



# MANAGING RESIDUALS IN A COMPLEX WORLD

## The Northeast Residuals & Biosolids Conference

**2017**  
SPECIALTY  
CONFERENCE  
& WORKSHOP  
SERIES

October 25-27, 2017 - Hilton, Burlington, VT

### Final Conference Program

#### WEDNESDAY, OCTOBER 25, 2017

- 2:00 PM Facility Tour (optional): Essex Junction, VT WRRF
- 3:30 PM Facility Tour (optional): Magic Hat Digester & Brewery, South Burlington, VT
- 6:00 PM Welcome Reception @ Hilton's Lake Champlain Salon
- 7:00 PM Dinner on own



Green Mountain  
Water Environment  
Association

#### THURSDAY, OCTOBER 26, 2017

- 7:30 AM **CONFERENCE REGISTRATION / EXHIBITS** (continental breakfast included)
- 8:00 AM **WELCOME & OPENING REMARKS**  
Jim Barsanti, NEWEA President and Bob Fischer, GMWEA Director
- 8:15 AM **SESSION 1: WELCOME TO VERMONT!**  
Moderator: Michael Lannan, Tech Environmental
  - Net Zero Strategy: Montpelier VT's Approach for Total Water Resource Recovery - Larry Doyle, Energy Systems
  - 15 Years of 2PAD at the Airport Parkway WWTF, South Burlington, VT - John Reilly, Hoyle, Tanner & Assoc.
  - It's All in the Mix - Design of New Mixers for Anaerobic Sludge Digestion Facilities at St. Johnsbury WWTF - Meredith Zona, Stantec
  - Significant New VT Laws & Regulations - Eamon Twohig, VT DEC
- 10:00 AM **BREAK / EXHIBITS**
- 10:30 AM **SESSION 2: RESEARCH**  
Moderator: Tracy Chouinard, Brown and Caldwell
  - Characterizing Root-Associated Bacteria for Improvement of Soil Health - Cairn Ely, Central CT State University
  - Phosphate Fertilizer Value of Sludge Incineration Ashes - Claude Alla Joseph, Laval University
  - Analysis of Startup and Long-Term Performance of a High-Throughput Deammonification System - Mudit Gangal, Ovivo
  - Minimizing Sludge Generation Using an Anaerobic Side-Stream Reactor Process - Chul Park, UMASS Amherst
  - Developing Product Blends for Urban Uses - Chris Peot, DC Water
- 12:15 PM **LUNCH (included) - Seasons on the Lake**
- 1:00 PM **GET OUT, NETWORK & ENJOY** (choose one at registration)
  - Facility Tour: So. Burlington Water Quality Treatment Plant: 2PAD, Class A! (TCHs awarded)
  - Ride the Lake Champlain shore. \$25 rental bike (w/helmet), or bring your own
  - ECHO Center Museum: \$8.50 per adult, \$6.50 per youth (17 & under)
  - Tour Lake Champlain Chocolates & Walk the Waterfront
- 3:30 PM **SESSION 3: HOT TOPICS**  
Moderator: Charlie Alix, Stantec
  - Innovative Mercury Control at a Biosolids Incineration Plant - Frank Sapienza, CDM Smith
  - All the Remarkable Benefits of Recycling Biosolids to Soils - Ned Beecher, NEBRA
  - Regional Update on PFAS in Biosolids & Residuals - Michael Rainey, Formerly NH DES
- 5:00 PM **BREAK / EXHIBITS**
- 5:15 PM **SESSION 4: THINK C**  
Moderator: Ben Smith, NEIWPPC
  - Impact of Greenhouse Gas Emissions on Biosolids Management Decision-Making - Tracy Chouinard, Brown and Caldwell
  - Approaching Energy Neutrality with Carbon Diversion - Sergio Pino-Jelcic, Evoqua Water Technologies
  - Carbon Considerations in Biosolids Management - Chris Peot, DC Water
- 7:00 PM **NEBRA 20th Anniversary Gala Dinner (included) - Seasons on the Lake**

OVER



# MANAGING RESIDUALS IN A COMPLEX WORLD

## The Northeast Residuals & Biosolids Conference

### 2017 SPECIALTY CONFERENCE & WORKSHOP SERIES

October 25-27, 2017 - Hilton, Burlington, VT



Green Mountain Water Environment Association

## Final Conference Program

### FRIDAY, OCTOBER 27, 2017

- 7:00 AM**      **NEBRA ANNUAL MEETING & BREAKFAST** (call Ned re availability: 603-387-7869)
- 7:30 AM**      **REGISTRATION / CONTINENTAL BREAKFAST / EXHIBITS**
- 8:00 AM**      **WELCOME & OPENING REMARKS**  
Mark Young, NEBRA President
- 8:05 AM**      **BIENVENUE AU QUÉBEC**  
Moderator: Ned Beecher, NEBRA  
Updates on Recycling of Fertilizing Residual Materials in Quebec - Patricia Goulet, RECYC and Serge Loubier, Englobe
- 8:45 AM**      **SESSION 5: ANAEROBIC DIGESTION**  
Moderator: Eric Spargimino, CDM Smith
  - To Codigest or Not to Codigest? - Natalie Sierra, Brown & Caldwell
  - Cortland WWTF: Digester Upgrades and CHP Integration in an Antiquated System - Matt Williams, WesTech Eng.
  - Are Your Digesters Burping, Frothing, or Otherwise Not Behaving? - Chris Muller, Brown and Caldwell
  - Comparative Life Cycle Assessment & Cost Analysis of Bath, NY WRRF Upgrades - Xing (Cissy) Ma, US EPA
- 9:45 AM**      **BREAK / EXHIBITS**
- 11:15 AM**     **SESSION 6: PHOSPHORUS**  
Moderator: Ray Gordon, NH Dept. of Environmental Service
  - Reducing Plant-Available Phosphorus in Agricultural Soils Using Water Treatment Residuals: Current Field Trials - Michael Potash, Resource Management Inc.
  - Phosphorus in Biosolids Composts and Risks to Water Quality - Geoff Kuter, Agresource
  - Phosphorus Regulation & Research in Massachusetts & Beyond - Ned Beecher, NEBRA
- 12:30 PM**     **ADJOURN** (box lunch provided)  
Optional NEBRA update on PFAS & biosolids/residuals over lunch

EXHIBITORS	SPONSORS
Aqua Solutions	AECOM
Casella Organics	Aqua Solutions
David F. Sullivan & Associates	ARCADIS
Lystek International	Brown and Caldwell
Quantum Biopower	Hazen and Sawyer
Resource Management Inc	Hoyle, Tanner & Associates
Statewide Aquastore, Inc.	Kleinfelder
Technology Sales Associates Inc	Lystek International Inc
Walker Wellington LLC	NEFCO
WeCare Denali	Resource Management Inc.
Weston& Sampson	Suez
	Synagro Northeast
	The MAHER Corporation
	Tighe & Bond
	Woodard & Curran
	Wright-Pierce

**TRAINING CONTACT HOURS (TCHs):** Training Contact Hours (TCHs) will be awarded for operator recertification for participating states. If you need TCHs, please sign up at the end of each day at the registration desk to receive credit for that day. You MUST sign up for both days to receive credit for both days.

**PROCEEDINGS:** Presentations from this conference will be posted online at newea.org and nebiosolids.org shortly following the event. Attendees will be notified when presentations are available.

**Thank you for attending!**