

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

- 12:00 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

- 1:15 *Soil Properties and Microbial Processes in
Stormwater Bioretention Facilities.* Erin Rivers,
Crop and Soil Sciences, NCSU
- 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**
- 3:15 *Subsurface Drip Dispersal: Elements of Field
Design.* Tom Ashton, LSS, American
Manufacturing Company, Inc.
- 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 Morning, 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 Bliley, 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 *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

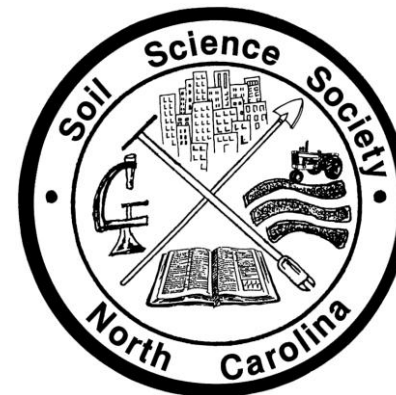
- President Chris Murray, Presiding
- ❖ Hands of the Master Award
Nick Howell
 - ❖ Hubert J. Byrd Scholarship
 - ❖ Annual Achievement Award
 - ❖ Special Recognitions

Wednesday Afternoon, January 22, 2020

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

- 1:15 *Designing Soil Profiles for Dwight D. Eisenhower Memorial in Washington, DC.* Barrett Kays, PhD, LANDIS, PLLC
- 1:45 *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

Soil Science Society OF NORTH CAROLINA



Sixty-Third Annual Meeting

January 21-22, 2020

Jane S. McKimmon Center
Raleigh, NC



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Thank you for attending!
Visit our Website!

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