

SATURDAY, FEBRUARY 4, 2023

REGISTRATION: 10:00 AM - 4:00 PM

POSTER SESSION: 1:00 PM - 4:00 PM

AUTHORS PRESENT FROM 1:00 PM- 3:00 PM

LOCATION: OMNI OKLAHOMA CITY—FIVE MOONS 4

UNDERGRADUATE STUDENT POSTER COMPETITION - CROPS AND SOILS

1. Planting Date and Seeding Rate Effects on Timing of Corn Emergence.
Solar Tanton, Tifton, GA, US, Amara White, ABAC Agronomy Club, Tifton, GA, Matthew Hood, Abraham Baldwin Agricultural College, Tifton, GA, Alex J. McLemore, Department of Agriculture, Abraham Baldwin Agricultural College, Tifton, GA and Michael J Maw, Department of Agriculture, Abraham Baldwin Agricultural College, Tifton, GA
2. Differences between Foliar Application and Soil Application of Plant Nutrients and Effectiveness against Drought at Different Time Points in Soybean Development.
Gracey Moffitt, Hutson School of Agriculture, Murray State University, Murray, KY, US and Megan Taylor, HSOA, Murray State University, Murray, KY
3. Differences in Absorption and Efficacy of Foliar Applied Boron and Manganese in Corn (*Zea Mays*) and Soybeans (*Glycine Max*).
Alec Fewkes, Hutson School of Agriculture, Murray State University, Murray, KY
4. Foliar Application of Acetic Acid and Effectiveness Against Drought at Different Time Points in Soybean (*Glycine max*) Development.
Miranda Lynn Rudolph, Hutson School of Agriculture, Murray State University, Murray, KY, US and Megan Taylor, HSOA, Murray State University, Murray, KY
5. Differences in Absorption of Foliar Boron and Manganese Solutions Applied to Foliage and Soil in Soybeans.
Kyle Krieger, Murray State University, Murray, IN, US and Megan Taylor, HSOA, Murray State University, Murray, KY
6. Understanding the Effect of Fusarium Head Blight Resistance on Agronomic Characteristics of Soft Red Winter Wheat.
Maggie Gillum, University of Kentucky, Lexington, KY, US and David A. Van Sanford, Department of Plant & Soil Sciences, University of Kentucky, Lexington, KY

GRADUATE STUDENT POSTER COMPETITION – M.S. STUDENTS

7. The Impacts on Yield, Fiber Quality and Net Returns with Mixing Two Cottonseed Cultivars On-Farm in Georgia.
Meredith McGlamory, Crop and Soil Science, University of Georgia, Tifton, GA, US, Camp C Hand, University of Georgia-Tifton, Tifton, GA, US, Bill Tyson, Cooperative Extension Service, Bulloch County, University of Georgia, Statesboro, GA, Tony Barnes, University of Georgia, Tifton, GA, Yangxuan Liu, University of Georgia, Tifton, Colton Moon, University of Georgia Extension, Cochran, Benjamin Reeves, University of Georgia Extension, Nashville and Jeremiah Kichler, Colquitt County Extension, University of Georgia, Moultrie, GA
8. Divergent Selection for Anthesis of Annual Ryegrass (*Lolium multiflorum*).
Prakriti Adhikari, Plant and Soil Science, Mississippi State University, Starkville, MS
9. Salinity Tolerance in Elymus.
Hunter Pegram, Plant and Soil Sciences, Mississippi State University, Starkville, MS
10. Isolation and Culture of Epichloe for Re-Infection of Endophyte-Free Southeastern Wildrye (*Elymus glabriflorus*).
Bryna Haile, Plant and Soil Science, Mississippi State University, Mississippi State, MS, US and Jesse I. Morrison, 117 Dorman Hall, Mississippi State University, Mississippi State, MS
11. Impact of Biostimulants at Variable Nitrogen Rates in Mississippi Corn Production Systems.
Praveen Gajula, Plant and soil sciences, Mississippi State University, Starkville, MS, US, Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State University, Starkville, MS, US and Corey J Bryant, Mississippi State Delta Research Center, Stoneville, MS, US
12. Pollen Study in Zinnia (*zinnia elagans*) Floral Color and Pollinator Diversity in Western Kentucky.
Laxmi Prasanna Shakamudi, Masters in Agriculture Sciences, Murray State University, Murray, KY, US
13. Use of Sustainability Indicators to Evaluate Differences in Crop Management with Purposes of Environmental Impact Assessment.
Marina Duarte de Val, Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, Brenda Ortiz, Crop, Soil and Environmental Science, Auburn University, Auburn, Michelle R. Worosz, Agricultural Economics & Rural Sociology, Auburn University, Auburn, AL, Megan Thurmond, Crop, Soil, and Environmental Sciences, Auburn University, Auburn, AL and Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US

14. Determining Soil Properties Using Hyperspectral Reflectance.
Shubekshya Shah, Plant and Soil Sciences, University of Florida, Gainesville, FL, US
15. Yield and Economic Response of Peanut to Different Rates of Prohexadione Calcium.
Kulpreet Singh, Agronomy, University of Florida, Jay, FL, US
16. Landscape Variation of Soil Properties under Corn Field in Kentucky.
Sai Neela Kesumala, Agribusiness, Murray State University, Murray, Murray, US
17. The Influence of Planting Date and Harvest Date on Peanut (*Arachis hypogaea* L.) Seed Germination and Vigor.
Savannah Banner, University of Georgia-Tifton, Hahira, GA, US, W. Scott Monfort, Crop and Soil Sciences, The University of Georgia, Tifton, GA, Timothy L. Grey, Crop & Soil Sciences, University of Georgia, Tifton, GA and R. Scott Tubbs, Crop & Soil Sciences, University of Georgia-Tifton, Tifton, GA, US

GRADUATE STUDENT POSTER COMPETITION – Ph.D. STUDENTS

18. Impact of Recent Climate Change on Corn, Rice, and Wheat in Southeastern USA.
Ramandeep Kumar¹, Sunny Kumar², Kamal Vatta², Raju Bheemanahalli³, Jagmandeep Singh Dhillon⁴ and Krishna Reddy⁵, (1) Mississippi State University, Starkville, MS, US, (2) Economics and Sociology, Punjab Agriculture University, Ludhiana, India, (3) 1712 Claflin Road, Kansas State University, Manhattan, KS, (4) Plant and Soil Sciences, Mississippi State University, Starkville, MS, US, (5) USDA ARS, Stoneville, MS.
19. Can Adaptive Nutrient Management Enhance Corn Productivity And Profitability?
Solomon Amissah, University of Georgia, Tifton Campus, GA, Tifton, GA, US, Godfred Ankomah, Agriculture, University of Georgia-Tifton, Tifton, GA, US, Glendon Harris, University of Georgia-Athens, Tifton, GA, Dorcas Franklin, Crop and Soil Sciences, University of Georgia, Athens, GA, Juan Carlos Diaz-Perez, Department of Horticulture, University of Georgia, Tifton, GA, Miguel L. Cabrera, Crop & Soil Sciences, University of Georgia, Athens, GA and Henry Sintim, University of Georgia, Tifton, GA, US
20. Effects of Irrigation, Nitrogen Application Rate, and Plant Growth Regulation on Biomass, Nutrient Uptake, and Lint Yield of Cotton.
Ved Parkash, Crop and Soil Sciences, University of Georgia, Tifton, GA, US, John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA, Joshua M Lee, University of Georgia, Tifton, GA, Camp C Hand, University of Georgia-Tifton, Tifton, GA, US, Amrit Pokhrel, University of Georgia, Tifton, GA, US and Rebekah Bailey Lawson, Crop and Soil Science, UGA, Tifton, GA, US
21. Modeling Carbon Emissions for Sorghum in the Southern Great Plains.
Donovan Davis, Texas A&M University, College Station, TX, US, Nithya Rajan, Soil and Crop Sciences, Texas A&M University, College Station, TX and Pramod Pokhrel, Department of Soil and Crop Sciences, Texas A&M University, College Station, TX, US

22. Integrative Effect of Tillage, Cover Crop and Organic Amendments on Soil Health and Cotton Productivity.
Godfred Ankomah, Agriculture, University of Georgia-Tifton, Tifton, GA, US,
Solomon Amissah, University of Georgia, Tifton Campus, GA, Tifton, GA, US and
Henry Sintim, University of Georgia, University of Georgia-Tifton, Tifton, GA, US
23. Effect of Integrating Cover Crops and Different Nitrogen Rate on Corn Production.
Namita Sinha, Plant and Soil Sciences, Mississippi State University, Mississippi State,
MS, US, Jac Varco, Plant and Soil Sciences, Mississippi State University, Mississippi
State, MS and Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State
University, Starkville, MS, US
24. Bibliometric Analysis of Management Practices in US Corn Production.
Namita Sinha, Plant and Soil Sciences, Mississippi State University, Mississippi State,
MS, US and Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State
University, Starkville, MS, US
25. The Advanced Technique of Biomass and Yield Prediction in Potatoes Using UAV-Lidar
Systems.
Ayush Sharma, Soil and Water Sciences, University of Florida-Soil & Water Sciences,
Gainesville, FL, US
26. Prediction of Greenhouse Gas Emissions from Cotton Fields under Conservation
Cropping Systems in East Central Texas Using the DSSAT Model.
Noriki Miyanaka¹, Nithya Rajan², Steven T. Pires³, Kenneth D. Casey⁴, Sk. Musfiq Us
Salehin¹, Peter J. Tomlinson⁵ and Jaehak Jeong⁶, (1) Texas A&M University, College
Station, TX, US, (2) Soil and Crop Sciences, Texas A&M University, College Station,
TX, (3) Cotton Incorporated, Cary, NC, Cary, NC, (4) Texas Agrilife Research-Amarillo,
Amarillo, TX, US, (5) 2004 Throckmorton Plant Science Center, Kansas State
University, Manhattan, KS, US, (6) Texas A&M AgriLife Research, Texas A&M
AgriLife Research, Temple, TX, US
27. Evaluation of Subsurface Drainage in a Cotton Production System.
Tyler Soignier¹, Brian Peralisi², Darrin M. Dodds³, Gene Spencer⁴, L. Jason Krutz⁴,
Whitney Crow⁴, William Joseph Rutland⁵, Bradley Norris⁵ and Eli Hobbs⁶, (1)
Mississippi State University, Mississippi State University, MS, US, (2) Dorman Hall,
Mississippi State, MS, US, (3) Plant and Soil Sciences, Mississippi State University,
Mississippi State, MS, (4) Mississippi State University, Stoneville, MS, (5) Mississippi
State University, Mississippi State, MS, US, (6) Mississippi State University, Starkville,
MS, US
28. Breeding Cotton for Determinate Growth Habit: Remobilizing End-of-Season Perennial
Reserves for Increased Fiber Yield and Reduced Regrowth.
Salman Naveed, Plant and Environmental Sciences, Clemson University, Florence, SC,
US

PROFESSIONAL POSTER – CROPS

29. Cotton Variety Performance in Mississippi.
Bradley Norris¹, Brian Pieralisi², William Joseph Rutland¹ and Tyler Soignier³, (1) Mississippi State University, Mississippi State, MS, US, (2) Dorman Hall, Mississippi State, MS, US, (3) Mississippi State University, Mississippi State University, MS, US
30. A DSSAT Crop Model-Based Study on the Feasibility of Double-Cropping Cowpea and Wheat in Texas High Plains.
Prem Woli¹, Gerald R. Smith², Charles R. Long², Jackie C. Rudd³, Qingwu Xue³ and Francis M. Rouquette Jr.², (1) Texas A&M AgriLife Research, Fort Worth, TX, US, (2) Texas A&M AgriLife Research and Extension Center at Overton, Overton, TX, (3) Texas A&M AgriLife Research and Extension Center at Amarillo, Amarillo, TX
31. Cotton Variety Performance in Mississippi.
Brian Pieralisi¹, William Joseph Rutland², Bradley Norris², Eli Hobbs³ and Tyler Soignier⁴, (1) Dorman Hall, Mississippi State, MS, US, (2) Mississippi State University, Mississippi State, MS, US, (3) Mississippi State University, Starkville, MS, US, (4) Mississippi State University, Mississippi State University, MS, US
32. Impact of Defoliant Drift on Late-Planted Cotton in Georgia.
Camp C Hand, University of Georgia-Tifton, Tifton, GA, US, Stanley Culpepper, University of Georgia, Tifton, GA and John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA
33. Fungicide Application Timing and Efficacy for Controlling Soil-Borne Disease in Peanut.
Brendan Zurweller, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US, Jeff Gore, Delta Research and Extension Center, Mississippi State University, Stoneville, MS and Justin May, Mississippi State University, MS
34. A Geospatial Decision-Support System for Mississippi Corn Producers.
Patrick J. English, Delta Research & Extension Center, Mississippi State University, Stoneville, MS, US and Sherri L. DeFauw, Ascend Geospatial LLC, Cleveland, MS

PROFESSIONAL POSTER – SOILS

35. Does Intensifying Forage Cropping Systems Influence Soil Physical and Chemical Properties?
Bronc Finch, Oklahoma, University of Arkansas, Alexander, AR, US
36. Soil Health and Cotton Yields in the “Old Rotation,” Alabama’s Continuous Cotton Experiment (Est. 1896).
Anna Johnson, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, US, Dennis P. Delaney, Crop, Soil & Environmental Sciences, Auburn University,

Auburn, AL and Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US

37. Contribution of Soil Science Students to Effective Learning Experiences in Sustainable Agriculture.

Iin P. Handayani, Hutson School of Agriculture, Murray State University, Murray, KY, US

SUNDAY, FEBRUARY 5, 2023

Registration: 8:00 AM - 5:00 PM

LOCATION: OMNI OKLAHOMA CITY—FIVE MOONS 3

GRADUATE STUDENT ORAL COMPETITION – M.S. STUDENTS

7.55 AM	Opening Remarks
8.00 AM	Assessment of Leguminous Cover Crops for Use in <i>Saccharum</i> . Dylan Hollowell , Mississippi State University, Mississippi State, MS, US and Brian S. Baldwin, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
8.15 AM	Effects of Ammonium Thiosulfate and Potassium Thiosulfate on Nitrification in Soils. Lane Galloway , Auburn University, Auburn, AL, US, Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, Beth Guertal, Crop, Soil and Environmental Science, Auburn University, Auburn, AL and Zach Ogles, Tessengerlo Kerley, Inc., Phoenix, AZ
8.30 AM	Evaluating Wide Row Cotton Production Systems in Georgia. Caitlyn Lawton ¹ , John Snider ² , Phillip Roberts ³ , Peng Chee ³ and Camp C Hand ⁴ , (1) Crop and Soil Sciences, University of Georgia, Tifton, GA, US, (2) Crop and Soil Sciences, University of Georgia, Tifton, GA, (3) University of Georgia, Tifton, GA, (4) University of Georgia-Tifton, Tifton, GA, US
8.45 AM	Managing Iron Deficiency Chlorosis (IDC) in Soybean through a Cropping System Approach. Katelin Waldrep ¹ , Mary Love Tagert ¹ , Mark P. Harrison ² and Justin McCoy ² , (1) Agricultural and Biological Engineering, Mississippi State University, Mississippi State, MS, (2) North Mississippi Research and Extension Center, Mississippi State University, Verona, MS
9.00 AM	Evaluating the Impact of Different Biostimulants at Variable Nitrogen Rates in Mississippi Corn Production Systems. Praveen Gajula , Plant and soil sciences, Mississippi State University, Starkville, MS, US, Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State University, Starkville, MS, US and Corey J Bryant, Mississippi State Delta Research Center, Stoneville, MS, US
9.15 AM	Impact of Row Configuration and Planting Population on Cotton Development and Yield. William Joseph Rutland ¹ , Brian Pieralisi ² , Darrin M. Dodds ³ , Whitney Crow ⁴ , Justin McCoy ⁵ , Wes Lowe ⁶ , Bradley Norris ¹ , Tyler Soignier ⁷ and Eli Hobbs ⁸ , (1)

	Mississippi State University, Mississippi State, MS, US, (2) Dorman Hall, Mississippi State, MS, US, (3) Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (4) Mississippi State University, Stoneville, MS, (5) North Mississippi Research and Extension Center, Verona, MS, (6) Agricultural and Biological Engineering, Mississippi State University, Starkville, MS, (7) Mississippi State University, Mississippi State University, MS, US, (8) Mississippi State University, Starkville, MS, US
9.30 AM	Screening and Selection for Resistance to Gray Leaf Spot (<i>Pyricularia oryzae</i>) in Early Planted Annual Ryegrass. Calyn Adams , Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US and Jesse I. Morrison, 117 Dorman Hall, Mississippi State University, Mississippi State, MS
9.45 AM	Evaluating the Impact of Row Arrangement and Variety on Yield, Yield Components, and Fiber Quality in Georgia Cotton. Jordon Montana Hall , University of Georgia-Tifton, Moultrie, GA, US, Caitlyn Lawton, Crop and Soil Sciences, University of Georgia, Tifton, GA, US, John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA, Phillip Roberts, University of Georgia, Tifton, GA and Camp C Hand, University of Georgia-Tifton, Tifton, GA, US
10.00 AM	Break
10.15 AM	Manure Rate and Placement Effects on Gas Emissions and Nutrient Conservations in Semi-Arid Organic Cotton. Nicholas Boogades , Texas A&M AgriLife, College Station, TX, US
10.30 AM	Breeding to Mitigate Secondary Dormancy in Cool-Season Annual Legumes Using Phenotypic Recurrent Selection. Jared McLaurin , Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US
10.45 AM	Evaluation of Precision Technologies on Planters to Optimize Seeding Depth and Seeding Rate on Cotton Fields. Pablo Roberto Duarte Hernandez , Auburn, AL, US
11.00 AM	Peanut Growth Simulation Modelling to Identify Deficit Irrigation Management Strategies on Sandy Loam Soils of Central Alabama. Marina Duarte de Val ¹ , Brenda Ortiz ² , Franciele Morlin Carneiro ² , Bruno P. Lena ³ , Rishi Prasad ⁴ , Anh T. Nguyen ⁵ , Arpita Sharma ⁶ , Audrey V. Gamble ⁷ and Anna Johnson ⁴ , (1) Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, (2) Crop, Soil and Environmental Science, Auburn University, Auburn, (3) AL, Auburn University, Auburn, AL, (4) Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, US, (5) Auburn University, Auburn, AL, US, (6) Crop soil and environmental Sciences, Auburn University, Auburn, AL, US, (7) Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US
11.15 AM	Soil Health Under Different Cover Crop Grazing Periods in the Southeastern United States. Wade Reiter , Auburn University, Auburn, AL, US, Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, Hayley Crowell, Auburn University, Boca Raton, FL, Yucheng

	Feng, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL and Kipling Balkcom, Agricultural Research Service, United States Department of Agriculture, Soil Dynamics Research Lab, Auburn, AL
11.30 AM	The Effect of Adjuvants on the Efficacy of a New Prohexadione Calcium Formulation in Peanut (<i>Arachis hypogaea</i> L.). Savannah Banner , University of Georgia-Tifton, Hahira, GA, US, W. Scott Monfort, Crop and Soil Sciences, The University of Georgia, Tifton, GA, R. Scott Tubbs, Crop & Soil Sciences, University of Georgia-Tifton, Tifton, GA, US and Timothy L. Grey, Crop & Soil Sciences, University of Georgia, Tifton, GA
11.45 AM	Multi-State Examination of Stand Establishment and Yield Response to in-Furrow Fertilizer Applications on Peanut (<i>Arachis hypogaea</i>). Macie Wheeler , Lenox, GA, US, W. Scott Monfort, Crop and Soil Sciences, The University of Georgia, Tifton, GA, Kris B. Balkcom, Wiregrass Research and Extension Center, Auburn University, Headland, AL, Dan Anco, Department of Plant and Environmental Sciences, Clemson University, Blackville, SC, David L. Wright, University of Florida-North Florida Research & Education Center, Quincy, FL, David L. Jordan, Crop Science, North Carolina State University, Raleigh, NC, Maria Balota, Tidewater Agricultural Research & Extension Center, Virginia Tech, Suffolk, VA and Emi Kimura, Texas A&M AgriLife Extension Service, Vernon, TX

GRADUATE STUDENT ORAL COMPETITION – Ph.D. STUDENTS

1.00 PM	Use of Proximal Sensors for Assessing Potassium and Nitrogen Interactions in Potatoes (<i>Solanum tuberosum</i> L.). Simranpreet K Sidhu , University of Florida, Gainesville, FL, US, Ayush Sharma, Soil and Water Sciences, University of Florida, Gainesville, FL, Navdeep Kaur, M.Sc, UF, IFAS, Gainesville, FL, Amanpreet K Sandhu, Soil and Water Sciences, UF, IFAS, Gainesville, FL, Winniefred Griffin, University of Florida, Gainesville, FL, Diego Arruda Huggins de Sa Leitao, Soil, Water, and Ecosystem Sciences, University of Florida, Gainesville, FL, Lincoln Zotarelli, Horticultural Sciences Department, University of Florida, Gainesville, FL and Lakesh Sharma, Cooperative Extension, University of Florida, Gainesville, FL
1.15 PM	Plant Tissue Analyses: Assessing Nutrient Sufficiency Ranges for Corn. Solomon Amissah , University of Georgia, Tifton Campus, GA, Tifton, GA, US, Godfred Ankomah, Agriculture, University of Georgia-Tifton, Tifton, GA, US, Benjamin Agyei, Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI, US, Glendon Harris, University of Georgia-Athens, Tifton, GA, Dorcas Franklin, Crop and Soil Sciences, University of Georgia, Athens, GA, Juan Carlos Diaz-Perez, Department of Horticulture, University of Georgia, Tifton, GA, Miguel L. Cabrera, Crop & Soil Sciences, University of Georgia, Athens, GA and Henry Sintim, University of Georgia-Tifton, Tifton, GA, US
1.30 PM	Cotton Lint Yield and Yield Components Response to Yield-Goal Based Fertilizer Application and Plant Growth Management. Ved Parkash , Crop and Soil Sciences, University of Georgia, Tifton, GA, US, John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA, Camp C

	Hand, University of Georgia-Tifton, Tifton, GA, US and Glendon Harris, University of Georgia-Athens, Tifton, GA
1.45 PM	Crop Rotation and Cover Crop Effects on Soil Moisture in a Transitional Organic System. Lauren Selph , Plant and Soil Sciences, Texas Tech University, Lubbock, TX, Katie L. Lewis, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX and Paul B. DeLaune, Texas A&M AgriLife Research, Vernon, TX
2.00 PM	Quantifying the GHG Impact of Grain Sorghum Production in the Texas High Plains. Donovan Davis ¹ , Nithya Rajan ² and Pramod Pokhrel ¹ , (1)Texas A&M University, College Station, TX, US, (2)Soil and Crop Sciences, Texas A&M University, College Station, TX
2.15 PM	Effect of Cover Crops and Tillage on Soil Bacterial Community Composition and Soil Quality in East-Central Mississippi Soybean Production System. Namita Sinha ¹ , Brett Rushing ² , William L. Kingery ³ , Shankar Ganapathi Shanmugam ⁴ and Michael S. Cox ⁴ , (1)Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US, (2)Coastal Plain Experiment Station, Mississippi State University, Newton, MS, (3)Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (4)Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
2.30 PM	Cotton Productivity and Quality As Influenced by Nitrogen Application and Number of Seeds Planted per Hill. Godfred Ankomah , Agriculture, University of Georgia, Tifton, GA, Solomon Amissah, University of Georgia, Tifton Campus, GA, Tifton, GA, and Henry Sintim, University of Georgia, University of Georgia-Tifton, Tifton, GA
2.45 PM	Crop-Climate Link of Corn, Rice, and Wheat in Southeastern USA. Ramandeep Kumar ¹ , Sunny Kumar ² , Kamal Vatta ² , Raju Bheemanahalli ³ , Jagmandeep Singh Dhillon ⁴ and Krishna Reddy ⁵ , (1) Mississippi State University, Starkville, MS, US, (2) Economics and Sociology, Punjab Agriculture University, Ludhiana, India, (3) 1712 Claflin Road, Kansas State University, Manhattan, KS, (4) Plant and Soil Sciences, Mississippi State University, Starkville, MS, US, (5) USDA ARS, Stoneville, MS
3.00 PM	Break
3.15 PM	Using Process-Based Model to Assess the Impact of Climate Change on Maize Production. Lucas Ramon Teixeira Nunes , Auburn University, Auburn, AL, US and Brenda Ortiz, Crop, Soil and Environmental Science, Auburn University, Auburn
3.30 PM	Hyperspectral Vegetation Indices, Correlation, and Regression Models for Estimating Physiological Parameters of Some Winter Crops. Ifekristi Ogunwobi , University of Florida, Gainesville, FL, US
3.45 PM	Does Cleanout Frequency of Broiler Litter Influence Corn Production? Rajveer Singh and Rishi Prasad, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, US
4.00 PM	Improving Eastern Grasslands through Native Warm Season Grasses. Megan Berry , University of Tennessee-Knoxville, Knoxville, TN, US

4.15 PM	<p>Effect of Extreme Drought on Growing Degree Days, Irrigation Demand and Cotton Growth in East Central Texas.</p> <p>Chiranjibi Poudyal, Department of Agronomy, Texas A&M University, College Station, TX, US, Nithya Rajan, Soil and Crop Sciences, Texas A&M University, College Station, TX, US, Curtis Adams, USDA-ARS, Walla Walla, WA, US, Steve Hague, 370 Olsen Blvd, Texas A&M University, College Station, TX, Mahendra Bhandari, Soil and Crop Sciences, Texas A&M AgriLife Research, Corpus Christi, TX, US and Robert G. Hardin, Cotton Ginning Research Unit, USDA-ARS, Stoneville, MS</p>
4.30 PM	<p>Development of a Maize-Cowpea Intercrop Model for DSSAT Version 4.8.</p> <p>Jacques Pierre¹, Willington Pavan² and Upendra Singh², (1) Technologico Nacional de Mexico, Lexington, KY, US, (2) Research Division, International Fertilizer Development Center, Muscle Shoals, Muscle Shoals, AL</p>

MONDAY, FEBRUARY 6, 2023

OMNI OKLAHOMA CITY—FIVE MOONS 3

PROFESSIONAL ORAL – CROPS

7.55 AM	Opening Remarks
8.00 AM	<p>How Fast Can We Plant Soybean?</p> <p>Michael J. Mulvaney¹, Wes Lowe², Corey J Bryant³, Daniel Chesser⁴, Brian Mills⁵, Noah Harper², Parker Dulaney⁶ and Raju Bheemanahalli⁷, (1) Highway 182, Mississippi State University, Mississippi State, MS, US, (2) Agricultural and Biological Engineering, Mississippi State University, Starkville, MS, (3) Mississippi State Delta Research Center, Stoneville, MS, US, (4) College of Agriculture and Life Sciences, Mississippi State University, Starkville, MS, (5) Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (6) Ag Leader Technology, Starkville, MS, (7) Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS</p>
8.15 AM	<p>Harvest Regimens Affect Dry Matter Yields of Warm-Season Annual Forage Varieties in West-Tennessee.</p> <p>Madelyn Holbrook¹, Isaac Lepcha², Craig Darroch³ and Clint Ary³, (1) Agriculture, Geosciences and Natural Resources, University of Tennessee, Martin, TN, US, (2) Department of Agriculture, Geosciences & Natural Resources, University of Tennessee-Martin, Martin, TN, US, (3) Agriculture, Geosciences and Natural Resources, University of Tennessee Martin, Martin, TN</p>
8.30 AM	<p>Modeling Effects of DSSAT Substor Potato Model on Yield and Quality of Potato Crop with Phosphorus Fertilization in Florida.</p> <p>Uzair Ahmad, Soil, Water and Ecosystem Sciences, University of Florida, Gainesville, FL, US, Amanpreet K Sandhu, Soil and Water Sciences, UF, IFAS, Gainesville, FL, US and Lakesh Sharma, Cooperative Extension, University of Florida, Gainesville, FL, US</p>
8.45 AM	Using Leaf Osmotic Potential to Evaluate Drought Tolerance of Cotton in Southwest Texas.

	<p>Xuejun Dong, Texas Agrilife Research-Uvalde, Uvalde, TX, US, Dale Mott, Soil and Crop Sciences, Texas A&M AgriLife Extension Service, College Station, TX, Benjamin McKnight, Soil and Crop Sciences, Texas A&M University, College Station, TX, US and Quan Zhou, Department of Statistics, Texas A&M University, College Station, TX</p>
9.00 AM	Break
9.15 AM	<p>Effect of Nitrogen Fertilization on Native Warm-Season Grasses Under Forage Management. Eric Bisangwa, Forestry, Wildlife and Fisheries, University of Tennessee-Knoxville, Maryville, TN, US, Jonathan D Richwine, University of Tennessee-Knoxville, Drummonds, TN, Patrick D Keyser, Center for Native Grasslands Management, Department of Forestry Wildlife and Fisheries, University of Tennessee - Knoxville, Knoxville, TN and Forbes R. Walker, Biosystems Engineering and Soil Science, University of Tennessee, Knoxville, TN</p>
9.30 AM	<p>Corn Yield Prediction Using High-Resolution UAV Multispectral Data and Machine Learning. Chandan Kumar¹, Partson Mubvumba², Yanbo Huang³, Krishna Reddy⁴ and Jagmandeep Singh Dhillon¹, (1) Plant and Soil Sciences, Mississippi State University, Starkville, MS, US, (2) USDA-ARS, Stoneville, MS, (3) USDA-ARS, Mississippi State, MS, US, (4) USDA ARS, Stoneville, MS</p>
9.45 AM	<p>Effect of Split Sulfur Applications on Biomass and Yield of Potato Crop in Florida. Ayush Sharma, Soil and Water Sciences, University of Florida-Soil & Water Sciences, Gainesville, FL, US, Lakesh Sharma, Cooperative Extension, University of Florida, Gainesville, FL, US, Amanpreet K Sandhu, Soil and Water Sciences, UF, IFAS, Gainesville, FL, US, Simranpreet K Sidhu, University of Florida, Gainesville, FL, US and Navdeep Kaur, M.Sc, UF, IFAS, Gainesville, FL, US</p>
10.00 AM	<p>Climate Smart Row Crop Production with Cattle and Perennial Grass Rotations in Florida. Joseph Enye Iboyi¹, David L. Wright², Sheeja George² and Ian M Small³, (1) University of Florida West Florida Research & Education Center, Jay, FL, US, (2) University of Florida-North Florida Research & Education Center, Quincy, FL, (3) North Florida Research and Education Center, University of Florida, Quincy, FL</p>
10:15 AM	Break

10.30 – 11.30 AM Agronomy Business Meeting and Awards