

SERVING



ACWWA Annual Conference
Charlottetown, PEI

OUR NATION



PRINCE EDWARD ISLAND CONFERENCE CENTER

October 15 - 18
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ATLANTIC CANADA
WATER & WASTEWATER ASSOCIATION

American Water Works Association
Atlantic Canada Section

Water Environment
Federation

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Welcome from the Conference Chair



Richard MacEwen, 2017 Conference Chair

Please join us in Charlottetown October 15-18, 2017 for the 2017 ACWWA Annual Conference. A conference you want to attend. The conference organizing committee has been working hard at making this a memorable event as our Nation marks its 150th anniversary.

We are very pleased to be hosting the Annual Conference in Charlottetown at the new Prince Edward Island Conference Center. Located on Charlottetown Harbour in our beautiful Downtown where you can enjoy fine dining experiences, stroll the streets and enjoy a walk along the boardwalk. Charlottetown is the Birthplace of Confederation and listed as the top travel destination in the world by CNN for 2017.

As always, the conference committee has organized a high quality technical program. The technical sessions will run from Monday morning to Wednesday at noon. This year's conference program will be filled with all kinds of favourites like golf (Glasgow Hills Golf Club), Technical tours, ABEA tradeshow, ABEA Hospitality night (Old Triangle with Raglan Road), YP Mixer (Merchantman Pub), Top Ops competition, Water Tower competition, Hands-on technical demonstrations and our Down East Feast.

The water and wastewater industry has played an important role in the development of this great nation over the last 150 years and will continue to be critical to long term prosperity. Come and share your role in the industry and its importance to this great nation in the past and into the future. What innovations have you used or plan to use in the development of your water resource? Did you add a new treatment system? How have you tackled challenges of your distribution or collection systems? How are you recovering resources from previously thought of waste streams? "Serving Our Nation" is your opportunity to showcase projects and solutions on topics ranging from the source of our potable water to the resources recovered at the end of the water journey and everything in between!

Whether you are a utility executive, supplier, consultant, regulator, operator or student be sure to attend this year's ACWWA Annual Conference in Charlottetown. Come reunite with colleagues and friends to share your experiences, expertise and discuss the many ways that we contribute to our great nation Canada.

Message from the ACWWA Chair



Mike Chaulk, 2017 ACWWA Chair

The 2017 edition of the Atlantic Canada Water and Wastewater Association Annual Conference is being held at the Delta Prince Edward, from October 15th - 18th, in historic Charlottetown PEI. On behalf of the ACWWA Board, I'd like to extend a warm invitation to all water and wastewater professionals to attend the 70th annual event, the premiere event for our association.

2017 marks the 150th anniversary of confederation in Canada. Being the birthplace of confederation, we are fortunate to be holding our conference in Charlottetown this year. In recognition of this milestone, our conference theme of Serving Our Nation holds special significance in highlighting the

services provided by the water and wastewater industry both in the past and present.

The ACWWA Annual Conference continues to feature high calibre technical papers, the largest industry trade show in the region, and a multitude of networking events. The PEI organizing committee has worked diligently to assemble all the ingredients necessary to make the conference a success for all attendees, presenters, exhibitors, and companions. The event promises a blend of traditional PEI hospitality, and industry-leading technical information, in the backdrop of a significant national milestone.

I hope to see you in Charlottetown this fall.

Malpeque Pumping Station c.1888 - Courtesy of the City of Charlottetown Archives, Heather McMoe Collection



Miltonvale Pumping Station - 2017





Serving Our Nation, ACWWA Annual Conference 2017 Keynote Address

Our 2017 Keynote address will reflect upon the history of water supply in Charlottetown and speak to the importance of the industry to the wellbeing of Canadians in the past and into the future. Reflections of the past will be presented by Dr. Edward MacDonald, Chair of the UPEI History Department. The significant health benefits provided by the water and wastewater industry will be presented by Dr. David Sabapathy, Deputy Chief Public Health Officer for PEI.

Dr. MacDonald's teaching duties largely encompass Canadian history, broadly speaking: Canadian political history, Atlantic Canada, and Prince Edward Island. His research interests reverse that order, focusing on Island history, but wishing to place it within a comparative context, regionally, nationally, and in terms of island societies. He is also interested in the subject of cultural transference within immigrant groups coming to Atlantic Canada in the 18th and 19th century. He has published many books, most recently; *If You're Stronghearted: Prince Edward Island in the 20th Century*.

Dr. David Sabapathy was appointed as Deputy Chief Public Health Officer for the province of Prince Edward Island in 2014. Dr. Sabapathy is a physician and fellow of the Royal College of Physicians and Surgeons of Canada. He completed his MD and specialist training in Public Health and Preventive Medicine at the University of Calgary, working at Alberta Health Services as well as the World Health Organization. He holds a Master of Business Administration in health care administration, a Master of Science in health services research, and a Clinical Research Fellowship in applied public health research. In his public health practice, Dr. Sabapathy draws on ten years of private sector experience as a professional engineer working in the areas of environmental risk assessment, quality improvement and strategic management. He completed his engineering studies at the University of Prince Edward Island and the University of New Brunswick and maintains licensure with Engineers PEI.



AWWA Officer

Kevin Bergschneider

Vice-President (2016-2018)

Kevin Bergschneider is an Associate Vice-President with HDR Engineering in Denver, Colorado, where he has been employed since 2006. He is also the Water, Wastewater & Water Resources Program Leader at HDR. Kevin has been an active member in the Rocky Mountain Section of AWWA since joining in 2000.

Involved in many of the Section's committees, Kevin has been the Rocky Mountain Section Chair, Trustee and Membership Chair and co-chair of the ACE13 Local Host Committee. On the Association level, he has served on the Board of Directors as a Section Director since 2015. He is also a member of the Membership Committee and past Vice-Chair of the Membership Engagement and Development Committee.

Kevin holds a BS in Electrical Engineering from the University of Texas, Austin. He received the Fuller Award in 2015, the diamond Pin Recruitment Award in 2002 and 2005, and the Lyle D. Herman Distinguished Public Service Award in 2002.



AWWA Representative

Michael Man

Senior Section Relationship Manager

Mike Man is a Senior Section Relationship Manager with the American Water Works Association (AWWA). In this role, he consults on association management and strategy with 12 of AWWA's Sections, or chapters, across North America.

Prior to AWWA, Mike worked with various nonprofits and associations in Washington, DC, primarily on business analysis and organizational development. He has extensive experience in governance, leadership, and decision making processes in organizations of various sizes. Past projects have included business re-engineering, change management, and meaningful use of data.

Mike holds a BA in Cultural Anthropology from the University of Mary Washington and an Executive Certificate in Nonprofit Management from Georgetown University.

WEF Representative

Lynn Broaddus
2016-2017 Trustee



Lynn Broaddus is a member of the 2016-2017 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Lynn is president and founder of Broadview Collaborative, Inc., a private sector endeavor that assists clients with sustainability issues around water, energy, and food. She is the former director of the Environment Program of the Johnson Foundation at Wingspread, where she was charged with reshaping the foundation's environmental programming. In that role she directed a number of water-related reports, including the nationally recognized "Navigating to New Shores" that was released at WEFTEC 2014, and the nutrient management and recovery guide that she wrote in cooperation with WEF.

Prior to joining The Johnson Foundation, Lynn served for six years as executive director of Milwaukee Riverkeeper® and spent 12 years working for The Nature Conservancy and a related organization, NatureServe, where she negotiated the first set of national data-sharing agreements

among the nation's Natural Heritage Programs. Earlier career experiences included energy conservation program work in the low-income neighborhoods of Lawrence, Mass., and teaching biology and mathematics in rural Virginia. Lynn is currently board chair of the River Network and vice chair of the Board of Visitors of the Nelson Institute for Environmental Studies at the University of Wisconsin, and a non-resident fellow with the Metropolitan Policy Program of the The Brookings Institution.

About WEF

The Water Environment Federation (WEF) is a not-for-profit technical and educational organization of 33,000 individual members and 75 affiliated Member Associations representing water quality professionals around the world. Since 1928, WEF and its members have protected public health and the environment. As a global water sector leader, our mission is to connect water professionals; enrich the expertise of water professionals; increase the awareness of the impact and value of water; and provide a platform for water sector innovation. To learn more, visit www.wef.org.

CWWA Representative

Robert Haller

Executive Director, CWWA



Robert Haller is the executive director of the Canadian Water and Wastewater Association, which is THE national voice of the water and wastewater sector in Ottawa. Robert took on this national leadership role after almost 20 years as a senior municipal administrator - most of those years serving as a CAO for small and medium sized communities.

With a Geography degree from Carleton and an MPA from Western, he now serves as the spokesperson for the Canadian water sector at the national level. He admits he relies heavily on his many members for their expertise and support; especially on technical matters of treatment methods. Robert's interests lean more toward the utility management issues and facilitating national dialogue and information sharing.

Robert served as a municipal advisor to the most recent RBC Public Attitudes Survey and represented the water and wastewater sector as an advisor to the Canadian Infrastructure Report Card. Robert recently coauthored "Public Attitudes 2015" as a starting point for public education plans around infrastructure. The CWWA is now leading a national project, with their provincial partners, to develop tools to support utility leaders on issues around asset management and infrastructure renewal.

Conference Highlights

10.15.17

SUNDAY

10:00am ABEA Golf Tournament at Glasgow Hills Resort and Golf Club

1:00pm - 4:30pm Young Professionals Seminar

2:00pm - 5:00pm Charlottetown - Great Things Happen Here Tour

5:00pm - 7:00pm Young Professionals Mixer

- Merchantman Fresh Seafood & Oyster Bar

7:30pm Meet and Greet Reception

10.16.17

MONDAY

7:30am Breakfast available - Continental

8:30am Conference Opening

- Fuller/Bedell/MacNab Awards ceremony

- Keynote Address: Speakers Dr. Edward MacDonald & Dr. David Sabapathy

10:00am - 11:30am Technical Sessions

11:00am Companion Program (Lunch/East Coast Art Party) – meet in hotel lobby

12:00pm (noon) Annual General Meeting Luncheon

1:30pm - 3:00pm Technical Sessions (Demos)

3:30pm Top Ops Competitions (Water & Wastewater)

5:00pm Water for People Fun Run Walk

5:00pm Dine on your own – Enjoy the restaurants of Downtown Charlottetown

9:00pm ABEA Hospitality Night at The Old Triangle Pub with Raglan Road Band

10.17.17

TUESDAY

7:30am Breakfast available - Continental

8:00am ACWWA Best of the Best Taste Test

9:00am - 1:00pm ACWWA / ABEA Tradeshow / Luncheon

11:00am Companion Program (Rum Runner Tour/Lunch) – meet in hotel lobby

1:30pm - 4:30pm Technical Sessions

6:30pm Down East Feast and Entertainment

10.18.17

WEDNESDAY

8:00am Awards Breakfast - Buffet

9:30am - 11:00am Technical Sessions

2017



Annual Golf Tournament

Glasgow Hills Resort and Golf Club

"A four star rated course by Golf Digest and listed in the top 70 golf courses in Canada from the readers of The Globe and Mail.

The course takes full advantage of the elevation changes by offering stunning panoramic views of the PEI countryside, River Clyde and Gulf of St. Lawrence in a truly extraordinary setting."

With that in mind, we welcome you to join us for our Annual Golf Event being held on October 15, 2017 and sponsored by the ABEA, and its individual members.

Tee times commence at 10:00am, with a shotgun format.

\$70.00 (Green fees, shared cart & range balls)
+ tax

Put your team together, or we will be pleased to place you with a group – all ability levels welcome. Rental clubs are available for an additional fee (arrangements to be made directly with the course)

GLASGOW
HILLS



PRINCE EDWARD ISLAND

glasgowhills.com

98 Glasgow Hills Road
New Glasgow, PE
(902) 621.2200

*Please note that only those registered by August 15, 2017 will be guaranteed "swag"



Young Professionals

Young Professionals Seminar

The Young Professionals (YP) Committee is inviting conference attendees to sign-up for the Young Professionals Seminar, which is being held from 1:00pm - 4:30pm on the opening day of the Conference, Sunday October 15, 2017. The event will feature presentations by several industry leaders on a range of topics related to career development in the water and wastewater industry, and it will include several networking and skill-building activities. It will also provide an excellent opportunity to meet other YPs before everyone heads to the YP Mixer later in the evening. All Seminar 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.

Young Professionals Mixer

Join us at Merchantman Fresh Seafood & Oyster Bar from 5:00pm - 7:00pm for our Young Professionals (YP) event! 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.

Merchantman Fresh Seafood & Oyster Bar is located at 23 Queen Street, which is just a short walk from the conference host hotel.



Technical Program

10.16.17

MONDAY

	10:15AM - 10:45AM	10:45AM - 11:15AM	11:15AM - 11:45AM
TECHNICAL SESSION: A1	Emerging Issues with Lead: A Canadian Perspective	Culture Shift: The Challenges of Developing a Comprehensive Lead Service Line Replacement Program While Minimizing Impacts to Public Health	Improving Lead Digestion Techniques in Drinking Water Samples
<i>MODERATOR:</i> ARCHIBALD	Graham Gagnon, Dalhousie University	Reid Campbell, Halifax Water	Zewen Zhang, Dalhousie University*
TECHNICAL SESSION: A2	REGEN: Next Generation Solutions in Decentralized Wastewater Treatment	Hawkesbury: First HYBAS Plat in Canada	A Compact, Efficient and Expandable Title 22 Treatment System for Small Water Systems
<i>MODERATOR:</i> CAMPBELL / CARTIER	Mike Deighan, Island Water Technologies	Bradley Young, Veolia Water Technologies*	Peachie Maher Hytowitz, Amiad Water Systems
TECHNICAL SESSION: A3	Nitrate Monitoring and Management Strategies for the Village of Port Williams	Assessment of the Role of Low Impact Development on Groundwater Recharge using Coupled Models	Storm Water Management: Underground Storage at the Moncton Event Centre
<i>MODERATOR:</i> LANGEVIN / TILLEY	Jess Younker, Acadia University*	Eva Mooers, Dalhousie University	Philippe Losier, Solenio
	1:30PM - 2:00PM	2:00PM - 2:30PM	2:30PM - 3:00PM
TECHNICAL SESSION: B1	Geizer 1589 Reservoir Rehabilitation	Managing a 100 Year Old Cast Iron Pipeline for Another 100 Years - City of Hamilton Case Study	Modernization of the Chatham Water Distribution System
<i>MODERATOR:</i> ARCHIBALD	Kevin Healy, Halifax Water*	Cameron White, Pure Technologies Ltd.	Darren Row, City of Miramichi
TECHNICAL SESSION: B2	Wastewater Pumps with Integrated Intelligence	3D Scanning of Combined Sewer Overflow Structures	Maintenance Hole Rehabilitation
<i>MODERATOR:</i> CAMPBELL / CARTIER	Kristel Zaman, Xylem Inc.	Heather Miller and Kevin Brown, Halifax Water	Kevin Bainbridge, Robinson Consultants
TECHNICAL SESSION: B3	Leveraging Wastewater Intensification Growth Studies to Enhance Long Term Strategic Infrastructure Planning	You Have Funding! Now What?	Geotextile Dewatering Systems
<i>MODERATOR:</i> LANGEVIN / TILLEY	James Jorgensen, GM BluePlan Engineering	Stephen Matthews & James Blackwood, COLLIERS PROJECT LEADERS & Town of Gander	Paul Saulnier and Kevin Bossy, Scotia Tech Fluid Services Ltd.

* Fresh Ideas presenters are a first time Young Professional participant at the ACWWA section conference presenting a water related topic, and will be considered for the Fresh Ideas program that 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 2018) in Las Vegas, Nevada, representing the Young Professionals of ACWWA. Along with complimentary conference registration provided by the ACE 2017 organizing committee, ACWWA will provide the winner with a stipend to assist with travel costs to the conference.

10.17.17

TUESDAY

1:15PM - 1:45PM

1:45PM - 2:15PM

2:15PM - 2:45PM

TECHNICAL SESSION: C1

MODERATOR:
ARCHIBALD

Year in Review and What's New at Water Research Foundation

Jennifer Warner,
Water Research Foundation

Chemistry of Chlorine and Chlorine Monitoring

Randy Turner,
Swan Analytical USA

Improving Lead Digestion Techniques in Drinking Water Samples

Zewen Zhang,
Dalhousie University*

TECHNICAL SESSION: C2

MODERATOR:
CAMPBELL / CARTIER

Use of Membrane Adsorbent Bioreactor (MABR) Technology for the Removal of Phosphorus in Municipal Wastewater Systems

Sadman Soumik,
Dalhousie University

Mill Cove WWTF UV Upgrade

Robert Gillis,
Halifax Water

Inactivation of E.coli by UV Light Emitting Diodes: A Review and Initial Steps for Implementation in Rural Communities in Nunavut

Carolina Ontiveros,
Dalhousie University*

TECHNICAL SESSION: C3

MODERATOR: LANGEVIN / TILLEY

AWWA C502 Fire Hydrants - Common Repairs

Mike Duguay, Clow Canada

3:00PM - 3:30PM

3:30PM - 4:00PM

4:00PM - 4:30PM

TECHNICAL SESSION: D1

MODERATOR:
ARCHIBALD

Lessons Learned Mapping Critical Pressure Pipelines - City of Ottawa Case Studies

Cameron White,
Pure Technologies Ltd.

Water Header Pressure Controls

Edward Scott,
Rockwell Automation

Automated Flushing Technology Advances Water Quality

Jeff Jensen,
Mueller Canada

TECHNICAL SESSION: D2

MODERATOR:
CAMPBELL / CARTIER

Ammonia Permits and Lagoons: Atlantic Canada's WWTFs and the Options Available for Beating Limits

Martin Hildebrand,
Nexom

Eliminating Ammonia Toxicity from Lagoon Effluents at Temperatures as Low as 1 degC

Bradley Young,
Veolia Water Technologies*

Using Cloth Disk Filters for Phosphorus Removal: Lessons from Sundridge, Ontario

Martin Hildebrand,
Nexom

TECHNICAL SESSION: D3

MODERATOR:
LANGEVIN / TILLEY

Capital Planning and Inventory Tool: Asset Management of Wastewater Pumping Stations

Kyle MacIntyre,
Dillon Consulting Ltd.*

Asset Management - A Case Study Comparing Submersible and Above Grade Lift Stations

Micheal Tuel,
Smith and Loveless

Installation of Annular Seals to Prevent Clogging of Transfer Pipes With Slurry Material

Stephen Bradle,
Winters Instruments

10.18.17

WEDNESDAY

9:30AM - 10:00AM

10:00AM - 10:30AM

10:30AM - 11:00AM

TECHNICAL SESSION: E1

MODERATOR:
ARCHIBALD

Using Lake Sediment to Predict Future Treatment

Dewey Dunnington,
Dalhousie University

Freshwater Mussels Serving our Nation: The Unsung Heroes of Potable Water Filtration in Canada

Anthony Mazzocca,
CBRM

Tree-specific Effects of Canopy Passage on Acidity and Electrical Conductivity of Rainwater in CBRM Watersheds

Anthony Mazzocca,
CBRM

TECHNICAL SESSION: E2

MODERATOR:
CAMPBELL / CARTIER

Smart Sewers: an Emerging Strategy for Modern Canadian Cities

Ali Ahmadi,
University of Prince Edward Island

Corporate Flow Monitoring Program

Heather Miller,
Halifax Water

Using a Flow Analysis Tool to Better Understand the Performance of a Wastewater System

Bryan Bortolon,
GM BluePlan Engineering

TECHNICAL SESSION: E3

MODERATOR:
LANGEVIN / TILLEY

Water Act for PEI

George Somers, PEI Department of Communities, Land and Environment

Managing Water Supplies through the Drought of 2016

John Eisnor,
Halifax Water

Environmental Risk Assessments: New Brunswick Implementation of the CCME Canada-wide Strategy for the Management of Municipal Wastewater Effluent

Scott Lloy, NB Department of Environment & Local Government

ACWWA Conference Registration

PART 1 – CONFERENCE ATTENDEE GENERAL INFORMATION

FIRST NAME		LAST NAME		ORGANIZATION	
MAILING ADDRESS				CITY	
PROVINCE	COUNTRY	POSTAL CODE		AWWA MEMBERSHIP NUMBER	
PHONE		FAX		WEF MEMBERSHIP NUMBER	
REGISTERED COMPANION/SPOUSE			EMAIL ADDRESS		
Check box if you would like to be added to the ACWWA email list <input type="checkbox"/>					
Sector <input type="checkbox"/> Utility <input type="checkbox"/> Supplier <input type="checkbox"/> Contractor <input type="checkbox"/> Consultant <input type="checkbox"/> Student <input type="checkbox"/> Academic <input type="checkbox"/> Regulator <input type="checkbox"/> Other					

PART 2A – DELEGATE REGISTRATION

Full Conference Delegate – Includes all Meals On or Before Sept. 15, 2017	<input type="checkbox"/> Member – \$475	<input type="checkbox"/> Non-Member – \$525	\$
Full Conference Delegate – Includes all Meals After Sept. 15, 2017	<input type="checkbox"/> Member – \$575	<input type="checkbox"/> Non-Member – \$625	\$
Companion/Spouse Program – Includes all Meals	<input type="checkbox"/> Member/Non-Member – \$275		\$
Student (Includes Meet & Greet, Lunches, Awards Breakfast and Trade Show)	<input type="checkbox"/> Member/Non-Member – \$100		\$
Monday Full Day Pass (Includes AGM Lunch and ABEA Hospitality Reception)	<input type="checkbox"/> Member – \$250	<input type="checkbox"/> Non-Member – \$275	\$
Tuesday Full Day Pass (Includes Trade Show & Lunch and Down East Feast)	<input type="checkbox"/> Member – \$250	<input type="checkbox"/> Non-Member – \$275	\$
Tuesday 1/2 Day Trade Show Pass (Includes Trade Show Lunch)	<input type="checkbox"/> Member – \$125	<input type="checkbox"/> Non-Member – \$150	\$
Register before September 1 and be entered for the early bird draw			Part 2 – Subtotal
			\$

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

Sunday, October 15		Please indicate attendance by checking box	
Golf (transportation not included)	Shirt: S__ M__ L__ XL__ XXL__	___ @ \$70 =	\$
Tour – Charlottetown – Great Things Happen Here; Birth of the Nation, Water Supply & Resource Recovery		___ @ \$15 =	\$
Honorary Islander		___ @ \$10 =	\$
YP Workshop – Registration is free – please indicate if you are attending		Yes	No
Tuesday, October 17			
Down East Feast – Included in Delegate/Companion Registration Fees	Additional Tickets ___ @ \$100		\$
Please indicate meal choice for Down East Feast for Delegate/Companion	Lobster ___	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

Booth Rental (Max 3 Booths & 2 People/Booth)	ABEA Member – ___ Booths @ \$500	Non-Member – ___ Booths @ \$850	\$
EXHIBITOR'S NAME	EXHIBITOR'S NAME	EXHIBITOR'S NAME	
EXHIBITOR'S NAME	EXHIBITOR'S NAME	EXHIBITOR'S NAME	
Extra Booth Exhibitor Registration (includes Meet & Greet, ABEA Hospitality Reception and Trade Show Lunch)	ABEA Member – ___ @ \$75	Non-Member – ___ @ \$100	\$
EXHIBITOR'S NAME	EXHIBITOR'S NAME	EXHIBITOR'S NAME	
Part 3 – Subtotal			\$

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

Sunday, October 15			
Golf (transportation not included)	Shirt: S__ M__ L__ XL__ XXL__	___ @ \$70 =	\$
Tour – Charlottetown – Great Things Happen Here; Birth of the Nation, Water Supply & Resource Recovery		___ @ \$15 =	\$
Exhibitor Booth registration <u>does not</u> include the full conference or meals. To attend full conference, register as a Delegate in Part 2			

Monday, October 16			
Pick-up Continental Breakfast	Exhibitor ____ @ \$25	\$	
Annual General Meeting Luncheon	Exhibitor ____ @ \$60	\$	
Tuesday, October 17			
Pick-up Continental Breakfast	Exhibitor ____ @ \$25	\$	
Down East Feast	Exhibitor ____ @ \$100	\$	
Please indicate meal choice for Down East Feast	Lobster ____	Chicken ____	Beef ____
Wednesday, October 18			
Awards Breakfast	Exhibitor ____ @ \$35	\$	
Please describe any dietary restrictions or other special needs you may have		Part 3 – Subtotal	\$

PART 4 - TOP OPS COMPETITION REGISTRATION				
Top Ops Team Registration	<input type="checkbox"/> Water	<input type="checkbox"/> Wastewater	____ Team @ \$50.00	\$
To complete team registration contact Trent Brewer at (506) 460-2066 or trent.brewer@fredericton.ca			Part 4 – Subtotal	\$

PART 5 – FEES	
Subtotal	\$
Life Members deduct \$100.00	\$
HST 15% (869 924 910 RT2)	\$
Water for People Fun Run/Walk____ @ \$25.00	\$
Total Amount Due	\$

PART 6 - PAYMENT OPTIONS			
Choose payment method. Complete as appropriate.			
<input type="checkbox"/> Cheque	<input type="checkbox"/> Money Order	<input type="checkbox"/> Visa	<input type="checkbox"/> Mastercard
Please make cheque or money order payable to "ACWWA Conference", Box 28142, Dartmouth, NS B2W 6E2			
CARD HOLDER NAME			
CARD NUMBER		EXPIRY	
SIGNATURE			
Fax: 902-435-7796 or Email: contact@acwwa.ca		EMAIL ADDRESS	
WHEN PAYING WITH A CREDIT CARD AN EMAIL ADDRESS IS REQUIRED FOR A RECEIPT TO BE ISSUED			

Conference Information

Full conference has a 1.5 CEU value.

Trade Show Information

Each booth measures 8' x 10' in the main ballroom and 6' x 10' in the hallway/lobby. 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 Tradeshow 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 31 days in advance of the conference start date will receive a full refund, minus a 10% administrative fee. Cancellations between 14 and 30 days of the conference start will receive a 50% refund. Cancellations less than 14 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.

2017
ACWWA

Companions Program



2017 ABEA Annual Golf Tournament Meet and Greet

For golf enthusiasts attending the conference, our annual event will begin at the Glasgow Hills Resort and Golf Club in New Glasgow on Sunday.

The Meet and Greet will be held Sunday evening where you will have the opportunity to catch up with past acquaintances and introduce yourself to new attendees.



East Coast Art Party!

Monday we will be testing our art skills at an East Coast Art Party! Our party will begin next door at the Merchant Man Café for lunch and the Art Party. Following the art party there will be free time to explore the many downtown shops, galleries and Canada 2017 attractions.

What you can expect at our Art party:

- Trained artists will guide you through creating your very own unique masterpiece. You will be guided brushstroke by brushstroke, from blank canvas to your own special piece of original artwork, all while enjoying a few cocktails to help get the creative juices flowing. At the end of the approximate two hour party you get to bring home your masterpiece to show off to all your family and friends!
- Absolutely no painting experience is required



Rum Runner Tour

Tuesday we are going to start off the morning singing with a Rum runner musical walking tour of downtown Charlottetown. The tour will be an entertaining hour guided by experienced in costumes actors playing the role of Captain and Mrs. Dicks from the famous rum running ship the Nellie J Banks. We will end this tour with a shot of the demon rum. After working up an appetite we will be stopping at one of our wonderful downtown restaurants. There will be time for shopping after lunch at many of the downtown shops pointed out by our tour guides.

In 1864 the Island's temperance movement was in full operation with efforts to ban the demon rum and to reduce the amount of alcohol consumption on PEI. This eventually led to the prohibition act of 1900,

which banned all alcohol. From the temperance and prohibition efforts the rum running trade rose to great heights on PEI. This was a time of great stories, folklore and song.

This unique walking tour for groups, incorporates the best of historic Charlottetown with our rich rum running history. Delivered by experienced actors (Hank and Rowena Stinson) in costume playing the role of Captain and Mrs. Dicks, the Captain of the famous rum running ship the Nellie J Banks. They deliver a lively, entertaining, historic walking tour, which blends music and stories written specifically for this tour with interesting folklore and historic sites of Charlottetown. Come out and experience a unique Musical, historic walking tour Experience.

10th Annual ABEA Common Hospitality Reception

Welcome... Bienvenue... Fáilte...



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 The Old Triangle Pub on Monday October 16, 2017. This multi-level venue offers ample opportunity to enjoy the music, or share in a lively conversation with friends and colleagues.

<http://www.oldtrianglecharlottetown.com/welcome/>

Festivities begin at 9:00pm, with music supplied by Raglan Road..."Jason Martell, Gary Gosse and a kitchen party just waiting to happen."

<http://facebook.com/raglanroadmusic>

A wonderful opportunity 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 premier/private event.

The Old Triangle Pub is located at
189 Great George Street, Charlottetown





2017 ACWWA & ABEA Tradeshow

The 2017 Trade Show will be held Tuesday morning, October 17, 2017, beginning at 9:00am, offering 88 booths – Our largest Trade Show to date!

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 offer lunch, as well as the ABEA attendee gift – where our mandate is to support our local artisans.

Allow time to explore and engage... there is something for everyone and more.



2016/2017



Host Suppliers

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...


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EEP Technical Solutions
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Hetek
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Current ABEA Board

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Director/Liaison **Catherine Cameron**

.....
Contact information for our members,
and applications for our Scholarship
and Grant Program can be found on
www.ABEA.biz

 Please join us for the Annual
Common Hospitality Event,
Golf at Glasgow Hills and the
Tuesday morning Trade Show.



Meet & Greet: Honourary Islander

What happens when you meet these three milestones:

1. Enjoy an oyster from the shores of PEI (protected by excellent wastewater treatment plant operators).
2. Enjoy an island beverage made of mostly great quality municipally supplied water. We recommend a local craft beer or soda.
3. Don an Anne wig and have the image secured forever in your memories of PEI and your favourite social media site.

You become an Honorary Islander. Participate in the fun, have a laugh, receive a beverage ticket, encouragement for the oyster slurp (if you're a first timer), loan of an Anne wig and know that the proceeds of the event are going to support Water for People.

Water Tower Building Competition

With the success of the inaugural "Greatario Water Tower Building Competition" in Moncton last year, Charlottetown is delighted to host the 2nd annual competition during the Sunday evening Meet and Greet. 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.

The activity will consist of teams of three given identical materials with the goal being: to build a tower able to balance an 8 oz (250ml) container of water for 30 seconds. Who will build the tallest, the most creative, the most entertaining? Not only will your ingenuity be challenged, but you may meet a new friend as well.



GREATARIO
Engineered Storage Systems

2017 ACWWA Top Ops Competition

Are your operators the best of the best? What better way to show them off but to enter a team in the ever popular Top Ops competition. Entering its 12th year at the ACWWA Annual Conference, teams will once again go head to head to test their knowledge and get in on the fun in a fast paced, "Reach for the Top" style contest for water & wastewater operators.

Spectators should expect to see some of Atlantic Canada's best water & wastewater operators "match wits" as they compete in the Top Ops championship. If you have ever sat in the audience watching the competition and surprised yourself by knowing a lot of the answers to the questions or maybe you just want to test your knowledge against your peers, why not enter a team in this year's competition?

New this year will be a revised format where teams will answer questions using a white board. This will replace the traditional buzzer system, and take speed out of the equation in terms of teams answering questions. So if you know the answers, you will earn points! We are excited to see how this change will add to the competition. Look for some very close and competitive results!

For further information, or to register a team in either the water or wastewater Top Ops competitions, please contact Trent Brewer at trent.brewer@fredericton.ca or at (506) 460-2066.

ACWWA Best of the Best Taste Test

Join in as we celebrate the 5th annual "Best of the Best" water taste test competition.

Our Judges will be looking for the "Best of the Best" tasting water here in Charlottetown, PE. So, bring a sample of your hometown water you supply to your customers and see where it stacks up against your neighboring communities. Let our judges be the judges!

Atlantic Canadian Municipal Utilities are invited to submit a water sample to be judged by a panel of media and water professionals. Samples will be judged on the appearance, odour, taste and overall impression. The competition will take place at the Awards Breakfast before the ABEA Tradeshow on Tuesday, October 17, 2017. The first place winner will have the opportunity to represent ACWWA at the AWWA Annual Conference and Exposition (ACE) "Best of the Best" Taste Test in Las Vegas in 2018.

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 October 6, 2017. For more information, please contact Morley Foy at mmmfoy@gov.pe.ca or (902) 368-5036.



Technical Tour

Join us for an unforgettable double-decker bus tour of the beautiful historical City of Charlottetown. You'll be left with visions of days that saw the creation of our great Nation; Great George Street where the founding fathers walked to Province House for discussions and beverages. You'll see the infrastructure that has helped to develop Charlottetown into the thriving City it is with a stop at one of our first water supply sources; Malpeque Station established in 1888. See the artesian well and station house that are still maintained and ready for emergency water supply. You'll also have the opportunity to visit the recently commissioned Miltonvale Wellfield and Water Supply Reservoirs posed to provide water for the next 100 years and beyond. We'll share with you the design considerations taken into account to ensure reliability and manageable operations costs. You will also see the upgrades taking place at the Charlottetown Pollution Control Plant as it begins its transformation into the Charlottetown Resource Recovery Facility. Please join us for a tour that will provide insight into history as well as water and wastewater infrastructure.



Down East Feast Entertainment



We have a premier Prince Edward Island Entertainment Experience planned all evening long as we create a mini-ECMA festival experience.

Traditionally after "Downing The Feast" people stay in their seats or retire to their room for the night. We want to change that and, if dancing is not your style, the line-up and venue we have created will get you up and moving around the room and through the halls while having the opportunity to socialize with other conference attendees and stopping to listen to east coast music.



Atlantic String Machine

The Atlantic String Machine was formed in April 2015 and are based on Prince Edward Island. The group is made up of five musicians with

considerable professional experience in a number of musical genres, having performed worldwide with internationally recognized symphony and chamber orchestras, ensembles, bands and individual artists. They have recently joined together to present a wide range of music from classical to jazz, pop, world music and their own compositions.



Meaghan Blanchard

Meaghan is a two-time, East Coast Music Award winning artist who has toured extensively across Canada, the US and the UK, and she

is still just in her 20's. She is a gifted guitarist, with her own blend of claw hammer/finger picking style, and she pairs that with a crystal pure voice and a unique ability to write and tell stories through charming character-driven songs.



J.J. Chaisson

Prince Edward Island's J. J. Chaisson is without any doubt a talented multi-instrumental musician. He has collaborated on award-winning recordings, acted as

front man for a Celtic rock band, and toured widely as a solo artist. It is not possible to put into words what this young man does with his fiddle and guitar.



Ten Strings and a Goat Skin

Hailed on two continents as "infectious" and "the best of contemporary/traditional Celtic music" Ten Strings And A Goat Skin is a bilingual

trad/folk/fusion trio, playing Irish, Acadian, French and original creations infused with modern and world rhythms. The band creates a fiery, contagious and unique sound which leaves audiences wanting more.



water for people
CANADA

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. At the 2016 Annual Conference, upwards of \$25,000 was raised in the name of Water for People.

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 Auction held each year during the ACWWA conference.

The Silent Auction is open throughout the Conference and closes prior to the Down East Feast on Tuesday evening. This year, additional fundraising activities will be held in conjunction with the Greatario Water Tower building competition.

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 p.m. leaving the Delta Prince Edward and proceeding around the Victoria Park Boardwalk before turning back to the hotel in time for supper on your own.

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!

We look forward to seeing all of the attendees at the Conference and being able to share our passion for such a worthy cause and thanking those who have supported our charity and its past activities.



Photo Credit: Meetings & Conventions PEI

Conference Hotel Information

The conference will be held at the Conference Centre adjoining the Delta Hotels Prince Edward located at 18 Queen Street in downtown Charlottetown.

A special conference room rate of \$199 to \$219 plus taxes per night is in place until September 15th. Reservations can be made using the link on ACWWA's website www.acwwa.ca or calling 902-566-2222.

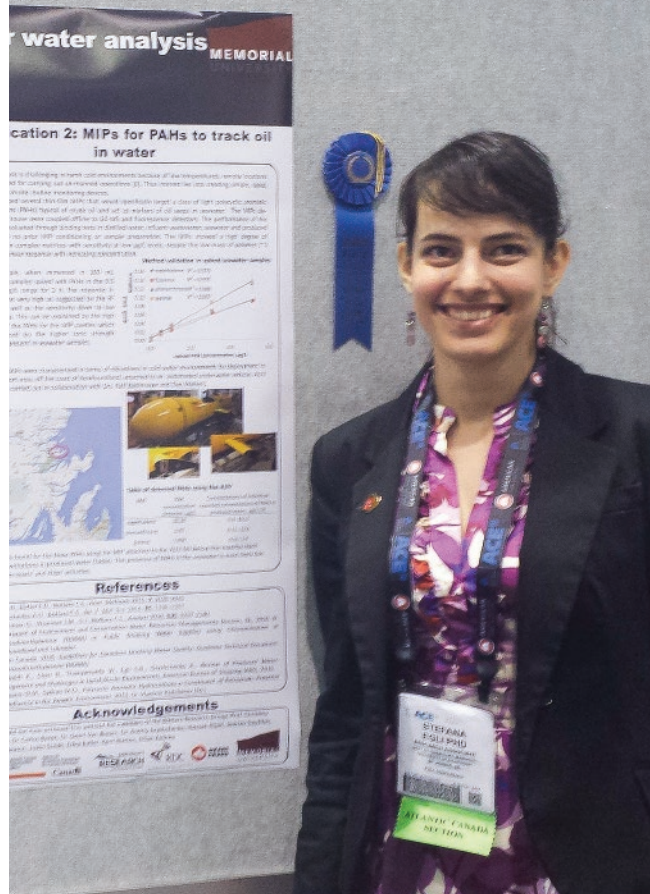
Please Reserve your room by September 15th to receive the special conference rate. Be sure to tell the hotel reservation desk that you are in the ACWWA block rate.

ACE16 Fresh Ideas Winner

ACWWA is proud of its first Fresh Ideas winner at the 2016 AWWA Annual Conference and Exposition (ACE). Stefana Egli was first place winner in the Fresh Ideas poster competition held last June in Chicago, IL.

Stefana presented her group's paper "Thin-film molecularly imprinted polymers for water analysis" at the 2015 ACWWA Conference held in St. John's, NL. The presentation was based on the group's work to develop thin-film molecularly imprinted polymers (MIPs) that target various classes of organic compounds associated to oil spills in water. The presentation won the Fresh Ideas award giving her the opportunity to compete at ACE 2016.

Congratulations, Stefana!



Royata receiving her award from Aurel Arndt (AWWA Treasurer 2016-2020) and Amy Winchester (ACWWA First Vice-Chair)

ACWWA 2016 Fresh Ideas Winner

Congratulations to Royata Amadou Sibidé (Veolia Water Canada) who won the Fresh Ideas award at the 2016 ACWWA Conference in Moncton, NB. Royata's presentation "Optimisation du Lagunage du Quartier Nord de la Ville de Sackville" gives her the opportunity to compete in ACE17's Fresh Ideas poster competition.

Good luck in Philadelphia, Royata!

To view Royata's presentation, visit www.acwwa.ca



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