# Sixty-First 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 16, 2018			
7:30	Room 1CD: Poster and Exhibit Setup		
8:00	Meeting Registration Opens in Lobby		
8:00	Room 1CD: Soil Texture Contest Conducted by Nick Howell		
8:00 - 9:00	Room 4 Consulting Soil Scientists of the Carolinas Annual Meeting CSSC President, Presiding		
OPENING SESSION			
8:30 - 9:40	Room 1CD: 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	<b>BREAK</b> - Room 1CD: Exhibits, Vendors and View Posters		
9:40 - 11:00	SOCIETY BUSINESS MEETING Room 1A President Steve Broome, Presiding		
11:00 - 12:0	0 KEYNOTE SPEAKER – Room 1A  Landslides  Dr. Ken Taylor, LG  State Geologist, NC Geological Survey		
12:00	Room 2C: LUNCHEON		

#### Tuesday Afternoon, January 16, 2018

### Session 1: AGRONOMIC SCIENCE Room 1A

1:15	Soil Testing in North Carolina: Building on a
	Great Heritage in Continuing Excellent Service
	for Agriculture's Future. David H. Hardy,
	Director of Soil Testing, NCDA Agronomic
	Services

- 1:40 Models or Phosphorus Indices: A Southern Saga. Deanna Osmond, Crop and Soil Sciences, NCSU
- 2:05 Enriching Soil, Enhancing Life: Taking Action for Soil Health. Steven R. Shafer, Chief Scientific Officer. The Soil Health Institute
- 2:30 Phosphate Solubilization from Ferrihydrite, Fe and Ca Phosphates in the Presence of AVAIL® Polymers. Sarah Doydora, Margaret Thompson, and Dean Hesterberg Crop and Soil Sciences, NCSU

#### 3:00 BREAK AND POSTER REVIEW

- 3:15 Role of Soil Quality in Achieving Global Food Security. Robert Patterson, Crop and Soil Sciences, NCSU
- 3:40 Achieving soil health in cotton production systems. Alan Franzluebbers, Crop and Soil Sciences, NCSU
- 4:05 Growing Grass for Biofuel on Marginal Land:
  Comparative Assessment of Greenhouse Gas
  Emissions of Annuals vs. Perennials. B.S.
  Farmahal\*, J.J. Volenec<sup>2\*</sup>, S.M. Brouder<sup>2</sup>. <sup>1</sup>Dept
  of Plant & Environmental Sciences, Clemson
  University. <sup>2</sup>Dept of Agronomy, Purdue
  University.
- 4:35 Nutrient Management and North Carolina
  Biofuel Cropping Systems, Carl R. Crozier and
  T. Jot Smyth. Crop and Soil Sciences, NCSU

#### Tuesday Afternoon, January 16, 2018

# Session 2: ONSITE WASTEWATER RULES AND SOIL EVALUATION Room 4

- 1:15 General Geology and Rock Types North Carolina Piedmont. Phil Bradley, PG, NC Geological Survey
- 1:40 System to Site Morphology Considerations.

  Patrick Eaton, REHS, Durham County Health
  Department
- 2:05 A Water Person's Perspective on Geology and Soil Education. Diana Rashash, PhD EI, NC Cooperative Extension

#### 2:30 BREAK AND POSTER REVIEW

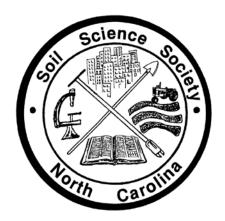
- 3:00 Soils, Geology and Geomorphology of the NC Mountains. Stan Crownover, LSS, REHS, Buncombe County Environmental Health
- 3:25 Construction Site Stormwater Management.
  Richard A. McLaughlin, Crop and Soil Sciences,
  NCSU
- 3:50 Special Site Evaluations, Mass Loading, and the New .1948(d) Changes in the Proposed 18E Rules that could impact LSS and LG Tricia Angoli, PE, NC Department of Health and Human Services
- 4:30 NCDA&CS Division of Soil and Water
  Conservation Program Update. Vernon Cox,
  Director, Division of Soil & Water Conservation,
  NCDA

# 5:00 SOCIAL HOUR and POSTER SESSION With Authors Present – Room 1CD

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Wednesday Morning, January 17, 2018		11:15	11:15 Land Application of Concrete Residuals. Sheri Knox, PG, AMEC, Rob Willcox, LSS, Willcox & Mabe	
7:30	:30 CONTINENTAL BREAKFAST Room 1CD			
Session	n 3: GEOLOGY AND SOILS Room 1A	12:00	ANNUAL AWARDS BANQUET Room 2C	
9:00 Mountain Colluvial Soil & Landslide Case. Barrett Kays, Landis			President Steve Broome, Presiding  ❖ Hands of the Master Award	
9:30	Utilization of Soil Surveys in Geological Investigation of Late Cenozoic Estuarine-Marine Sediments in the Upper Tar River Watershed. Steve Stadelman, NC LSS		Nick Howell  Hubert J. Byrd Scholarship  Annual Achievement Award  Special Recognitions	
10:00	BREAK AND POSTER REVIEW	AND POSTER REVIEW Wednesday Afternoon, January 17, 2018		
10:15	0:15 Nutrient and Bacteria Attenuation in Soil and Groundwater Beneath Three Large Onsite Wastewater Systems. Charlie Humphrey and Guy		5: CLOSING PROGRAM Room 1A	
	Iverson, East Carolina University	1:15	Soils and Hemp. Matt Collogan, Hemp Farmacy	
10:45	Soils & Geology in North Carolina Joe Kleiss, Retired Professor, Soil Science Department, NC State University	1:40	Clay Mining in North Carolina. Steve Blankenbeker, Clay Products, Inc.	
11:15	·		Clay Mining & The Pottery Industry. Ben Owen III, Ben Owen Pottery, Inc.	
			BREAK AND POSTER REVIEW	
Wedne	esday Morning, January 17, 2018	2:45	Update on NRCS Soil Science Division Plans and Activities. Greg Taylor and Debbie	
Session	n 4: GROUNDWATER AND SOILS Room 4		Anderson, USDA, NRCS	
9:00	Groundwater Aquifer Testing. Ed Andrews, NC LSS, Ed Andrews & Associates	3:15	The Past Thirty Years: Perc Test to Permeameter. Alan Clapp, Retired - Orange County Health Department, and Scott Greene, NCDHHS	
9:30	Groundwater Modeling. Ed Andrews, NC LSS, Ed Andrews & Associates	3:45	DISCUSSION	
10:00	BREAK AND POSTER REVIEW	4:00	ADJOURN	
10:15	Designing Soils for Longwood Gardens. Barrett Kays, Landis		Thank you for attending!	
10:45	Designing Soils for NMCA. Barret Kays, Landis		Visit our Website! <u>SSSNC.ORG</u>	

# **Soil Science Society** OF NORTH CAROLINA



Sixty-First Annual Meeting

January 16-17, 2018

Jane S. McKimmon Center Raleigh, NC



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