

Sunday, February 3, 2008

Registration

12:00 PM–5:00 PM

Dallas Adam's Mark-Convention Center, Grand Hall, 1st Floor

Poster Session

Dallas Adam's Mark-Convention Center, Grand Hall, 1st Floor

Authors Present 3:00 PM–6:00 PM

Graduate Student Competition

- 1 **Measurement of CO₂ Exchange in a Peanut Field: Response to Temperature and Soil Moisture.** Natchaya Pingingtha^{*1}, Monique Leclerc¹, John P. Beasley Jr.², Jinkyu Hong¹, Gengsheng Zhang¹ and Chuckree Senthong³, (1) The University of Georgia, (2) University of Georgia, (3) Chiang Mai University
- 2 **Tropical Open Pollinated Corn (*Zea mays*) Forage and Grain Yields in Southern Honduras.** Kent Gallaher, Abilene Christian Univ., Dylan Wann*, Abilene Christian University and Raymond Gallaher, University of Florida
- 3 **Effects of Soil-Applied Imidacloprid on the Control of Two Foliage Feeding Citrus Pests.** Delfino Rodriguez^{*1}, Dr Shad D. Nelson², Mamoudou Sétamou¹ and Robert Saldana¹, (1) Texas A&M University-Kingsville Citrus Center, (2) Texas A&M University-Kingsville
- 4 **Germination and Growth Response of Tomato Transplants to Different Cover Materials and Organic Rooting Substrates.** Kurt O. Taylor^{*1}, Muchha R. Reddy¹, Carl E. Niedziela Jr.¹ and Mary M. Peet², (1) North Carolina Agricultural and Technical State University, (2) North Carolina State University
- 5 **Response of Soil CO₂ Efflux to Rainfall Variability in Wheat and Peanut Fields.** Chompunut Chayawat^{*1}, Monique Leclerc¹, Jinkyu Hong¹, John P. Beasley Jr.² and Chuckree Senthong³, (1) University of Georgia, (2) University of Georgia, (3) Chiang Mai University
- 6 **Residual Effects of Previous Broiler Litter Applications on Soybean Productivity.** Matt Upchurch*, David Ferguson, Iin Handayani and John Mikulcik, Murray State University
- 7 **Buffalograss Response to Swine Effluent and Urea N: A 7 Year Study.** J. Clemn Turner* and Jeff Hattey, Oklahoma State University
- 8 **Nutrient Changes in Densified Broiler Litter.** Laura E. Sturgeon*, C. W. Wood, J. P. Fulton and B. H. Wood, Auburn University
- 9 **Ammonia Losses from Surface Applied Urea-Based Nitrogen Fertilizers.** Fernando Ducamp^{*1}, Charles Mitchell¹, Francisco Arriaga² and Kipling Balkcom², (1) Auburn University, (2) USDA-ARS
- 10 **Effect of Organic Production Systems on Arylsulfatase Activities.** Terrence G. Gardner* and Zachary N. Senwo, Alabama A&M University

Posters – Crops

- 11 **Short-Term (1948-2001) Temperature and Rainfall Trends for the South-Central USA.** David Burner*, USDA-ARS
- 12 **Lone Star Healthy Streams: Reducing Bacteria in Texas Waterways.** Larry Redmon*, Texas A&M University - Rangeland Ecology & Management and Kevin L. Wagner, Texas Water Resources Institute
- 13 **Effects of Planting Date on Agronomic Performance and Yield of Two Bt Corns in the Mississippi Delta.** Lingxiao Zhang*, M. Wayne Ebelhar and Bernie White, Mississippi State University
- 14 **Late Season Aerification and Topdressing Effects on *Cynodon dactylon* Spring Green-up.** Paul B. Woosley*, Western Kentucky University
- 15 **A Survey on Agriculture Student's Views and Expectations of Coop Courses and Internship Experiences.** Paul B. Woosley* and John Kessell, Western Kentucky University
- 16 **Herbicides and Intercultivation Improves Weed Control in Winter Canola.** Udai R. Bishnoi* and Lekhanath Paudel, Alabama A&M University
- 17 **Mobile Biodiesel Processing Unit Launched in Alabama: A Biodiesel Classroom on Wheels.** Ernst Cebert*, Alabama A&M University

- 18 **Screening of Early Maturing Winter Canola Lines for Resistance to Blackleg Disease.** Rufina Ward*, Leopold Nyochembeng and Ernst Cebert, Alabama A&M University
- 19 **Effects of Avail on Phosphorus Utilization of 'Tifton' 85 Bermudagrass.** Brandon Stewart*¹, Paul A. Beck², Larry Murphy³ and Melissa M. Beck¹, (1) University of Arkansas, (2) University of Arkansas Southwest Research & Extension Center, (3) Fluid Fertilizer Foundation
- 20 **Response of Determinate and Indeterminate Soybeans to Bradyrhizobium japonica Seed Inoculation on a Clay Soil Following Rice.** Paul Francis*¹, Dain Strickland² and C. Robert Stark¹, (1) University of Arkansas at Monticello, (2) University of Arkansas

Posters – Soils

- 21 **Influence of Nitrogen Fertilizer Placement on Corn Yield in Single and Twin Row Production Systems.** Henry J. Mascagni* Jr. and Robert Bell, LSU AgCenter
- 22 **Soil Carbon and Nitrogen Measurements under different Crops and Land Management.** Rocky Lemus, Mississippi State University, Lawrence C. Garcia*, Natural Resources Conservation Service and David Colbert, Texas A&M University - Commerce
- 23 **Phytoremediation Technology for Land Rehabilitation.** Joel L. Douglas*¹, Jerry Lemunyon¹, Bill Kuentler¹, James Henson¹ and Peter Kulakow², (1) Natural Resources Conservation Service, (2) Kansas State University - Plant Pathology
- 24 **Nitrogen and Potassium Fertilizer Response for Non-Irrigated Cotton Production.** Davis R. Clark* and M. Wayne Ebelhar, Mississippi State University

SAAS Opening Session

4:00 PM–6:00 PM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

SAAS Reception

6:00 PM–10:00 PM

Dallas Adam's Mark-Convention Center, Dallas Ballroom B/C, 1st Floor

Monday, February 4, 2008

Graduate Student Oral Competition—Crops

7:55 AM–10:00 AM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

Presiding: Richard J. Norman, University of Arkansas

- 7:55 AM **Introductory Remarks**
- 8:00 AM **Standardizing Surface Temperature Estimation from Airborne Thermal Imager in Crop Water Stress Assessment.** Jessica Torrion*, Texas Tech Agronomy Club and Stephan Maas, USDA-ARS
- 8:15 AM **Evaluation of Vitazyme as a Fertilizer Supplement in Establishing and Maintaining Bermudagrasses.** Jack Rose* and Hennen Cummings, Tarleton State University
- 8:30 AM **Bermudagrass Forage Yield and Ammonia Volatilization as Affected by Nitrogen Fertilization.** Colin G. Massey*, Nathan A. Slaton, Russell E. DeLong, Bobby L. Golden, Elliot T. Maschmann and Trent L. Roberts, University of Arkansas
- 8:45 AM **Quantitative Trait Loci Mapping Heat Tolerance during Reproductive Development in Wheat (*Triticum aestivum*).** Richard Esten Mason*¹, Suchismita Mondal², Jung Hwa Do¹ and Dirk B. Hays¹, (1) Texas A&M University, (2) Texas A & M University
- 9:00 AM **Potassium Deficiency Influences Rice Growth and Yield.** Elliot Maschmann*, Nathan Slaton, Russell DeLong, Bobby Golden and Pietro Micheri, University of Arkansas

- 9:15 AM **Fall-raised Beds for Improved Digging Efficiency of Strip-till Peanut.** J. L. Jackson**, J.P. Beasley Jr., R.S. Tubbs, R.D. Lee and T.L. Grey, University of Georgia
- 9:30 AM **Discussion**
- 9:40 AM **Break**

Graduate Student Oral Competition—Soils

10:00 AM–12:00 PM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

Presiding: John P. Beasley Jr., University of Georgia

- 10:00 AM **Introductory Remarks**
- 10:05 AM **Chelate-Assisted Phytoextraction Potential of Vetiver Grass in Reducing Human Bioaccessibility of Soil Lead.** Syam Sundar Andra*, Rupali Datta, Dibyendu Sarkar and Sumathi K. M. Saminathan, Environmental Geochemistry Laboratory, University of Texas at San Antonio
- 10:20 AM **TNT Adsorption in Chemically Variant Soils: Preliminary Studies.** Padmini Das*, Konstantinos C. Makris, Dibyendu Sarkar, Rupali Datta and Pravin Punamiya, University of Texas at San Antonio
- 10:35 AM **Evaluation of Polymer-Coated Urea as an Alternative to Preflood Urea for Delayed-Flood Rice.** Bobby Golden*, Nathan Slaton, Russell Delong and Richard Norman, University of Arkansas
- 10:50 AM **Stormwater Runoff Analysis for the University of Arkansas Campus Area.** Keshia Koehn*, Univ. of Arkansas CSES Club
- 11:05 AM **Spatial Patterns of Physical Properties in Heterogeneous Citrus Soils of Florida.** Kirandeep Mann*, Arnold Schumann and Thomas Obreza, University of Florida
- 11:20 AM **Ammonia Volatilization from Field-Simulated Cattle Defecation and Urination.** Michael J. Mulvaney*, Keith Cummins, C. W. Wood, Brenda H. Wood and Patty J. Tyler, Auburn University
- 11:35 AM **Effect of Arbuscular Mycorrhizal Fungi on Cadmium Uptake by Brassica juncea: An Incubation Study.** Pravin Punamiya*, Rupali Datta, Mandakini Patel, Dibyendu Sarkar and Padmini Das, University of Texas at San Antonio
- 11:50 AM **Discussion**
- 12:00 PM **Lunch**

Soil and Water

1:10 PM–3:00 PM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

Presiding: Nathan Slaton, University of Arkansas

- 1:10 PM **Introductory Remarks**
- 1:15 PM **Cover Crop Management Effects on Microclimate and Soil Biological Activity.** Larry Zibilske* and Donald Makus, USDA-ARS
- 1:30 PM **Antioxidative Responses and Arsenic Localization in the Arsenic-Hyperaccumulator Chinese Brake Fern (*Pteris vittata* L.).** Mandakini J. Patel*¹, Rupali Datta¹, Pravin Punamiya¹, Dibyendu Sarkar¹ and Shivendra Sahi², (1) University of Texas at San Antonio, (2) Western Kentucky University
- 1:45 PM **Soil Microbial Diversity, Structure and Functioning Under Alternative Systems to Continuous Cotton.** Veronica Acosta-Martinez*¹, Gloria Burow¹ and Vivien G. Allen², (1) USDA-ARS, (2) Texas Tech University
- 2:00 PM **Soil Carbon Pools and Aggregation under Endophyte-infected and Endophyte-Free Tall Fescue.** I.P. Handayani*¹, M.S. Coyne² and T. Phillips², (1) Murray State University, (2) University of Kentucky

2:15 PM **Monitoring Water Wells in Middle Tennessee with down Well Camera.**
Samuel Dennis^{*1}, Desh Duseja¹, Paul F. Vendrell² and Alvin Wade¹, (1)
Tennessee State University, (2) University of Georgia

2:30 PM **Discussion**

2:40 PM **Break**

Forages

3:00 PM–4:30 PM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

Presiding: Daren Redfearn, Oklahoma State University Extension

3:00 PM **Introductory Remarks**

3:05 PM **Seeded Bermudagrass Evaluations Across the Southeastern USA.** Gerald Evers^{*1}, William Anderson², David Lang³, Charlie Rodgers⁴ and Brandon Shankle³, (1) Texas A&M University - Rangeland Ecology & Management, (2) USDA-ARS, (3) Mississippi State University, (4) Seeds West

3:20 PM **Growth and Quality of Cool-Season Perennial Grass Species in the Southern Great Plains.** Samuel W. Coleman^{*1}, Srinivas C. Rao², Jerry Volesky³ and William A. Phillips², (1) USDA-ARS, Subtropical Agricultural Research Station, (2) USDA-ARS, (3) University of Nebraska

3:35 PM **Levels of Nitrogen in Soils, Plants and Shallow Groundwater Beneath Bahiagrass-Based Pastures with Cow-Calf Operations.** Gilbert C. Sigua^{*1}, Robert K. Hubbard² and Samuel W. Coleman¹, (1) USDA-ARS, Subtropical Agricultural Research Station, (2) Southeast Watershed Research Laboratory, USDA-ARS

3:50 PM **Phosphorus Acquisition by Duo Grass (*Duo festulolium*) is Enhanced in the Presence of Various P- Sources in the Growth Media.** Priya Padmanabhan¹, Kenneth Sajwan² and Shivendra Sahi^{*1}, (1) Western Kentucky University, (2) Savannah State University

4:05 PM **Defoliation Management Effects on Tifton-85 Bermudagrass Greenchop Production and Pest Problems.** Yoana C. Newman^{*1}, Kevyn Juneau², Norman Leppla², Clyde W. Fraisse², Mary C. Christman³ and Jennifer Gillett³, (1) University of Florida - Agronomy Department, (2) University of Florida, (3) University of Florida - IFAS

4:20 PM **Discussion**

4:30 PM **Adjourn**

Business Meeting

4:30 PM–5:30 PM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

Presiding: Kipling Balkcom, USDA-ARS

Tuesday, February 5, 2008

Row Crops I

8:00 AM–9:45 AM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

Presiding: Jason Kelley, University of Arkansas Cooperative Extension Service

8:00 AM **Introductory Remarks**

8:05 AM **Comparing Maturity Group IV Soybeans with Later Groups in South Carolina.** Pawel Wiatrak^{*}, Clemson University

8:20 AM **Response of Peanut Cultivars to Planting Date.** J. P. Beasley^{*} Jr., R.S. Tubbs, J.E. Paulk III, R.C. Kemerait, Albert K. Culbreath and T.B. Brenneman, University of Georgia

8:35 AM **Sulfur Application on High pH Soils to Improve Nutrient Availability.** Robert Wiedenfeld^{*}, Texas Agricultural Experiment Station (Main Office)

- 8:50 AM **Italian Ryegrass Management in Texas Wheat.** Gaylon Morgan*, Texas A&M University - Soil & Crop Sciences
- 9:05 AM **Improving Phosphorus Fertilization Recommendations for Rice.** Timothy Walker*¹, Michael Cox¹, Nathan Slaton², Jason Bond¹ and Jason M. Satterfield¹, (1) Mississippi State University, (2) University of Arkansas
- 9:20 AM **Evaluation of Agrotain and Nutrisphere Coated Urea Applied Preflood to Delayed-Flood Rice.** Richard J. Norman*, Trenton L. Roberts, Alice J. Enochs, Nathan A. Slaton and Charles E. Wilson, University of Arkansas
- 9:35 AM **Discussion**
- 9:45 AM **Break**

Row Crops II

10:05 AM–11:35 AM

Dallas Adam's Mark-Convention Center, Dallas Ballroom A3, 1st Floor

Presiding: Timothy Walker, Mississippi State University

- 10:05 AM **Introductory Remarks**
- 10:10 AM **Establishing Crimson Clover Following Soybean as A N Source for Corn.** Carl R. Crozier*, Alan D. Meijer, Samuel C. Reberg-Horton and George Place, North Carolina State University
- 10:25 AM **Seeding Rates and Nitrogen Rates for Twin-row Corn Production in Mississippi.** M. Wayne Ebelhar* and Davis R. Clark, Mississippi State University
- 10:40 AM **Three-year Summary of Cotton Response to Residual N and K Following Corn Production in the Mississippi Delta.** Davis R. Clark* and M. Wayne Ebelhar, Mississippi State University
- 10:55 AM **Initial Comparison of Seeding Rates and N Rates for Single-row and Twin-row Corn Production.** M. Wayne Ebelhar* and Davis R. Clark, Mississippi State University
- 11:10 AM **Immediate and Residual Effect of Pelleted Poultry Litter on Corn in Arkansas.** Morteza Mozaffari*¹, Nathan A. Slaton², C. G. Herron¹ and S. D. Carroll¹, (1) University of Arkansas Soil Testing and Research Laboratory, (2) University of Arkansas
- 11:25 AM **Discussion**
- 11:35 AM **Adjourn**