Sixty-Third Annual Meeting of the Soil Science Society of North Carolina

“To increase and disseminate knowledge of soils of the state and their uses”

Tuesday Morning, January 21, 2020

7:30 Room 1C&D: Poster and Exhibit Setup
8:00 Meeting Registration Opens in Lobby
8:00 Room 1C&D: Soil Texture Contest Conducted by Nick Howell
8:00 - 9:00 Room 1A Consulting Soil Scientists of the Carolinas Annual Meeting CSSC President, Presiding

OPENING SESSION

8:30 - 9:40 Room 1C&D: Exhibits, Vendors and Posters

DIVISIONAL MEETINGS

9:00 - 9:10 Room 1A: Bus., Consulting and Industry
Room 4: Governmental Agencies
9:15 - 9:25 Room 1A: Public Health
Room 4: Academic and Research
9:30 - 9:40 BREAK - Room 1C&D: Exhibits, Vendors and View Posters
9:40 - 11:00 SOCIETY BUSINESS MEETING
Room 1A
President Chris Murray, Presiding

11:00 - 12:00 KEYNOTE SPEAKER – Room 1A
The Future of Soil Survey
David Hoover, Director
USDA-NRCS National Soil Survey Center

Room 2C: LUNCHEON

Tuesday Afternoon, January 21, 2020

Session 1: AGRONOMIC SCIENCE
Room 4

1:15 Extension Programming to Interpret a Rapidly Increasing Number of Soil Fertility Amendment Products. Carl R. Crozier, Crop and Soil Sciences, NCSU

1:40 Forest Soil Classification for Intensive Pine Plantation Management. Rachel Cook, Department of Forestry and Environmental Resources, NCSU

2:05 Current Status of Soil Fertility and Field Corn Yields of North Carolina High Yielding Growers. Janel Ohletz, Crop and Soil Sciences, NCSU

2:30 Soil Health Metrics in Cecil Soils Under Tillage and Hay Systems. Caitlin Caudle, Crop and Soil Sciences, NCSU

3:00 BREAK AND POSTER REVIEW

3:15 Transitions to Sustainable Management of Phosphorus in Brazilian Agriculture. Luciano Gatiboni, Crop and Soil Sciences, NCSU

3:40 Precision Ag and Sustainability. Andrew Hunt, Agronomy, Growers LLC

4:05 Observations on Blocking Direction and Missing Plots in Field Trials. Daryl Bowman, Crop and Soil Sciences, NCSU

4:35 Is Soil Health Really a Thing? And Other Lessons Learned from Sustainable Soil Management. Ryan Stewart, Crop and Soil Environmental Sciences, Virginia Tech University

5:00 SOCIAL HOUR and POSTER SESSION
With Authors Present – Room 1C&D

Tuesday Afternoon, January 21, 2020

Session 2: CURRENT TRENDS, EMERGING ISSUES, MODERN SOIL SCIENCE
Room 1A


1:40 Examination of Potential Radionuclide Detection in Private Wells Located in Wake County NC. Evan Kane, Wake County Environmental Services

2:05 Organic Soils of the Sacramento-San Joaquin River Delta, California. Barrett Kays, PhD, LANDIS, PLLC

2:30 Soil Science and the Burial of Animal Mass Mortality. Allen Hayes, Division of Soil and Water Conservation, NCDA&CS

3:00 BREAK AND POSTER REVIEW


3:40 Using Soil Data to Refine Geologic Maps: an Example in the Lower Piedmont-Upper Coastal Plain of NC. Steve Stadelman, Novozymes North America, Inc.

4:05 An Evaluation of Lineaments, Faults, and Dikes Using LiDAR Hillshade and Detailed Geologic Mapping Data in Chatham County, NC. Phil Bradley, North Carolina Geological Survey, NC DEQ

4:30 Digital Soil Survey and its Applications. Tiffany Allen, Soil Survey, USDA

5:00 SOCIAL HOUR and POSTER SESSION
With Authors Present – Room 1C&D
Wednesday Morning, January 22, 2020

7:30 BREAKFAST ITEMS AND REFRESHMENTS
Room 1C&D

Session 3: SOILS EDUCATION
Room 4

9:00 North Carolina’s Hosting of the National Envirothon. David Lindbo, Soil and Plant Science Division, USDA

9:30 Update to the Pedology Teaching Program at NCSU. Matt Ricker, Crop and Soil Sciences, NCSU

10:00 BREAK AND POSTER REVIEW

10:15 Standards for the Professional Practice of Soil Science. Larry Baldwin, Consulting Soil Scientists of N.C.

10:45 Legislative Update. Steve Bristow, LSS

11:15 Legislative Update. Steve Bristow, LSS

Wednesday Afternoon, January 22, 2020

Session 5: CLOSING PROGRAM
Room 1A, William Miller, Moderator

11:15 Nutrient and Bacteria Treatment by High-Flow Onsite Wastewater Systems in Eastern North Carolina. Charles Humphrey, College of Health and Human Performance, ECU

12:00 ANNUAL AWARDS BANQUET
Room 2C

President Chris Murray, Presiding
❖ Hands of the Master Award
Nick Howell
❖ Hubert J. Byrd Scholarship
❖ Annual Achievement Award
❖ Special Recognitions

Wednesday Afternoon, January 22, 2020

Session 4: SOILS AND HYDROLOGY
Room 1A

9:00 Predicting where channel heads should be in first-order Piedmont drainage basins. Karl Wegmann, Marine, Earth, and Atmospheric Sciences, NCSU

9:30 Effect of Rock Structure on Water Movement in Saprolite. Michael Vespraskas, Crop and Soil Sciences, NCSU

10:00 BREAK AND POSTER REVIEW

10:15 Geomorphology, Soils and Parent Materials in the Fall Zone. Daniel Biley, LSS

10:45 New technology and partnerships to update coastal soils data from the Everglades to Albemarle and Pamlico Sounds. Greg Taylor, Soil Survey, USDA

11:15 Designing Soil Profiles for Dwight D. Eisenhower Memorial in Washington, DC. Barrett Kays, PhD, LANDIS, PLLC

1:15 A Historical Perspective on Development of the NCDA Soil Test Laboratory. David H. Hardy, Soil Testing, Agronomic Division, NCDA&CS

2:15 BREAK AND POSTER REVIEW

2:30 New Ideas Regarding Mechanical Weathering. Missy Eppes, Geography and Earth Sciences, UNC Charlotte

3:00 Hemp Production and Fertility. Kristin Hicks, Plant Tissue, Waste & Compost, Solutions and Soilless Media Testing, Agronomic Division, NCDA&CS

3:30 DISCUSSION

4:00 ADJOURN

Thank you for attending!
Visit our Website!
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