EBC Solid Waste Management Program
Impact of PFAS on Solid Waste Operations

Tuesday, November 12, 2019
Bowditch & Dewey, LLP | Framingham, Massachusetts

AGENDA

8:00 a.m. Welcome: Daniel Moon, President, Environmental Business Council

Welcome to Bowditch & Dewey: Robert D. Cox, Jr., Managing Partner

Program Introduction & Overview – What You Will Learn
• Gretchen Carey, LEED Green Associate, Program Co-Chair and Moderator Recycling & Organics Coordinator, Republic Services

8:10 a.m. PFAS in Wastewater, Biosolids, & Residuals and Implications for Solid Waste Management
• Ned Beecher, Special Projects Manager North East Biosolids & Residuals Association

8:40 a.m. An Overview of PFAS Occurrence at Landfills
• Arie Kremen, Ph.D., Client Manager, Tetra Tech

9:10 a.m. Treatment Technologies for PFAS in Landfill Leachate
• Ivan Cooper, Principal, Civil & Environmental Consultants, Inc.

9:40 a.m. The Impact of PFOAs in Landfill Leachate on POTWs in Michigan
• Richard Burns, Senior Vice President, NTH Consultants, Ltd.

10:10 a.m. Networking Break

10:30 a.m. Removing the Handle from the PFAS Pump
• Tiffany Skogstrom, MPH, Outreach & Policy Analyst Massachusetts Office of Technical Assistance (OTA) Executive Office of Energy & Environmental Affairs

11:00 a.m. Panel Discussion
Panel Moderator: Debra Darby, Darby Marketing

Panel Members:
• Ivan Cooper, CEC
• Arie Kremen, Tetra Tech
• Tiffany Skogstrom, Massachusetts OTA

12:00 p.m. Closing Comments – Daniel Moon, EBC
PROGRAM CHAIRS

**Gretchen Carey**, LEED Green Associate, Recycling & Organics Coordinator  
Republic Services  
320A Charger Street, Revere, MA 02151  
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Gretchen Carey has worked in the environmental field for almost a decade and is now the Republic Services Recycling and Organics Coordinator for the state of Massachusetts. Along with training and educating on recycling, she is helping to build the organics infrastructure in New England. Gretchen is on her second term as Vice President of the Board of Directors for the statewide recycling group, MassRecycle, and has recently been made a LEED Green Associate.

**William G. Soukup**, PG, Senior Hydrogeologist  
Tetra Tech  
912 Silas Deane Hwy, Suite 118, Wethersfield, CT 06109  
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Bill Soukup is a senior hydrogeologist at Tetra Tech in Wethersfield, Connecticut with over 40 years of experience in the investigation and modeling of complex groundwater systems. He has a Master's degree in Geology and started his career as a groundwater modeler with the U. S. Geological Survey in Minnesota where he authored several multi-county groundwater resource investigation reports. For the past 37 years, Bill has worked as a senior consultant, managing numerous hydrogeologic investigations and remedial designs throughout the United States and abroad. Bill is a Registered Professional Geologist in Pennsylvania and Arizona.

PANEL MODERATOR

**Debra Darby**, Organics Recycling Consultant  
Darby Marketing  
533 Washington Street, Gloucester MA 01930  
(978) 376-8879 | ddarby@darbymarketing.com

Debra Darby has extensive background working with organics and compostable materials. From the branding and marketing of the first compostable biopolymers produced in Massachusetts to current consulting work for Organix Solutions.

Debra serves on the board of MassRecycle as Secretary, Environmental Business Council of New England, Northeast Recycling Council, U.S. Composting Council, and is a commissioner on the City of Gloucester MA Clean Energy Commission. Debra holds a master’s degree in Cleaner Production/Pollution Prevention from the University of Massachusetts-Lowell Department of Public Health. She is a composting professional certified by the Maine Compost School.

SPEAKERS

**Ned Beecher**, Special Projects Manager  
North East Biosolids & Residuals Association  
PO Box 422, Tamworth, NH 03886  
(603) 323-7654 | ned.beecher@nebiosolids.org
From 1998 to 2019, Ned Beecher was Executive Director of NEBRA, tracking research, legislation, and regulations, and providing information to members and the public. He is now Special Projects Manager and has focused much of his work in the past two years on PFAS and compilations of biosolids management data. NEBRA advances best practices and sustainability in biosolids recycling. Ned has led projects and authored articles, papers, and book chapters on biosolids management in the Northeast, eastern Canada, and around North America. He received the New England Water Environment Association (NEWEA) Biosolids Management Award for 2015 and has an MS in Resource Management from Antioch University and a BA in Geology from Amherst College. He has two adult children and lives and gardens (using biosolids) with his wife, Chris Clyne, MS, APRN (ret.), in Tamworth, NH.

Richard L. Burns, Sr. Vice President
NTH Consultants, Ltd.
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Rick has 35 years of professional experience in the environmental/engineering consulting field, focusing on waste-related, contaminant transport and water resource projects. He has planned and conducted environmental projects relating to all aspects of the waste management industry, including design, permitting, licensing, and long-term monitoring of disposal facilities. His technical scope and management of environmental assignments is comprehensive, including US and international projects. Most recently, Rick gained expertise related to the occurrence of PFAS in landfill leachate, biosolids, and water supplies, serving as the overall PM for Michigan Waste & Recycling Association’s (MWRA) 2019 statewide PFOA and PFOS leachate research project. Rick earned his master’s degree from Wayne State University (Geochemistry) in 1986 and lives in Livingston County, Michigan with Carin, his wife of 35 years.

Ivan A. Cooper, PE, BCEE / Principal
National Water / Wastewater Practice Leader
Civil & Environmental Consultants, Inc.
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Mr. Cooper is the Water and Wastewater Practice Lead for Civil & Environmental Consultants. He designed over 100 leachate, industrial, and municipal wastewater treatment plants. He has a BSCE from Union College and a Master’s in Civil Engineering from Northwestern University. He is a PE in 18 states, and is a BCEE with a Wastewater Treatment Specialty. He is chair of SWANA’s Leachate Management Committee, and serves on the Water Environment Federation’s Industrial Waste Committee. He received the 2017 Roy F. Weston Award – for contributions in solid waste technology and management, and the 2019 Distinguished Individual Achievement Award from the Solid Waste Association of North America.

Arie P. Kremen, Ph. D. | Client Manager
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Dr. Kremen is a senior client manager for Tetra Tech in New Jersey, specializing in landfill engineering and leachate management and treatment. Arie is serving the water resource and solid waste industry for over 25 years in design and consulting roles, both domestic and abroad. He received his doctorate for research into nutrient availability from tertiary treated wastewaters in agricultural soils. Arie helps his clients solving complex problems cost-effectively and creatively.
Tiffany Skogstrom, MPH, Outreach & Policy Analyst
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Executive Office of Energy & Environmental Affairs
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Tiffany raises the agency's visibility as a free and confidential resource for Massachusetts' toxics users and coordinates OTA's chemical policy development and research. Her toxics use reduction and occupational health experience includes creating a program to improve the work environment for auto shop and nail salon workers through the Boston Public Health Commission's Safe Shops and Safe Nail Salon Projects. Throughout her career, Tiffany has worked with various environmental and nonprofit organizations on waste reduction, recycling and pollution prevention campaigns. Tiffany graduated from the Boston University School of Public Health where she concentrated in Environmental Health and was awarded the William B. Patterson Memorial Award for Excellence in Environmental and Occupational Health. She is also a 2006 Environmental Leadership Program Fellow and 2011 Fellow of the University of California San Francisco Program on Reproductive Health and the Environment's Reach the Decision Makers Program.

UPCOMING EBC PROGRAMS

NOVEMBER 2019
November 13 – Evening Program: Update from MWRA Executive Director Fred Laskey
November 14 – New Hampshire Climate Change Update
November 19 – Dam Management Program: Permitting & Funding for Removal
November 20 – TSCA and PCB Subcommittee Program Planning Meeting
November 20 – Emerging Contaminants Subcommittee Program Planning Meeting
November 22 – Climate Adaptation Forum – Infrastructure
November 25 – Water Resources Committee Program Planning Meeting

DECEMBER 2019
December 2 – Rhode Island Chapter Program Planning Meeting
December 2 – New Hampshire Chapter Program Planning Meeting
December 3 – Rhode Island Enforcement Program with DEM & EPA
December 5 – Annual Winter Garden Party
December 9 – Energy Resources Committee Program Planning Meeting
December 9 – Dam Management Committee Program Planning Meeting
December 10 – Annual New Hampshire Chapter Holiday Party
December 11 – EBC & RISEP Annual Rhode Island Chapter Holiday Party
December 16 – Ocean & Coastal Resources Committee Program Planning Meeting
December 17 – Infrastructure Committee Program Planning Meeting

JANUARY 2019
January 8 – Leadership Series with MassDEP Regional Teams: Headquarters
January 13 – Site Remediation and Redevelopment Committee Program Planning Meeting
January 13 – Climate Change and Air Committee Program Planning Meeting
January 22 – Leadership Program with Massachusetts EEA Secretary Kathleen Theoharides
January 30 – 14th Annual Construction & Demolition Materials Management Summit