AGRONOMY

Program of the Southern Branch
American Society of Agronomy Annual Meeting
February 3-5, 2019

Sheraton Birmingham Hotel
Birmingham, AL

2018-2019 OFFICERS

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SUNDAY, FEBRUARY 3, 2019

Registration: 10:00 AM - 4:00 PM  
Forum Building – Lobby – Third Floor

POSTER SESSION  
1:00 PM - 4:00 PM  
Authors Present from 1:00 PM- 3:00 PM  
Sheraton Birmingham Hotel  
Birmingham Ballroom Prefunction – First Floor

UNDERGRADUATE STUDENT POSTER COMPETITION – CROPS AND SOILS

1. **Influence of Trichoderma Species on Biomass Production and Nutritive Value of Warm-Season Annual Grasses.** Lizney Rudds, University of Arkansas - Pine Bluff; Rocky W. Lemus, Mississippi State University; Corianne Schmidt, Mississippi State University

2. **Evaluation of BMR Forage Systems for Beef Cattle Performance in Mississippi.** Corianne Schmidt, Mississippi State University; Rocky W. Lemus, Mississippi State University; Lizney Rudds, University of Arkansas - Pine Bluff

3. **Continuation of a Long-Term Copper Fertility Experiment.** Nolan M Mullican, Murray State University; James Brandon Clark, Murray State University; John D Mikulcik, Murray State University; David L Ferguson, Murray State University

4. **ALS-Inhibiting Herbicides on Germination and Seedling Growth in Two Cultivars of Switchgrass.** Calyn Adams, Mississippi State University; Jesse I. Morrison, Mississippi State University; Brian S. Baldwin, Mississippi State University

5. **Evaluating the Impacts of Tillage Systems and Cover Crops on Soil Quality.** Carrie Ann Followell, Murray State University; Ilin P. Handayani, Murray State University; David L Ferguson, Murray State University

6. **Assessing Urban and Rural Soil Characteristics in Various Ecosystems.** Gabrielle Barnes, Murray State University; Ilin P. Handayani, Murray State University; Steven M. Still, Murray State University

7. **Evaluating the Effect of Osmotic Stress Tolerance in Maize Based on in Vitro Seed Germination.** Anna Beth Gaudin, Mississippi State University; Charles Hunt Walne, Mississippi State; K. Raja Reddy, Mississippi State University

8. **Supplemental Nitrogen Use in Soybeans.** John Taylor Elliott, Abraham Baldwin Agricultural College; William Slaton Lunsford, Abraham Baldwin
9. Developing Functional Relationships between Sesame (Solanum indicum L.) Growth Development and Nitrogen Nutrition during Early-Season. Anna Beth Gaudin, Mississippi State University; Charles Hunt Walne, Mississippi State; K. Raja Reddy, Mississippi State University

GRADUATE STUDENT POSTER COMPETITION – M.S. Students

1. Corn Yield, Plant N Uptake and Environmental N Loss Differences Under Urea and Poultry Litter Application at Different Rates and Timing in Alabama Soils. Rajveer Singh, Auburn University; Rishi Prasad, Auburn University; Kip Balkcom, USDA-ARS; Elizabeth A. Guertal, Auburn University; Jasmeet Lamba, Auburn University; Brenda V. Ortiz, Auburn University

2. Cotton Response to Polyhalite Fertilization. Carson Riley Wade, Texas A&M University; Julie A Howe, Texas A&M University; Brady Arthur, Texas A&M University; Joseph Burke, Texas A&M University

3. Using Spatial Correlation Analysis to Identify Ancillary Data for Soil Fertility Mapping. Jordan Oldag, Auburn University

4. Elucidating the Combined Effects of Organic and Conventional Gain Cropping Systems with Tillage Methods on Soil Organic Carbon Distribution. James Littrell, University of Tennessee-Knoxville; Sindhu Jagadamma, University of Tennessee institute of Agriculture; Emmanuel Omondi, Rodale Institute; Sutie Xu, University of Tennessee-Knoxville

5. Soil Enzymatic Activities Under Various Customized Poultry Litter Application. Sangita Karki, Tuskegee University; Raymon Shange, Tuskegee University; Ramble O. Ankumah, Tuskegee University; Osagie Idehen, Tuskegee University

6. Radish Cover Crop Growth and Compaction Alleviation: Effects of Cultivar and Planting Date. Trevor Cofer, Auburn University; Audrey V Gamble, Auburn University

7. Soybean (Glycine max) Cultivar Response to Iron Deficiency Chlorosis. Kyle Sorrels, Mississippi State University; J. Trenton Irby, Mississippi State University; Alanna B. Scholtes, Mississippi State University; Chase A. Floyd, Mississippi State University; Charlie Stokes, Mississippi State University; Dennis Reginelli, Mississippi State University
8. Evaluation of the Impact of Fungicide Application Timing on Soybean 
(*Glycine max*) Growth, Development, and Yield. Chase A. Floyd, Mississippi State University; J. Trenton Irby, Mississippi State University; Angus L. Catchot, Mississippi State University; Thomas W. Allen, Mississippi State University; Darrin M. Dodds, Mississippi State University; Jason M. Sarver, Indigo Ag; Alanna B. Scholtes, Mississippi State University

9. Characterization of Phosphorus(P) in Poultry Litter and Determination of P Extraction Efficiency of Extractants. Poulomi Dey, Auburn University; Rishi Prasad, Auburn University; Debolina Chakraborty, Auburn University; Brendan Higgins, Auburn University; Audrey Gamble, Auburn University; Yucheng Feng, Auburn University

10. Establishment of Quail Habitat in Native Warm Season Grasses. Lori Hearon, Mississippi State University; Jesse Morrison, Mississippi State University

11. Phosphorus Characterization of Alabama Soils Under Different Management Practices for Environmental Risk Assessment. Anjan Bhatta, Auburn University; Rishi Prasad, Auburn University; Debolina Chakraborty, Auburn University; Joey N. Shaw, Auburn University; Eve Brantley, Auburn University; Jasmeet Lamba, Auburn University

12. Contributions of the First True Leaf to Seedling Vigor Under Different Field Conditions. Gurpreet Virk, University of Georgia-Tifton; John Snider, University of Georgia-Tifton; Cristiane Pilon, University of Georgia – Tifton

13. Long-Term Effects of Different Cover Crops, Tillages, and Nitrogen Fertilization Rates on Soil Properties Under Continuous Cotton System of West Tennessee. Safak Ceylan, University of Tennessee-Knoxville; Forbes R. Walker, University of Tennessee-Knoxville; Sindhu Jagadamma, University of Tennessee-Knoxville; Amin Nouri Gharahassanlou, University of Tennessee-Knoxville; Brian G. Kozlowski, University of Tennessee-Knoxville

GRADUATE STUDENT POSTER COMPETITION – Ph.D. Students


2. TBD. Ana Julia Azevedo, University of Georgia-Tifton (abstract not available)

3. Determining Proper Row Orientation and Seeding Population for Soybean Production. Richard E. Turner, Mississippi State University; M. W. Ebelhar, Mississippi State University
4. Conservation Production Systems Influence on Selected Mid-Southern USA Furrow-Irrigation Properties. Corey Bryant, Mississippi State University; L. Jason Krutz, Mississippi State University; Martin A. Locke, USDA-ARS; Daniel B. Reynolds, Mississippi State University; Bobby R. Golden, Mississippi State University; Trent Irby, Mississippi State University; Wade Steinriede Jr., USDA-ARS

5. Soil Physical and Chemical Properties Under Conservation Management Practices. Gene Spencer, Mississippi State University; L. Jason Krutz, Mississippi State University; Martin A. Locke, USDA-ARS; Brien Henry, Mississippi State University; Bobby Golden, Delta Research and Extension Center

6. Comparison of Eddy Covariance Evapotranspiration Measurements to DSSAT Simulation for Dryland Corn and Cotton in East-Central Texas. Dorothy Menefee, Texas A&M University; Nithya Rajan, Texas A&M University

7. Evaluating Haney Soil Health Test on Diverse Agroecosystems of Tennessee. Surendra Singh, University of Tennessee-Knoxville; Sindhu Jagadamma, University of Tennessee-Knoxville; Forbes R. Walker, University of Tennessee-Knoxville

8. Irrigation, Planting Date, and Corn (Zea mays L.) Hybrid Selection Impacts on Aflatoxin Accumulation. John J. Williams, Mississippi State University; W. Brien Henry, Mississippi State University

9. Development of a Methodology to Irradiate Peanut (Arachis hypogaea L.) Seeds to Simulate Stand Problems in Small Plot Trials. Sara E. Pelham, University of Georgia - Tifton; W. Scott Monfort, University of Georgia - Tifton; R. Scott Tubbs, University of Georgia - Tifton

10. Dependence of Moisture Content on Microbial Mineralization of Soil Organic Carbon. Shikha Singh, University of Tennessee-Knoxville; Sindhu Jagadamma, University of Tennessee-Knoxville; Avat Shekoofa, University of Tennessee-Knoxville; Melanie Mayes, Oak Ridge National Laboratory

11. Optimizing Irrigation Management Strategies for Energycane Production Using Decision Support System. Pramod Pokhrel, Texas A&M University; Nithya Rajan, Texas A&M University; John Jifon, Texas AgriLife Research and Extension Center

12. Characterizing Resistance to Reniform Nematode in Accessions of Gossypium barbadense Based on Classical Growth Analysis. Bhupinder Singh, Mississippi State University; Daryl Chastain, Mississippi State University;
John Snider, University of Georgia-Tifton; K. Raja Reddy, Mississippi State University; L. Jason Krutz, Mississippi State University; Sally Stetina, United States Department of Agriculture, Agricultural Research Service

13. **Unmanned Aerial Remote Sensing for Cotton Yield Estimation.** Jeff Siegfried, Texas A&M University; Nithya Rajan, Texas A&M University

14. **Greenhouse Gas Emissions from Cover Crop Decomposition in an Organic Corn Field in Texas.** Diana Zapata, Texas A&M University; Nithya Rajan, Texas A&M University; Kenneth D. Casey, Texas Agrilife Research-Amarillo; Ronnie W. Schnell, Texas A&M University; Jake E. Mowrer, Texas A&M AgriLife Extension Service

15. **Evaluating Corn Hybrid Variation in Response to Soil Moisture Stress.** Charles Walne, Mississippi State University; K. Raja Reddy, Mississippi State University

16. **Local Effective Microorganisms: Farmers Making Their Own Biological Inoculant for Improved Soil Health.** Laura Ney, University of Georgia-Athens; Dorcas H. Franklin, University of Georgia-Athens; Kishan Mahmud, University of Georgia-Athens; Miguel L. Cabrera, University of Georgia - Athens; Dennis W. Hancock, University of Georgia-Athens; Mussie Y. Habteselassie, University of Georgia-Griffin; Quint Newcomer, University of Georgia; Subash Dahal, University of Georgia-Athens; Anish Subedi, University of Georgia

**PROFESSIONAL POSTER – CROP**

1. **Increasing Fertilizer Rates - Impact on Yield in Twin-Row Corn and Soybean Grown in Rotation.** M. Wayne Ebelhar, Mississippi State University; Richard E. Turner, Mississippi State University

2. **Initial Observations from Stepwise Input Additions and Deletions for Corn in the Mississippi Delta.** M. Wayne Ebelhar, Mississippi State University; Richard E. Turner, Mississippi State University

3. **Mississippi State University Extension Soybean Variety Demonstration Program.** Alanna B. Scholtes, Mississippi State University; J. Trenton Irby, Mississippi State University; Chase A. Floyd, Mississippi State University; Kyle Sorrels, Mississippi State University; Garrett Oswalt, Mississippi State University

4. **Effect of Row Spacing on Biomass Yield of Energy Cane Cultivar HO72-114.** Hari Pratap Singh, Fort Valley State University; Anuj Chiluwal, Kansas State University; Jamaura Williams, Fort Valley State University; Venkata Nagendra Degala, Fort Valley State University
5. **Effect of Skip-Row Furrow Irrigation on Corn and Soybeans Growth and Yields in Different Soil Types.** Syam K. Dodla, Louisiana State University; Josh Copes, Louisiana State University Northeast Research & Ext. Ctr.; Bharat Sharma Acharya, Louisiana State University Agricultural Center

6. **Decision Support System for Planting and Physiological Maturity of Mississippi Corn.** Patrick J. English, Mississippi State University; Sherri L. DeFauw, Ascend Geospatial LLC

7. **Effect of Seeding Distance from Subsurface Banded Poultry Litter on Corn Yield and Leaf Nitrogen in a Conservation Tillage System.** Amanda J. Ashworth, USDA-ARS; Daniel H. Pote, USDA-ARS; Thomas R. Way, USDA-ARS; Dexter B. Watts, USDA-ARS; Larry C. Purcell, University of Arkansas

8. **Seed Chemical Composition Responses to Nitrogen and Sulfur Nutrition in Oilseed Brassicas.** Ramdeo Seepaul, North Florida Research & Education Center; Ian M Small, North Florida Research & Education Center; Sheeja George, North Florida Research & Education Center; David L Wright, North Florida Research & Education Center

9. **Corn (Zea maize L.) Height in a Mid-South Production System, and Breeding Implications.** William Brien Henry, Mississippi State University; John J. Williams, Mississippi State University

**PROFESSIONAL POSTER – SOILS**

1. **Do Biofuel and Cover Crops Affect Soil Thermal Properties?** Samuel I Haruna, Middle Tennessee State University/University of Missouri; Stephen H. Anderson, University of Missouri; Nsalambi V. Nkongolo, Institut Facultaire des Sciences Agronomiques; Timothy M. Reinbott, University of Missouri; Syaharudin Zaibon, University Putra Malaysia

2. **Long-Term Impacts of Cropland Management on Depth Distribution of Soil Organic Carbon in West Tennessee.** Sindhu Jagadamma, University of Tennessee-Knoxville; Michael E. Essington, University of Tennessee-Knoxville; Sutie Xu, University of Tennessee-Knoxville; Xinhua Yin, University of Tennessee-Knoxville

3. **Cotton Production As Affected By Irrigation Timing in Conservation Systems.** Paul B. DeLaune, Texas A&M AgriLife Research; Partson Mubvumba, Texas A&M AgriLife Research
4. **Cover Crops in Dryland Cotton Production Systems in Texas Rolling Pains: Short- Vs. Long-Term Economic Benefits.** Yubing Fan, Texas A&M AgriLife Research; Paul B. DeLaune, Texas A&M AgriLife Research; Partson Mubvumba, Texas A&M AgriLife Research

5. **Quantitative Approach to Identify Phosphorus Hotspots and Predict Phosphorus Loss Risk in Poultry Litter Impacted Soils of Lake Wedowee Watershed in Alabama.** Rishi Prasad, Auburn University; Debolina Chakraborty, Auburn University

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**SAAS Program**

4:00 PM-5:00 PM  
**SAAS Business Meeting**  
Forum Building – Room G – Second Floor

5:00 PM  
**Social and Super Bowl Party**  
Southern Kitchen & Bar  
2301 Richard Arrington Jr. Blvd.
MONDAY, FEBRUARY 4, 2019

Registration: 7:00 AM - 5:00 PM
Forum Building – Lobby – Third Floor

GRADUATE STUDENT ORAL COMPETITION - M.S. Students
Forum Building – RoomH/I – Third Floor

7:55 AM  Opening remarks

8:00 AM  Soil Health Benefits of Intensifying Winter Wheat Systems.  Marie Schirmacher, Texas A&M University; Paul B. DeLaune, Texas A&M AgriLife Research; Terry J. Gentry, Texas A&M University; Partson Mubvumba, Texas A&M AgriLife Research

8:15 AM  Physiological and Lipidomic Characterization of heat Response in Peanut.  Zolian Zoong Lwe, Clemson University; Sruthi Narayanan, Clemson University; Dan Anco, Clemson University; Nishanth Tharayil, Clemson University

8:30 AM  Comparison of Variable Rate Irrigation Based on Soil Sensor Irrigation Scheduling and Farmer Uniform Irrigation.  Luca Bondesan, Auburn University; Brenda V. Ortiz, Auburn University; Guilherme Morata, Auburn University; Andres Fernando Jimenez, Universidad Nacional de Colombia; George Vellidis, University of Georgia - Tifton; Francesco Morari, University of Padua

8:45 AM  Use of Soil Sensor-Based Irrigation Scheduling for Corn Production in Alabama.  Guilherme Morata, Auburn University; Brenda V. Ortiz, Auburn University; Luca Bondesan, Auburn University; Andres Fernando Jimenez, Universidad Nacional de Colombia

9:00 AM  Evaluation of Row Spacing, Planting Date and Fungicide Application on Soybean (Glycine max) Growth, Development and Yield.  Chase A. Floyd, Mississippi State University; J. Trenton Irby, Mississippi State University; Angus L. Catchot, Mississippi State University; Thomas W. Allen, Mississippi State University; Darrin M. Dodds, Mississippi State University; Jason M. Sarver, Indigo Ag; Alanna B. Scholtes, Mississippi State University

9:15 AM  The Influence of Environmental Conditions on the Germination and Vigor of Three Peanut Cultivars.  Caleb Weaver, University of Georgia-Tifton; W. Scott Monfort, University of Georgia - Tifton; Cristiane Pilon, University of Georgia - Tifton; Timothy L. Grey, University of Georgia; R. Scott Tubbs, University of Georgia - Tifton
9:30 AM  Improving Corn (Zea mays L.) Stands By Adapting Planting Practices. Nolan Stapleton, Mississippi State University; Erick Larson, Mississippi State University

9:45 AM  Break

10:00 AM  Assessment of Native Warm Season Grasses for Post-Mining Reclamation. Melanie Parker, Mississippi State University; Jesse Morrison, Mississippi State University; Brian S. Baldwin, Mississippi State University; Rebecca McGrew, Red Hills Mine

10:15 AM  Effect of Fungicide Programs on Plant Health, Maturity, Yield, and Quality of Two Peanut Cultivars. Matthew Stuart, University of Georgia-Tifton; W. Scott Monfort, University of Georgia - Tifton; Cristiane Pilon, University of Georgia - Tifton

10:30 AM  Alignment of Soil Test and Tissue Potassium for Maximizing Soybean Yield in Mississippi. Andrew Dygert, Mississippi State University

10:45 AM  Dual-Platform Comparison of Canopy Reflectance on Corn Whole Plant and Leaf Tissue Nitrogen Status and Grain Yield. Zachary Sumner, Mississippi State University; Jac J. Varco, Mississippi State University; Joby Czarnecki, Mississippi State University; Amelia A. Fox, MSU

11:00 AM  From Monoculture to Biculture: Cover Cropping Effects on Nitrogen Dynamics in a Strip Tilled Corn Production System. Eduardo Samuel Garay, Mississippi State University; Jac J. Varco, Mississippi State University

11:15 AM  Evaluation of Mined Humates as a Source of Iron for Soybean [Glycine max. (L.) Merr.] As Influenced By Variety and Soil pH. Andrea Elvir Flores, Mississippi State University; Jac J. Varco, Mississippi State University

11:30 AM  Adjourn

GRADUATE STUDENT ORAL COMPETITION - Ph.D. Students
Forum Building – Room H/I – Third Floor

1:25 PM  Opening Comments

1:30 PM  Prediction of Irrigation Needs at Farm Level Using Recurrent Neural Networks. Andres Fernando Jimenez, Universidad Nacional de Colombia;
1:45 PM  Determining an Economical Approach to Mid-South Soybean Production. Richard E. Turner, Mississippi State University; M. W. Ebelhar, Mississippi State University

2:00 PM  Effects of Cultural Best Management Practices Managed for Irrigation Benefits in Mid-Southern Irrigated Soybean Production. Corey Bryant, Mississippi State University; L. Jason Krutz, Mississippi State University; Martin A. Locke, USDA-ARS; Daniel B. Reynolds, Mississippi State University; Bobby R. Golden, Mississippi State University; Trent Irby, Mississippi State University; Wade Steinriede Jr., USDA-ARS

2:15 PM  Carbon Mineralization from Winter Cereal Cover Crops in an Organic No-till Soybean Production System. Pramod Pokhrel, Texas A&M University; Nithya Rajan, Texas A&M University; Ronnie W. Schnell, Texas A&M University

2:30 PM  Mid-Southern, USA Corn Management Practices to Improve Infiltration and Decrease Nutrient Runoff. Gene Spencer, Mississippi State University; L. Jason Krutz, Mississippi State University; Martin A. Locke, USDA-ARS; Brien Henry, Mississippi State University; Bobby Golden, Delta Research and Extension Center

2:45 PM  Deposition and Transformation of Nitrogen By the Pre-Plant Soil Fumigant Ethanedinitrile. Mary C. Stevens, University of Florida North Florida Research & Extension Center; Joshua H. Freeman, University of Florida

3:00 PM  Detection of Personal Care Products in Surface Water of a Rural Sub Watershed in Middle Tennessee. Ravneet Kaur, Tennessee State University; Anonya Akuley Amenyenu, Tennessee State University; Samuel O. Dennis, Tennessee State University

3:15 PM  Break

3:30 PM  Evapotranspiration, Gross Primary Production and Water-Use Efficiency Estimates of Cotton and Corn in East-Central Texas Using Eddy Covariance and Planetscope. Dorothy Menefee, Texas A&M University; Nithya Rajan, Texas A&M University; Sanaz Shafian, Texas A&M University Agronomy Society

3:45 PM  Soil Carbon Accumulation and Nutrient Availability in Managed and Unmanaged. Shikha Singh, University of Tennessee-Knoxville; Sheng Yan, University of Tennessee; John C. Sorochan, University of Tennessee - Knoxville; John C. Stier, University of Tennessee-Knoxville; Melanie Mayes,
4:00 PM  **Etaphon Application Modulated Nitrogen Use Efficiency in Maize (Zea mays L.) through Regulating Plant Nitrogen Uptake and Post-Silking Nitrogen Remobilization in Response to Nitrogen Rate and Plant Density.**  Yushi Zhang, China Agricultural University; Yubin Wang, China Agricultural University; Delian Ye, Fujian Agricultural and Forest University; Churong Liu, China Agricultural University; Zhaohu Li, China Agricultural University; Mingcai Zhang, China Agricultural University

4:15 PM  **Assessment of Narrow-Row Corn (Zea mays L.) Production in the Mid-South.**  John J. Williams, Mississippi State University; W. Brien Henry, Mississippi State University; Normie W. Buehring, Mississippi State University

4:30 PM  **Use of Simulation Models for Evaluating High Input Production Practices in Corn in Georgia.**  Anna Orfanou, University of Georgia - Tifton; Dimitrios Pavlou, University of Georgia - Tifton; George Vellidis, University of Georgia - Tifton; Kenneth Boote, University of Florida - Gainesville; Miguel L. Cabrera, University of Georgia - Athens; Glendon Harris, University of Georgia - Tifton; R. Dewey Lee, University of Georgia - Tifton; Reagan L. Noland, University of Georgia - Tifton; Wesley M Porter, University of Georgia - Tifton

4:45 PM  **Simulating Water and Nutrient Movement in a Corn Field with High Input Production Practices.**  Dimitrios Pavlou, University of Georgia - Tifton; Anna Orfanou, University of Georgia - Tifton; Miguel L. Cabrera, University of Georgia - Athens; Glendon Harris, University of Georgia - Tifton; Gerrit Hoogenboom, University of Florida; R. Dewey Lee, University of Georgia - Tifton; Reagan L. Noland, University of Georgia - Tifton; Wesley M Porter, University of Georgia - Tifton; David E. Radcliffe, University of Georgia - Athens; George Vellidis, University of Georgia - Tifton

5:00 PM  **Standardization of Canopy Reflectance of Peanut (Arachis hypogaea L.) Varieties to Assist in Developing a Yield Prediction Tool.**  Sara E. Pelham, University of Georgia - Tifton; W. Scott Monfort, University of Georgia - Tifton; Cristiane Pilon, University of Georgia - Tifton; Alisa Coffin, USDA-ARS

5:15 PM  **Adjourn**

5:30 PM  **Agronomy Business Meeting.**
TUESDAY, FEBRUARY 5, 2019

GRADUATE STUDENT ORAL COMPETITION - Ph.D. Students
Sheraton Birmingham Hotel
Location???

7:55 AM  Opening remarks

8:00 AM  Seasonal Influence on Selenium Removal Efficiency in Simulated Constructed Wetlands. Michael Nattrass, Mississippi State University; Jesse Morrison, Mississippi State University; Brian S. Baldwin, Mississippi State University

8:15 AM  Comparing the Soil Health Assessment Approaches for the Cropping Systems of Tennessee. Surendra Singh, University of Tennessee-Knoxville; Sindhu Jagadamma, University of Tennessee-Knoxville; Forbes R. Walker, University of Tennessee-Knoxville

8:30 AM  Quantifying Temperature Effects on Corn Growth and Development. Charles Walne, Mississippi State University; K. Raja Reddy, Mississippi State University

8:45 AM  Physiological Responses and Tolerance Mechanisms of Turfgrasses Exposed to Drought and Salt Stresses with Similar Osmotic Strength. Krishna Katuwal, University of Georgia-Griffin; Bo Xiao, Yangtze University; David Jespersen, University of Georgia

9:00 AM  Improving Kale Yield and Freeze Tolerance after Soil Biosolarization. Laura Ney, University of Georgia-Athens; Dorcas H. Franklin, University of Georgia-Athens; Kishan Mahmud, University of Georgia-Athens; Miguel L. Cabrera, University of Georgia - Athens; Dennis W. Hancock, University of Georgia-Athens; Mussie Y. Habteselassie, University of Georgia-Griffin; Quint Newcomer, University of Georgia; Subash Dahal, University of Georgia-Athens; Anish Subedi, University of Georgia

9:15 AM  Stomatal Effects on Leaf Metabolism in Two Cotton Species with Alternative Stress Response Strategies. Bhupinder Singh, Mississippi State University; Daryl Chastain, Mississippi State University; John Snider, University of Georgia-Tifton

9:30 AM  Impact of 34-Year Tillage on Soil CO2 Emissions and Carbon Sequestration in Monoculture and Rotational Cropping Systems. Diana Zapata, Texas A&M University; Nithya Rajan, Texas A&M University; Frank M. Hons, Texas A&M University

9:45 AM  Winter Carinata Reduces Nitrate-N Leaching in North Florida Cropping Systems. Jixiao Cui, North Florida Research & Education Center; Ramdeo
Seepaul, North Florida Research & Education Center; Ian M Small, North Florida Research & Education Center; Sheeja George, North Florida Research & Education Center; David L Wright, North Florida Research & Education Center

10:00 AM  Adjourn

PROFESSIONAL ORAL PRESENTATIONS – Soils
Forum Building – Room H/I – Third Floor

10:25 AM  Opening Comments

10:30 AM  Long-Term Study on the Effects of Buffer Strips and Grazing Management on Phosphorus Runoff from Pastures Fertilized with Poultry Litter. Philip A. Moore Jr., USDA-ARS; Kelsey Anderson, University of Arkansas; Cristiane Pilon, University of Georgia - Tifton; Jerry Martin, USDA; Daniel H. Pote, USDA-ARS; Phillip R. Owens, USDA-ARS; Amanda J. Ashworth, USDA-ARS; David Miller, University of Arkansas; Paul B. DeLaune, Texas A&M AgriLife Research

10:45 AM  Announce Ph.D. Oral Competition Winners

11:00 AM  Adjourn

PROFESSIONAL ORAL PRESENTATIONS – Crops
Forum Building – Room H/I – Third Floor

1:25 PM  Opening Comments

1:30 PM  Effects of N and Harvest Frequency on Forage Quality and Yield of Native Grasses. Jason Brett Rushing, Mississippi State University; Rocky W. Lemus, Mississippi State University; John Clay Lyles, Mississippi State University

1:45 PM  Moving Beyond 300 Bushel Corn in Mississippi - Increasing Seeding Rates and Nitrogen Rates in Different Planting Patterns. M. Wayne Ebelhar, Mississippi State University; W. Brien Henry, Mississippi State University; Richard E. Turner, Mississippi State University

2:00 PM  Utilizing Eastern Gamagrass for Early Spring Grazing and Late Fall Stockpile. Jesse I. Morrison, Mississippi State University; Brian S. Baldwin, Mississippi State University; Michael Nattrass, Mississippi State University
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<tr>
<th>Time</th>
<th>Presentation Title</th>
<th>Presenters</th>
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<tr>
<td>2:15 PM</td>
<td>Should Seeding Rate Change Under Different Land Preparation Methods of <em>Brassica Carinata</em>?</td>
<td>Michael J. Mulvaney, University of Florida West Florida Research &amp; Education Center; Kipling S. Balkcom, USDA-ARS</td>
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<td>2:30 PM</td>
<td>Influence of Tillage and Row Configuration on Yield and Quality of Peanut over a Ten-Year Period.</td>
<td>W. Scott Monfort, University of Georgia - Tifton; R. Scott Tubbs, University of Georgia - Tifton; John Beasley, Auburn University</td>
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<td>3:00 PM</td>
<td>Optimum Nitrogen and Sulfur Required for Growth and Seed Productivity in Oilseed Brassicas.</td>
<td>Ramdeo Seepaul, North Florida Research &amp; Education Center; Ian M Small, North Florida Research &amp; Education Center; Sheeja George, North Florida Research &amp; Education Center; David L Wright, North Florida Research &amp; Education Center</td>
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<td>3:15 PM</td>
<td>Predicting Leaf Rust Infection Rate in Winter Wheat Using Normalized Difference Vegetation Index.</td>
<td>Xuejun Dong, Texas A&amp;I Research-Uvalde; Shane Sieckenius, Texas A&amp;M AgriLife Research at Uvalde; Bin Peng, Yancheng Institute of Technology; Qingwu Xue, Texas A&amp;M AgriLife Research; Amir M.H. Ibrahim, Texas A&amp;M University</td>
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<td>3:30 PM</td>
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