



EBC Ocean & Coastal Resources Webinar Drones - More than Photo Documentation

Assisting Engineers, Land Managers and Scientists

Wednesday, May 13, 2020

AGENDA

- 10:00 a.m. Welcome and Introduction**
- Payson Whitney, P.E., Chair, EBC Ocean & Coastal Resources Committee
Vice President, ESS Group, Inc.
- 10:15 a.m. Aerial Imagery Support for the Stewart B. McKinney National Wildlife Refuge (NWR) "Great Marsh"**
- Jon Budreski, Program Chair & Moderator
Director, Business Development, ARE-AirShark
- 11:00 a.m. Project StoryMap for Village Cree Thin Layer Deposition Study**
- Josh Wilson, PWS, Ecological Restoration Lead, Fuss & O'Neill, Inc.
- 11:15 a.m. UAS Integration in the National Estuarine Research Reserve System**
- Sue Bickford, GIS Specialist / Stewardship Coordinator
Wells National Estuarine Research Reserve
- 11:30 a.m. Flying Too Low – A Cautionary Tale and Lessons Learned**
- Scott DeHainaut, Spatial Data Management Director, ESS Group, Inc.
- 11:45 a.m. Final Questions**
- Moderator:** Payson Whitney, ESS Group, Inc.
- 12:00 p.m. Adjourn**

PROGRAM CHAIR

Jon Budreski, Director Business Development
ARE Corporation
(603) 427-9946 | (802) 233-9330 | jbudreski@are-corp.com

Jon Budreski is a UAS (Unmanned Aerial Systems) subject matter expert as well as a licensed pilot. Mr. Budreski Co-Founded AirShark, which was acquired by ARE Corporation. After spending 10 years in the energy and water sectors, Jon recognized emerging opportunities with robotics, software and sensors that could assist energy suppliers, transportation groups and environmental engineers. ARE's UAS teams focus on industrial inspection and associated mapping across the United States.

MODERATOR

Payson R. Whitney, III, P.E., Vice President, Water & Coastal Engineering
ESS Group, Inc.
100 Fifth Avenue, 5th Floor, Waltham, MA 02451
O (781) 419-7750 | M (781) 710-2744 | pwhitney@essgroup.com

Payson is a registered Professional Engineer (MA, RI, NH, VA) with more than 20 years of experience as a Civil/Coastal Engineer in a wide range of public and private sector projects, including project design and management activities in civil/site engineering and coastal permitting/shoreline assessment. His engineering design and management experience includes dredging design; marina planning and design; wetlands restoration design, roadway design; site layout and design; stormwater management permitting, design, and compliance; preparing and reviewing construction bid documents and shop drawings; construction phase services, and environmental monitoring. He specializes in the planning, permitting, and construction of submarine electric cables and other offshore energy facilities.

SPEAKERS

Sue Bickford, GIS Specialist / Stewardship Coordinator
Wells National Estuarine Research Reserve
342 Laudholm Farm Road, Wells, ME 04090
(207) 646-1555 x120 | suebickford@wellsnerr.org

Sue Bickford is the Stewardship Coordinator for the Wells Reserve in Wells Maine. Through her work with the National Estuarine Research Reserve System, she became interested in drone use for natural resource management. In 2012 she also founded New England UAV, a drone technology education company that focuses on drones in STEM education, veteran workforce training and advancing women in the drone industry.

Scott DeHainaut, Spatial Data Management Director
ESS Group, Inc.
100 Fifth Avenue, 5th Floor, Waltham, MA 02451
O (781) 419-7756 | M (774) 313-6274 | sdehainaut@essgroup.com

Scott has more than 30 years' experience in geospatial and relational database system development. His broad GIS background includes both commercial and open-source software, and he's worked especially with the local government and environmental sectors on leveraging GIS, databases, and automation to solve problems and support decision making. In addition to his work with GIS and databases he also leads the use of data collection systems, data visualization and simulations, and UAS technology at ESS Group, Inc.

Joshua Wilson, PWS, Ecological Restoration Lead
Fuss & O'Neill, Inc.
146 Hartford Road, Manchester, CT 06040
(860) 646-2469 | jwilson@fando.com

Mr. Wilson is an experienced field scientist in the disciplines of soil science, botany, wildlife biology, and wetland ecology with over 20 years of experience. He serves as Fuss & O'Neill's senior wetland ecologist and certified soil scientist. He is responsible for assisting clients identify opportunities to address climate change through nature-based solutions. He is also responsible for performing and overseeing staff and projects as it relates to natural resource restoration and enhancement, wetland and watercourse delineations, vegetation surveys, and ecological surveys – all in accordance with applicable State and Federal regulations and guidelines. He prepares and manages local, state and federal permitting for various projects throughout New England for a wide range of projects including linear utility, site development and ecological restoration. Mr. Wilson is also responsible for coordinating and conducting ecological risk assessments at Fuss & O'Neill. He has completed numerous ecological risk assessments in support of various projects such as site investigations and remediation, brownfield investigations and landfill compliance. His specialties include: Wetland and terrestrial ecological assessments; ecological risk assessments; wetland delineations (State - CT, MA, RI, NY - and Federal); wetland and stream mitigation and restoration; dam removal feasibility studies; sediment assessment and management; local, state and Federal permit preparation and technical representation.

UPCOMING EBC PROGRAMS

MAY 2020

May 18: Water Resources Committee Virtual Program Planning Meeting

May 19: Dam Management Program – Dam Dewatering

May 20: Climate Leadership Webinar – MA Climate Programs & Priorities for 2020 – EEA David Ismay

May 22: Climate Change Webinar Series – City of Boston 2019 Climate Action Plan

May 27: Ocean and Coastal Webinar – Flood Insurance and Resilience

May 27: Leadership Webinar – EFCG Special Briefing – Impacts of COVID-19 on Environmental Firms

May 29: Solid Waste Webinar – Impact of COVID-19 on the Solid Waste Industry in New England

JUNE 2020

June 1: New Hampshire Chapter Virtual Program Planning Meeting

June 5: Building Resilience – COVID-19 and Climate Change

June 8: Energy Resources Committee Virtual Program Planning Meeting

June 8: Dam Management Committee Virtual Program Planning Meeting

June 11: 30th Annual Business Meeting and Virtual Cocktail Party

June 15: Rhode Island Chapter Virtual Program Planning Meeting

June 17: Water Resources Webinar – PFAS Liabilities for Water Suppliers and Municipalities

June 19: New England Regional Conference of State Solid Waste Directors

June 22: Ocean & Coastal Resources Committee Program Planning Meeting

June 22: Infrastructure Committee Program Planning Meeting

June 24: Connecticut Chapter Program Planning Meeting