

**SATURDAY, FEBRUARY 1, 2025**

**STUDENT & POST-DOC INDUSTRY TOUR & SOCIAL: 11:30 AM – 8:00 PM**

LOCATION: Front of Westin Irving Convention Center

**SUNDAY, FEBRUARY 2, 2025**

REGISTRATION: 10:00 AM - 4:00 PM

LOCATION: Irving Convention Center Prefunction Third Floor

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

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

LOCATION: Junior Ballroom D1

**UNDERGRADUATE STUDENT POSTER COMPETITION**

1. Investigating the Interactive Effects of N-P-K Fertility and PGR Management on Cotton Growth, Development, and Yield. **Amie Jones**, Glen Harris, John Snider, Philip M Roberts, and Camp Hand
2. Forage Nutritive Value of Silphium Integrifolium and Thinopyrum Intermedium during the Establishment Year. **Jacqueline Garrett**
3. The Contribution of Organic Matter Application on the Dynamics of Soil Properties. **Clara Damman**, Elijah Maggart, and I. P. Handayani
4. Forage Nutritive Value Comparison between NIR-Based Analysis and Traditional Wet Chemistry Method of Perennial Grain Crops. **Hannah Harrell**, Jacqueline Garrett, Christopher Hall, Tyler Lansford, Samuel I Haruna, and Song Cui
5. Urban Sprawl in Coastal Alabama and Its Effects on Agriculture and Natural Ecosystems. **William Rich** and Thorsten Knappenberger
6. Crop Management Impact on Continuous Corn Yields Using Nutrient Tracking Tool (NTT) Program. **Kennedi A Harris**
7. Colortalk: Development and Validation of an Open-Source Remote Sensing Tool for Agricultural Production. **Jesse Jerls**, Michael J Maw, and Alex J. McLemore
8. The Comparison of Tillage and Planting Date on Corn Yield in South Georgia. **Stormie Rackley**, Charli Matthews, Michael J Maw, and Alex J. McLemore
9. Early Planting Effects on Early Soybean Maturity Groups in South Georgia. **Charli Matthews**, Stormie Rackley, and Michael J Maw
10. Planting Date by Maturity Group Effects on Soybean Architecture and Yield Components in Mississippi. **Lowrey Hays Veazey**, Michael J. Mulvaney, John Wallace, Tucker Hilyer, Oluwaseyi E. Olomitutu, Grant M. Shavers, and Oluwafemi Oyedele

**GRADUATE STUDENT POSTER COMPETITION – M.S. STUDENTS**

11. Aerial Phenotyping of Soybean to Estimate Key Morphophysiological Parameters and Yield. **Lalit Pun Magar**, Anuj Chiluwal, and Jeremy Sandifer
12. Impact of Variable in-Season Soil Water Tension Irrigation Thresholds on Georgia 06-G Peanut Production. **Hannah Grubbs**, Wesley M. Porter, Cristiane Pilon, W. Scott Monfort, Erin Porter, and Miller Hayes
13. Effects of Integrated Crop and Small-Ruminant Rotation Organic System on Soil Health **Asmita Bhandari**, Sandeep Airee, Shawn T. Lucas, and Atanu Mukherjee
14. Do Manure and Compost Improve Water Quality? **Sandeep Airee**, Asmita Bhandari, and Atanu Mukherjee
15. Response of Cotton to Different Blends of Controlled Release Fertilizer and Conventional Urea Under Surface Broadcasting. **Akash Shah**, Kulpreet Singh, Eajaz Ahmad Dar, Nkem Nwosu, Satinderpal Singh, and Hardeep Singh
16. No-till Vs Conventional Tillage Cover Crop System Effects on Cotton in Mississippi Blackland Prairie. **Mallie Rivenbark** and Ameer Bumguardner
17. Evaluating Alternative Calcium Fertilizers in Peanut. **James Tuberville**
18. Audit of Climate-Smart Agriculture Communication Materials. **Kaitlyn Anderson**
19. Biochar and Poultry Litter Influence Soil Nitrogen Availability in Cotton Production Systems. **Alexandra Lindsey**, Audrey V. Gamble, Yucheng Feng, Rishi Prasad, and H. Allen Torbert
20. Effects of Reduced Irrigation on Cowpeas: Plant Health, Leaf Reflectance, and Growth **Sujan Poudel**, Bala Subramanyam Sivarathri, Vijaykumar Hosahalli, Lekshmy Valsala Sankara Pillai, and Raju Bheemanahalli
21. Effect of Long-Term Leachate Water Quality Under Different Fertilizer Management Practices. **Prakriti Paudel** and Atanu Mukherjee
22. Identification of New Germplasm Sources and Traits for Breeding Heat-Tolerant Soybean Varieties. **Shelby Hammond**, Malarvizhi Sathasivam, Benjamin Fallen, James R. Smith, and Sruthi Narayanan
23. Evaluation of Soybean Yield Potential Following Simulated Stand Loss after Planting. **William O'Neal**, Trent Irby, Jason Bond, Brian K Pieralisi, William Maples, Brittany R Elliott, and Garrett Oswalt
24. Using Modern Analytical Techniques to Predict Soil Texture from Measured ECa in Georgia Coastal Plain Soils. **Alessio Bosco**, George Vellidis, Francesco Morari, Matthew R. Levi, and Marco Sozzi
25. Optimizing Agricultural Practices: Synergistic Effects of Rotations, Tillage, Cover Crop, and Nitrogen. **Dylan Williams**, Jay Mahaffey, Dorivar A. Ruiz Diaz, and Jagmandeep Singh Dhillon
26. Biological Effects on Soybean Plant Architecture and Yield Components in Mississippi. **Tucker Hilyer**, Corey J Bryant, Michael J. Mulvaney, Thomas W. Allen, J. Trenton Irby, John Wallace, Grant M. Shavers, and Oluwaseyi E. Olomitutu
27. Cotton Productivity at Varying Soil pH Values. **Erika J. Vanderveer**, Corey J Bryant, and Vaughn Reed
28. Enhancing Soybean Protein Concentration Using Biochar and Late-Season Nitrogen Fertilization. **Deepak Khatri**
29. Source Sink Manipulation to Understand the Seed Growth Dynamics in Soybean. **Sudip Poudel** and Anuj Chiluwal
30. Assessing Soil Health Among Grass Monoculture, Grass-Alfalfa Mix, and Alfalfa Monoculture Forage Systems in Tennessee. **Mukesh Chaudhary**, Pooja Chaudhari, and Krishna Bhandari
31. Establishing Cover Crops in a Bedded Cropping System. **Grant M. Shavers**, Michael J. Mulvaney, Oluwaseyi E. Olomitutu, Tucker Hilyer, John Wallace, Oluwafemi Oyedele, Vaughn Reed, Corey J Bryant, and Wes J. Lowe

32. Variable Application Rates of Slaughterhouse By-Product Waste on Grain Sorghum (*Sorghum bicolor*) Growth. **Amberly Zaragoza**, Shad D. Nelson, Sanku Datta Mudi, and Benjamin L. Turner

**GRADUATE STUDENT POSTER COMPETITION – Ph.D. STUDENTS**

33. Characterizing Cotton Cultivars for Reproductive Stage Heat Tolerance. **Mohan Kumar Bista**, Alekhya Chakravaram, Nisarga Kodadinne Narayana, Brian K Pieralisi, K. Raja Reddy, and Raju Bheemanahalli
34. Priming Soybean Seeds with Biostimulants and Gibberellic Acid: A Strategy to Enhance Cold Tolerance. **Bala Subramanyam Sivarathri**, Nisarga Kodadinne Narayana, Corey J Bryant, K. Raja Reddy, and Raju Bheemanahalli
35. Influence of Plant Growth Promoting Rhizobacteria and Poultry Litter on Early-Stage Growth of Ryegrass. **Felix Satognon**, Dexter B. Watts, Anthony Adesemoye, and Rishi Prasad
36. Leveraging Transformer Models for Gap-Filling Eddy Covariance Data: A Novel Approach Using Autoformer for Wetland Ecosystems. **Thomas A Goff** and Song Cui
37. Evaluating the Effects of Novel Electrochemically Treated Wastewater Solids Product on Wheat Growth and Soil Health. **Sandesh Bhatta**, Jedidian Adjei, Christian Alvarez-Pugliese, Ozhan Gecgel, Balaji Rao, Kayleigh Millerick, Gerardine G. Botte, Odemari Mbuya, Matthew G. Siebecker, and Lindsey C. Slaughter
38. Digital Agriculture Summer Camp: First and Second-Year Camp Participant Comparative Analysis of Knowledge and Postsecondary STEM Interests. Carly Altman, Song Cui, Chaney Mosley, Hannah Harrell, and **Jacqueline Garrett**
39. Applications of Unmanned Aerial Vehicles to Assess the Influence of Native River Cane (*Arundinaria gigantea*) to Improve Water Quality. **Nicole Sinkel** and Michael P. Nattrass
40. Influence of Cover Crop Residue Management on Volumetric Soil Moisture and Cotton Establishment. **Corey M Kichler**, Auburn, H. Allen Torbert, Ted S. Kornecki, and Rishi Prasad
41. Impact of Warmer Nights and Drought on Cowpea during the Flowering Stage. **Alekhya Chakravaram**, Lekshmy Valsala Sankara Pillai, and Raju Bheemanahalli
42. Row Cleaner Configurations to Facilitate High-Speed Soybean Planting into Residue. **Oluwaseyi E. Olomitutu**, Michael J. Mulvaney, Wes J. Lowe, John Wallace, Corey J Bryant, Grant M. Shavers, Tucker Hilyer, Jacob Meadows, Jagmandeep Singh Dhillon, Erick J. Larson, Jialin Zhang and Oluwafemi Oyedele
43. Cover Crop Interseeding for Enhancing the Sustainability of Organic Corn Production. **Luvina Madrid**, Rongzhong Ye, and Sruthi Narayanan
44. Macrofauna Accelerates Nutrient Cycling of Cocoa (*Theobroma cacao* L.) Litterfall. **Oluwafemi Oyedele**, Michael J. Mulvaney, Deo-Gratias Hougni, Stefan Hauser, Antonius Gerardus Theodorus Schut, Lotte S Woittiez, Leonard Rusinamhodzi, Moses O. Ogunlade, and Ken E. Giller
45. Soil Water Dynamics in Semi-Arid Regenerative Agricultural Cotton Systems. **Christopher Cobos**, Nicholas Boogades, Joseph A. Burke, Paul B. DeLaune, Wayne Keeling, and Katie L. Lewis

46. Greenhouse Gas Emissions in Regenerative Cotton Systems of the Semi-Arid Texas Plains. **Nicholas Boogades**, Christopher Cobos, Joseph A. Burke, Paul B. DeLaune, Wayne Keeling, and Katie L. Lewis
47. Impacts of Reduced Solar Radiation on Soybean: Growth and Development. **Tori Booker**, Stephen Harris, Josie Rice, and Josh Lofton

**PROFESSIONAL POSTER – CROPS**

48. Optimizing N Application Rate for Sustainable Cotton Production in North Florida Using the CSM-Cropgro-Cotton Model: A Conceptual Approach. **Rizwan Rafique**, Eeusha Nafi, Gerrit Hoogenboom, Ramdeo Seepaul, Kenneth Boote, and Cheryl Mackowiak
49. Exploring Warm Season Cover Crop Species for Georgia Cropping Systems. Taylor **Randell Singleton** and Nicholas Shay
50. Evaluating Elite Soft Red Winter Wheat for Stripe Rust Resistance in Southern U.S. **Ehsan Shakiba**, Noah DeWitt, Md Ali Babar, Richard Boyles, Mohamed Mergoum, Russell L. Sutton, Jeanette Lyerly, J. Paul Murphy, and Stephen Harrison
51. Advancing Climate-Smart Commodities: Insights from Biomass and Soil Moisture Dynamics in South Carolina. **Akanksha Sehgal** and Sruthi Narayanan
52. Modeling the El Niño-Southern Oscillation (ENSO) Phase-Specific, Drought-Induced Yield Loss of Winter Wheat in the Llano Estacado Region of the Southern United States. **Prem Oli**, Gerald R. Smith, Charles R. Long, and Francis M. Rouquette Jr
53. Modelling the Climate Change and Cotton Yield Relationship in Mississippi: Autoregressive Distributed Lag Approach. **Ramandeep Kumar**, Jagmandeep Singh Dhillon, Vaughn Reed, Darrin Dodds, K. Raja Reddy, and Krishna Reddy
54. Evaluating Nutrient Management Strategies for Improving Hydroponic Tomato Yield Morphological Characteristics. **Michael P. Nattrass** and Ronnie J Dunn
55. Evaluating Cotton Replant Decisions in the Mid-South. **Brian K Pieralisi**, William Joseph Rutland, Bryce Bullock, Luke Noah, and Ty Dickson

**PROFESSIONAL POSTER – SOILS**

56. The Effects of Potassium Fertilizer on Cotton When Soil Potassium Is below the Mississippi Lancaster Critical Level. **Amee Bumgardner**, Dillon Horn, and Doug Messer
57. Carbon Dioxide and Methane Flux in Regenerative Organic System. **Said Hamido** and Andrew Smith
58. Legacy Effects of Fertilizing Pastures with Alum-Treated Poultry Litter. **Philip A. Moore Jr.**, Alden Hotz, Kelsey Anderson, and Jerry Martin
59. The Most Effective Gypsum Application Method to Reduce P Loss from Poultry Litter. **Dexter B. Watts** and H. Allen Torbert
60. Analyzing the Impact of Regenerative Agricultural Practices on the Colonization of Arbuscular Mycorrhizal Fungi (AMF) in Cotton Roots. **Suelen Sousa**, Larissa Watkins, Terry Gentry, Paul B. DeLaune, and Katie L. Lewis
61. Integrating Soil Science Practicum into Sustainability Symposiums: Students Promote Sustainable Agriculture Practices. **Iin P. Handayani**, Brian Parr, and Alyx Shultz

- 62. Soil and Water Quality in Flood Prone Coastal Texas Bayous. **Dorothy Menefee**, Ali Saleh, Zack Shelley, and Stephanie Brady
- 63. Influence of High pH Stress on Morphological, Physiological and Quality Characteristics of Tomato (*Solanum lycopersicom* L.). **Navedullah Sediqui**

**SAAS OPENING NETWORK SOCIAL**

Time: 5:30 PM

LOCATION: Bar Louie – Toyota Music Factory

**MONDAY, FEBRUARY 3, 2025**

REGISTRATION: 8:00 AM - 3:00 PM

LOCATION: Irving Convention Center Prefunction Third Floor

**GRADUATE STUDENT ORAL COMPETITION – SECTION 1 – M.S. STUDENTS**

LOCATION: Junior Ballroom A1

7.55 AM	Opening Remarks
8.00 AM	Impact of Fertility Timing in Soybean. <b>Grant M. Shavers</b> , Tucker Hilyer, Michael J. Mulvaney, Oluwaseyi E. Olomitutu, John Wallace, Oluwafemi Oyedele, Vaughn Reed, Corey J Bryant, and Wes J. Lowe
8.15 AM	Influences of Biochar on Soil Health in Row Crop Production Systems. <b>Alexandra Lindsey</b> , Audrey V. Gamble, Yucheng Feng, Rishi Prasad, and H. Allen Torbert
8.30 AM	Comparing Soil Health Indicators in Various Agricultural Management Practices in Western Kentucky. <b>Disha Ande</b> and Iin P. Handayani
8.45 AM	Impacts of Short-Term Fertility Practices on Soil Health and Water Quality. <b>Sandeep Airee</b> , Asmita Bhandari, and Atanu Mukherjee
9.00 AM	Integrating Organic Amendments and Practices for Managing Phytophthora Capsici Pathogen, Soil Fertility, and Greenhouse Gas Emissions (GHGe) in Organic Vegetable Systems. <b>Prajina Neupane</b> , Anil Somenahally, Terry Gentry, Thomas Isakeit, Jake E. Mowrer, Chastity Aguilar, and Lauryn Coffman
9.15 AM	Quantifying Resilience of Cowpea to Drought during Early Seedling and Reproductive Stages. <b>Sujan Poudel</b> and Raju Bheemanahalli
9.30 AM	Determining Best Disease Management Programs for New Peanut Cultivar Tifcb-7. <b>James Tuberville</b>
9.45 AM	Break
10.00 AM	Effect of Varying N and Irrigation Application Strategies on Growth Parameters and Yield Components of Field Corn in Georgia. <b>Mohit Kumar</b> , Gurpreet Virk, Simerjeet Virk, John Snider, Shubhdeep Singh, and Ved Parkash
10.15 AM	Source Sink Manipulation in Soybean to Understand Its Final Seed Size Determination Stage. <b>Sudip Poudel</b> and Anuj Chiluwal
10.30 AM	Transforming Soil Health with Goats in Organic Crop Systems. <b>Asmita Bhandari</b>
10.45 AM	Soil Changes Following the Use of Pesticides and Fungicides in Common Cropping Systems in Kentucky. <b>Rasagna Chamakura</b> and Iin P. Handayani
11.00 AM	Calcium Source Influences Soil and Pod Calcium Levels, and Peanut Yield. <b>Satinderpal Singh</b> , Kulpreet Singh, Eajaz Ahmad Dar, Akash Shah, Nkem Nwosu,

	and Hardeep Singh
11.15 AM	Simulating Deer Damage: Quantifying the Impact of Multiple Feeding Events on Cotton Growth, Development, and Yield. <b>Maggie E Yates</b> , Philip M Roberts, Sally Taylor, and John Snider
11.30 AM	Assessing Soil Health in Annual Row Crop and Perennial Forage Production Systems in Tennessee. <b>Mukesh Chaudhary</b> , Pooja Chaudhari, and Krishna Bhandari
11.45 AM	Plant Height Measurement Using UAV-Based Aerial RGB and Lidar Images in Soybean. <b>Lalit Pun Magar</b> , Anuj Chiluwal, and Jeremy Sandifer
12.00 PM	Break
1:00 PM	Cover Crop Based Reduced Tillage Management in Foral Hemp Cultivation. <b>Rodgers Kabenomuhangi</b> , Emmanuel Omondi, Anand Kumar, and Sai Suvidh Maddela
1:15 PM	Biochar and Late Season Nitrogen Fertilization Effect on Soybean Yield and Seed Composition. <b>Deepak Khatri</b>
1:30 PM	Identifying the Optimal Timing for Supplemental Nitrogen Application to Enhance Soybean Seed Composition. <b>Manish Pandit</b> and Anuj Chiluwal
1:45 PM	Break

**GRADUATE STUDENT ORAL COMPETITION – SECTION 2 – M.S. STUDENTS**

LOCATION: Junior Ballroom A2

7.55 AM	Opening Remarks
8.00 AM	Biological Product Effects on Soybean in Mississippi. <b>Tucker Hilyer</b> , Corey J Bryant Michael J. Mulvaney, Thomas W. Allen, Trent Irby, John Wallace, Grant M. Shavers, and Oluwaseyi E. Olomitutu
8.15 AM	Is It Time to Reconsider Plant Populations for Top Mississippi Corn Hybrids? <b>Jason Kober</b> , Dylan Williams, Ameer Bumguardner, Corey J Bryant, Tyler Soignier, Vaughn Reed, and Jagmandeep Singh Dhillon
8.30 AM	Medium Term Effect of an Established Integrated Organic Crop- Livestock Rotation System on Sub-Surface Water Quality. <b>Binaya Baral</b> , Shawn T. Lucas, and Anuj Chiluwal
8.45 AM	Comparing Seed Meter, Planter Speed, Vacuum and Downforce in Single-Row Peanut. <b>Marco Torresan</b> , Wesley M. Porter, Cody Mathis, R. Anthony Black, W. Scott Monfort, and Luke Fuhrer
9.00 AM	Corn Grain Yield and Runoff Nitrogen Loss Response to Nitrogen Application Method. <b>Morgan Hutton</b> , Gene Dave Spencer, Zach Reynolds, and Jason Krutz
9.15 AM	Nutrient Uptake by Soybean Maturity Group. <b>Jaylea Douglas</b> and Corey J Bryant
9.30 AM	A Comparison of Cotton Irrigation Utilization across Multiple Population Densities. <b>Miller Hayes</b> , Wesley M. Porter, Luke Fuhrer, Camp Hand, John Snider, and George Vellidis
9.45 AM	Break
10.00 AM	Determining Losses in Upland Cotton ( <i>Gossypium hirsutum</i> ) Due to Wild Deer ( <i>Odocoileus virginianus</i> ) Populations in the Southeast. <b>Lance Wortman</b> , Scott Graham, Sally Taylor, Philip M Roberts, John Snider, and Camp Hand

10.15 AM	Evaluation of Stand Loss and Replant Populations for Maximizing Yield Potential in Narrow Row, Wide Row, and Wide Row Twin Row Soybean. <b>William O'Neal</b> , Trent Irby, Jason Bond, Brian K Pieralisi, William Maples, Brittany R Elliott, and Garrett Oswalt
10.30 AM	Evaluating Cover Crop Species Effect on Biomass Accumulation and Carbon Sequestration. <b>Austin Warren</b> , Taylor Randell Singleton, and Lori Duncan
10.45 AM	Impact of Defoliation and Loss of Apical Dominance on Cotton Growth, Development, and Yield. <b>Luke C Noah</b> , Brian K Pieralisi, Whitney D Crow, Darrin M. Dodds, and Brendan A Zurweller
11.00 AM	The Effects of Manure Applications on Cotton Yield and Soil Greenhouse Gas Emissions in the Texas High Plains. <b>Tessa Roberts</b> and Katie L. Lewis
11.15 AM	Evaluation of Soybean Yield Potential Following Simulated Deer Damage. <b>Brittany R Elliott</b> , J. Trenton Irby, Brian K Pieralisi, Bronson Strickland, William Maples, William O'Neal, and Garrett Oswalt
11.30 AM	Efficacy of Banded Potassium Applications and Reduced Rates in a Cotton Production System. <b>Bryce Bullock</b> , Brian K Pieralisi, Brendan A Zurweller, Darrin Dodds, and Tessie Wilkerson
11.45 AM	Evaluating Soil Health Among Dominant Annual Vs Perennial Cropping Systems. <b>Pooja Chaudhari</b> , Mukesh Chaudhary, and Krishna Bhandari
12.00 PM	Break
1.00 PM	Increasing Peanut ( <i>Arachis hypogaea</i> ) Seeding Rates and Yield Potential in Reference to Later Planting Dates. <b>Kaelyn Morgan</b> and W. Scott Monfort
1.15 PM	The Effects of PGR Management on Cotton Susceptibility to Drought during Reproductive Development. <b>Brian Wisekal</b> , John Snider, Camp Hand, Wesley M. Porter, Joshua Lee, and Ved Parkash
1:30 PM	Impact of cotton harvest aids on different cover crops. <b>Harsanjam Singh</b> , Josie Rice, Sumit Sharma, and Josh Lofton
1:45 PM	Break

**GRADUATE STUDENT ORAL COMPETITION – SECTION 1 – Ph.D. STUDENTS**

LOCATION: Junior Ballroom A1

2.00 PM	Oats for Forage: Impact of Planting Date and N Rate. <b>Josie Rice</b> , Tori Booker, Stephen Harris, and Josh Lofton
2.15 PM	Effect of Water Deficit on Soybean Root Morphology and Nodulation. <b>Bala Subramanyam Sivarathri</b> , Mohan Kumar Bista, Nisarga Kodadinne Narayana, and Raju Bheemanahalli
2.30 PM	Is Finger Millet Resilient to Drought across Growth Stages? <b>Mohan Kumar Bista</b> , Nisarga Kodadinne Narayana, Alekhya Chakravaram, and Raju Bheemanahalli
2.45 PM	Soil Carbon and Nitrogen Dynamics in Regenerative Cotton Systems of the Semi-Arid Texas Plains. <b>Nicholas Boogades</b> , Christopher Cobos, Joseph A. Burke, Wayne Keeling, Paul B. DeLaune, and Katie L. Lewis
3.00 PM	Implementation of Site-Specific Management to Improve Profitability and Accelerate Nutrient Load Reductions. <b>Lane Galloway</b> , Dave Spencer, and Zach Reynolds
3.15 PM	Break
3.30 PM	Strategic Fertility Management Reduces Greenhouse Gas Emissions in Corn. <b>Pankaj Joshi</b> , Madhav Dhakal, Dave Spencer and Zach Reynolds

3.45 PM	Influence of Microbial Products on Nitrogen Use Efficiency in <i>Gossypium hirsutum</i> across the Cotton Belt. <b>William Joseph Rutland</b> , Brian K Peralisi, Luke Noah, Bryce Bullock, D. Brian Arnall, Katie L. Lewis, Camp Hand, Trenton L. Roberts, Benjamin McKnight, William Hunter Frame, Tyson Brant Raper, Bradley R Wilson, Michael A. Jones, Keith Edmisten, Randall Norton, Bhupinder Singh Farmaha, Audrey V. Gamble, and Tyler Soignier
4.00 PM	Enhancing Grass Seedling Establishment with PGPR Under Different Temperature Conditions. <b>Felix Satognon</b> , Dexter B. Watts, Anthony Adesemoye, and Rishi Prasad
4.15 PM	Implementing Alternate Wetting and Drying Irrigation Management with Automated Technologies in Rice Production. <b>Graham Oakley</b> , Dave Spencer, Drew M. Gholson, and Jason Krutz
4.30 PM	Potential of Industrial Hemp in Managing Internal Parasite in Small Ruminants While Mitigating Impacts of Climate Change. <b>Chiamaka U. Nnadi</b> and Emmanuel Omondi
4.45 PM	Adjourn

**GRADUATE STUDENT ORAL COMPETITION – SECTION 2 – Ph.D. STUDENTS**

LOCATION: Junior Ballroom A2

2.00 PM	Assessing Corn Growth and Yield Parameters with Different Nitrogen Sources and Rates. <b>Karamvir Kaur</b> , Sarah White, Alan J Franzluebbbers, Carlyle C Brewster, Michael W Marshall, and Bhupinder Singh Farmaha
2.15 PM	Nutrient Source and Cover Crop Residue Management Effects on Cotton Growth and Yield. <b>Corey M Kichler</b> , Dexter B. Watts, H. Allen Torbert, Ted S. Kornecki, and Rishi Prasad
2.30 PM	Characterizing Natural Diversity in Physiological and Yield Traits of Finger Millet. <b>Alekhyia Chakravaram</b> , Mohan Kumar Bista, Nisarga Kodadinne Narayana, and Raju Bheemanahalli
2.45 PM	Synergistic Effects of Cover Crop and Nitrogen Fertilization on Corn Yield: A Meta-Analysis. <b>Pulkit Juneja</b> , Gurjinder S. Baath, Jaiveer S Brar, K. Colton Flynn, Jenifer L Yost, and Nithya Rajan
3.00 PM	Impact of Planting Speed and Downforce on Corn Seeding. <b>Oluwaseyi E. Olomitutu</b> , Jagmandeep Singh Dhillon, Michael J. Mulvaney, Wes J. Lowe, Corey J Bryant, Erick J. Larson, Jialin Zhang, John Wallace, Jacob Meadows, Grant M. Shavers, Tucker Hilyer, and Oluwafemi Oyedele
3.15 PM	Break
3.30 PM	Nitrogen Credits after Soybean: A Review. <b>Oluwafemi Oyedele</b> , Michael J. Mulvaney, Mekonnen Giweta, Oluwaseyi E. Olomitutu, John Wallace, Grant M. Shavers, and Tucker Hilyer
3.45 PM	On-Farm Efficacy of Cover Crop Treatments on Sediment/Nutrient Load Transport Abatement and Crop Yields. <b>Jason Hampshire</b> , Dave Spencer, Jason Krutz, and Graham Oakley
4.00 PM	Optimizing Cover Crop Termination Timings in Semi-Arid Regenerative Agricultural Cotton Systems. <b>Christopher Cobos</b> , Nicholas Boogades, Gurjinder



	S. Baath, Joseph A. Burke, Sumantra Chatterjee, Paul B. DeLaune, and Katie L. Lewis
4.15 PM	Dynamics of Soil GHG Emission in a Maize Field Post-Harvest. <b>Kasun Pathirage</b> , Felipe Aburto, and Nithya Rajan
4.30 PM	Irrigated cotton production under limited well capacities in the Central High Plains. <b>Digvijay Mohite</b> , Mark Anthony Barbadillo, Harsanjam Singh Randhawa, Sumit Sharma.
4.45 PM	Adjourn

**TUESDAY, FEBRUARY 4, 2025**

**PROFESSIONAL ORAL – SECTION 1**

LOCATION: Junior Ballroom A1

7.55 AM	Opening Remarks
8.00 AM	Unoccupied Aircraft System (UAS) Programs for High Throughput Phenotyping (HTP) at Tennessee State University (TSU). <b>Anjin Chang</b>
8.15 AM	First Documented Yield Loss to Clrdv-Induced Bronze Wilt in Georgia <b>Camp Hand</b> , Sudeep Bag, Philip M Roberts, Robert Kemerait, and Peng Chee
8.30 AM	Comparison of in-Field and Tissue Analysis Approaches for Assessing Nitrogen Status and Management in Cotton. <b>Ramdeo Seepaul</b> , Rizwan Rafique, Joseph Enye Iboyi, and Cheryl Mackowiak
8.45 AM	Break
9.00 AM	Understanding Eutrophication Is in Coastal Texas Bayous: A Study of Nutrient Indicators, and Microbiome Communities. <b>Namraj Jaishi</b> , Dorothy Menefee, Victoria Chraibi, Janice Speshock, Ali Saleh, and Zack Shelley
9.15 AM	Prediction of Compost Organic Matter Via Smartphone Image Analysis <b>David C. Weindorf</b> , Somsubhra Chakraborty, Mona Liza Sirbescu, and Bin Li
9.30 AM	A Management Decision-Making Tool for Water Quality and Quantity Assessment and Trading Program: Nutrient Tracking Tool (NTT). <b>Ali Saleh</b>
9.45 AM	Adjourn

**PROFESSIONAL ORAL – SECTION 2**

LOCATION: Junior Ballroom A2

7.55 AM	Opening Remarks
8.00 AM	Conservation Production Impacts on Yield of Cotton in the USA <b>Daniel Fleming</b> , Dave Spencer, Jason Krutz, and Zach Reynold
8.15 AM	A Comparative Analysis of Romaine Lettuce Yield, Quality, and Microbial Safety in Controlled Environment Agriculture and Traditional Field Cultivation. <b>Bipul Biswas</b>
8.30 AM	Influences of Differential Light Interception through Manipulation of Crop Row Orientation, Spacing, and Soil Coverage on Weed Suppression and Crop Yield in Subtropical Alabama. <b>Aniruddha Maity</b>

## Southern Branch ASA Annual Meeting



8.45 AM	Break
9.00 AM	Corn Yield Prediction Using Crop Circle at Different Growth Stages <b>Ramandeep Kumar</b> , Raju Bheemanahalli, Jagman Dhillon
9.15 AM	Winter Annual Legume Cover Crop Species Selection and Seeding Rates for the Southern US. <b>Audrey V. Gamble</b> , Annu Kumari, and Sarah Seehaver Eagen
9.30 AM	Modeling Specialty Fruit Crops in Data Limited Environments: Insight from Table Grapes in a Non-Traditional Viticulture Zone in South Asia. <b>Rizwan Rafique</b> , Touqeer Ahmad, and Gerrit Hoogenboom
9.45 AM	Adjourn

### **AGRONOMY BUSINESS MEETING AND AWARDS**

Time: 10:00 AM – 12:00 PM

LOCATION: Grand Ballroom G1