8:30 AM  Registration, Coffee and Pastries / Networking and Visit Exhibitors

8:55 AM  Introduction by Moderator
ROBERT S. LITTLE, P.E., Drinking Water Practice Leader, Woodard & Curran, Andover, MA

9:00 AM  "Optimization of Riparian Zone Nitrogen Management in US Midwest and US Northeast Through Development of Riparian Model"
MARZIA TAMANNA, Ph.D. Candidate, University of Rhode Island, Kingston, RI
Riparian zones are widely used as best management practices (BMPs) to mitigate the impact of agriculture on the quality of our waters. However, the buffering capacity of riparian zones with respect to Nitrogen (N) and Phosphorus (P) vary largely as a function of the hydrogeomorphic setting of the riparian zone. We used Riparian Ecosystem Management Model (REMM) to simulate managed riparian ecosystems. This study presents REMM model input development, sensitivity analysis and model calibration/validation to predict nitrates and phosphates from riparian sites in the US Midwest and US Northeast.

9:30 AM  "Infusing Youth Into the Water Industry"
MEGHAN TRAHAN, Engineer 2, Woodard & Curran, Andover, MA
In the last 5-10 years, the water industry has increasingly adopted new technology. Yet, operators of these newer, more technologically advanced facilities are not getting any younger. With the average age of operations professionals hitting 49, how can utilities get younger while maintaining ever more strict water quality standards? This presentation will look at how the industry can appeal to young people beginning their career, and how we can bridge the generational differences to help all operators thrive.

10:00 AM  Break / Visit Vendor Displays

10:15 AM  "Practical Implementation of Geophysical Techniques in Assessing and Designing Water Infrastructure"
GREG SMITH, P.G. C.G, Senior Hydrogeologist, Wright-Pierce, Manchester, NH
The development of water infrastructure such as water mains, infiltration basins and groundwater wells can be costly, particularly if unanticipated subsurface conditions are encountered or the location of existing infrastructure is not well known. Using the right geophysical survey technique to obtain information for subsurface conditions can result in a significant reduction in project costs. This presentation will focus on the benefits and limitations of geophysical survey techniques as well as discuss proven case studies for water systems who have reaped cost-saving benefits from this approach.

10:45 AM  "Great Hill Tunnel and Pipeline Restoration Project - How a Diver’s Lost Belt Led to a Modern-Day Marvel of Engineering"
ROSE GAVRILOVIC, P.E., Director of Capital Planning and Delivery, ORVILLE KELLY, Capital Construction Lead, South Central CT Regional Water Authority, New Haven, CT, and DARLEEN BUTTRICK, P.E., Tighe & Bond, Westfield, MA
After a leak was discovered on a 1927 cast iron pipe that transports over 60% of the RWA's water to its 430,000 customers, the RWA completed a complex emergency repair within six months. This presentation will outline the complex planning, engineering, design and construction of a 40 MGD temporary bypass system and detail the full restoration of the concrete-lined tunnel. It will also examine the steps that the RWA took to investigate and determine the cause of the leak.

11:15 AM  "Innovative Approaches to Stormwater Funding"
DAVE FOX, Manager, Raftelis, Natick, MA
Many municipalities across the country and New England are facing increased stormwater infrastructure maintenance and rehabilitation needs, as well as increasingly stringent water quality requirements. This presentation will provide insights into how to develop stable funding strategies to serve customers and meet stormwater requirements over the short- and long-term. We will discuss a range of issues such as setting up new stormwater utilities, developing and implementing stormwater fees, policy concerns, and how best to communicate with customers.

11:45 AM  Questions and Answers — All Presenters

12:00 PM  Networking and Social / Visit Vendor Displays

12:30 PM  Luncheon, Announcements, Presentations, Business Meeting
Update by NEWWA President, BARBARA K. COOK and RIWWA President, STEPHEN SOITO

2:00 PM  Monthly Meeting Adjourns
REGISTRATION FORM — NOVEMBER 21, 2019 NEWWA/RIWWA JOINT MONTHLY MEMBERSHIP MEETING

Register online at newwa.org or complete this form and return by fax to 508.893.9898, or mail to NEWWA, 125 Hopping Brook Road, Holliston, MA 01746. Member discounts are available through November 8. Full price is $85 for NEWWA and RIWWA members registering by November 8. After November 8, the member discounted fee is $85 and full price is $95. Full-time students receive a special rate of $30.

If you require a vegetarian meal or have special dietary needs, indicate below. Be sure to check in at the registration desk and pick up your badge upon arrival.

Refund Policy: If you cannot attend, refunds are only provided on cancellations received in writing by November 8. No shows will be charged the original registration fee.

Would you like information on joining a NEWWA committee? ☐ Yes ☐ No.

Please check here if you have a disability and require accommodations to fully participate. You will be contacted by NEWWA.

November Monthly Meeting Location
Kirkbrae Country Club
197 Old River Road, Lincoln, Rhode Island
401.333.1300 | kirkbrae.com

Schedule of Upcoming Events

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<th>2019</th>
<th>2020</th>
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<tr>
<td>OCT 30</td>
<td>Water Resources &amp; Sustainability Symposium</td>
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<tr>
<td>NOV 5</td>
<td>Information Technology &amp; Asset Management Fair</td>
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<tr>
<td>DEC 19</td>
<td>December Monthly Meeting</td>
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<td>JAN 16</td>
<td>NEWWA/NHWWA January Monthly Meeting</td>
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<td>JAN 17</td>
<td>NEWWA Annual Ski Classic</td>
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<td>APR 1-2</td>
<td>Spring Joint Regional Conference &amp; Exhibition</td>
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<tr>
<td>MAY 4</td>
<td>NEWWA Annual Golf Classic</td>
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<tr>
<td>MAY 6</td>
<td>22nd Annual Water Quality Symposium</td>
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NEWWA Call for Papers and Presenters

The NEWWA Program Committee is soliciting abstracts for 2020 meetings and conferences. Abstracts should not exceed 80 words and should relate to one of the following topics: treatment, distribution, groundwater, water resources, international, GIS/asset management, dams, young professionals, customer service, cross-connections, residuals, energy/sustainable resources, security/emergency response, regulations, management/finances, O&M, IT/SCADA, or safety/OSHA. Submit an abstract online at newwa.org. If you have questions about submitting an abstract, contact Christina Jones, Program Committee Abstract Coordinator, 413.572.3295, cljones@tighebond.com, or Mary Quigley at NEWWA, 508.893.7979, mquigley@newwa.org.

The Program Committee is currently accepting abstracts for the January 16, 2020 meeting in Nashua, NH, and the Spring Joint Regional Conference & Exhibition on April 1-2, 2020 in Worcester, MA.

PHOTOGRAPH AND INFORMATION RELEASE
Photographs will be taken at this event. By registering for this event you agree to allow NEWWA to use your photo in any NEWWA-related publication or social media site.