

Rhode Island Department of Environmental Management OWTS Continuing Education Units (CEUs) and the license classes to which they may be applied are identified for each presentation and the field trip.

# 6th Northeast Onsite Wastewater Treatment Short Course and Equipment Exhibition

TUESDAY, April 2, 2019

7:00 AM - 7:00 PM	Registration Open, Foyer			
7:00 AM - 8:30 AM	Continental Breakfast, Mystic Ballroom			
<b>General Session, Marriott Salon D</b>				
8:30 AM - 9:00 AM	Welcome & Opening Remarks - NEIWPC, Connecticut DPH & Connecticut DEEP			
9:00 AM - 10:00 AM	Opening Session: <i>Contaminants of Emerging Concern: Challenges going forward – What we know and what we still don't know</i> - George Heufelder, Barnstable County Department of Health and Environment 4/2/19 - 9:00 - 10:00 Contam.. Emerging Concern (G. Heufelder) <b>CI-I, II, III &amp; IV [1/2 CEU]</b>			
10:00 AM - 10:30 AM	Break, Exhibit Hall Opening (Mystic Ballroom)		Vendor Training presented by vendors with RI-approved products is assigned 1/2 CEU as indicated below	
<b>Concurrent Sessions</b>				
<b>Room:</b>	<b>Marriott Salon D</b>	<b>Marriott Salon EF</b>	<b>Marriott Salon AB</b>	<b>Marriott Salon C</b>
	<b>Policy</b>	<b>Sustainability</b>	<b>Onsite A to Z</b>	<b>Vendor Training</b>
10:30 AM - 11:30 AM	<i>Barriers to Using Decentralized Wastewater Community Solutions: 2007 to 2018 - Clark</i>	<i>Developing a County-Wide Road Map for the Restoration of Water Quality Through Wastewater Management - Zegel</i>	<i>Septic System Treatment Overview - Sara Heger</i> <b>CI-I, II, III &amp; IV [1/2 CEU]</b>	<i>Infiltrator Water Technologies</i> <b>CI-I, II &amp; III [1/2 CEU]</b>
11:30 AM - 12:30 PM	<i>Suffolk County New York's Reclaim Our Water Initiative - Jobin</i> <b>CI-I, II, III &amp; IV [1/2 CEU]</b>	<i>How are Reductions in Water Usage Impacting our Septic Systems? - Heger</i> <b>CI-I, II &amp; III [1/2 CEU]</b>	<i>Key Wastewater Characteristics - John Buchanan</i> <b>CI-I, II &amp; III [1/2 CEU]</b>	<i>Aquapoint.3 LLC</i> <b>CI-I, II &amp; III [1/2 CEU]</b>
12:30 PM - 1:30 PM	Lunch in Exhibit Hall (Mystic Ballroom)			
	<b>Policy</b>	<b>Environmental Impacts</b>	<b>Onsite A to Z</b>	<b>Vendor Training</b>
1:30 PM - 2:30 PM	<i>Panel Session: Funding &amp; Administration for Septic Management Programs - Heger, Murphy, Clark</i>	<i>Passive Wastewater Nitrogen Removal - Layer Cake / NRB / PNR vs 2 Stage Biofiltration - Lombardo</i> <b>CI-I, II &amp; III [1/2 CEU]</b>	<i>Soil and Site Evaluation - Randy Miles</i> <b>CI-I, II, III &amp; IV [1/2 CEU]</b>	<i>F.R. Mahony &amp; Associates, Inc.</i> <b>CI-I, II &amp; III [1/2 CEU]</b>
	<b>Technology</b>	<b>Environmental Impacts</b>	<b>Onsite A to Z</b>	<b>Vendor Training</b>
2:30 PM - 3:30 PM	<i>OWTS: How to Ensure Consistency between Certification and Field Results - Bélanger</i> <b>CI-I, II, &amp; III [1/2 CEU]</b>	<i>Importing Soil Material on Marginal Soil treatment Area Footprints - Miles</i> <b>CI-I, II, III &amp; IV [1/2 CEU]</b>	<i>Pretreatment in Septic Tanks - Tom Fritts</i> <b>CI-I, II &amp; III [1/2 CEU]</b>	N/A
3:30 PM - 4:30 PM	<i>Septic Tank Buoyancy Control 101 - Lentz</i> <b>CI-I, II &amp; III [1/2 CEU]</b>	<i>Development of an Alternative Onsite Treatment System Program to Meet the Nitrogen Reduction Goals of the Pleasant Bay Watershed Permit, Brewster, MA -</i> <b>CI-I, II, III &amp; IV [1/2 CEU]</b>	<i>Pretreatment in Aerobic Treatment Units - Sara Heger</i> <b>CI-I, II &amp; II [1/2 CEU]</b>	N/A
5:00 PM - 7:00 PM	Exhibitor and Welcome Reception, Mystic Ballroom			

# 6th Northeast Onsite Wastewater Treatment Short Course and Equipment Exhibition

**WEDNESDAY, April 3, 2019**

7:00 AM - 8:30 AM	Registration Open, Foyer			
7:30 AM - 8:30 AM	Breakfast in Exhibit Hall (Mystic Ballroom)			
<b>Concurrent Sessions</b>				
<b>Room:</b>	<i>Marriott Salon D</i>	<i>Marriott Salon EF</i>	<i>Marriott Salon AB</i>	<i>Marriott Salon C</i>
<b>Topic:</b>	<b>Technology</b>	<b>Environmental Impacts</b>	<b>Onsite A to Z</b>	<b>Vendor Training</b>
8:30 AM - 9:30 AM	<i>Efficacy of "Eco-Toilet" and I/A Technologies for the Reduction of Nutrient Inputs into Groundwater; A Falmouth, MA Technology Study</i> <i>Woods</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>	<i>Suffolk County's Septic Improvement Program - Jobin</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Pretreatment in Media Filters - Sara Heger</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>	N/A
9:30 AM - 10:30 AM	<i>Drip Distribution – Design, Installation and Service - Buchanan</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>The Effectiveness of Layering a Sand-Sawdust Layer in a Soil Absorption System for the Removal of Nitrogen from Onsite Septic Systems in Northern</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Water Movement in Soils - Randy Miles</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Eljen Corporation</i>  <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>
10:30 AM - 11:30 AM	<i>Groundwater Mounding Analysis for Onsite Wastewater Discharge: From Simple to Innovative - Bradley</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>The Various Aspects of Treatment by the Soil in Onsite Wastewater Systems - Miles</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Distribution of Effluent - John Buchanan</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Presby Environmental</i>
11:30 AM - 12:30 PM	Lunch in Exhibit Hall (Mystic Ballroom)			
	<b>Technology</b>	<b>Environmental Impacts</b>	<b>Onsite A to Z</b>	<b>Vendor Training</b>
12:30 PM - 1:30 PM	<i>Septic System Malfunction Studies and Analysis - Healy</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Pilot Test of Nutrient Removal by Large-Scale Drip Dispersal of Tertiary-Treated Effluent, Southern Vermont - Heindel</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Pumps and Controls - John Buchanan</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>	<i>J&amp;R Sales and Service, Inc.</i>  <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>
1:30 PM - 2:30 PM	<i>Choosing the Correct System for the Site - Fritts</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Nitrogen Loading from Onsite Wastewater Treatment Systems in the Greater Narragansett Bay Watershed: Magnitude and Reduction Strategies - Amador</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Soil Treatment Systems - Randy Miles</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Oakson</i>  <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>
2:30 PM - 3:00 PM	Break in Exhibit Hall (Mystic Ballroom)			
3:00 PM - 4:00 PM	<i>Suffolk County New York's I/A OWTS Demonstration Program and Performance Evaluation - Jobin</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Onsite wastewater treatment systems in southern New England: Nitrogen removal performance, greenhouse gas emissions and climate change woes - Cox</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Installation and Inspection - Tom Fritts</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>	N/A
4:00 PM - 5:00 PM	<b>4:00 PM - 4:30 PM</b> <i>Advanced Septic System Nitrogen Sensor Challenge: Background and Update - Theroux</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/4 CEU]</span> <b>Emerging Issues</b>	<i>Nitrogen Removal from Wastewater by Ion Exchange Sorption &amp; In Situ Regeneration - Smith</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/2 CEU]</span>	<i>Operation and Maintenance - Tom Fritts</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II &amp; III [1/2 CEU]</span>	N/A
	<b>4:30 PM - 5:00 PM</b> <i>Prevalence of Surfactants in Advanced Technology Onsite Wastewater Treatment Systems -</i> <span style="border: 1px solid red; padding: 2px;">CI-I, II, III &amp; IV [1/4 CEU]</span>			

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# **6th Northeast Onsite Wastewater Treatment Short Course and Equipment Exhibition**

**THURSDAY, April 4, 2019**

<b>7:00 AM - 9:00 AM</b>	Continental Breakfast for Field Trip Attendees, Room TBD
<b>8:30 AM - 9:00 AM</b>	Pre-Field Trip Meeting, Room TBD
<b>9:00 AM - 4:00 PM</b>	<p><b>FIELD TRIP: 66 High Street, Guilford Commons, &amp; Westbrook Outlet facilities (Boxed Lunch Provided)</b></p> <p><b>66 High Street:</b> this facility was constructed in 2017-2018 at a new residential development and employs top-of-the-line membrane filtration technology. This project will be interesting to discuss because of its location at the clean-up of an industrial site. Septic and EQ tanks are installed in the groundwater, and we will discuss the measures taken to ensure that there is no infiltration. The membrane filtration tanks are above ground and the inside of the tanks can be seen. Treated wastewater is used to clean the membranes.</p> <p><b>Guilford Commons:</b> a facility installed in 2016 employing a membrane filtration system, with recycling of wastewater to toilets and urinals. This project is known locally as “the rock pile” and has lateral sand filters to transmit the effluent.</p> <p><b>Westbrook Outlet:</b> a facility installed over twenty years ago, also employing a membrane filtration system and with recycling of wastewater to toilets and urinals. We will be able to compare two very similar facilities, installed 20+ years apart, and see how the technology has evolved.</p>
<b>CI-I, II, III &amp; IV [3.5 CEUs]</b>	