



SOIL
AND WATER
CONSERVATION
SOCIETY

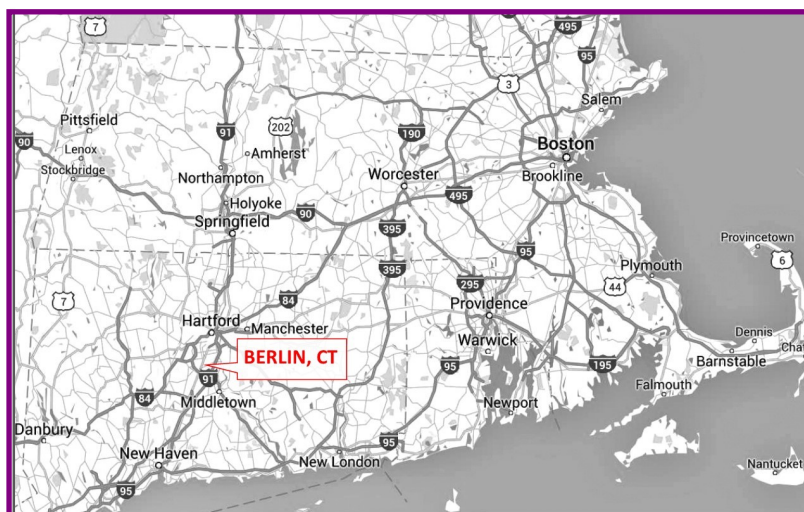
Healthy Land
Clean Water
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Southern
New England
Chapter

2017 WINTER CONFERENCE

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FEBRUARY 24, 2017 | 8 A.M. - 4:30 P.M.

EVERSOURCE ENERGY, BERLIN CT

- 2 NRCS soil workshops
- resiliency planning | urban issues | what's up & coming
- case studies and group exercises

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SWCS Southern New England Chapter | info@swcssnec.org | (774) 207-7526

serving Connecticut, Massachusetts and Rhode Island since 1941



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WORKSHOPS AND PRESENTATIONS

SWCS Southern New England Chapter is pleased to offer six (6) hours of professional development content. Certificates of Attendance will include the agenda to facilitate use for maintaining professional certifications. *Note: CT DEEP has assigned 2.0 CEUs for CT Forest Practitioners.*

"I have a passion for conservation, primarily through soil health and ecosystem restoration. I am an avid believer that humans, while widely considered the problem to environmental issues, can also be the solution to them, and that we can, through the facilitation of understanding, improve the planet we live on. It is with this torch I carry myself in my life and my career as a conservationist. Become the change you want to see in the world, and see it done." Ray Corvino, USDA NRCS

Keynote Address: Adapt CT - Outreach Efforts for Resilience and Adaptation | CT Sea Grant, the Center for Land Use Education and Research (CLEAR) and UConn Extension have partnered to develop Adapt CT— a unique collaboration to bring information, interaction and dialogue to the most pressing resilience and adaptation issues faced in CT. This presentation will focus on the numerous and challenging problems raised by stakeholders across CT and how we are working to move forward on many of these resilience issues.

--- **Juliana BARRETT** | Extension Educator, UConn Sea Grant Program

Soil Workshop #1: Getting to Know Soils in an Urban/Suburban Environment | Exploration of the unique hazards faced by urban soils and of the many benefits they offer. Ideas for improvement and protection to sustain a healthy urban environment for the future. Overview of urban soil types, mapping and practical measures to take when working with them. | Includes interactive component.

--- **Lisa KRALL** | Resource Soil Scientist, USDA Natural Resources Conservation Service

Sustainability and Urban Forestry | What makes for a sustaining urban forest? That answer is as complicated as answering what makes an urban forest – as one considers what it takes for a tree to thrive in today's dynamic urban environments.

--- **Chris DONNELLY** | Urban Forestry Coordinator, CT DEEP Division of Forestry

Sustainable Stormwater BMPs from the Municipal Perspective | Rarely is the sustainability and cost of maintenance by the cities, towns and private parties who will eventually own and maintain them a consideration prior to installation of stormwater management BMPs. Case studies of local projects provide a real-life view of storm water management challenges and practical measures implemented to resolve them. | Includes interactive component.

--- **Charles EATON** | Director of Municipal Services, CME Associates

Soil Workshop #2: Urban Soil Health and Permaculture/Agriculture in Urban Areas | A look at managing the urban landscape to improve soil function and nutrient cycling, and to increase carbon sequestration, infiltration and water holding capacity. Permaculture, the development of agricultural ecosystems intended to be sustainable and self-sufficient, will be highlighted. | Include interactive component.

--- **Raymond CORVINO** | District Conservationist and Soil Health Specialist, USDA NRCS

Municipal Resiliency: Local Problems, Local Actions | Seeing the impacts of climate change first hand, municipal and regional leaders are adapting to the changes at the local level. This session will cover the relationship between adaptation and land-use planning, and a recent resiliency project: a Low-Impact Development Design Manual for the town of Morris (funded by CIRCA and overseen by NHCOG). Attendees will learn about starting the adaptation planning process, where to find tools and informative case studies.

--- **Joanna WOZNIAC-BROWN** | Planning Assistant, Northwest Hills Council of Governments (NHCOG)

Bringing Wetlands to Market: Examining the Role of Nitrogen in Blue Carbon | Coastal wetlands have carbon sequestration rates three to five times greater than tropical rain forests; but excess nitrogen inputs and other stressors have the potential to alter carbon cycling and storage within wetlands. Bringing Wetlands to Market is a collaborative project that provided data and a model for predicting carbon uptake rates (and greenhouse gas fluxes) from coastal wetlands.

--- **Katelyn SZURA** | Graduate Student, URI Moseman-Valtierra Laboratory

Practical Applications for Drones in Data Collection | Discussion of Unmanned Aircraft Systems (i.e. drone technology), the regulatory environment and examples of commercial grade products delivered for clients. Overview includes inspection and mapping for civil/environmental projects, documentation, stakeholder engagement and general considerations for planning and executing successful missions. Example products & deliverables include Point Cloud/3D renderings, ortho-mosaics and elevation models.

--- **Jon BUDRESKI** | Co-Founder and Director of Business Development, AirShark



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AGENDA

Please allow 10 minutes to walk from the parking garage and to clear security at the entrance of the Community Building.

8:00 a.m. Registration | Exhibits & Networking | Breakfast

9:00 a.m. Welcome and Opening Remarks

9:10 a.m. **Keynote Address: Adapt CT - Outreach Efforts for Resilience and Adaptation**

Juliana BARRETT | UConn Sea Grant Program

9:30 a.m. **Soil Workshop #1: Getting to Know Soils in an Urban/Suburban Environment**

"Urban soils are under unique stresses, but they give a lot too!" Lisa KRALL | USDA NRCS

10:30 a.m. **Sustainability and Urban Forestry**

Chris DONNELLY | CT DEEP

11:00 a.m. Break

11:15 a.m. **Sustainable Stormwater BMPs from the Municipal Perspective**

Chuck EATON | CME Associates

12:15 p.m. Lunch | Exhibits & Networking

1:00 p.m. **Soil Workshop #2: Urban Soil Health and Permaculture/Agriculture in Urban Areas**

Raymond CORVINO | USDA NRCS

2:30 p.m. Break

2:40 p.m. **Municipal Resiliency: Local Problems, Local Actions**

Joanna WOZNIAK-BROWN | Northwest Hills Council of Governments

3:10 p.m. **Bringing Wetlands to Market: Examining the Role of Nitrogen in Blue Carbon**

Katelyn SZURA | URI Moseman-Valtierra Laboratory

3:40 p.m. Break

3:45 p.m. **Practical Applications for Drones in Data Collection**

Jon BUDRESKI | AirShark

4:25 p.m. Closing Remarks

Certificates of Attendance will be available at the door at the end of the program.

4:45 p.m. **Southern New England Chapter Meeting - Open to All**

Register online at <https://snec2017.eventbrite.com>

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SPEAKER INFORMATION

JULIANA BARRETT | PhD
Associate Extension Educator
juliana.barrett@uconn.edu
(860) 405-9106

University of Connecticut Sea Grant College Program
Center for Land Use Education & Research (CLEAR)
1080 Shennecossett Rd. | Groton, CT 06340-6048
<http://clear.uconn.edu/>

Juliana Barrett is with the University of Connecticut [Sea Grant College Program](#) and the Department of Extension. Her work focuses on adaptation, resilience and coastal habitat management and restoration working with Connecticut's municipalities, NGO's and state and federal partners. Prior to coming to Sea Grant in 2006 she worked as a consultant and for The Nature Conservancy as the Director of the Connecticut River Tidelands Last Great Places Program. She has a doctorate in plant ecology from the University of Connecticut and is a co-author of the Vegetation of Connecticut.

JON BUDRESKI
Director of Business Development
jon@airshark.io
O (603) 427-9946 | C (802) 233-9330

AirShark
20 Ladd Street Ste 202
Portsmouth, NH 03801
<http://airshark.io/en/>

As a Co-Founder of AirShark, Jon leads business development efforts. An FAA licensed pilot, Jon has been part of the success of two solar startups during the last decade. Before that, Jon was entrenched in both water quality technical instrumentation sales and water research with the federal government. A graduate of Colorado State University and Enterprise Airline Academy, Jon's technical sales skills, aviation background and energy experience have come full circle in helping AirShark become a reality.

RAYMOND CORVINO
District Conservationist for Windham County
and CT Soil Health Specialist
raymond.covino@ct.usda.gov
(860) 779-0557 x 102

U.S Department of Agriculture
Natural Resources Conservation Service, Danielson Field Office
71 Westcott Road
Danielson, CT 06239
www.nrcs.usda.gov

The NRCS is the federal government's premier conservation organization on private lands. As District Conservationist, Raymond manages county-level allocation, obligation and implementation of over 160 contracts valued at over \$9 million; and supervises the workload, training plans and day-to-day activities of field staff. He has developed partnerships with non-profits, municipalities and state agencies to leverage funds and improve outreach; and implemented Farm Bill conservation activities in a cooperative effort with internal and external partners. Raymond spearheaded the soil health movement in CT, a process that looks at managing the landscape to reduce inputs while improving soil function, increasing carbon sequestration, infiltration, improving nutrient cycling, and water holding capacity. In 2014, he received a Permaculture Design Certificate through [Permaculture FEAST](#), where he studied regenerative design lifestyle in a holistic way, incorporating social, economic, logistical, and ecological learning. Raymond graduated Magna Cum Laude with a Bachelor's degree in Natural Resources Management from the University of Connecticut and has worked for NRCS since 2002.

CHRIS DONNELLY
Urban Forestry Coordinator
chris.donnelly@ct.gov
(860) 424-3178

CT Department of Energy and Environmental Protection
Division of Forestry
79 Elm Street | Hartford, CT 06106
www.ct.gov/deep/urbanforestry

Chris Donnelly has the good fortune to work with a broad cross-section of people involved with trees and urban forestry in the state of Connecticut. The urban forestry program at DEEP runs a small grant program, with the funding courtesy of the US Forest Service. DEEP Forestry also recommends communities as Tree City USA's and has an advisory role on a range of urban forestry related issues.



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SPEAKER INFORMATION *continued*

CHARLES EATON | P.E., LEED-AP, NICET, NETTCP

Director of Municipal Services

ceaton@cmeengineering.com

O (860) 290-4100 x 1137 | C (860) 214-2294

CME Associates, Inc.

333 East River Drive

East Hartford, CT 06108

www.cmeengineering.com

CME is a multi-disciplined engineering firm with offices in Storrs and East Hartford, CT. He has extensive experience with the design and improvement of stormwater drainage and treatment systems. Mr. Eaton has served as the Consulting Engineer and Town Engineer for multiple municipalities in CT, MA and RI. He is an advocate in the use of innovative and green stormwater solutions and has worked with numerous area municipalities and commercial clients to incorporate these new techniques into their designs and regulations. Mr. Eaton served on the committee to update and expand the 2013 Rhode Island Soil Erosion & Sediment Control Handbook and is a USDA/NRCS Technical Service Provider in CT, MA and RI.

LISA KRALL

Resource Soil Scientist

lisa.krall@ct.usda.gov

(860) 871-4051

U.S Department of Agriculture

Natural Resources Conservation Service, CT State Office

344 Merrow Road, Suite A | Tolland, CT 06084

www.nrcs.usda.gov

Since graduating from the University of Maine, Orono, with a degree in Plant and Soil Sciences, Lisa has mapped soils in Maine and Florida, provided technical soils services in southern Maine, served as an agronomist and soil scientist on a New England Staff. She now provides technical soil services for NRCS Connecticut and is actively involved in educational programs such as the CT Envirothon and UCONN's Natural Resources Conservation Academy.

KATELYN SZURA

Graduate Student

kszura@my.uri.edu

(401) 874-7474

University of Rhode Island

Moseman-Valtierra Laboratory

CBLS 489 | Kingston, RI 02881

<http://mosemanvaltierralab.weebly.com/>

As a salt marsh technician Katelyn traveled to marshes all along the coast of RI conducting bird and vegetation surveys. While working at EPA, she became interested in studying how anthropogenic stressors affect salt marshes and understanding ways in which research can inform management and policy decisions in order to protect and restore these valuable systems. Her master's work focuses on exploring how anthropogenic nitrogen loading affects greenhouse gas emissions from marshes along a nitrogen gradient. This work will contribute to a larger collaborative effort to provide data and a feasibility analysis needed to introduce wetland restoration to carbon markets. In addition, she is also interested in examining marsh migration in response to sea level rise. During her free time Katelyn enjoys traveling abroad to new places as well as kayaking, biking, and running.

JOANNA WOZNIAK-BROWN

Planning Assistant

jbrown@northwesthillscog.org

(860) 491-9884

Northwest Hills Council of Governments

59 Torrington Rd, Suite A-1

Goshen, CT 06756

www.northwesthillscog.org

Joanna supports planning staff in the development, updating and implementation of regional/local Plans of Conservation & Development. She assists with transportation planning efforts, carries out specific research tasks and prepares technical reports for NHCOC planning staff. Joanna created and maintains the GIS databases, prepares GIS maps, maintains the NHCOC website and conduct social media outreach as needed during regional plan development or other planning activities. Joanna is a Doctoral Candidate at Antioch University with an MS in Environmental Planning & Management from Johns Hopkins University. She is a former Chair of the Sherman Conservation Commission and served as President of Friends of Happy Acres (a group of community members that seek to protect the rural character, environmental sustainability, and legacy of Happy Acres Farm in Sherman, CT).



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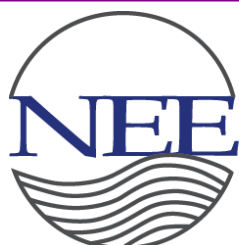
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Eversource (NYSE: ES) transmits and delivers electricity and natural gas for approximately 3.7 million electric and natural gas customers in Connecticut, Massachusetts and New Hampshire. Eversource harnesses the commitment of its approximately 8,000 employees across three states to build a single, united company around the mission of delivering reliable energy and superior customer service. For more information, please visit our website (www.eversource.com) and follow us on Twitter (@EversourceCorp) and Facebook ([facebook.com/EversourceEnergy](https://www.facebook.com/EversourceEnergy)).



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New England Environmental/SWCA provides design-build services for natural and cultural resources management, environmental compliance, environmental planning and climate change and sustainability to the public and private sector.

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