*</sup>, Steve Hague and Keerti Rathore, Texas A&M University

9:30 AM **Generation of Transgenic Medicago Sativa Resistant to Biotic and Abiotic Stresses by Expressing "Osmotin-Chitinase" Gene Chimera.** Jahn timereddy Kancharla<sup>\*</sup>, Shivendra Sahi and Ajay Jain, Western Kentucky University

9:45 AM **Evaluation of Upland x Sea Island Inbred Lines.** Neha Kothari<sup>\*</sup>, 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.**

10:31 AM **Evaluation of the Nitrogen-Fertilizer Value of Poultry Litter for Winter Wheat in Arkansas.** Nathan A. Slaton<sup>\*</sup>, Russell DeLong and Brett Gordon, Univ. of Arkansas

10:46 AM **Commercial Microbial Inoculums and Their Effect on Plant Growth and Development: A Synopsis of Current Literature and Case Studies.** Peter G. Kalogridis<sup>\*</sup>, ICC Management and Robert J. McGovern, University of Florida

11:01 AM **Manure Treatment for Green and Profitable Farming Systems of the Southeastern USA.** Patrick Hunt<sup>\*1</sup>, Keri Cantrell<sup>1</sup>, Kyoung Ro<sup>1</sup>, Matias Vanotti<sup>2</sup>, Ariel Szogi<sup>2</sup>, Jeff M. Novak<sup>1</sup>, Warren Busscher<sup>3</sup> and Thomas Ducey<sup>1</sup>, (1)USDA-ARS, (2)USDA-ARS, Coastal Plains Soil, Water, Plant Res. Center, (3)USDA-ARS, Coastal Plains Res.

11:16 AM **Effect of Feeding Wet Distillers Grains On Phosphorus in Feedlot Manure and Surface Runoff.** Paul DeLaune<sup>\*</sup>, Texas AgriLife Research

11:31 AM **Effect of Soil Temperature and pH On Mineralization of Polymeric Urea-Based Nitrogen.** John Kruse<sup>\*1</sup>, James Wargo<sup>1</sup>, Upendra Singh<sup>2</sup>, Daniel I. Leskovar<sup>3</sup> and Kurt Gabrielson<sup>1</sup>, (1)Georgia-Pacific Corporation, (2)Intl. Fertilizer Development Ctr., (3)Texas A&M University

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<sup>\*</sup> and Davis R. Clark, Mississippi State Univ.

1:16 PM **Agronomic and Economic Comparisons of Row Spacing and Row Patterns for Peanut.** R. Scott Tubbs<sup>\*1</sup>, John P. Beasley Jr.<sup>2</sup> and Nathan B. Smith<sup>1</sup>, (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<sup>\*</sup>, University of Georgia and Dana G. Sullivan, TurfScout

- 1:46 PM **Effect of Planting Date and Cultivar On Corn Yield in the Mississippi Delta.** M. Wayne Ebelhar\* and Davis R. Clark, Mississippi State Univ.
- 2:01 PM **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
- 2:16 PM **Discussion / Break.**
- 2:31 PM **Carbon Footprint of Strawberry Production in Florida.** Clyde Fraisse\*, Univ. of Florida and Alfred Herndon, AgriHelp Inc.
- 2:46 PM **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.
- 3:01 PM **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
- 3:16 PM **Effect of Calcium Silicate On the Productivity and Silicon Accumulation in the Sugarcane Plant.** Shaikh Mohammad Bokhtiar\*, Bangladesh Sugarcane Research Institute
- 3:31 PM **4R Nutrient Stewardship.** Steve Phillips\*, International Plant Nutrition Institute
- 3:46 PM **Concluding Remarks.**
- 4:00 PM **So. Branch ASA Business Meeting.**
- 6:00 PM **Adjourn.**