



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** (sign up at registration desk)

- 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, NEIWPC

- 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



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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 Services
- 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

Aqua Solutions
Casella Organics
David F. Sullivan & Associates
Lystek International
Quantum Biopower
Resource Management Inc
Statewide Aquastore, Inc.
Technology Sales Associates Inc
Walker Wellington LLC
WeCare Denali
Weston& Sampson

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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!