

Sixty-Second 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 22, 2019

- 7:30 Room TBD: Poster and Exhibit Setup
- 8:00 Meeting Registration Opens in Lobby
- 8:00 Room TBD: Soil Texture Contest Conducted by Nick Howell
- 8:00 - 9:00 Room TBD
Consulting Soil Scientists of the Carolinas Annual Meeting
CSSC President, Presiding
- OPENING SESSION**
- 8:30 - 9:40 Room TBD: Exhibits, Vendors and Posters
- DIVISIONAL MEETINGS**
- 9:00 - 9:10 Room TBD: Bus., Consulting and Industry
Room TBD: Governmental Agencies
- 9:15 - 9:25 Room TBD: Public Health
Room TBD: Academic and Research
- 9:30 - 9:40 **BREAK** - Room TBD: Exhibits, Vendors and View Posters
- 9:40 - 11:00 **SOCIETY BUSINESS MEETING**
Room TBD
President Robin Maycock, Presiding
- 11:00 - 12:00 **KEYNOTE SPEAKER – Room TBD**
The Future of Soil Survey
David Hoover, Director
USDA-NRCS National Soil Survey Center
- 12:00 Room TBD: **LUNCHEON**

Tuesday Afternoon, January 22, 2019

Session 1: AGRONOMIC SCIENCE Room TBD

- 1:15 *Unmanned Aerial and Surface Systems for Agricultural Applications.* Sierra Young, Department of Biological and Agricultural Engineering, NCSU
- 1:40 *Farmer Nitrogen Trials in the Coastal Plain of North Carolina.* Deanna Osmond, Crop and Soil Sciences, NCSU
- 2:05 *A Review of Soil Testing Philosophies*
David H. Hardy, Soil Testing, Agronomic Division, NCDA&CS
- 2:30 *Studying the Response of Corn, Soybean and Cotton to Potassium Fertilization in S.C.*
Bhupinder S. Farmaha, Department of Plant & Environmental Sciences, Clemson University
- 3:00 **BREAK AND POSTER REVIEW**
- 3:15 *Effects of Poultry Litter Injection on Ammonia Volatilization, Nitrogen Availability, and Nutrient Losses in Runoff.* Stephanie Kulesza, Crop and Soil Sciences, NCSU
- 3:40 *Streaming Urea Ammonium Nitrate with or without Enhanced Efficiency Products Impacted Corn Yields, Ammonia, and Nitrous Oxide Emissions.* Alex Woodley, Crop and Soil Sciences, NCSU
- 4:05 *Starter Fertilizer N and P Composition and Placement Effects on Corn.* Carl R. Crozier, Crop and Soil Sciences, NCSU
- 4:35 *Update on the Status of Rules Governing Land Application of CGR and Current Best Practices*
Robin Maycock, LSS, Louis Berger, Inc.
- 5:00 **SOCIAL HOUR and POSTER SESSION**
With Authors Present – Room TBD

Tuesday Afternoon, January 22, 2019

Session 2: ONSITE WASTEWATER RULES AND SOIL EVALUATION Room TBD

- 1:15 *Single Family Surface Based Wastewater Treatment Systems.* Karl Schaffer, Agri-Waste Technologies
- 1:40 *Standards for the professional practice of soil science are not well recognized or defined. What should be the minimum standards?* Larry Baldwin, Consulting Soil Scientists of N.C.
- 2:05 *Errors and Omissions Insurance.* Reed Whitsett, JJ Wade and Associates Insurance
- 2:30 *Update on 2T and 2U Rules and the Soil Scientist Evaluation Policy.* Gary Kriser and Patrick Mitchell, NC DEQ, Division of Water Resources
- 3:00 **BREAK AND POSTER REVIEW**
- 3:15 *Control Demonstration Process: Quick4 Plus Standard LP (Low Profile) Chamber.*
Sarah Menser, LSS, Soil Services, PLLC
- 3:40 *Update on House Bill 374 and the Private Option Permit.* Doug Lassiter, N.C. Septic Tank Association
- 4:05 *Update on 15A NCAC 18E*
Trish Angoli, NC Department of Health and Human Services
- 4:30 *Panel Discussion with Session Two Presenters*
- 5:00 **SOCIAL HOUR and POSTER SESSION**
With Authors Present – Room TBD

Wednesday Morning, January 23, 2019

**7:30 CONTINENTAL BREAKFAST
Room TBD**

**Session 3: SOILS EDUCATION
Room TBD**

9:00 *Soils Outreach and Training Provided by the N.C. Association of Soil and Water Conservation Districts.* Rich Hayes, NC LSS, Retired, NCDENR

9:30 *Update on Soils Training through NCSU Crop and Soil Science Extension.* Erik Severson, Crop and Soil Sciences, NCSU

10:00 BREAK AND POSTER REVIEW

10:15 *NC FFA Land Judging.* Jason Davis, NCSU, State FFA Coordinator

10:45 *Sense-sational Soils: Sparking the Next Generation of Soil Scientists.* Liz Driscoll, NCSU 4H Youth Specialist

11:15 *Status of NCSU Crop and Soil Science Majors.* David Crouse, Crop and Soil Sciences, NCSU

Wednesday Morning, January 23, 2019

**Session 4: SOILS AND HYDROLOGY
Room TBD**

9:00 *Hydrogeology tied to a Landis project.* Eric Lappala, Eagle Resources, PA

9:30 *Designing Landscape Soils on Contaminated Site for North Waterfront Park in Wilmington, NC.* Barrett Kays, PhD, LANDIS, PLLC

10:00 BREAK AND POSTER REVIEW

10:15 *How Can You Affect Significant Change in NRCS Soils Data, Information, and Delivery* David Hoover, Director
USDA-NRCS National Soil Survey Center

10:45 *Soil Mapping in Today's Environment.*
Jim Beeson, Piedmont Environmental Associates, P.A.

11:15 *Saturated Hydraulic Conductivity vs. Infiltration Rate: What Are They?* Aziz Amoozegar and Josh Heitman, Crop and Soil Sciences, NCSU

**12:00 ANNUAL AWARDS BANQUET
Room TBD**

President Robin Maycock, Presiding

- ❖ Hands of the Master Award
Nick Howell
- ❖ Hubert J. Byrd Scholarship
- ❖ Annual Achievement Award
- ❖ Special Recognitions

Wednesday Afternoon, January 23, 2019

**Session 5: CLOSING PROGRAM
Room TBD**

1:15 *Morphology, Genesis, and Classification of Ancient Anthropogenic Soils at El Perú-Waka', Guatemala.* Matt Ricker, Crop and Soil Sciences, NCSU

1:45 *A View from the Bottom: Complexity and Reactivity of Soil Particles at the Nanoscale* Dean Hesterberg, James LeBeau, and Abinash Kumar, Depts. of Crop and Soil Sciences and Materials Science and Engineering NCSU.

2:15 BREAK AND POSTER REVIEW

2:30 *Comparison of Field Methods Used to Determine Long Term Acceptance Rates for Septic System Design in North Carolina* John Kase, REHS, LSS Wake County Environmental Health

3:00 *The Soil-Stormwater Quality Connection* Beth McLaughlin, McLaughlin Consulting

3:30 DISCUSSION

4:00 ADJOURN

Soil Science Society OF NORTH CAROLINA



Sixty-Second Annual Meeting

January 22-23, 2019

Jane S. McKimmon Center
Raleigh, NC



President	Robin Maycock
Past President	Steve Broome
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Thank you for attending!
Visit our Website!

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