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On behalf of the Conference Organizing Committee, we are excited to extend an invitation to you to attend the 72nd Annual Conference of the Atlantic Canada Water and Wastewater Association in Halifax, Nova Scotia from October 6th to 8th, 2019 at the Marriott Harbourfront Hotel.

The theme of this year’s conference is Uncharted Waters: Preparing for the Unknown. Water and wastewater utilities are facing an ever increasing list of challenges including climate change, failing infrastructure, new regulations and changing technology. Utilities need to try their best to be prepared so that they can successfully navigate these challenges. The conference committee has put together a conference program that ties into this theme.

Our keynote address will be given by Carl Yates, P.Eng. Carl will be retiring as the General Manager from Halifax Water at the end of June 2019 after over 30 years of service to the water and wastewater industry in Atlantic Canada and beyond. We are looking forward to hearing Carl’s insight on the industry.

Our Technical Program will be comprised of many great papers representing a diverse cross-section of the water and wastewater industry. New this year is an early bird theme on Tuesday before the trade show. Based on your feedback, we’ve also added some non-technical talks this year. From the Keynote Address to The Leadership Lineup stream, come and learn from both seasoned and emerging leaders in the water industry.

On Monday night, we continue the tradition of Dine on Your Own. This will be the perfect opportunity to connect with fellow delegates in a non-formal setting and experience the fine dining that Halifax has to offer. Then finish off the evening at the ABEA Hospitality event at the Schooner Room of Casino Nova Scotia where you can kick up your heels with some local entertainment.

Once again, the ABEA Trade Show will be a great event to see the latest products and speak with suppliers. Make sure you get there early to see the “Best of the Best” Tap Water Taste Test competition. The conference will wrap up Tuesday night with the Down East Feast and the mystifying acrobatics of Atlantic Cirque.

Come early or stay late so that you take the time to get out and enjoy downtown Halifax. There is always something fun and exciting happening in the harbor city. We can’t wait to see you in Halifax this fall.
As we look forward to the 2019 ACWWA Conference to be held in Halifax from October 6th to 8th, I would like to extend a cordial invitation on behalf of the board to all industry professionals to attend this top-notch event. As the theme indicates, we continue to navigate Uncharted Waters with respect to all things water, particularly considering our ever-changing physical, political, social, and economic climates. We heavily rely on our local expertise and welcome input from abroad to help solve tomorrow’s issues, starting today.

Halifax is a bustling and treasured city in Atlantic Canada with much to offer for dining and beverages, entertainment, scenery, and education. Within the conference you are bound to be impressed by the Technical Program featuring over 35 presentations, a robust ABEA Trade Show, multiple Water for People activities, a Young Professionals Seminar, and endless opportunities to learn and connect with colleagues.

Join us on the Halifax Waterfront as we celebrate the resilience and innovation of the Atlantic Canada water and wastewater industry and look forward to Preparing for the Unknown.
Carl Yates has extensive experience in the water utility profession having served as Project Engineer, Chief Engineer and General Manager of the Halifax Water Commission from 1988 to 1996. In 1996, he was appointed General Manager of the Halifax Regional Water Commission which assumed a regional mandate after the municipal amalgamation of the greater Halifax area in 1996. In 2007, Mr. Yates oversaw the formation of the first regulated water, wastewater and stormwater utility in Canada with the transfer of wastewater and stormwater assets from the Halifax Regional Municipality. Halifax Water is a body corporate municipal utility, generating approximately 140 million dollars in annual revenue with assets of over $2 Billion.

Mr. Yates obtained a Bachelor of Engineering from Memorial University of Newfoundland in 1984 and a Master of Applied Science from the Technical University of Nova Scotia [now Dalhousie University] in 1992. He is Past Chair of the Focus Area Council of the Water Research Foundation, Vice Chair of the Canadian Water Network, Board Director of the Alliance for Water Efficiency, and a past member of the Board of Directors of Special Olympics Nova Scotia.
Theresa is the Water Resources Group Manager for Crawford, Murphy & Tilly, Inc in Aurora, Illinois. With 24 years of experience in the water industry, Theresa has been an active member of AWWA since 1996.

Involved in the Illinois Section, Theresa has served two terms as Trustee – District 2, Vice-Chair, Chair-Elect, Chair and Past-Chair. On the Association level, she is serving on the Board of Directors as the Illinois Director and Vice President. She is also a member of the AWWA Engineering and Modeling Applications Committee (EMAC). She is also a member of Mid-Central Waterworks Association and Kane County Water Association. Currently, she is serving as the Resident Representative on the Will County Stormwater Planning Committee.

Theresa holds a BS degree in Civil Engineering with a Hydraulics & Hydrology Emphasis from the University of Illinois, Champaign-Urbana and is a licensed Professional Engineer (P.E.) in the State of Illinois. She lives in Naperville, Illinois with her husband (Michael) and two kids (Aidan and Riona).
Thomas E. Kunetz is the 2018-2019 President of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Tom is the assistant director of monitoring and research for the Metropolitan Water Reclamation District of Greater Chicago, leading the district’s efforts on key strategic engineering initiatives. He has over 30 years of experience in the field of environmental engineering in both the public and private sectors, focusing on design of wastewater treatment facilities, improving the water environment, and protection of public health.

A WEF member since 1992, Tom is the past chair of the Municipal Wastewater Treatment Symposium, and served on the Program Committee, and the Municipal Water Resource Recovery Design Committee. He was a member of the Chicago WEFMAX organizing committee, and served on the Stockholm Junior Water Prize organizing committee with the Illinois Water Environment Association.

Tom is a registered professional engineer in the state of Illinois. He is a graduate of the WEF-sponsored Water and Wastewater Leadership Center at the University of North Carolina, the 2012 recipient of the Charles Walter Nichols Award for Environmental Excellence from the American Public Works Association, and a WEF Fellow. He has served as technical advisor to the student chapter of Engineers for a Sustainable World at Northwestern University, traveling to Panama with the students.

Tom earned his B.S. in environmental engineering from the Pennsylvania State University and an M.S. in water resources engineering from Villanova University.
Robert Haller is the executive director of the Canadian Water and Wastewater Association, a role he took on after almost 20 years as a senior municipal administrator - most of those years serving as a CAO for small and medium-sized communities. He claims to be a geographer first, with a BA from Carleton University, followed by a Masters in Public Administration from the University of Western Ontario.

Robert leads the CWWA as THE national voice for municipal water and wastewater and promotes collaboration between all the water organizations across Canada. Robert represents the municipal water sector to the federal government on issues such as infrastructure funding, flood risk, security, drinking water guidelines and more. He works closely with all the water associations in North America on education, communications and utility leadership and represents Canada to the International Water Association.
### Conference Highlights

**10.06.2019**

**10.00 AM**
- ABEA Golf Tournament at Lost Creek Golf Club & Village

**1.00 PM - 4.00 PM**
- Young Professionals Event

**1.00 PM - 3.30 PM**
- Technical Tour of Lake Major Dam

**5.00 PM - 7.00 PM**
- Young Professionals Meet & Greet, The Lower Deck (2nd Floor)

**7.30 PM - 10.30 PM**
- Meet & Greet Reception, Sable Ballroom

**8.30 PM - 9.30 PM**
- Water Tower Competition, Sable Ballroom

**7.30 AM - 8.30 AM**
- Continental Breakfast

**8.30 AM - 10.00 AM**
- Opening General Session, Nova Scotia Rooms A & B

**10.30 AM - 12.00 PM**
- Technical Sessions, Halifax Rooms A, B & C

**12.00 PM - 1.30 PM**
- ACWWA AGM & Awards Luncheon, Nova Scotia Rooms C & D

**1.30 PM - 4.45 PM**
- Technical Sessions, Halifax Rooms A, B & C

**5.00 PM - 6.00 PM**
- Water for People 5K Fun Run/Walk

**6.00 PM - 8.00 PM**
- Dine On Your Own - Explore Downtown Halifax

**9.00 PM - 1.00 AM**
- ABEA Common Hospitality Reception, Schooner Room, Casino NS

**10.07.2019**

**7.30 AM - 8.30 AM**
- Continental Breakfast

**8.00 AM - 9.30 AM**
- Technical Sessions, Halifax Rooms A, B & C

**9.30 AM - 10.30 AM**
- "Best of the Best" Tap Water Taste Test

**10.00 AM - 2.00 PM**
- ACWWA/ABEA Tradeshow, Nova Scotia Ballroom

**2.00 PM - 4.00 PM**
- Technical Sessions, Halifax Rooms A, B & C

**6.30 PM**
- Down East Feast, Nova Scotia Ballroom
We welcome you to join us for our Annual Golf Event being held on October 6th, 2019 and sponsored by the ABEA, and its individual members.

Lost Creek Golf Club and Village... “Imagine a mature hardwood forest of rolling hills, a crystal lake and a flowing river. A perfect portrait of Nova Scotia. Now imagine all of this and a championship 18 hole golf course...some say by Mother Nature’s design.”

$75 + tax
Includes: Green Fees, Shared Cart & Range Balls

Tee times commence at:
10:00 AM
A Shotgun Format

Transportation & Lunch will be provided.

Put your team together, or we will be pleased to place you with a group (forward requests directly to scotiatech.main@ns.sympatico.ca) – all ability levels welcome... rental clubs are available for an additional fee (arrangements to be made directly with the course – see contact info below).

**Please note that only those registered by September 1, 2019 will be guaranteed “swag”.**

lostcreek.ca
310 Kinsac Rd.
BeaverBank, NS
(902) 865-4653
The Young Professionals (YP) Committee is inviting conference attendees to sign-up for the YP Seminar, which is being held from 1:00 PM to 4:00 PM on the opening day of the Conference, Sunday October 6th, 2019.

This year, the seminar is themed “How to navigate your social and professional network” and will feature presentations on topics such as professional development using social media, entrepreneurship and startups, and maintaining a work/life balance. The event will also provide an excellent opportunity to meet other YPs before everyone heads to the YP Mixer later in the evening. All attendees will receive a ticket for a complimentary drink at the Mixer.

The seminar is being organized by the YP Committee, which is an active group that offers engaging networking and volunteering opportunities for members of the ACWWA who are new to the water and wastewater industry. The group is made-up of engineers, researchers, operators, technical sales people, and managers.

Join us at The Lower Deck (2nd floor) from 5:00 PM to 7:00 PM for our Young Professionals Mixer! Both young and experienced professionals are encouraged to drop in for some snacks, refreshments, and conversation with members in our industry. This is a wonderful opportunity to meet and support our future water and wastewater leaders.
**Monday**

**10:30 AM - 11:15 AM**

**A1 Technical Session**

**Halifax Room A**

**Championing Change on the LaHave River**

Stella Bowles

Stella Bowles prompted action for the clean up of Nova Scotia’s LaHave River, which contains alarmingly high levels of fecal contamination. Because of her work, three levels of government have allocated $15.7 million dollars to address the problem of illegal straight pipes that still drain raw sewage from over 600 homes along the river. Three years since her initial research, Stella continues to be an advocate for the elimination of illegal straight pipes province wide.

**A2 Technical Session**

**Halifax Room B**

**Hydraulics of Pressure Sewer Systems**

Keith McHale

Environment One Corporation

**A3 Technical Session**

**Halifax Room C**

**Aerotech Wastewater Treatment Plant Expansion and Upgrade**

Daryl Burke, EXP Services Inc.

**The Benefits of Effective Leadership and Leadership Training**

Tabatha Thibault, Saint Mary’s University

Tabatha Thibault holds a MSc in Applied Psychology focusing on Industrial/Organizational Psychology. She is currently a PhD candidate in Industrial/Organizational Psychology at Saint Mary’s University as well as a part-time professor. Her research interests include leadership development, the Dark Tetrad of personality, and incivility and cyber deviance in the workplace. She has been part of a research-practitioner team that conducts leadership training workshops for the past three years.

**Wet Weather Flow Management for Trunk Sewer Systems - City of Toronto Black Creek Sanitary Servicing Study**

Stewart Dickson & Harshad Shetye

WSP Canada

**Ammonia Limits and Lagoons: Atlantic Canada's Options for Beating Effluent Limits**

Francis Bordeleau

Nexom

**1:30 PM - 2:00 PM**

**B1 Technical Session**

**Halifax Room A**

**Harvesting Nutrients for Reuse from Municipal Wastewater Using a Revolving Algae Biofilm System**

Tom Kunetz

MWRD Chicago

**B2 Technical Session**

**Halifax Room B**

**PFAS Dark Matter: Precursors in Soil and Water**

Virgil Guran

Maxxam Analytics

**B3 Technical Session**

**Halifax Room C**

**Assessing Recoverable Leakage Potential Through Evidence-Based Performance Indicators**

Fabian Papa & Bradley Jenks

HydraTek & Associates

**The Use of Rare Earth Metals for Targeted Removals of Phosphorus**

Kevin Bossy

Bishop Water Technologies

**Ellenvale Run Watercourse Rehabilitation**

Adam Sketchly & Evan Teasdale

DesignPoint Engineering and Surveying

**Potential Corrosivity of Groundwater in Nova Scotia and its Association with Lead in Private Well Water**

Gavin Kennedy

NS Department of Energy and Mines

**2:00 PM - 2:30 PM**

**2:30 PM - 3:00 PM**

**The Hidden Value in Wastewater**

Lili Torres

Inland Technologies

**2:30 PM - 3:00 PM**

**2:30 PM - 3:00 PM**

**2:00 PM - 2:30 PM**

**The Use of Rare Earth Metals for Targeted Removals of Phosphorus**

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**The Hidden Value in Wastewater**

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**2:00 PM - 2:30 PM**

**2:30 PM - 3:00 PM**

**The Hidden Value in Wastewater**

Lili Torres

Inland Technologies

**3:00 PM - 4:15 PM**

**3:15 PM - 3:45 PM**

**Lake Recovery Through Reduced Atmospheric Deposition: Experiences in Atlantic Canada and Key Lessons Learned**

Lindsay Anderson

Dalhousie University

**3:00 PM - 4:15 PM**

**4:15 PM - 4:45 PM**

**Lake Recovery Through Reduced Atmospheric Deposition: Experiences in Atlantic Canada and Key Lessons Learned**

Lindsay Anderson

Dalhousie University

**Operational Challenges at JD Kline Water Supply Plant in Light of Lake Recovery**

Sanjeev Tagra

Dalhousie University & Halifax Water

**Decision Making in an Era of Changing Source Water**

Wendy Krkosek

Halifax Water

**Operational Improvements for Small and Medium-Sized Utilities**

Darren Row & Jay Shanahan

City of Miramichi

**Minimize Metal and Concrete Damage in Water and Wastewater Applications**

Randy Nixon

Corrosion Probe Inc.

**VCC Dark Matter: Precursors in Soil and Water**

Virgil Guran

Maxxam Analytics

**Assessing Recoverable Leakage Potential Through Evidence-Based Performance Indicators**

Fabian Papa & Bradley Jenks

HydraTek & Associates

**Water Loss Reduction Through Pressure Management to Save Money**

Jody Malo

Omnitech Inc.

**Water Distribution Monitoring to Inform Non-Revenue Water Reduction**

Zachary Barker

Visenti, A Xylem Brand

**4:15 PM - 4:45 PM**

**4:15 PM - 4:45 PM**

**4:00 PM - 4:45 PM**

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Corrosion Probe Inc.
## Technical Program

**10.08.2019  TUESDAY**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>8:00 AM - 8:30 AM</td>
<td>D1</td>
<td>Halifax Room A</td>
<td>Planning for the Unknown Future and Reshaping Saint John’s Water System</td>
<td>Dean Price, Saint John Water</td>
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<td>Buffalo NY: Achieving 21st Century Results with Legacy Infrastructure</td>
<td>Tim Braun, Emnet, A Xylem Brand</td>
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<td>Small Utility Tackles Full Water Meter Conversion to New Meters, New Technology, and Changing from Imperial to Metric</td>
<td>Jesse Hulsman, Municipality of East Hants</td>
</tr>
<tr>
<td>8:30 AM - 9:00 AM</td>
<td>D2</td>
<td>Halifax Room B</td>
<td>Pilot Plant Optimization Study of Coagulation Processes in a Direct Filtration Plant for Source Water Undergoing Lake Recovery</td>
<td>Isobel DeMont, Dalhousie University</td>
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<td>Testing Ultraviolet Light Emitting Diodes (UV LEDs) Apparatus for Point-Of-Use (POU) Drinking Water Disinfection</td>
<td>Carolina Ontiveras, Dalhousie University</td>
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<td></td>
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<td></td>
<td>Understanding Drinking Water Biofiltration: Monitoring and Optimization Approach</td>
<td>Leili Abkar &amp; Anita Taylor, Dalhousie University</td>
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<tr>
<td>9:00 AM - 9:30 AM</td>
<td>D3</td>
<td>Halifax Room C</td>
<td>MBBR Treatment in Saint John, NB</td>
<td>Alexander Williams, Dillon Consulting</td>
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<td>Understanding the Impacts of Domestic Wastewater Microbial Communities on Rapid ATP-Based Monitoring Techniques for UV Inactivation</td>
<td>Kyle Rauch, Dalhousie University</td>
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<td>EISI Upgrades Wastewater Treatment Plant at Atlantic Beef Products to First Membrane Bioreactor in Prince Edward Island</td>
<td>Adam Ryder, ADI Systems</td>
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### 2:00 PM - 2:30 PM

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<tr>
<th>Session</th>
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<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>E1</td>
<td>Halifax Room A</td>
<td>Update on Health Canada’s Guidelines for Canadian Drinking Water Quality for Aluminum and Natural Organic Matter</td>
<td>Judy MacDonald, Health Canada</td>
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<td>Kankakee Water Treatment Plant Improvements</td>
<td>Theresa O’Grady, Crawford, Murray &amp; Tilley</td>
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<td>Updates and Incorporation of Climate Change into the Atlantic Canadian Water and Wastewater Design Guidelines</td>
<td>Willard D’Eon, CBCL Ltd.</td>
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<td>Gas Monitoring Requirements, Assessments and Certification</td>
<td>Amyn Bhimani, Hetek Solutions</td>
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### 2:30 PM - 3:00 PM

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<th>Session</th>
<th>Room</th>
<th>Title</th>
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<tbody>
<tr>
<td>E2</td>
<td>Halifax Room B</td>
<td>Putting All the Pieces Together: More Than Just Another All-Pipe Wastewater Model Build</td>
<td>David Blades, Halifax Water</td>
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<td>Use of CFD Analysis for Secondary Clarifier Design</td>
<td>Mike Abbott, CBCL Ltd.</td>
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<td>A Proactive Approach to Transmission Main Condition Assessment - St. John’s Regional Water Supply</td>
<td>Clayton MacDougal, Pure Technologies, a Xylem Brand</td>
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<td>Confirming Uncertain Ground Conditions by Analyzing Microtunnel Data</td>
<td>Troy Bauman, Robinson Consultants</td>
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### 3:00 PM - 3:30 PM

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<th>Session</th>
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<tbody>
<tr>
<td>E3</td>
<td>Halifax Room C</td>
<td>The Importance of Quality Control for CIPP Rehabilitation of Sewers</td>
<td>Kevin Bainbridge, Robinson Consultants</td>
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<td>CIPP Watermain Lining - Consolidated Design and Compliance Guidance and Technical Advances</td>
<td>George Bontus, Aegion Corporation</td>
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<td>Large Diameter Watermain Lining in the City of Toronto</td>
<td>Stewart Dickson &amp; Patrick Lewis, WSP Canada</td>
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<td>Storm Water Management: Underground Storm Sewer Treatment Unit and Canadian ETV Protocol Using Hydrodynamic Separation</td>
<td>Philippe Losier, Soleno</td>
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<td>Hand-on Technical Demo: Safe and Efficient Measures When Hot Tapping Pressurized Watermains – Large Diameter</td>
<td>Tuesday, October 8, 12:30 PM, ABEA Tradeshow Space (Nova Scotia Ballroom), Presented by Mueller and the City of Charlottetown</td>
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# ACWWA Conference Registration

## PART 1 – CONFERENCE ATTENDEE GENERAL INFORMATION

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<thead>
<tr>
<th>FIRST NAME</th>
<th>LAST NAME</th>
<th>ORGANIZATION</th>
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<th>MAILING ADDRESS</th>
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<th>PROVINCE</th>
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<th>AWWA MEMBERSHIP NUMBER</th>
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<th>PHONE</th>
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REGISTERED COMPANION/SPouse | EMAIL ADDRESS
Check box if you would like to be added to the ACWWA email list □
Check box if you are a first time conference attendee □

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<tr>
<th>Sector</th>
<th>Utility</th>
<th>Supplier</th>
<th>Contractor</th>
<th>Consultant</th>
<th>Student</th>
<th>Academic</th>
<th>Regulator</th>
<th>Other</th>
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## PART 2A – DELEGATE REGISTRATION

| Full Conference Delegate – On or Before Sept 6, 2019 - Includes all Meals | □ Member – $475 | □ Non-Member – $525 |
| Full Conference Delegate – After Sept 6, 2019 - Includes all Meals | □ Member – $575 | □ Non-Member – $625 |
| Companion/Spouse Program – Includes all Meals | □ Member/Non-Member – $275 |
| Student (Includes Meet & Greet, Breakfasts/Lunches, ABEA Reception and Trade Show) Registration is free if the student is presenting a technical session | □ Member/Non-Member – $150 |
| Monday Full Day Pass (Includes Breakfast, AGM Lunch and ABEA Hospitality Reception) | □ Member – $250 | □ Non-Member – $275 |
| Tuesday Full Day Pass (Includes Breakfast, Trade Show & Lunch, and Down East Feast) | □ Member – $250 | □ Non-Member – $275 |
| Tuesday 1/2 Day Trade Show Pass (Includes Breakfast, Trade Show & Lunch) | □ Member – $125 | □ Non-Member – $150 |

Register before August 15, 2019 and be entered for the early bird draw

## PART 2B - DELEGATE MEALS & ACTIVITIES NOT INCLUDED WITH REGISTRATION

### Sunday, October 6

- Golf – Transportation, Green Fees, Shared Cart and Lunch Included Indicate your shirt sizes: SM____, MED____, LG____, XL____, XXL____
- Tour of Lake Major Dam (Hard hat, safety vest, and steel toe work boots required)
- Young Professional Workshop – Registration is free – Please indicate if you are attending Yes ☐ No ☐

### Tuesday, October 8

- Down East Feast – Included in Delegate/Companion Registration Fees Additional Tickets ____ @ $75 $ 

Please indicate meal choice for Down East Feast for Delegate/Companion

- Salmon ____
- Chicken ____
- Beef ____

Please describe any dietary restrictions or other special needs you may have

## Part 2 – Subtotal

## PART 3A – TRADE SHOW BOOTH RENTAL & EXHIBITOR REGISTRATION

<table>
<thead>
<tr>
<th>Booth Rental (Max 3 Booths &amp; 2 People/Booth)</th>
<th>ABEA Member – ____ Booths @ $525</th>
<th>Non-Member – ____ Booths @ $900</th>
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<tr>
<th>EXHIBITOR’S NAME</th>
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<tr>
<th>Extra Booth Exhibitor Registration (includes Meet &amp; Greet, ABEA Hospitality Reception, Trade Show Lunch)</th>
<th>ABEA Member – ____ @ $75</th>
<th>Non-Member – ____ @ $100</th>
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## Part 3 – Subtotal

## PART 3B - EXHIBITOR MEALS & ACTIVITIES NOT INCLUDED WITH REGISTRATION

### Sunday, October 6

- Golf – Transportation, Green Fees, Shared Cart and Lunch Included Indicate your shirt sizes: SM____, MED____, LG____, XL____, XXL____
- Tour of Lake Major Dam (Hard hat, safety vest, and steel toe work boots required)

## Part 2 – Subtotal

## Part 3 – Subtotal

---

13 | UNCHARTED WATERS
Exhibitor Booth registration does not include the full conference or meals. To attend full conference, register as a Delegate in Part 2

<table>
<thead>
<tr>
<th>Monday, October 7</th>
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<tbody>
<tr>
<td>Pick-Up Breakfast</td>
<td>Exhibitor ____ @ $34</td>
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<tr>
<td>Annual General Meeting Luncheon</td>
<td>Exhibitor ____ @ $46</td>
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<th>Tuesday, October 8</th>
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<tbody>
<tr>
<td>Pick-Up Breakfast</td>
<td>Exhibitor ____ @ $34</td>
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<tr>
<td>Down East Feast</td>
<td>Exhibitor ____ @ $75</td>
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Please indicate meal choice for Down East Feast

<table>
<thead>
<tr>
<th>Salmon</th>
<th>Chicken</th>
<th>Beef</th>
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Please describe any dietary restrictions or other special needs you may have

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<tr>
<th>Part 3 – Subtotal</th>
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<tr>
<th>PART 5 – FEES</th>
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<td>Life Members deduct $100.00</td>
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<td>HST 15% (869 924 910 RT2)</td>
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Water for People Fun Run______ @ $25.00
Water for People Fun Walk______@ $25.00

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<tr>
<th>Total Amount Due</th>
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<th>PART 6 - PAYMENT OPTIONS</th>
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<tr>
<td>Choose payment method. Complete as appropriate.</td>
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<tr>
<td>☐ Cheque</td>
</tr>
<tr>
<td>Please make cheque or money order payable to &quot;ACWWA Conference&quot;, Box 28142, Dartmouth, NS B2W 6E2</td>
</tr>
<tr>
<td>CARD HOLDER NAME</td>
</tr>
<tr>
<td>CARD NUMBER</td>
</tr>
<tr>
<td>SIGNATURE</td>
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<tr>
<td>EMAIL ADDRESS</td>
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</tbody>
</table>

WHEN PAYING WITH A CREDIT CARD AN EMAIL ADDRESS IS REQUIRED FOR A RECEIPT TO BE ISSUED

By registering for this event, your contact information may be shared with exhibitors and/or sponsors.

Conference Information
Full conference has a 1.5 CEU value.

Trade Show Information
Each booth measures 8’ x 8’. Booth selection will be online and first come first serve. ABEA members will have exclusive access for one week prior to general public. Contact the ABEA to learn more about becoming an ABEA member (Cathy Cameron at scotiatech.main@ns.sympatico.ca). For trade show questions contact Cathy Cameron at scotiatech.main@ns.sympatico.ca.

***Booth registrations must be paid with Visa or MasterCard at time of booth selection in order to confirm registration***

ACWWA Delegate Cancellation Policy
Cancellations must be received in writing, on company letterhead, and faxed, mailed or emailed to the ACWWA Office. Phone cancellations are not accepted. All cancellations postmarked/fax-dated 14 days in advance of the conference start date will receive a full refund, minus a 10% administrative fee. Cancellations between 7 and 14 days of the conference start will receive a 50% refund. Cancellations less than 7 days in advance of conference will not be refunded. Please note that substitute registrants are welcome. Fax requests for substitutions or cancellations to (902) 435-7796 or email to contact@acwwa.ca.

ACWWA Trade Show Cancellation Policy – Payment Options
Cancellations must be received in writing, on company letterhead, and faxed, mailed or emailed to the ACWWA Office. Phone cancellations are not accepted. All cancellations postmarked/fax-dated 30 days in advance of the conference start date will receive a 50% refund. Cancellations less than 30 days in advance of conference will not be refunded. Please note that substitute registrants are welcome. Fax requests for substitutions or cancellations to (902) 435-7796 or email to contact@acwwa.ca.
SUNDAY, OCTOBER 6
- Golf enthusiasts can begin their 2019 Conference with a day of golf at Lost Creek Golf Course - 10:00 AM shotgun start.
- The Meet and Greet, and annual Water Tower Building Competition, will be held Sunday evening.
- The Water for People Silent Auction will be open throughout the conference, so take the time to look, see and bid (often if necessary!)

MONDAY, OCTOBER 7
Canadian Museum of Immigration at Pier 21 & Lunch at Piatto Pizzeria + Enoteca
9:30 AM – 2:00 PM
- Visit Canada’s National Museum of Immigration. The museum occupies part of Pier 21, the former ocean liner terminal and immigration shed. We will have a guided group tour of the Pier 21 Story, an orientation to the Canadian Immigration Story exhibit, and a viewing of the film “in Canada”. We will meet at the Halifax Marriott Harbourfront Hotel at 9:30 AM and travel to the museum. Our tour will begin at 10:00 AM and will take approximately two hours. We will have time to visit the temporary exhibits and the lovely gift shop. From Pier 21, we will travel a short distance to Piatto Pizzeria for a delicious lunch in a private room. We will have authentic wood-fired pizza, along with dessert, tea or coffee and a glass of wine. The Seaport Farmers’ Market is close by and worth exploring after lunch if you would like.
- Monday evening, join everyone at the ABEA Hospitality Suite. Schooner Room Casino NS, 9:00 PM – 1:00 AM – entertainment provided by Monkey’s Uncle.
TUESDAY, OCTOBER 8
Government House & Ferry to Alderney Landing for Lunch at the Wooden Monkey
9:45 AM – 2:00 PM

- Government House has hosted many Royal Visitors in its 210 year history. It remains one of the single-most important parts of our provincial and national history as the oldest consecutively occupied government residence and one of the oldest such official residences in North America. We will meet at the Halifax Marriott Harbourfront Hotel at 9:45 AM and travel to Government House for a one-hour guided tour. Following the tour, we will travel a short distance to the Halifax Ferry Terminal to take a 15-minute trip across the harbour to Alderney Landing in Dartmouth. We will have a fabulous lunch at the popular Wooden Monkey restaurant in our own private room with a view of the Halifax Harbour. Lunch will include a selection of main dishes to choose from, dessert, tea or coffee and a glass of wine. After lunch, feel free to explore the newly renovated Alderney Landing Ferry Terminal; there are local produce vendors, an art gallery, and many local artisan goods. From here we will take the ferry back to Halifax, where there are many more local shops to browse if you would like.
- Tuesday evening will be the annual Down East Feast with great food and entertainment.
The Atlantic Branch Equipment Association cordially invites all ACWWA Conference delegates and attending members to join us for an evening of music, mingling and munchies at Casino NS - Schooner Room, on Monday October 7th, 2019.

Festivities run from 9:00 PM – 1:00 AM, with music supplied by Monkey’s Uncle – a local favourite.

Check out Monkey’s Uncle on Facebook and Twitter: @monkeysunclehfx

What better way to meet and greet your ABEA Equipment Suppliers, old friends and introduce yourself to someone new.

Please remember your “delegate badge” for admittance to this ABEA member sponsored premiere/private event.
The 2019 Trade Show will be held Tuesday morning, October 8th, 2019, beginning at 10:00 AM, offering 80 booths.

Hands-On Technical Demo

Safe and Efficient Measures When Hot Tapping Pressurized Watermains – Large Diameter

12:30 PM
ABEA Tradeshow Space (Nova Scotia Ballroom)

Presented by Mueller and the City of Charlottetown

This popular event provides the equipment suppliers an opportunity to showcase their products and services, and delegates the opportunity to network with both participants and colleagues.

Prepare to be introduced to the latest technologies and services available to the Waterworks Industry.

The Trade Show will kick off upon the completion of the “Best of the Best” Tap Water Taste Test. At noon lunch will be served, and your ABEA Host Suppliers will provide each attendee with a token of appreciation. This year we will be providing an offering from Acadian Maple Products – continuing our mandate of supporting local artisans.

Allow time to explore and engage... there is something for everyone and more...
We would like to take this opportunity to acknowledge, and say “Thank You” to the many suppliers who support the Atlantic Branch Equipment Association and its many endeavours...

<table>
<thead>
<tr>
<th>ADS</th>
<th>Atlantic Purification Systems Ltd.</th>
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<td>Anthrfilter</td>
<td>Gorman Rupp</td>
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<td>Aqua Data Atlantic</td>
<td>H2Flow</td>
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<td>Honeywell</td>
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<td>BioMAXX Wastewater Solutions</td>
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<td>Opus International Consultants Ltd.</td>
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Contact information for our members, and applications for our Scholarship and Grant Program can be found on www.ABEA.biz
This year, one of the old favourites is back. The Greatario Water Tower Building Competition will take place during the Sunday evening Meet and Greet Reception (Sunday, October 6th, 2019 from 8:30 PM to 9:30 PM). This activity will allow participants the opportunity to better understand how, in this environment of fiscal restraint, utilities manage to solve problems with creative solutions. It will bring out the Mr(s) Fix-it in all of us!

Each team will be given identical materials. The goal of the activity is to build a tower able to balance a 250 mL (8 oz) container of water for 30 seconds. Who will build the tallest, the most creative, the most entertaining? This activity guarantees to challenge your ingenuity while meeting new people.
Join in as we celebrate the 7th annual “Best of the Best” Tap Water Taste Test competition.

Our judges will be looking for the “Best of the Best” tasting water here at the Conference in Halifax, NS. So, bring a sample of your hometown water that you supply to your customers and see where it stacks up against your neighbouring communities.

Atlantic Canadian municipal utilities are invited to submit a water sample to be judged by a panel of water professionals. Samples will be judged on their appearance, odour, taste and overall impression.

The competition, beginning just before the ACWWA/ABEA Tradeshow, will take place from 9:30 AM to 10:30 AM on Tuesday, October 8th, 2019. The first-place winner will have the opportunity to represent ACWWA at the AWWA Annual Conference and Exposition (ACE) “Best of the Best” Tap Water Taste Test in Orlando, Florida in 2020.

Come and find out who has the best tasting water in Atlantic Canada!

Entry forms, rules, and judging criteria are available on the ACWWA Conference website at www.acwwa.ca. Entry forms are due by September 27th, 2019.

For more information, please contact Brad McIlwain at brad.mcilwain@luminultra.com or (506) 471-2591.
The existing Lake Major Dam is a rock-filled timber crib structure which was originally built for a private milling operation in the 1940s. After years of growth, the City of Dartmouth took ownership of the Lake Major Dam, transitioning Lake Major to the primary source of potable water for Dartmouth. In 1996, through the amalgamation that formed the Halifax Regional Municipality, Halifax Water assumed ownership of the dam. In 1999, the Lake Major Water Supply Plant was constructed, bringing the treatment process closer to the supply. In 2012, as part of Halifax Water’s Dam Safety Program, a study concluded that the Lake Major Dam needed to be replaced due to its age and location.

Starting in 2014, Halifax Water began the concept design and environmental approvals process in to complete the replacement project. Construction approval from the regulatory bodies was received in May 2018 with construction starting early June 2018. The dam was designed to be constructed in two halves with the third phase of the project being removal of the existing structure and reclamation of a new stream channel. Halifax Water is currently in the second phase of the construction with scheduled completion in August 2019.

The new dam is a concrete structure, complete with a labyrinth spillway, adjustable weir fish ladder and two low level sluice gates. The dam will be able to maintain a water level of 19.5m, which is approximately 0.5m above the existing dam crest.

Transportation will be provided.
Atlantic Cirque Ltd. has operated in HRM since 2002. It is the biggest circus school east of Montreal and is Atlantic Canada’s first school of Circus Arts and Artist Agency.

The goal of Atlantic Cirque is to introduce circus arts to anyone who is interested. The circus school offers students the opportunity to develop and hone aptitudes like coordination, strength, flexibility, concentration and creativity in a structured and safe environment under the instruction and supervision of circus professionals who trained and performed in Canada, the United States, Asia, Central America, Europe and India.

At Atlantic Cirque offers and incredible range of performances, such as: aerial (trapeze, cerceau, diamond, flying rope, silks, straps), acrobatics, contortion, trampoline, human pyramids, handstand, juggling, hula hoop, unicycle, stilts walking and much more. Join us for a night of wonder filled with exquisite performances by Atlantic Cirque.

Bienvenue au Cirque!
Elevate your experience in Nova Scotia’s bustling capital city with a stay at Halifax Marriott Harbourfront Hotel. Perfectly positioned along the scenic downtown waterfront, offering a seamless blend of style, substance and award-winning service. Contemporary rooms and suites boast pillowtop beds, mini-refrigerators, marble bathrooms and complimentary Wi-Fi access, as well as TVs with streaming capabilities. Fuel up for a busy day in downtown Halifax with a cup of Starbucks® coffee at Balancing Rock Coffeehouse, and enjoy a meal at harbourstone sea grill & pour house for seasonal dishes sourced from here in Nova Scotia. Additional hotel amenities include a tranquil on-site spa, an indoor swimming pool and a fully-equipped gym. Those in Halifax to attend an event can take advantage of our expansive venue spaces, including the largest pillarless ballroom in the city. Thanks to our convenient downtown hotel location, you’re perfectly placed to explore Scotiabank Centre, Casino Nova Scotia and more.
Water for People – Canada (1995) is a charitable, non-profit, international humanitarian organization dedicated to the development and delivery of clean, safe water in developing nations.

Each year, at the Annual ACWWA Conference, funds are raised through various activities to assist with the many projects that are sponsored. These fund-raising efforts have gone a long way to make Atlantic Canada stand out as a tremendous donor among AWWA sections with the Atlantic Chapter, on average, raising approximately $20,000 annually.

Annual events organized by the ACWWA to raise funds for Water For People include the annual Well Tapped Pub Night, The WFP Softball Tournament, and the Charity Silent Auction held each year during the ACWWA conference.

The 72nd Annual ACWWA Conference will host the ever popular Charity Silent Auction. This year, the auction items will be open for viewing throughout the conference, however bidding will only occur during the ABEA tradeshow (Tuesday, October 8th, 2019 from 10:00 AM to 2:00 PM) and will close prior to the technical sessions on Tuesday afternoon.

On Sunday evening during the Meet and Greet Reception (October 6th, 2019 from 7:30 PM to 10:30 PM) we will be creating a fundraising activity around the friendly Greatario Water Tower Building competition.

On Tuesday night, don’t forget about the annual auctioning of tables at the Down East Feast. Those tables with the deepest pockets will be awarded by being served first for the meal!

Do not forget to sign up for the 2017 Fun Run/Walk when registering for the conference! The 5km Fun Run/Walk will be held on Monday at 5:00 PM leaving the Halifax Mariott Harbourfront Hotel and proceeding around the Halifax Waterfront Boardwalk before turning back to the hotel in time for supper on your own.

We look forward to seeing all the attendees at the Conference, and being able to share our passion for such a worthy cause – and thank those who have supported our charity and its past activities.
There's so much to see and do in Halifax, a diverse region located on the edge of Canada. It's where world-class attractions intersect with peaceful relaxation.

Halifax is a diverse region located on the edge of Canada, where rich history borders exciting modern experiences. Halifax is known as Atlantic Canada's Loonie items, there's a reason why Halifax is known as Atlantic Canada's Provincial Park. It's where world-class attractions intersect with peaceful relaxation.

Bedford Basin and Historic Properties are easily walkable areas. Not up for walking? You can always take a cab! Casino Taxi and Yellow Cab are the most popular.

For a full list of ways to get to and around Halifax, visit discoverhalifaxns.com or discoverhalifaxns.com/plan/getting-here-around.

Halifax Citadel is a featured business section.

WATER FOR PEOPLE FUN RUN MAP

GOOD TO KNOWS
- Public Parking
- Free Public WiFi
- Visitor Information Centre
- Post Office
- Church
- Park
- Hospital
- Public Waterfountain
James MacKinnon is the Director of the Housing & Infrastructure Department at Atlantic Policy Congress of First Nations Chiefs Secretariat (APC). James began working at APC as a Junior Policy Analyst in 2012 and has worked diligently to bring awareness to the housing and infrastructure challenges of Atlantic First Nations. Currently, James is working toward a Master’s Degree in Public Administration at Dalhousie University, and holds Bachelor of Science (Chemistry & Sociology) from Dalhousie. Before working at APC, James spent time as an Assistant Chemical Safety Officer with Dalhousie University’s Environmental Health and Safety Office and as a Technical Officer in a Natural Products Chemistry Lab at the National Research Council of Canada.

The Atlantic Canada Water & Wastewater Association holds a presentation competition each year at its Annual Conference. All topics must be related to the water and wastewater profession. We look forward to this year’s exceptional presentations!

The Fresh Ideas program has been developed through AWWA’s Manufacturers/Associates Council and the Young Professionals Committee. The top presentation selected from this group of presenters will be given the opportunity to compete in the Fresh Ideas poster competition at the AWWA Annual Conference and Exposition (ACE), representing the Young Professionals of ACWWA.

Past ACWWA Fresh Ideas Winners Include:

2017 - Dewey Dunningham
2016 - Royata Sidibe
2015 - Stefana Egli
2014 - Timothy Bachiu

2013 - Jeff Diamond
2012 - Ramona Doyle
2011 - Amina Stoddart
2010 - Krysta Montreuil
THANK YOU TO OUR SPONSORS

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CBCL LIMITED
Consulting Engineers
exp.

GOLD

WSP
Halifax Water
APS
STRAIGHT from the SOURCE

SILVER

Meco
Design Point
ENGINEERING & SURVEYING
IPEX
by aliaxis
xylem
Let's Solve Water

BRONZE

MUELLER
Higgins Construction
BUREAU VERITAS
Univar Solutions
ATLCOA
Atlantic Canada Common Ground Alliance