



2023 **ACWWA ANNUAL CONFERENCE**

Charlottetown, PEI October 15-17

INSIDE:

- Call for Instructors
- The Significance of Inflow and Infiltration

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ATLANTIC CANADA WATER & WASTEWATER ASSOCIATION

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Atlantic Canada Water & Wastewater Association

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MESSAGE THE CHAIR



Taking a moment

fter what seems like a long winter, summer has finally arrived, and I hope that everyone has an opportunity to take some time to relax and experience the beauty of the Atlantic provinces or wherever your adventures will take you. While enjoying your summer, take a moment to capture the memories with a photo of yourself and/or a family member and "water," and then enter it into the annual ACWWA photo contest. Remember the deadline to enter the contest is September 8, 2023.

"We are hoping to build upon the success of our last conference."

The winning photos and a selection of the submitted photos will be used to create the 2024 ACWWA calendar, which is very popular among our members; more information can be found at www.acwwa.ca.

While I don't want to wish our summer away, this is a good time to plan to attend the ACWWA Annual Conference, which will be held in Charlottetown, PE, from October 15–17.





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This is our local association's annual conference and tradeshow which provides the opportunity to learn about the latest technology and developments in the water and wastewater industry within our region. In 2022 the conference returned to an in-person format which was a great success as everyone enjoyed the social interactions with friends and colleagues. Planning is well underway for this year's event, and we are hoping to build upon the success of our last conference - more information is included in this issue of Go With the Flow magazine. And remember to register early; not only will you save on the conference registration, but if you register prior to the early-bird deadline you will also be entered into a draw for a Visa gift card.

Finally, I would like to offer my sincere thanks to the WEFMAX committee chair Dave Galbraith and committee members Cathy Cameron, John Lam, Heather Patriarche, and Clara Shea for arranging the WEFMAX event that was recently held in in Charlottetown, PE. This was my first time participating in this event, and it was great experience that provided me with some new ideas that can be incorporated into both my role with the ACWWA and my professional career. The event was attended by members from Canada and the United States, and overall it was a great success which received many positive comments and created some great memories.

I wish everyone a safe and happy summer! 🗳

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All about WEFMAX and WEFTEC *From Charlottetown to Chicago*



ummer is finally here... it is time to start thinking about registering for WEFTEC. But first, let me tell you – we had an awesome time in Charlottetown, PEI where we hosted a WEFMAX event from May 24–26. We had 60 people from all over the USA and Canada in attendance. Special thanks to our ACWWA Board for supporting this event with several attending: Clara Shea, Jason Phillips, Catherine Cameron, Michael Abbott, Julie Stokes, Lindsay Anderson, John Lam, Heather Patriarche from AFNWA, and Richard MacEwen from

the City of Charlottetown. Each person had an active role in planning and running the WEFMAX. I am very appreciative of all the work you all put into this event. We were very fortunate to have Carl Yates provide an overview of the Atlantic First Nations Water Authority at our meet and greet. A big shout out to Julie Stokes – "Women in Leadership Roles" – and Lindsay Anderson – "Emerging Leaders" – for your great presentations at WEFMAX.

We would not be able to host such an event without the support of our great sponsors.













"WEFTEC is the largest annual water quality event in the world."

It is time to start planning to attend WEFTEC in Chicago. This is a great opportunity to visit with all the key manufacturers in the water and wastewater industry and connect with many other like-minded individuals. You will find hundreds of opportunities to take in technical presentations and learn about important trends and issues that may affect us all.

WEFTEC 2023 conference registration is now open! Register now and save – Supersaver Discount ends July 14, 2023! Visit www.weftec.org and sign up today.

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Expo Only	\$135.00	\$155.00	\$165.00				
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*You must be an active WEF Member to qualify for these rates. Join or renew today.
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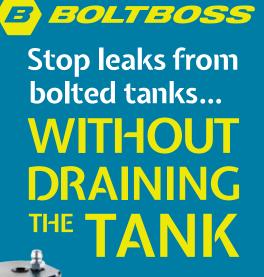
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AWWADirector'sReport



It 'virtually' seems like yesterday

elcome to the Summer 2023 issue of ACWWA's Go With the Flow magazine. We are now on the cusp of the beginning of summer, and with it, for many of our members, the onset of major capital construction projects that will keep our utilities, contractors, and suppliers busy. I do hope that everyone gets an opportunity to enjoy some downtime with family and friends, hopefully accompanied by some nice summer weather.

As you read this, my term as AWWA Director will have come to an end at ACE 2023 held in Toronto in June. I am very pleased to introduce and welcome John Eisnor as your new AWWA Director for the Atlantic Canada Section. John became the Incoming Director of our Section after receiving unanimous endorsement of the Nominations Committee last fall. John is a Professional Engineer, and is a long-serving employee of Halifax Water, where he is currently the Manager of West Water Operations. John is also a long-time volunteer with our Section, having served with distinction at the ACWWA Board level for many years in several different capacities, including as Membership Director, Chair of the Board, Past Chair, and Co-Conference Chair. John certainly has the skills and experience necessary to thrive as our Section's AWWA Director, and I know that he will represent our Section with integrity, and the determination and drive our membership deserves. Please join me in congratulating John on his role as the AWWA Director for the Atlantic Canada Section. I wish him every success as he begins his three-year term.

Following are some brief highlights of recent happenings at AWWA:

• At the AWWA winter Board meetings held in Santa Fe, New Mexico this past January, Cheryl Porter of the



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Michigan Section was elected President-Elect of AWWA. She assumed this role at ACE 2023, when Patrick Kerr of Louisiana became AWWA President for a one-year term, succeeding Joe Jacangelo of Virginia, who became AWWA Immediate Past-President.

- Continuing at the AWWA Board level, I wanted to inform you that after a long process and numerous attempts at resolving the dispute, the New England Water Works Association, Inc. (NEWWA Inc.) made the decision to dis-affiliate with AWWA, effective this past June 20. AWWA is currently in the process of re-constituting a New England Section of AWWA. NEWWA Inc. will continue as a stand-alone regional industry association. NEWWA had been found in violation of the affiliation agreement each Section has with AWWA. The central concern was that NEWWA Inc. while also being a Section of AWWA, had a long-standing practice of selling local, non-AWWA memberships. While not the outcome everyone had desired, it is hoped that both organizations will be able to continue to serve the needs of our colleagues in the New England water community.
- AWWA continues to develop its Water 2050 initiative. The Atlantic Canada Section has made contributions to this project, with a recent member survey conducted and results compiled into the AWWA Water 2050 Section Feedback document. Thanks to all members who participated in the survey which was meant to gauge members' thoughts on where they see the challenges and opportunities for our industry as we look to the future. Our Section also participated in contributing content to the Water 2050 Time Capsule, which was on display at the recent ACE 2023 in Toronto.

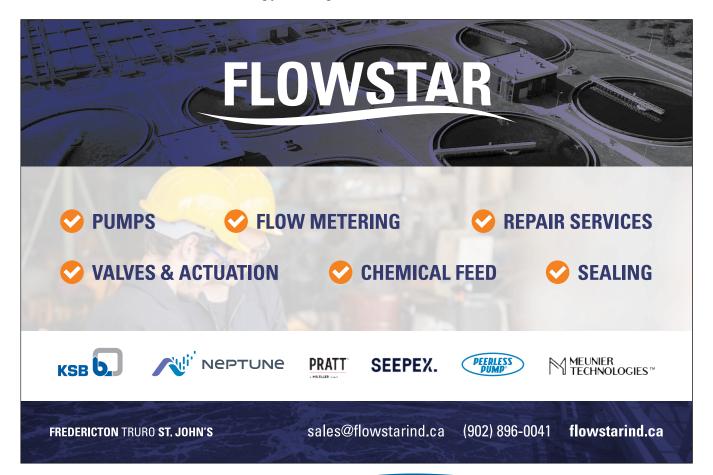
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"Our Section also participated in contributing content to the Water 2050 Time Capsule, which was on display at the recent ACE 2023 in Toronto."

This is my final article as AWWA Director for the Atlantic Canada Section. As the article's title suggests, my three-year term was largely a virtual one, with many meetings and events held via Zoom and Teams because of the pandemic. Nonetheless, it was a very rewarding experience for me, and I sincerely thank all of you for your support. I tried my best to maintain a strong connection between our Section's members and AWWA. It was a privilege to serve ACWWA's membership as our Section's Director. I leave this role satisfied in knowing that our Section is in very capable hands with John Eisnor as our new AWWA Director.

Thank you to all of my friends and colleagues whom I've served with on the ACWWA Board, both past and present. We are so fortunate to have such a dedicated, strong, and experienced Executive Director in Clara Shea who works so hard for our members. I strongly encourage anyone reading this who may be thinking of becoming involved as a volunteer leader of ACWWA to do so. There is some work involved to be sure, but the relationships you will build, and the experiences you will gain are sure to make your involvement a rewarding experience. Our members are the lifeblood of ACWWA, and I look forward to seeing our association's continued contributions to the life of our industry. It doesn't happen by accident though, and success is never guaranteed. We continue to rely on the good people of our region's water industry to support and grow our association for the benefit of all of our members.

Thank you for the opportunity to serve our Section as your AWWA Director over the past three years. Please now feel free to contact John Eisnor with any AWWArelated questions or concerns at *johne@halifaxwater.ca*.



GOVERNMENT RELATIONSDirector's Report



Advocating on your behalf

ne duty of the Government Affairs committee of ACWWA is to apprise ACWWA members of legislative and regulatory matters that affect the drinking water and wastewater industry in Atlantic Canada. While the opportunity to provide this service varies depending on the level of federal and provincial regulatory activity, there have been a few recent items from Health Canada that warrant our attention.

In January, a draft "Guidance on Sampling and Mitigation Measures for Controlling Corrosion" was released

There have been a few recent items from Health Canada that warrant our attention."

for public comment. The intent of the document was to provide responsible authorities with guidance on assessing corrosion and implementing corrosion control measures for distribution systems in residential settings to minimize exposure to lead. The document outlines the steps that should be taken to reduce population exposure to lead, which may also reduce the consumer's exposure to



other corrosion-related contaminants, such as copper. Concerns related to other contaminants whose concentrations may be affected by corrosion, such as iron, are also briefly discussed.

In February, a draft objective of 30 nanograms (ng) per litre (L) for the sum of total per- and polyfluoroalkyl substances (PFAS) detected in drinking water was announced. This objective would replace current guidelines that were finalized in 2018.

The way in which the water industry respond to these types of announcements is through the provision of comments. While some of the larger utilities and other stakeholders have the resources to respond directly, others rely on industry associations to advocate on their behalf. The ACWWA participates in responses generated by the CWWA and the Canadian Affairs Committee (CAC) of AWWA. Some of those responses can be viewed at the following links:

- https://cwwa.ca/wp-content/ uploads/2023/02/CWWA-commentson-Corrosion-Control-Final.pdf
- https://cwwa.ca/wp-content/ uploads/2023/04/CWWA-Submission-on-PFAS-PFOS.pdf 4/100/2004











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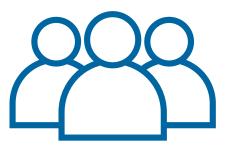
Our newest members & annual photo contest

Welcome to the following new members:

Name	Organization	Membership
Gregg Brewer	Atlantic First Nations Water Authority	AWWA
Meaghan Scott	Dexter Construction	AWWA
Ryan Jollimore	Dexter Construction	AWWA
Jonathan Emery	City of Dieppe	AWWA
Gillian Stanton	Dalhousie University	AWWA
Pam MacDonald	Halifax Regional Water Commission	AWWA
Katja Seufert	St. Peter's, Samsonville and Area Water Util.	AWWA
Corbin Stevens	Atlantic First Nations Water Authority Inc.	AWWA
Hoda Pahlavan	Halifax Water	AWWA
Devon Gionet	North Shore Micmac District Council Inc.	AWWA/WEF
Jake Sark	North Shore Micmac District Council Inc.	WEF
Tammy Jo Knockwood	North Shore Micmac District Council Inc.	WEF
Bertin Babineau	North Shore Micmac District Council Inc.	WEF
Kyle Cloud	North Shore Micmac District Council Inc.	WEF
George Snyder	North Shore Micmac District Council Inc.	WEF
Nelton Dedam	North Shore Micmac District Council Inc.	WEF
Susan Motty	North Shore Micmac District Council Inc.	WEF
Peter Mcleod	North Shore Micmac District Council Inc.	WEF
Brandon Babineau	North Shore Micmac District Council Inc.	WEF
Mitch Toney	North Shore Micmac District Council Inc.	WEF
Fred Phillips	North Shore Micmac District Council Inc.	WEF
Francis Jadis	North Shore Micmac District Council Inc.	WEF
Michael Sark	North Shore Micmac District Council Inc.	WEF
Vernon Mitchell	North Shore Micmac District Council Inc.	WEF
Troy Atkinson	North Shore Micmac District Council Inc.	WEF
Darcy Wood	North Shore Micmac District Council Inc.	WEF
Jim Wall	North Shore Micmac District Council Inc.	WEF
Tanner Curtis	North Shore Micmac District Council Inc.	WEF

As of May 19, 2023

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he ABEA continues to support the ACWWA and its membership. What can we do for you? The ABEA offers four **\$1,000 academic scholarships** annually to deserving individuals who meet the application criteria (visit *www.ABEA.biz*). Deadline is flexible.

Congratulations to **Serena Phillips** (Jason Phillips – City of St. John's, NL)!

Planning is well underway for the **2023 ACWWA Conference** this fall, October 15–17 in Charlottetown, PE. Mark your calendars!

The ABEA Golf Tournament has been booked at the Fox Meadow Golf Course, Stratford, PE on Sunday October 15, 2023, with a 10:00 am shotgun start. The **Monday evening ever-popular Hospitality Night** will be held at the Old Triangle Irish Alehouse from 8:00 pm – 1:00 am.

The Main Event **Trade Show will be held on Tuesday** from 10:00 am – 2:00 pm; lunch will be served during the event. Come meet and greet and see what's new in the industry to solve your most niggling problem.

Education is always a hot topic, and our membership continues to find ways to assist their customers with creative delivery methods to keep them informed of changes in the industry. If you have a need, please feel free to reach out.

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The ACWWA Operator Education Group is looking for a few exceptional people to join our dynamic team

During this exciting period of economic growth and technological advance in the water and wastewater industry, the call for operator training is becoming more prevalent than ever before. In support of the industry's demand for training in water treatment and distribution, wastewater collection and treatment, and small water and wastewater systems, the ACWWA continues to provide quality training courses for operators throughout Atlantic Canada.

In order to meet the growing demand for quality and relevant training, the ACWWA is looking to expand its group of top-ranked instructors. If you are a dynamic and knowledgeable individual who is committed to our industry and has at least five years of experience in the municipal water or wastewater fields, then you should consider joining our dedicated group of trainers.

The instructor team for ACWWA is made up of a committed group of professionals from across Atlantic Canada. This select group is involved in presenting course material throughout the year in all regions of Atlantic Canada and is made up of water and wastewater operations managers, certified operators, technical specialists, and manufacturers' representatives. These individuals work together to facilitate learning and expand operator knowledge and awareness in our broad field of work. ACWWA training programs have a long-standing history of providing quality operator training. Courses range from one- and two-day workshops to four-day programs specifically designed to better prepare operators for certification examination offered through the Environment Operators Certification Program and mandated by the provincial government.

ATLANTIC CANADA

By becoming involved in operator education as an instructor, you will be joining a unique and committed group of industry leaders in our field, as well as sharing in the rewarding experience of facilitating learning amongst your peers. If you are ready to give back to our industry, please submit your expression of interest and resume to our section office: Email contact@acwwa.net or fax 902-435-7796.

ACWWA looks forward to enhancing training in Atlantic Canada and we thank all those interested for their time and care in submitting applications.

If we can assist you in any way, please contact us for more information.

Clara Shea Executive Director, ACWWA 🍛

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2023 ACWWA ANNUAL CONFERENCE

Charlottetown, PEI October 15–17

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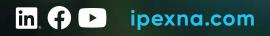


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2023 ACWWA ANNUAL CONFERENCE • CHARLOTTETOWN, PEI • OCTOBER 15-17



WELCOME

Please join us in Charlottetown October 15–17, 2023 for the 2023 ACWWA Annual Conference. A conference you want to attend. The conference organizing committee has been working hard at making this a memorable event as PEI celebrates its 150th anniversary of joining Canada.

We are very pleased to be hosting the Annual Conference in Charlottetown at the 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.

As always, the conference committee has organized a highquality technical program. The technical sessions will focus on "Building Resiliency" in our industry. Charlottetown was witness to the importance of resiliency planning during and after Hurricane Fiona. Come and share your experience related to improving resiliency in our industry. The conference program will be filled with all kinds of favourites like golf (Fox Meadow Golf Club), Technical tours, ABEA tradeshow, ABEA Hospitality night (Old Triangle), Emerging Leaders Mixer, Water Taste Test and Water Tower Competition, hands-on technical demonstrations, and our wrap-up event.

The water and wastewater industry has provided critical public services for more than a century. Clean drinking water and effective wastewater treatment will be needed for years to come. The industry must find ways to be adaptable and resilient into the future. Come and share your role in the industry and what you are doing to ensure a resilient sustainable future. What innovations have you used or plan to use in the development of your water resource? Did you add a new treatment system and consider climate change or increased resiliency in its design? How have you tackled challenges of your distribution or

collection systems? How are you recovering resources from previously thought of waste streams? What about staffing recruitment and retention best practices? "Building Resiliency" 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 are making our industry more resilient.

Richard MacEwen 2023 Conference Chair





THE CONFERENCE VENUE

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 \$239 to \$259 plus taxes per night is in place until September 15, 2023. Reservations can be made using the link on ACWWA's website (*www.acwwa.ca*) or by calling 1-844-496-8550.

Please reserve your room by September 15, 2023 to receive the special conference rate. Be sure to tell the hotel reservation desk that you are in the ACWWA block rate.



KEYNOTE ADDRESS

Building Resiliency on Prince Edward Island

Peter Nishimura has worked for in the field of climate change adaptation and stakeholder engagement for over 12 years, formerly as a Senior Climate Change Policy Advisor in PEI's Department of Environment, Energy and Climate Action, and now as Manager of PEI's Climate Action Secretariat. Peter has worked extensively on the development of local climate hazard information and dissemination with a goal to integrate climate considerations into infrastructure placement and design. Peter holds a Bachelor of Science from the University of Victoria, a Bachelor of Education from the University of British Columbia, and a Master of Science in Environmental Science from Mt. Allison University. He is Past Treasurer and Board member of Green Learning Canada, and currently serves on the Federal-Provincial-Territorial Resilient Infrastructure Working Group, and on the Advisory Board for the Canadian Centre for Climate Change and Adaptation.

2023 ABEA ANNUAL GOLF TOURNAMENT



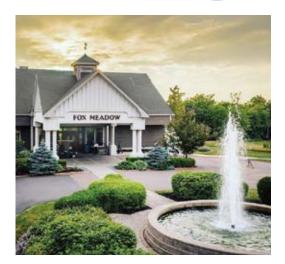
Fox Meadow Golf Course – "Fun, flexible, simple yet engaging. Your time at Fox Meadow is more than just a round of golf. It's your chance to meet up with old friends and create new ones. Your time to play the game you love and leave the stress of the world behind. Welcome to Fox Meadow..."

167 Kinlock Road, Stratford, PE 1-877-569-8337

We welcome you to join us for our Annual Golf Tournament being held October 15, 2023 and sponsored by the ABEA, and its individual members. Tee times commence at 10:00am, with a shotgun format. Price \$85.00 + tax (green fees, shared cart and range balls).

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). https://foxmeadow.pe.ca.

Please note that only those registered by August 15, 2023 will be guaranteed "swag."





THE 2023 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 Irish Alehouse (189 Great George Street, Charlottetown, PE) on Monday October 16, 2023. This multi-level venue offers ample opportunity to enjoy the music, or share in a lively conversation with friends and colleagues. www.oldtrianalecharlottetown.com/welcome

Festivities begin at 8:00 pm, with music supplied in the Pourhouse (upper level) by Haillee & Jesse + 1, and the main floor by Tim & Donnie. Both are local favourites and regulars at the Old Triangle Irish Alehouse.



This is 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.

"BEST OF THE BEST" TAP WATER TASTE TEST

Submit a sample to join in as we celebrate the 9th annual "Best of the Best" Tap Water Taste Test competition!

Our panel of water professionals will be looking for the "Best of the Best" tasting tap water here at the ACWWA Conference in Charlottetown, PEI! Bring a sample of your hometown water that you supply to your customers and see where it ranks against your neighbouring Atlantic Canadian communities. Samples will be judged on their appearance, odour, taste and overall impression. The competition, beginning just before the ABEA Tradeshow, will take place from 9:30 am to 10:30 am on Tuesday, October 17, 2023. 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 at their next conference!

Join us to find out who has the best tasting water in Atlantic Canada! Entry forms, rules, and judging criteria are available on the ACWWA website at *www.acwwa.ca*. Entry forms are due by September 30, 2023.

For more information, please contact Avery Gilks at *agilks@cbcl.ca* or Tim Gallant at *tgallant@cbcl.ca*.





ACWWA TECHNICAL TOUR

Join us October 15 for a tour of Stratford and Charlottetown's Wastewater Interconnection Projects.

Charlottetown is Prince Edward Island's capital city, and Stratford is the island's fastest growing community. Separated by the Hillsborough River, the two municipalities have been independent of one another, each providing the supply of clean drinking water and wastewater collection and treatment to their respective residents. Continued growth in Stratford and increasingly stringent environmental guidelines facilitated the need for Stratford to pursue additional improvements in their wastewater treatment.

Two options were considered: construct a new wastewater treatment facility in Stratford or upgrade the Charlottetown Pollution Control Plant to accept the additional flows and pump the wastewater across the river. At the same time, the City of Charlottetown was also considering decommissioning a lagoon in East Royalty, a neighbourhood of Charlottetown, which would also require an upgrade at the Pollution



Control Plant. Ultimately the decision was made to upgrade Charlottetown's wastewater treatment facility to accept additional flows from both Stratford and East Royalty.

The Stratford portion of the project was accomplished with the addition of a new triplex pumping station at



the decommissioned wastewater lagoon site, approximately 2.5 kms of twinned 450 mm diameter force mains, sections of which needed to be suspended from the Hillsborough Bridge. Structural upgrades of the Hillsborough Bridge were also required to accommodate the new pipelines. The Charlottetown Pollution Control Plant received initial upgrades in the form of a new screening building, a new rotary drum thickener and thickening building, and the addition of a third primary clarifier. This tour will include stops at Stratford's new pumping station, the Hillsborough Bridge, and the Charlottetown Pollution Control Plant.





2023 ATLANTIC BRANCH EQUIPMENT ASSOCIATION TRADESHOW

The 2023 Tradeshow will be held Tuesday morning, October 17, 2023, beginning at 10:00 am.

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 water/wastewater industry.

Lunch will be served during the Trade Show. Allow time to explore and engage, there is something for everyone and more!







WFP EVENTS

Water For People (WFP) is a global non-profit that helps people bring clean water and sanitation solutions to their communities for generations to come. Born out of the American Water Works Association (AWWA) in 1991; WFP have helped millions of people across nine countries get access to clean water, sanitation solutions, and hygiene education.

ACWWA has a WFP Committee focussed on raising awareness and providing opportunities for ACWWA members and others in Atlantic Canada to be involved with WFP by donating money or time in support of WFP's vision of a world where every person has access to reliable, safe water and sanitation services.

Each year, at the Annual ACWWA Conference, several WFP activities are organized to raise funds and awareness in support of WFP. These fundraising efforts have gone a long way to make Atlantic Canada stand out as a tremendous donor among AWWA sections with the Atlantic Chapter raising approximately \$20,000 annually. Events organized to raise funds and awareness for WFP this year at the 76th Annual ACWWA Conference include the Charity Silent Auction, WFP Fun Run/Walk, and the 50/50 raffle during the Tuesday ABEA Casino Night. Prizes will include charitable donations to WFP in the name of the winners.

The Charity Silent Auction will be open for viewing and bidding throughout the conference, with bidding closing prior to the technical sessions on Tuesday afternoon. Those wishing to make donations to the Silent Auction can contact *acwwa.els@gmail.com* or bring the item(s) to the registration desk the first day of the conference (Sunday, October 15).

water for people

When registering for the conference, do not forget to sign up for the 2023 Fun Run/Walk! The 5 km Fun Run/Walk will be held on Monday, October 16 at 5:00 pm, leaving the Charlottetown Delta and meandering through the city, along the boardwalk, and through Victoria Park.

WFP committee members will also be selling 50/50 tickets during the Tradeshow and Tuesday Night Social. We are also pleased to advise that this year's speakers' gifts will be charitable donations to WFP in the name of the speaker.

We look forward to seeing all the attendees at the ACWWA Conference and being able to share our passion for such a worthy cause – and a huge thank you to those who have supported the WFP charity and its past activities in previous years!

EMERGING LEADERS MIXER

The ACWWA Emerging Leaders Committee 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 Emerging Leaders Committee is inviting conference attendees to join us for the networking event and mixer, which is being held from 5:00 pm to 7:00 pm on the opening day of the Conference, Sunday, October 15, 2023, at Brick House in Charlottetown. The networking event will provide an opportunity for career development where Emerging Leaders can get to know leading figures from the industry and other Emerging Leaders. This will be followed by the Emerging Leaders mixer. Both novice and experienced professionals



are encouraged to drop in for some snacks, refreshments, and conversation with leading members in our industry. This is a wonderful opportunity to meet and support our future water and wastewater leaders. Thank you to Sansom Equipment Limited for supporting the Emerging Leaders events.

Before the Emerging Leaders event, we will also attend the technical tour of the Stratford and Charlottetown Wastewater Management Facility from 12:45 to 3:00 pm as a group.



WATER TOWER COMPETITION

The Greatario Water Tower Building Competition will take place on Sunday, October 15, 2023, from 8:30 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.

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.



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(current as of June 2023)



ACWWA CONFERENCE REGISTRATION

EXHIBITOR'S NAME

Please consider registering online at www.acwwa.ca/reg You can register online and still pay via PO, cheque, or Money Order

EXHIBITOR'S NAME

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Extra Booth Exhibitor Registration ABEA Member –@ \$75 Non-Member –@ \$100 Includes as indicated in Tradeshow Exhibitor Part 2 ABEA Member –@ \$100								\$							

Part 3 – Subtotal \$

EXHIBITOR'S NAME

PART 4 - ADDITIONAL MEALS & ACTIVITIES NOT INCLUDED WITH REGISTRATION						
Sunday, October 15						
Golf – Sunday, October 15, Transportation, Green Fee, Shared Cart and Lunch – Limited Capacity Indicate your shirt size(s): SM, MED, LG, XL, XXL	@\$85 =	\$				
Technical Tour – Stratford/Charlottetown Wastewater Interconnection – Limited Capacity @\$2 Sunday, October 15 (PPE required, Safety Boots, Hard Hat and Vest/Warm clothing) @\$2						
Monday, October 16						
Additional Annual General Meeting Luncheon One ticket included with Full Conference and Monday Full Day Pass Registration	@ \$50 =	\$				
Tuesday, October 17						
Additional Tuesday Night Social Tickets One ticket is included with every Full Conference and Tuesday Full Day Registration	@ \$75 =	\$				
	Part 4 – Subtotal	\$				

PART 5 - PAYMENT OPTIONS							
Choose payment method. Complete as appropriate.							
Please make cheque or money order payable to "ACWWA Cont	ference," Box 28142, D	artmouth, NS B2W 6	5E2.				
CARD HOLDER NAME							
CARD NUMBER CVV EXPIRY							
SIGNATURE							
Fax: 902-435-7796 or Email: contact@acwwa.ca							
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 sponsors.							

CONFERENCE INFORMATION

The entire conference has a 1.5 CEU value.

TRADE SHOW INFORMATION

Each booth measures 8' x 10'. Booth selection will be online and first come, first serve. ABEA members will have exclusive access for one week before the public. Contact the ABEA to learn more about becoming an ABEA member (Cathy Cameron at *catherine@scotiatech.ca*). For trade show questions, contact Cathy Cameron at *catherine@scotiatech.ca*.

Booths are reserved at registration but cannot be selected until payment is received.

Register and pay online with Visa or MasterCard to avoid delays and select the booths you want.

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 before 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 seven days before the 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.net*.

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 before the conference start date will receive a 50% refund. Cancellations less than 30 days before the 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.net.

CALL FOR AWARD NOMINATIONS

ou know someone who has made a contribution to the water and/or wastewater industry – don't let their efforts go unnoticed. The following awards are eligible for presentation at the 2023 ACWWA Conference on October 15–17, 2023 in Charlottetown, PEI.

Please note that the deadline for 2023 award nomination submissions is **August 7, 2023**.

Individuals wishing to nominate an individual or group for an award should complete the nomination form available at www.acwwa.ca/conferences/awards/ award-nominations.html or contact the ACWWA office (contact@acwwa.ca) and request the applicable nomination form

Please note: Nominees must be a member of AWWA or WEF.

Awards include:

Project of the Year -

Engineering Award/Environmental Award

The Project of the Year – Engineering Award/ Environmental Award is awarded by ACWWA to a *Municipality or Utility and their Consultant*, one of which is a member of ACWWA, to recognize **outstanding projects in Atlantic Canada that demonstrate innovation and state-of-the-art technology** in water or wastewater projects.

Awards may be presented in each of the following three categories:

- Small Utility less than 5,000 customers
- Medium Utility between 5,000 and 25,000 customers
- Large Utility more than 25,000 customers

Silent Hero Award

The Silent Hero Award is awarded by ACWWA and may be presented annually to recognize outstanding contributions of water and wastewater operators.

Contribution Award

The Contribution Award is awarded by ACWWA and may be presented annually to recognize outstanding contributions by an *individual or a group* of *individual volunteers* to ACWWA programs and/or the water industry throughout Atlantic Canada.

Young Professional Award

The Young Professional Award recognizes a Young Professional within the Atlantic Canada Water & Wastewater Association for outstanding contributions to the water and wastewater industry, and to the ACWWA Young Professionals' committee.



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WEF Strategic Plan

Our Mission

Inspiring the water community in pursuit of human and environmental well-being

Our Vision

Life free of water challenges

Our Three-Year Outcome Statement

Amplify the stories of water to grow, strengthen, and diversify the water community

Our Strategic Goals

Goal 1

Attract and develop a diverse and passionate water workforce

Goal 1 Strategies

- 1. Raise public awareness about the importance of water and the water workforce
- 2. Reduce barriers to workforce entry and retention
- 3. Provide extraordinary opportunities for connection, growth, and education
- 4. Cultivate strategic partnerships

Goal 2

Cultivate a purposedriven community to sustainably solve water challenges for all

Goal 2 Strategies

- 1. Drive connection and collaboration for the development of innovative solutions
- 2. Deliver best-in-class member experience
- 3. Creatively develop and deliver content and programming

Our Core Values

Goal 3

Lead the transformation to the Circular Water Economy

Goal 3 Strategies

- 1. Convene stakeholders to craft WEF's Circular Water Economy framework and best practices
- 2. Proliferate WEF's Circular Water Economy framework and best practices
- 3. Champion adoption of Circular Water Economy
- 4. Eliminate barriers to Circular Water Economy adoption



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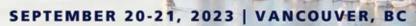
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EMERGING LEADERS COMMITTEE UPDATE

e have been busy the last few months getting ready for the upcoming ACWWA Annual Conference in Charlottetown. We are excited to already be back in the planning phase and can't wait to join you all in the fall. We look forward to hosting another mixer, running the Water For People silent auction, and making sure everyone has an ample supply of 50/50 tickets. Stay tuned to the ACWWA Twitter and LinkedIn accounts for updates about the specifics of all our Emerging Leaders (EL) conference events.

We have also started a new section of our update column: The Emerging Leaders Spotlight.

We are planning to use this section to highlight the achievements of the ELs in our region across academia, consulting, sales, and operations. We have incredible people doing incredible work and want to take the time to acknowledge them. If you, or someone you know, would like to be considered by the EL Committee for future spotlights, please send an email to *acwwa.els@qmail.com*.

EMERGING LEADERS' SPOTLIGHTS Gillian Stanton

Gillian Stanton (She/They) is an ambitious and outgoing engineering graduate student interested in water and wastewater treatment, process safety, and fostering community engagement. Their academic journey began at Dalhousie University, where they pursued and



completed a Diploma in 2017, followed by a Bachelor of Chemical Engineering in 2021. Currently, as a Master of Applied Science candidate, their research centres around delving into the limitations of photoelectrochemical oxygen demand to advance greener technologies in wastewater applications. Their research opportunities gave them hands-on experience working in laboratories and pilot plants. Recognizing their dedication and potential in the field, they were honoured to receive the prestigious NSERC CGS-M and Killam Pre-Doctoral Scholarship awards while embarking on their Master's degree, set to complete by the end of summer of 2023. Through their work, they aspire to contribute to the advancement of sustainable solutions in water and wastewater engineering while building stronger communities and respect for water.

Andrew Burgess

Andrew Burgess is an emerging leader who is passionate about water and wastewater in Atlantic Canada. He graduated from the University of New Brunswick in 2019 with a Bachelor of Science in Mechanical Engineering; Andrew is currently working as an Engineer in Training



(EIT) as he pursues his Professional Engineer (P.Eng.) certification. Andrew has been a dedicated Technical Sales Representative at Flowstar Industrial for the last four years, now focusing on municipal water and wastewater equipment in Nova Scotia and PEI. His expertise and commitment to excellence have significantly contributed to his success in serving the industry.

In his roles as a committee member on the ACWWA Emerging Leaders Committee and Senior Director for the Atlantic Branch Equipment Association and his professional career at Flowstar, Andrew actively collaborates with industry professionals to promote excellence and foster growth. He contributes to strategic initiatives and engages in efforts to drive sustainable practices and advancements in water management. Andrew exemplifies the ACWWA's vision of excellence in water management. His passion, dedication, and leadership make him an invaluable asset to the industry, and his contributions to the ACWWA Emerging Leaders committee and the Atlantic Branch Equipment Association highlight his commitment to shaping a brighter future for clean water and wastewater management. \ll

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The City of Miramichi wins Best of the Best Taste Test at AWWA's annual conference

Source: AWWA.org

he American Water Works Association (AWWA) announced on June 13, 2023 that the City of Miramichi in New Brunswick, Canada, won the Best of the Best Water Taste Test. City of Emporia in Emporia, Kansas, was named the winner of the People's Choice Water Taste Test. The events, which were sponsored by Brown and Caldwell, included regional winners from water tasting competitions and was held at AWWA's Annual Conference and Exposition (ACE23) in Toronto.

Second place in the Best of the Best Water Taste Test went to the City of Grand Junction in Colorado and third place went to Raleigh Water – Dempsey E. Benton Water Treatment Plant in Raleigh, North Carolina.

The Best of the Best Water Taste Test is determined by a panel of judges that included trained water flavor profilers, and the People's Choice Taste Test is determined by conference attendees.

The City of Miramichi is a city in northeast New Brunswick with a population of 18,500. It operates three separate water systems with each source from 19 active ground wells. Fifteen of the wells are fed directly into the distribution system and are disinfected by chlorine.

Other Best of the Best participants in the competition included: Mobile Area Water & Sewer Systems in Mobile, Alabama; City & Borough of Juneau in Juneau, Alaska; Metropolitan Water District – Weymouth Plant in La Verne, California; City of Salisbury in Salisbury, Maryland; Danbury Water Department in Danbury, Connecticut; Citrus County Water Resources in Lecanto, Florida; Macon Water Authority in Macon, Georgia; City of Evanston in Evanston, Illinois; City of Cedar Rapids in Cedar Rapids, Iowa; City of Emporia in, Kansas; Plainfield Township in Plainfield Township, Michigan; Independence Water in Independence, Missouri; City of Bozeman in Bozeman, Montana; Metropolitan Utilities District in Omaha, Nebraska; Champlain Water District in South Burlington, Vermont; Onondaga County Water Authority in Syracuse, New York; North Carolina; City of Fargo Water Treatment Plant in Fargo, North Dakota; Niagara Region in Fort Erie, Ontario, Canada; City of Vancouver in Vancouver, Washington; Chester Water Authority in Nottingham, Pennsylvania; Malpaso Water Treatment Plant at Penuelas in Hato Rey, Puerto Rico; Ville de Windsor in Windsor, Quebec, Canada; Orangeburg Department of Public Utilities in Orangeburg, South Carolina; Houston Water in Houston, Texas; Toronto Water in Toronto, Ontario, Canada; Norfolk Utilities Department in Norfolk, Virginia; City of Lethbridge in Lethbridge, Alberta, Canada; and Menasha Utilities in Menasha, Wisconsin.

ACE23, which brought an estimated 10,000 water professionals to Toronto, is the longest-running water conference in the world, having first convened in 1881. The event features more than 440 expert presentations and an exposition featuring more than 450 exhibitors.



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AWWA awards 5 Under 35 – Outstanding Young Professional Award

Source: AWWA.org

The American Water Works Association (AWWA) announced the five recipients of its 5 Under 35 – Outstanding Young Professional Award on May 16, 2023. The award, which debuted in 2021, recognizes and honours AWWA members under the age of 35 who have demonstrated outstanding service to their Sections or the Association through leadership and active participation in young professional (YP) programs.

The 2023 award winners are:

Jenny Doyle, Missouri Section

- Senior Civil Engineer, PE, City of Glendale, Arizona
- Member, AWWA Member Engagement and Development Committee
- Trustee, Missouri Section; Chair, Section Member Engagement Committee
- Past chair, Section Young Professionals Committee; member, Section Water for People, Water Equation and Competition committees
- B.S. and M.S., Civil Engineering, University of Arkansas

Clayton Freed, Arizona Section

- Program Manager, City of Phoenix Water Services
- Member, Water Utility Council
- Past chair, Section Conference and YP committees
- Member, Section Education Council
- B.S., Environmental Engineering, New Mexico Tech

Nicole Holloway, Southwest Section

- Laboratory Supervisor, Beaver Water District, Lowell, Arkansas
- Co-Chair, AWWA Manual Committee, M12, Simplified Procedures for Water Examination
- Co-Chair, Water Quality Laboratory Committee
- Member, AWWA Aesthetic Quality & Perception
- Past Chair, Section YP Committee, Past Co-Chair, Section Conference Local Host
- Board Member, SW Section AWWA
- B.S., Chemistry, Missouri State University; M.S., Environmental Science, University of Idaho

Lawrence Latour, P.E., Virginia Section

- Water Resources Engineer, Town of Herndon, Virginia
- Member, Young Professional Committee 2017-2023
- Past Vice-Chair, Young Professional Committee
- Member, Water Landmarks Award Committee
- Past Summit Chair, YP Summit Conference 2021 and 2020
- Past Summit Vice-Chair, YP Summit Conference 2019
- Past Summit Program Chair, YP Summit Conference 2018
- Past Chair, Chesapeake Section YP Committee
- B.S., Environmental Engineering, University of Delaware

Susan Mukai, PE, Hawaii Section

- Senior Principal Engineer, PE, Brown and Caldwell, Honolulu, Hawaii
- Secretary, Hawaii Section
- Past Co-Chair, Section Workshops Committee
- Past Trustee, Section Annual Conference
- Past Chair, Section Newsletter Committee
- Past Chair, Section YP Committee
- B.S. and M.S., Civil Engineering, University of Southern California

The award recognizes young AWWA members who actively pursue their advancement in the water sector through engagement in student and young professional events and activities and by representing students' and young professionals' interests throughout AWWA.

For more information, and to nominate someone for the coming year, please visit www.awwa.org/Membership-Volunteering/Awards/Outstanding-Young-Professional-Award.

WEF selects strategic transition specialist as interim leader

Source: WEF.org

The Water Environment Federation (WEF) has selected Wm. Patrick (Pat) Nichols to serve as its Interim Executive Director, effective June 1, 2023. After taking the reins from outgoing Executive Director Walter Marlowe, who has led the organization since 2019, Nichols will oversee WEF's continued implementation of the organization's new strategic plan.

"After reviewing multiple candidates, we're confident that Pat is the interim leader best positioned to continue to advance WEF's strategic plan while maintaining and enhancing our key existing programs, product offerings, and relationships," according to WEF President Ifetayo Venner.

Nichols is a specialist in guiding not-for-profit organizations through major transitions. He has served as interim director for more than 30 organizations, positioning them for success by focusing on mission and core values, strategic clarity, integrity, accountability, and customer service. "It's a great privilege to help WEF realize its compelling vision of life free of water challenges," says Nichols. "With climate change, water shortages, and the demands of public health, it's clear that the biggest challenges facing water are also some of the biggest challenges facing society. And that makes



advancing WEF's work even more vital and urgent."

"The Board and I are excited to bring Pat on as WEF's Interim Executive Director," says WEF's Venner. "With our mission, vision, and core values as our 'North Star' and Pat's commitment to WEF's staff, members, and partners, I'm confident that there are great things ahead for us."

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The significance of inflow and infiltration

By Adam Sketchley, P.Eng., M.A.Sc., DesignPoint Engineering & Surveying Ltd.

astewater systems typically experience increased flows during wet weather or times of high groundwater due to stormwater contributions to the system. Stormwater entering the wastewater system is made up of inflow (surface water entering the system) and infiltration (groundwater entering the system). Sources of inflow typically include anything from holes in manhole covers to connected catchbasins and contribute high peak flows to a wastewater system. Infiltration typically enters through gaps in pipe joints, manhole connections, or manhole sections and typically contribute a considerable volume of stormwater but lower flow.

Inflow and infiltration (I&I) entering a wastewater system increases flow in the system, reduces capacity, increases wear and tear on mechanical components, leads

to overflows, and can inhibit the wastewater treatment process. Flow during wet weather periods can be in excess of 15 times the typical peak dry weather flow. This level of increase requires much larger infrastructure and, when there is not enough capacity, can cause surcharging of the system.

The largest I&I flow contributors to a system are typically catchbasins, roof drains, and sump pumps. These connections deliver high flow during wet weather events and, in the case of sump pumps, can add a large volume over the course of a year. Sump pumps, for instance, essentially act as a well, collecting groundwater and adding it to the sewer. In locations where groundwater is high, these pumps can result in large annual volumes added to the system.

Smaller sources of I&I can also contribute significantly to a system. Holes in manhole covers, particularly in low areas, open lift holes in manholes, and leaky manhole frames and covers all allow considerable I&I. While the impact of each of these smaller sources is less than catchbasin connections for instance, they are often greater in number. The cumulative effect of the I&I that enters at these locations can be quite large and severely impact a wastewater system.

Understanding the impacts of I&I on a wastewater system is crucial to the continued operation of the system. Determining the magnitude of flow increases during wet weather and identifying I&I sources are the first steps to reducing the impact of I&I and removing it from the system.

Do you have a topic for a future Back to Fundamentals article? Email adam.sketchley@designpoint.ca or contact@acwwa.ca and we will do our best to cover it! 🕰



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