AGRONOMY

Program of the
Southern Branch
American Society of Agronomy
Annual Meeting
February 5-7, 2017

Mobile Convention Center
Mobile, AL

2016-2017 OFFICERS

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Dr. Dexter B. Watts
USDA-ARS National Soil Dynamics Lab
dexter.watts@ars.usda.gov

Vice-President & Program Chair
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Texas A&M AgriLife Research
pb delaune@ag.tamu.edu

Secretary/Treasurer
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Auburn University
jah0020@auburn.edu

Past President
Dr. Mark S. Reiter
Virginia Tech
mreiter@vt.edu
SUNDAY, FEBRUARY 5, 2017

Registration: 10:00 AM – 4:00 PM
Mobile Convention Center
Prefunction Area

POSTER SESSION
1:00 PM – 4:00 PM
Authors Present from 1:00 PM- 3:00 PM
Mobile Convention Center
Prefunction Area 201/202

UNDERGRADUATE STUDENT POSTER
COMPETITION – CROPS AND SOILS

1. Dynamics of Soil Characteristics in Cultivated Areas of Silt Loam, Kentucky. S. Schacht*, L.P. Handayani, M. Derting, and A. Shultz; Murray State University

2. Quantifying Changes of Soil Properties in Urban and Rural Landscapes in Kentucky. G.M. Davis* and L. Handayani; Murray State University


4. Soil Characteristics of a Western Kentucky Permaculture Orchard. S. Still*, K. Goheen and L.P. Handayani; Murray State University

5. Precision Corn Seeding Alternative: High Velocity Projectile. Z. Sumner*, W.B. Henry, and H. Walne; Mississippi State University

GRADUATE STUDENT POSTER COMPETITION – M.S. Students

6. Planting Date, Hybrid Selection, and Irrigation Frequency to Optimize Profitability in a Mid-South Corn Production System. J.J. Williams*, W.B. Henry, N. Buehring, L.J. Krutz, J.B. Whittenton, and O. Ali; Mississippi State University

8. Yield Response to Relative Maturity Rating in Corn (Zea mays L.). J. Whittenton* and W.B. Henry; Mississippi State University

9. Impact of Pre-Bloom Square Loss on Yield and Lint Quality in Louisiana Cotton Cropping Systems. C.L. Cole*1, D.D. Fromme2, D. Kerns3, and G. Myers4; (1) USDA-NRCS, Kenner; (2) LSU AgCenter, Alexandria; (3) LSU AgCenter, Winnsboro; (4) LSU AgCenter, Baton Rouge

10. Pre-Emergent Herbicide Rate Effects on Phytotoxicity and Weed Suppression in Industrial Hemp. P. Woosley, R. Anderson* and T. Willian; Western Kentucky University

11. Boron Rate and Timing on Runner Peanuts (Arachis hypogaea L.). A. Van Cleave*1, A. Callaway1, G. Harris2, and J.A. Howe1; (1) Auburn University; (2) University of Georgia, Tifton

12. Impact of Row Spacing, Planting Date and Seeding Rate in Dryland Soybean (Glycine max) Production. S.M. Carver*1, J.T. Irby1, D.M. Dodds1, D.B. Reynolds1, A.L. Catchot Jr.1, J.M. Orlowski2, A.B. Scholtes1 and S.G. Flint1; (1)Mississippi State University, Mississippi State; (2)Mississippi State University, Stoneville

13. Bahiagrass-Legume Mixtures Reduce the Need for N Fertilizer Inputs in Hay Fields. E.R. da Silva Santos*1, J.C.B. Dubeux Jr.1, C. Mackowiak2, A. Blount1, J. Shirley2, D. Jaramillo2, L. Garcia1, M. Ruiz-Moreno1, J. Diogenes Neto3 and L. M. Dantas Queiroz4; (1)North Florida Research and Education Center, Marianna; (2)North Florida Research and Education Center, Quincy; (3) Universidade Federal Rural de Pernambuco, Marianna; (4) Federal Rural University of Pernambuco, Serra Talhada - PE, Brazil


15. Validation of Soil Test and Plant Tissue Potassium Recommendations for Soybean in North Carolina. L. Lintz*1, C.R. Crozier2, and D.H. Hardy3; (1) North Carolina State University, Raleigh; (2) North Carolina State University, Plymouth; (3) North Carolina Department of Agriculture, Raleigh

16. Temporal and Spatial Relationships of Suspended Sediments in Bioretention Cells (BRCs). H. Douglas*; Auburn University

17. Using Photogrammetry to Document Stream Topography. C. Duke*; Auburn University
18. Transgenerational Inheritance of Soil Moisture Stress Induced Loss on Soybean Seed Germination. C. Wijewardana*, F. A. Alsajri, and K. R. Reddy; Mississippi State University

19. Stratification of Soil Properties By Depth in a Perennial Warm Season Pasture Overseeded with Cool Season Annuals. K. Bridges*1, L. M. Fultz1, W. Alison2, K. J. Han1, B. Macoon3, and W. Pitman4; (1) Louisiana State University, Baton Rouge; (2) LSU AgCenter, Winnsboro; (3) Mississippi State University, Jackson; and (4) LSU AgCenter, Homer


23. Irrigation and Fertilizer Placement Effects on Trace Gas Emissions from an Ornamental Crop. A. M. Murphy*1, S. A. Prior2, B. Runion2, H. A. Torbert2, J. Sibley1, and C. H. Gilliam1; (1) Auburn University; (2) National Soil Dynamics Laboratory, USDA-ARS, Auburn


25. Screening Rice Lines for Salinity Tolerance at Early Stages. N. Naqebullah*1, K. R. Reddy1, and E. D. Redoña2; (1) Mississippi State University, Mississippi State; (2) Delta Research and Extension Center, Mississippi State University, Stoneville


27. Developing Screening Tools for Temperature Tolerance in Rice Cultivars during Early-Season. S. Jumaa* and K. R. Reddy; Mississippi State University
28. Temperature Effect on Maize Germination and Root Elongation. O. Ali*; Mississippi State University

29. Residual Effect of Poultry Litter on Soybean Productivity Following Wheat Cropping. Y. Lin*, D. B. Watts, and H. A. Torbert; (1) Auburn University; (2) National Soil Dynamics Laboratory, USDA-ARS, Auburn

30. Influence of Plant Growth-Promoting Rhizobacteria on Maize Growth Under Different Fertility Sources. Y. Lin*, D. B. Watts, and J. Kloepper; (1) Auburn University; (2) National Soil Dynamics Laboratory, USDA-ARS, Auburn

31. Quantifying Impacts of Early Season Water Deficit on Multiple Cotton Cultivars. C. Meeks*, J. Snider, T. Barnes, and M. Babb-Hartman; University of Georgia, Tifton

32. Winter Malt Barley Cultivar Response to Disease Incidence and Management Effects on Grain Yield and Quality. M. Swoish*; Virginia Tech University

33. Cultivar Variation in Dynamic Seed Germination Response to Time and Temperature in Cotton. S. Singla*, J. Snider, T. L. Grey, W. Porter, P. Roberts, D. Chastain, and K. Chapman; (1) University of Georgia, Athens; (2) University of Georgia, Tifton; (3) Mississippi State University, Stoneville; (4) University of North Texas

34. Effect of Calcium Silicate Slag on Drought Stress in Rice Production. R. Yang*, J. A. Howe, and B. R. Golden; (1) Auburn University; (2) Mississippi State University, Stoneville

PROFESSIONAL POSTER – CROPS

35. Stockpiling Perennial Warm-Season Forage Grasses in East-Central Mississippi. J.B. Rushing*, M. T. Thornton, and R. W. Lemus; (1) Mississippi State University, Newton; (2) Mississippi State University, Mississippi State


37. Using Biochar As a Soil Amendment for Radish Production in Middle Tennessee. T. Pirtle*, L. Rumble, M. Klug, S. Cui, and N. Phillips; (1) Middle Tennessee State University, Winchester; (2) Middle Tennessee State University, Murfreesboro
38. Maturity Group III Soybean Varieties' Yield Response in North Mississippi. A. R. Taylor*, N. W. Buehring, and M. P. Harrison; Mississippi State University, Verona

39. MSU Extension Service Corn Verification Program. J. Bibb*, E. J. Larson1, L. J. Krutz2, A. Catchot1, and T. Allen1; (1) Mississippi State University, Mississippi State; (2) Mississippi State University, Stoneville

40. High Efficient Somatic Embryogenesis Development from Leaf Cultures of Citrullus Colocynthis (L.) Schrad for Generating True Type Clones. S. Taduri* and K. R. Reddy; Mississippi State University

41. Enhancing Corn Yield with Elevated Plant Population. W. B. Henry*, N. W. Buehring2, J. B. Whittenton1, J. J. Williams1, O. Ali1, and J. Kelley3; (1) Mississippi State University, Mississippi State; (2) Mississippi State University, Verona; (3) University of Arkansas, Little Rock

42. Cellulose Nanocrystals (CNC) from Renewable Bioenergy Crops: A Sustainable Green Material for the Future. H. P. Singh*, L. G. Chivukula, and J. A. Mason; Fort Valley State University

43. Effects of Tillage and N Fertilizer on Cotton Growth, Yield, and Fiber Quality. B. Runion*, D. B. Watts, and K. Balkcom; National Soil Dynamics Laboratory, USDA-ARS, Auburn

44. Long-Term Effects of Conservation Systems on Productivity for the Old Rotation. L. M. Duzy*, K. S. Balkcom1, C. C. Mitchell2, and D. Delaney2; (1) USDA-ARS, Auburn; (2) Auburn University

45. Comparison of Spatial Models for Corn Planting Date and Crop Maturity in Mississippi. P. J. English*, S. L. DeFauw2, and L. L. Falconer1; Mississippi State University, Stoneville; (2) Ascend Geospatial LLC.

46. Fertilizer Effects on a Winter Cereal Cover Crop. K. S. Balkcom*; USDA-ARS, Auburn

47. Increasing Yields and Profitability for Mid-Atlantic Double-Crop Soybean. D.L. Holshouser*, R. Kratochvil2, C. Whaley3, D.G. Voight Jr.4, G.W. Roth5, G.S. Faé5, E.J. Dunphy6 and R. Parvej1; 1)Tidewater AREC, Virginia Tech, Suffolk; (2)University of Maryland; (3)Carvel Research and Education Center, University of Delaware, Georgetown; (4)Pennsylvania State University, Lebanon; (5) Pennsylvania State University, University Park; (7) North Carolina State University
48. Cover Crop Management for Mid-Atlantic Vegetable Systems. M. S. Reiter*; Eastern Shore Agricultural Research and Extension Center, Virginia Tech University, Painter

49. Cover Crop Effects on Nutrient Cycling and Microbial Communities. Paul B. DeLaune*, Partson Mubvumba, and Charles Coufal; Texas A&M AgriLife Research

50. Detection of Human Pharmaceuticals in Surface Water of a Middle Tennessee Urbanizing Watershed. S. Dennis*, R. Kaur, and A. A. Amenyenu; Tennessee State University

51. Removal of Excess Nutrients from Soil Following Poultry Litter Application By Use of Prescription Based Inorganic Fertilizer Addition. R. Gilfillen*, A. Netthisinghe, and P. Woosley; Western Kentucky University

52. Elevated CO2 and Nitrogen Effects on Soil CO2 Flux from a Pasture upon Return to Cultivation. S. A. Prior*, H. A. Torbert, and G. B. Runion; National Soil Dynamics Laboratory, USDA-ARS, Auburn

53. Opportunities to Increase Nitrogen and Water Use Efficiency in Grain Sorghum Production. L. Espinoza* and M. Ismanov; University of Arkansas, Little Rock

SAAS Program

4:00 PM – 4:15 PM
SAAS Business Meeting,
Room 203 B
Mobile Convention Center

5:00 PM
Social and Super Bowl Party
East and West Ballroom
Mobile Convention Center
MONDAY, FEBRUARY 6, 2017

Registration: 7:00 AM – 5:00 PM
Mobile Convention Center
Prefunction Area

GRADUATE STUDENT ORAL COMPETITION – M.S. Students
Mobile Convention Center
Room 201A

7:55 AM Introductory Remarks.

8:00 AM Evaluating the Impact of Canopy Defoliation Levels at Two Critical Timings in Peanut. C. Abbott¹, J. M. Sarver², A. Henn¹, J. Gore³, and J. Krutz⁵; (1)Mississippi State University, Mississippi State; (2)Mississippi State University, Starkville; (3)Mississippi State University, Stoneville

8:15 AM Applied Use of Unmanned Aerial Systems for Soybean Harvest Aid Application. C. A. Smith*, J. Czarnecki, T. Irby, and S. M. Carver; Mississippi State University

8:30 AM Use of Winter Legumes As Late Summer through Spring Cover Crops. J. McLemore*; Mississippi State University

8:45 AM Evaluation of Calcium Fertilization in Irrigated and Non-Irrigated Runner Peanut. K. D. Pegues*, R. S. Tubbs, W. S. Monfort, and G. Harris; University of Georgia - Tifton

9:00 AM Evaluation of Replant Methods for Maximizing Yield in Suboptimal Soybean (Glycine max) Populations. S. M. Carver*, J. T. Irby¹, D. M. Dodds¹, D. B. Reynolds¹, A. L. Catchot Jr.¹, J. M. Orlowski², A. B. Scholtes¹, and S. G. Flint¹; (1)Mississippi State University, Mississippi State; (2)Mississippi State University, Stoneville

9:15 AM Response of Corn (Zea mays L.) Hybrids to Plant Population Changes Planted in Alabama. N. Welch* and B. V. Ortiz; Auburn University

9:30 AM Temperature Effects on Cotton Seedling Emergence, Growth, and Development. D. Brand¹, K. R. Reddy¹, C. Wijewardana¹, and W. Gao²; (1) Mississippi State University; (2) Colorado State University

9:45 AM Tissue Analyses As a Peanut Seed Quality Tool. A. K. Pierre¹, M. J. Mulvaney¹, D. L. Rowland², T. L. Grey³, B. L. Tillman⁴, and E. van Santen²; (1) University of Florida West Florida Research & Education
10:00 AM Break.

10:15 AM Evaluation of Yield and Economic Loss Due to Twin Row Planter Problems for Soybean Production in the Mid-South. R. M. Smith* and J. M. Orlowski; Mississippi State University, Stoneville

10:30 AM Comparative Study of Soil Surface Greenhouse Gas Fluxes from Energy Cane and Napier Grass Fields in Relation to Soil Temperature, Soil Moisture and Nitrogen Amendments. B. Khanal*1, H. P. Singh1, A. Chiluwal2, E. Obeng2, C. M. Clegg3, R. R. Lowrance4, and B. P. Singh1; (1) Fort Valley State University; (2) Kansas State University; (3) USDA-ARS-Tifton; (4) National Risk Management Research Laboratory, Ada, OK

10:45 AM Bermudagrass-Legume Mixtures As an Option to Reduce N Fertilizer Use in Hay Fields. E. R. D. S. Santos*1, J. C. B. Dubeux Jr.1, C. Mackowiak2, A. Blount1, J. Shirley2, L. Garcia1, D. Jaramillo1, M. Ruiz-Moreno1, J. D. Neto3, and L. M. D. Queiroz4; (1)North Florida Research and Education Center, Quincy, (3) Universidade Federal Rural de Pernambuco, Marianna; (4)Federal Rural University of Pernambuco, Serra Talhada - PE, Brazil

11:00 AM Screening and Selection for Cold and Drought Tolerance in an RIL Population of Grain Sorghum. J. Sanchez*1, G. L. Ritchie1, Y. Y. Emendack2, and J. J. Burke2; (1) Texas Tech University; USDA-ARS, Lubbock

11:15 AM Planting Date, Hybrid Selection, and Irrigation Frequency to Optimize Yield and Profitability in a Mid-South Corn Production System. J. J. Williams*; Mississippi State University

11:30 AM The Influence of Soil Surface Temperature and Relative Humidity on 2, 4-D Volatilization. P. Wang*, T. Knappenberger, and J. N. Shaw; Auburn University

11:45 AM Discussion.

12:00 PM Lunch.
1:25 PM  Introductory Remarks.

1:30 PM  Soil Salinity Under Seepage Irrigation and Irrigation Drainage Tile in Northeast Florida. E. Yarney* and M. W. Clark; University of Florida

1:45 PM  Multi-Species Cover Effects on Nitrogen Availability in Corn in the Mid-Atlantic USA. M. Battaglia* and W. E. Thomason; Virginia Tech

2:00 PM  Comparing Productivity and Efficiency of Grass-Only and Grass-Legume Beef Stocker Grazing Systems in the Southern High Plains. L. Baxter* and C. P. West; Texas Tech University


2:30 PM  Drought and UV-B Radiation Effects on Soybean Early Seedling Growth. C. Wijewardana*, F. A. Alsajri, and K. R. Reddy; Mississippi State University

2:45 PM  Temporal Patterns of Sesame (Sesamum indicum L.) Nutrient Uptake in the Southeastern US. A. D. Jani*, M. J. Mulvaney, D. L. Rowland, A. Couch, J. Erickson, R. G. Leon, and C. W. Wood; (1) University of Florida, Gainesville; (2) University of Florida West Florida Research & Education Center, Jay

3:00 PM  Break.

3:15 PM  The Production of Glucosinolates in Brassica Carinata with Plant Development and Varying Soil Types and Nitrogen Rates. T. Stansly*; University of Florida North Florida Research & Extension Center, Quincy

3:30 PM  Developing a Screening Tool to Identify Drought Tolerance Among 100 Elite Rice Lines. S. Jumaa, A. Lone, S. Thaduri, E. Redoña, and K. R. Reddy; Mississippi State University

3:45 PM  Production of Various Ploidy Hybrids from Wide Crosses Between Hordeum vulgare (2x) and H. Bulbosum (2x, 4x). A. H. Mohammed and B. S. Baldwin; Mississippi State University

4:00 PM  Plant Growth and Nutrient Uptake Effects from Humic Substances in Mined Lignite. M. Nattrass*; Mississippi State University

4:30 PM Seed Characteristics Affect Seedling Vigor of Various Cotton Cultivars Under Different Planting Environments and Cultural Practices. S. Singla*¹, J. Snider², T. L. Grey², W. Porter², P. Roberts², D. Chastain³, Y. Chen⁴, and K. Chapman⁵; (1) University of Georgia, Athens; (2) University of Georgia, Tifton; (3) Mississippi State University, Stoneville; (4) Nanjing Agricultural University; (5) University of North Texas

4:45 PM Discussion/Break.

5:00 PM Agronomy Business Meeting.

TUESDAY, FEBRUARY 7, 2017

PROFESSIONAL ORAL PRESENTATIONS – Soils
Mobile Convention Center
Room 201A

7:55 AM Introductory Remarks.

8:00 AM First Year Results from Evaluation of ZINC Rates and Nitrogen Rates for Cotton and Corn in Rotation. M. W. Ebelhar*; Mississippi State University, Stoneville

8:15 AM Full-Season and Double-Crop Soybean Response to Potassium on Southeast Coastal Plain and Piedmont Soils. R. Parvej*¹, D. L. Holshouser¹, A. B. Williams², W. H. Frame¹, and M. S. Reiter²; (1) Virginia Tech Tidewater Agricultural Research & Extension Center, Suffolk; (2) Washington County Center, Plymouth, NC; (3) Virginia Tech Eastern Shore Agricultural Research and Extension Center, Painter

8:30 AM Biomass Production and Nutrient Removal By Potential Biofuel Grasses Grown on Sprayfields. C. R. Crozier*¹, T. J. Smyth², A. Heitman², Z. Wang², and M. S. Castillo²; (1) North Carolina State University, Plymouth; (2) North Carolina State University, Raleigh

8:45 AM Soil Respiration and Carbon Loss Responses to Cropping Systems Management. N. Rajan* and D. Zapata; Texas A&M University

9:00 AM Effects of Buffer Strips and Grazing Management on Edge of Field Soil Loss from Pastures. P. A. Moore Jr.*¹, C. Pilon², D. H. Pote³, J.

9:30 AM  Break.

Special Session - Gypsum Use in Agricultural Production Systems

9:45 AM  Adoption of the 333 Amending Soil Properties with Gypsum Products Conservation Practice Standard in the State of Alabama. T. Horvath*; USDA-NRCS, Auburn, AL

10:00 AM  Evaluation of FGD-Gypsum As a Soil Amendment in Arkansas. L. Espinoza*, University of Arkansas, Little Rock

10:15 AM  Flue Gas Desulfurization (FGD) Gypsum to Reduce Runoff, Erosion, Sediment and Nutrient Load from Disturbed Areas. M. E. Sumner*; University of Georgia, Watkinsville

10:30 AM  Effectiveness of Using FGD Gypsum to Reduce Dissolved P Losses from a Corn Field in the Southern Piedmont Region. D. B. Watts* and A. Torbert; USDA-ARS, Auburn, AL

10:45 AM  Does Industrial Gypsum with Cover Crop Improve Soil Biological and Physical Quality? K. R. Islam*, G. W. Roth2, and R. C. Reeder3; Ohio State University, Piketon; (2) Pennsylvania State University; (3) Ohio State University, Columbus

11:00 AM  FGD Gypsum in Peanut Production. J. A. Howe*; Auburn University

11:15 AM  Gypsum Adherence to Forage: Consideration for Excessive Ingestion By Ruminates. H. A. Torbert*, R. L. Chaney2, and D. B. Watts1; (1) USDA-ARS, Auburn, AL; (2) USDA-ARS, Beltsville, MD

11:30 AM  Gypsum As a Bedding Source for Broiler Chickens. J. Hess*, D. B. Watts2, H. A. Torbert2, J. Davis1, and J. Sibley1; (1) Auburn University; (2) USDA-ARS, Auburn, AL

11:45 AM  Discussion.
11:55 AM  Lunch.

PROFESSIONAL ORAL PRESENTATIONS – Crops

12:55 PM  Introductory Remarks

1:00 PM  Response of Bahiagrass Cultivars to Nitrogen Fertilization and Cutting Frequency. R. W. Lemus*, J. A. White, and K. K. Crouse; Mississippi State University

1:15 PM  PRE-Tassel Nitrogen Rates Applied Across Multiple Corn Cultivars. M. W. Ebelhar*; Mississippi State University, Stoneville

1:30 PM  Blends and Timing of Polymer Coated and Uncoated Urea: Effects on Corn and Cotton in the Deep South. M. J. Mulvaney*¹ and H. A. Enloe²; (1) University of Florida West Florida Research & Education Center, Jay; (2) University of Florida, Gainesville

1:45 PM  Carinata Seed and Oil Yield Responses to Nitrogen and Sulphur Nutrition Under Rainfed Conditions. R. Seepaul*, D. L. Wright, and S. George; North Florida Research & Education Center, Quincy

2:00 PM  Evaluation of New Irrigation Scheduling Methods for Peanut. W. S. Monfort, W. Porter, J. Snider, C. Perry, and G. Vellidis; University of Georgia - Tifton

2:15 PM  Irrigation Management and Crop Modeling in Safflower. S. Singh*¹, S. V. Angadi², K. K. Grover³, and K. J. Boote⁴; (1) Texas Tech University; (2) New Mexico State University, Clovis; (3) New Mexico State University, Las Cruces; (4) University of Florida

2:30 PM  Break.

2:45 PM  Cotton Phenotyping Using Field and Uav-Based Sensors. N. Rajan*, M. Mikeska, and S. Shafian; Texas A&M University

3:00 PM  Clonal Testing of Elite Eastern Gamagrass [Tripsacum Dactyloides (L.) L.] Germplasm for Forage Quality and in Vitro Dry Matter Digestibility (IVDMD). J. I. Morrison* and B. S. Baldwin; Mississippi State University

3:15 PM  Forages in Corn Rotations: A Meta-Analytical Perspective. B. M. Goff, C. Lee, J. M. McGrath, and J. H. Grove; University of Kentucky
3:30 PM  Seedling Growth Characteristics Relates to the Staygreen Trait and Dhurrin Levels in Sorghum. Y. Y. Emendack*1, J. Sanchez2, R. Chopra1, C. Hayes1, G. B. Burow1, Z. Xin1, and J. J. Burke1; (1) USDA-ARS, Lubbock, TX (2) Texas Tech University

3:45 PM  Early High Moisture Wheat Harvest Improves Wheat and Double-Crop Soybean Yield and Quality. D. L. Holshouser*1, R. Parvej1, G. S. Faé2, G. W. Roth2, C. Whaley3, R. Kratochvil4, and E. J. Dunphy5; (1)Virginia Tech Tidewater AREC, Suffolk; (2) Pennsylvania State University; (3)Carvel Research and Education Center, University of Delaware, Georgetown; (4)University of Maryland; (5)North Carolina State University

4:00 PM  Breeding for Stress Resilience in Corn Under Indian Scenario. K. R. Reddy*1, A. A. Lone1, and Z. A. Dar2; (1) Mississippi State University; (2) Sher-e-Kashmir University of Agriculture Sciences & Technology of Kashmir, India

4:15 PM  Discussion

4:30 PM  Adjourn