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THE OFFICIAL PUBLICATION OF THE ATLANTIC CANADA WATER AND WASTEWATER ASSOCIATION

ACWWA HALIFAX 2014

INSIDE:
67th ACWWA Annual Conference
The Value of ALL Water
Halifax, NS • October 19–22



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FALL 2014



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American Water Works Association



Atlantic Canada Water & Wastewater Association

Box 28141, Dartmouth, NS B2W 6E2
Phone: 902.434.6002 Fax: 902.435.7796
contact@acwwa.ca www.acwwa.ca

Section Office

ACWWA Executive Director

Clara Shea contact@acwwa.ca
902.434.6002 F: 902.435.7796

Board

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mw Walsh2@dal.ca
902.494.8430 F: 902.494.3105

Past Chair

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brettp@cbcl.ca
902.492.6750 F: 902.423.3938

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scott.grasman@fredericton.ca
506.460.2749 F: 506.460.2461

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john.e@halifaxwater.ca
902.490.1930 F: 902.490.1584

Secretary-Treasurer

Willard D'Eon, MPH, P.Eng.
willardd@cbcl.ca
902.492.6753 F: 902.423.3938

WEF Delegate (2011-2014)

Gary Chew
gary.chew@sansom.ca
902.895.2885 F: 902.893.7584

AWWA Director (2014-2017)

Jamie Hannam, MBA, P.Eng.
jamie.hannam@halifaxwater.ca
902.490.4804 C: 802.441.1079

www.kelmanonline.com
Tel: 866-985-9780
Fax: 866-985-9799

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Design/Layout: Kristy Unrau
Marketing Manager: Darrell Harris
Advertising Co-ordinator: Stefanie Ingram

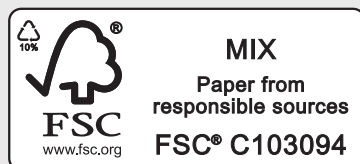


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ACWWA year-end

We are weeks away from our annual conference in Halifax, which will mark the end of my term as ACWWA Chair. It has been a rewarding year and I have enjoyed working with our Board and association members over the last 12 months. We are looking forward to having Scott Grasman of the City of Fredericton taking over as our ACWWA Chair for 2014/15 and know he will do fantastic job leading our association in coming months. John Eisnor from Halifax Water and Mike Chaulk from CBCL Ltd. will be taking on roles as First and Second Vice Chair of the Board.

The past several months have been busy for ACWWA. Our Executive Director Clara Shea attended the AWWA Section Staff Summit in Denver, CO in July. These annual meetings bring together staff from the 43 sections of AWWA and represent the strongest networking, knowledge/resource sharing opportunity. This year, Clara was asked

to be part of a three-person panel to lead discussion on building relationships between the section Executive Directors and Board/membership. Given the large number of sections who attended this meeting, we are very proud of Clara for being recognized as a leader within the AWWA organization. ACWWA is considered to be a relatively small AWWA section, but the work and dedication Clara has done for us continues to put us on the map and have us at the forefront as a 'go-to section' within the overall organization.

At our fall Board meeting in September, we had several changes voted on related to committee chairs and Board Director positions. We would like to thank Greg McCann from the City of Fredericton and Ramona Doyle from the City of

Charlottetown, who both completed terms as our Young Professionals (YP) and Magazine Chairs. Both of these committees are very active and time intensive, and both Greg and Ramona have done fantastic jobs moving these groups forward within ACWWA. We would like to welcome Brad McIlwain (CBCL - Halifax) as our incoming YP Chair and Lindsey Wilcott (CBCL - Saint John) as our incoming Magazine Chair. Both have been very enthusiastic in moving into these new positions, and we know they will continue to do great work for our association. We would also like to welcome Kendall Mason from Saint John Water who has stepped in as our new Communications Director, and thank Nicole Taylor of the City of Moncton, who has completed her three-year term this year. Finally,

"At our fall Board meeting in September, we had several changes voted on related to committee chairs and Board Director positions."

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Jamie Hannam has officially taken over from Reid Campbell, both of Halifax Water, as our AWWA Director. Reid has put many dedicated years of service into our section as past Chair of the Board, and we are very proud and grateful for his strong representation of our section as past AWWA Vice President. The strength and positive direction he has brought to ACWWA will be greatly missed.

We have such strong representation from our YPs in all of our committees and Board structure, and I think this is something we 'OPs' can be very proud of. I have heard many definitions for OPs over the last year, from 'Old Professionals' to 'Original Professionals.' They all work in defining our membership over the age of 35. One of our 'original' professionals we would

"I have heard many definitions for OPs over the last year, from 'Old Professionals' to 'Original Professionals.' They all work in defining our membership over the age of 35."

like to extend a large thank-you to is Mr. Willard D'eon from CBCL Ltd. Willard has been an AWWA member since December 1978. He received the George Warren Fuller Award in June 1993, and Life Member Award in January 2008. Our records show that he was the Section Chair in 1990-91, served on the section's Small System Committee from 1992-1996, and has been the Section Secretary-Treasurer from 1996 to the present. I personally have worked

with Willard since joining the Board in 2008, and recognized early on that he has been one of our primary 'go-to people' when questions and large issues arise. It has been a pleasure to work with and learn from him over the years, and although we wish him all the best in his retirement, we are not guaranteeing that we will not call him occasionally here and there with questions only he can answer. 



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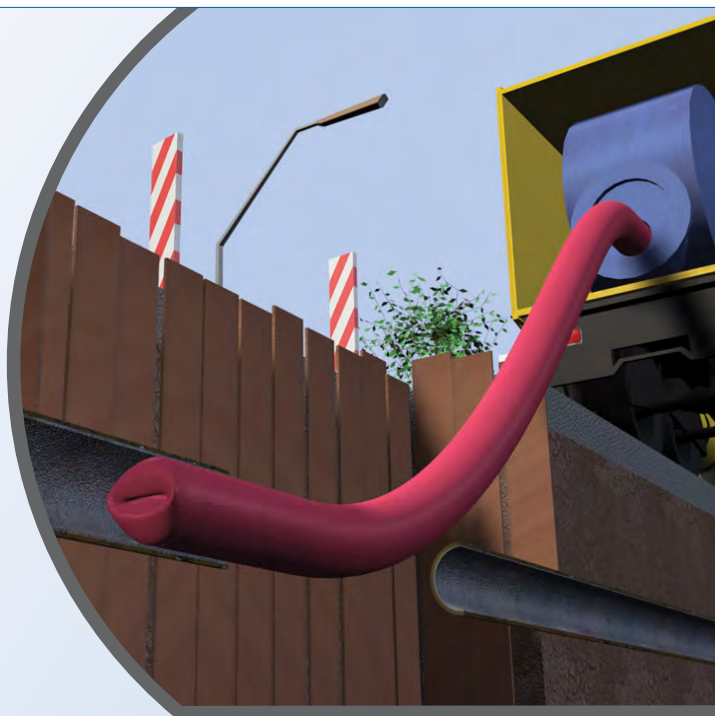
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Message from the new director

Welcome to the Fall 2014 edition of the ACWWA *Go With the Flow* magazine. This is a great opportunity to introduce myself as the new AWWA Director representing Atlantic Canada. I am excited for the opportunity to serve and represent our section at AWWA.

This time also marks the completion of a very successful three-year term as Director for Reid Campbell, which also included two years as an AWWA Vice President. Reid was great in his liaison role to enhance the relationship between

ACWWA and AWWA and as an ambassador for all AWWA in his travels across North America. Reid now has an opportunity to extend his contribution to the water industry in his new role as a member of the AWWA Water Utility Council. Congratulations, and thank you to Reid.

My term began with the ACE 14 in Boston in June. At that time, John J. Donahue took the seat as AWWA President. John is with the North Park Public Water District in Machesney Park, Illinois, and will serve for the next year.

ACWWA was well represented at the conference; most notably Dr. Graham Gagnon received his Fuller Award, for distinguished service to the water supply field, during the annual Fuller Award Breakfast ceremony and Clara Shea, our section Executive Director, received the Silver Presidential Award in recognition of outstanding membership recruitment.

One important approval from the ACE board meeting was the endorsement of the Special Presidential Panel report, AWWA 2020: *A Path to One AWWA*. The report provides a clear path to help strengthen and enhance the relationships between AWWA sections and the Association with an overall goal of increasing value to AWWA's members. The plan will utilize strategic themes of communications, education, membership, branding, and finance to advance the goal. We will report back with more details of how ACWWA will engage with this plan to the benefit of our local section members.

The next big calendar event is the ACWWA Annual Conference in Halifax. The event is being managed by Co-Chairs John Eisner and Rob Gillis, and the schedule is full of activities for all. We are delighted to have Jim Chafee, Immediate Past President of AWWA, joining us in Halifax as the AWWA delegate. Be sure to track Jim down and share our Atlantic Canada water and wastewater industry spirit.

I look forward to my term as Director and the opportunity to represent Atlantic Canada at the AWWA Board. Please send me your comments or questions at Jamie.hannam@halifaxwater.ca.



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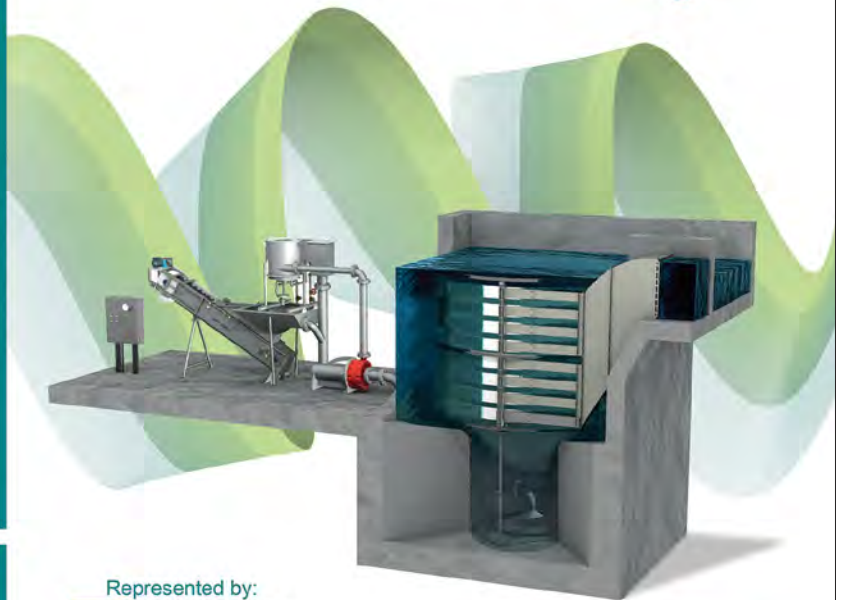
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Getting ready for WEFTEC

I hope everyone is having a great summer. With fall nearly here it is time to think about WEFTEC, which will be taking place in New Orleans from September 27 to October 1. This truly is the WEF premiere event and should not be missed. Go to WEF.org and then click the WEFTEC link for more information on registration, accommodations, etc. The event is filled with great workshops, training, and a massive trade show with the 'who's who' of the equipment industry taking part. I also have my

board meetings and Canadian Affairs Council meetings there. Try to attend – it will be worth your while.

A big focus with WEF and at WEFTEC is stormwater. This is a very important issue to all of us and WEF has been holding conferences and workshops, and has a website dedicated to this subject at stormwater.wef.org. Be sure to have a look and contact me if you need any information or input on the subject.

ACWWA continues to cruise along with a steady WEF presence and our October conference will have many

sessions dedicated to wastewater and WEF. Also, past WEF president Sandra Ralston will be attending as the WEF representative this year; be sure to have a chat with her. Our conference is in Halifax starting on October 19; be sure to register now.

That is about all I have for now, but I will have lots to report when I get back from WEFTEC. Keep encouraging WEF membership to your co-workers, as it definitely has great value for anyone in the industry. ☺



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CWWA – The ‘National Voice’ for the municipal water and wastewater sector in Canada

The CWWA continues to strengthen its reputation as ‘The National Voice for the municipal water and wastewater sector in Canada.’

First and foremost, CWWA is the association invited by the federal government to represent the municipal utilities on all water and wastewater related issues. We have also been increasingly contacted by other national-level agencies and organizations to be the voice of water.

This past July, CWWA was invited to meet with Infrastructure Canada to discuss its views and perspectives on priorities, existing gaps, pressures, and innovative approaches to the municipal water and wastewater infrastructure challenges in Canada. Robert Haller, Executive Director of CWWA, and Adrian Toth, Manager of Government Relations with CWWA, met with the Director of Policy and staff with Industry Canada.

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This was a great ‘get to know water’ session with Industry Canada. One key message and observation discussed was how the Minister and Ministry seem to always speak to projects of transit and bridges, sometimes roads, and then ‘other.’ Our hope is that if they better understand the issues in the water and wastewater sector, they might be more confident to speak to it and promote it as a priority sector – which it most definitely is in Canada.

Several key issues were discussed including the issues of aging infrastructure, chronic underfunding and lack of reserves, population pressures, climate change, and more.

CWWA spoke about its concepts and requested support of Industry Canada to help transition communities away from a dependency on grants towards long-term solutions and self-sustainable communities. The promotion of asset management and recognition of full cycle costs, water pricing and affordability, innovation, and energy efficiency were part of the discussions.

We believe the meeting established a solid bridge of communication and paved the road to increased collaboration between our two organizations.

The message left with Industry Canada at the end of discussions was that CWWA is looking forward for Minister Lebel to mention ‘water and wastewater projects’ when he speaks to infrastructure challenges and the priorities for the Canada Building Fund.

CWWA continues to work strategically to develop a strong working relationship with the Federation

of Canadian Municipalities (FCM). Following our collaboration on the WSER regulations, we coordinated our messages around the need for federal funds for infrastructure. So far in 2014, we have coordinated with FCM on responding to proposed legislation concerning water intakes and provided technical input to their review of the Infra-Guide program.

While the Canada Building Fund was announced in 2013 as a 10-year program, it only came into force in 2014. CWWA continues to provide comments to the federal government and our members following each budget and new program launched.

Upcoming events remaining in 2014 16th Canadian National Conference on Drinking Water

This is the 16th Canadian Conference on Drinking Water, to be held in the National Capital Region from October 26–29, 2014. Taking place at the Hilton Lac Leamy in Gatineau, Quebec, this is a fantastic venue for meeting and networking, and to enjoy everything the National Capital has to offer.

Window on Ottawa – 2014

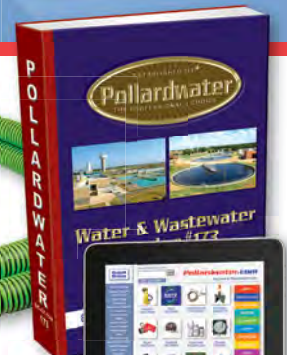
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Should any other information be required on CWWA activities or initiatives, please do not hesitate to contact me directly at roland.richard@nb.sympatico.ca or visit the CWWA website at www.cwwa.ca.

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Winner of the **Silent Hero Award**, Gary MacKinnon



Gary MacKinnon is a Station Operator who works for the City of Charlottetown, PEI.

- 1. Where do you currently live?**
In Charlottetown.
- 2. Where did you grow up?**
I grew up in Montreal, Quebec until I was 11 years old. Since then, Charlottetown.
- 3. When I'm not working...**
I'm organizing, and watching TV.
- 4. The accomplishment I'm most proud of is...**
Securing a good full-time job.
- 5. If you could go on a road trip with any one person (living or dead), who would it be and where would you go?**
I'd go to the Georgia Aquarium with my five-year-old niece.
- 6. What is your philosophy on life?** Treat all people the same.
- 7. Toughest thing about your job?** Finding time to do all that you would like done.
- 8. When you were a kid, what did you want to be when you grew up?**
A police officer.
- 9. Last book you read?**
Angels of Death.
- 10. Last movie you saw?**
'The Wolf of Wall Street.'
- 11. What music did you listen to this morning?**
Pop/rock on the local radio station.
- 12. Favourite TV show?**
'American Horror Story,' 'Justified,' and 'Banshee.'
- 13. What was the best gift you ever received?**
Life.
- 14. What is your greatest luxury?**
The cottage.
- 15. Describe your perfect day.**
Sunny and 20 degrees.
- 16. What three objects would you rescue from your burning house?** Important papers, money, and photos.
- 17. Who is the most influential person in your life?**
My parents.
- 18. What is your ideal vehicle?**
A helicopter.
- 19. How long have you been a member of ACWWA?**
Eight years.

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There are lots of opportunities to volunteer with ACWWA, both short term and long term.

- Periodic – helping out during the annual conference; be available 1–2 hours every so often if the need arises.
- Small – sitting on a committee and be given tasks that might require regular attention such as 1–2 hours per month.
- Medium – acting as a committee chair. In this role, you would have a set list of duties and work under the direction of a director.
- High – acting as a director. This role usually comes after you have been involved in another form. This can be a very rewarding role.

Here are the areas that you can help with:

- Membership
- Volunteer
- Government Affairs
- Education
- Young Professionals
- Water For People
- Communications (magazine, website, public relations)
- Scholarships

- Technical Papers (reviewing submissions for fall conference)
 - Cross Connection Control
 - Operator Involvement
- If you have any questions on volunteering or on ACWWA, please do not hesitate to contact Doug MacKinnon

(doug.mackinnon@sansom.ca), or our Membership Director Amy Winchester (amyw@cbcl.ca). We would be happy to answer any questions.

Welcome to our new ACWWA members (as of June 2014):

Name	Company	Membership
Jeffrey Diamond	R.V. Anderson Associates Limited	AWWA
Bill Edwards	City of Saint John	AWWA
Licai Hu	Dalhousie University	AWWA
Timothy Leblanc	NB Department of Environment and Local Government	AWWA
James Margaris	City of Saint John	AWWA
Keith McKeen		AWWA
Betty Pryor	Charlottetown Water & Sewer Utility	AWWA
Kyle Strang	SpryPoint	AWWA
Benjamin Trueman	Dalhousie University	AWWA
Dwayne Acton	Town of Sackville	WEF
Kyle MacIntyre	Dillon Consulting Limited	WEF
Karen Paddock	Pinnacle Engineering Limited	WEF

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Regulatory update: PEI water act By Morley Foy, P.Eng., ACWWA Government Affairs Committee

The Prince Edward Island government will be introducing a water act to provide a modern, comprehensive legislative and policy framework to provide for the security of both water quantity and quality. The act will ensure the sustainability of the province's water resources and associated aquatic ecosystems, now and into the future.

The proposed new water act would:

- establish water use efficiency standards for all water users;
- help to better protect habitat for aquatic life;
- identify and address environmental impacts, either positive or negative, caused by human activity; and
- develop strategies that support timely responses to climate change.

The new act would also create legislation for areas such as groundwater allocation, discharges into fresh and marine water environments, and mandate targets for water quality.

At present, there are various pieces of legislation, regulations, and policies in place, but no comprehensive set of water policies embodied in one piece

of legislation. The new water act will address this need.

In its soon-to-be-released white paper, the Prince Edward Island government is outlining its proposal to:

- improve licensing and management programs;
- introduce water access and statutory water allocation plans and limits;
- reduce red tape and legislation; and
- manage water sustainably into the future.

Water users will benefit from having legislation and supporting practices that:

- clarify, consolidate, and update legislation;
- introduce water allocation plans, which have the force of law and have been developed through effective and ongoing engagement of the public;
- enable water resources to be managed at a local level;
- introduce transparent and strengthened management and compliance measures; and

- create a simplified, risk-based assessment process for granting or denying licenses to access water.
- As part of the process for developing the water act, public consultations will be carried out by an arms-length group and a review of legislation in other jurisdictions will be undertaken. The work will begin immediately.

Environment Minister Janice Sherry said that the act will address a wide range of matters related to the supply and quality of water, including drinking and wastewater facilities, conservation, and watercourse and wetland protection. She said that no consideration will be given to lifting the moratorium on high-capacity wells for agriculture irrigation purposes until the water act and regulations are in place.

The development of a water act was one of the recommendations of the Standing Committee on Agriculture, Environment, Energy and Forestry following its consultations earlier this year on high-capacity wells for agriculture irrigation purposes. 

Young Professionals By Brad McIlwain

For my first post as the new ACWWA YP Chair, I would like to start by thanking Greg McCann for all of his hard work as Chair over the last few years. If anyone has any events or news that they would like to have announced, or if you would like to become more involved with ACWWA, feel free to contact me at bmcilwain@cbcl.ca.

The ACWWA 2014 Annual Conference is approaching fast and will be held in Halifax on Oct 19-21. Registration is open and can be accessed through www.acwwa.ca/conferences/2014conferencereg.html. There will be five Fresh Ideas presenters this year plus presentations by several


other members of the YP community. The Fresh Ideas presentations will be judged and a winner will be selected to represent the ACWWA section at the ACE conference next year in Anaheim, California. Well done, YPs!

A special note for the annual conference is the YP mixer, which will be held Sunday evening October 19 starting at 5:30 pm at the Beer Market (second floor of The Lower Deck pub). Even if you are not attending the conference everyone is encouraged to attend, as it provides a wonderful opportunity to get out and meet some of your peers.

The Technical Committee for the 2014 Annual Conference is looking

for technical session moderators. This is a great opportunity to get your face out there and involves introducing the presenter, keeping presentations within the allotted timeframe, and handing out a gift to the presenter after their presentation. If you are interested in moderating, please contact Julie Stokes (Julie.Stokes@moncton.ca).

For all students, the ACWWA Lloyd Douglas Scholarship is up for grabs. Up to four \$1,000 scholarships will be awarded, one for each province. The deadline to apply is October 10, 2014.

Other upcoming events include Blue Thursdays, AWWA and WEF webinars, and ACWWA certification courses. 

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Lloyd Douglas Scholarship (2014 Competition)

The Atlantic Canada Water and Wastewater Association (ACWWA) established this scholarship in 2010 in recognition of dedicated service rendered by long-time member and tireless ACWWA supporter, Lloyd Douglas. ACWWA is a 'Section' of the American Water Works Association (AWWA) and a 'Member Association' of Water Environment Federation (WEF). ACWWA is comprised of over 550 water professionals from Atlantic Canada representing the water and wastewater industry from a number of disciplines, including System Design & Consulting, Utility Management & Operations, Academia & Students, and Service Providers & Contractors. The goals of the association under its *Strategic Plan* are to:

- Support industry best practices
- Provide our industry with an education for the future
- Promote information exchange in the water and wastewater industry
- Conduct annual conferences
- Enhance government relations
- Increase/optimize membership
- Improve our Association's effectiveness

Number and value: Up to four awards with a value of \$1,000 each (one for each Atlantic Canadian province: NB, NL, NS, and PEI)

Tenure: One year (non-renewable)

Eligibility: An applicant shall

- be a Canadian citizen or permanent resident of Canada;
- be registered as a full-time student in a post-secondary institution in Atlantic Canada;
- have successfully completed at least one year of post-secondary education; and
- intend to pursue a career related to the water or wastewater industry.

Fields of study: University degree in engineering/science or college diploma in water/wastewater field.

Assessment criteria:

- Academic record after at least one year completion of post-secondary education (30%);
 - Statement/essay (60%); and
 - Work experience and extracurricular activities (10%).
- Preference will be given to a candidate with a demonstrated interest in working in the water or wastewater treatment sectors.

Application: The application shall include

- a short biography, a recent photo, and contact information including name, phone number, mailing and email addresses;
- a 500-word statement or essay of the applicant's interest, knowledge, and future goals in the water/wastewater industry together with applicable work experience or extracurricular activities;
- a description/list of planned future studies; and
- supporting documents including i) an official transcript completed to date, and ii) a copy of passport (the page showing your name, nationality, and place of birth), citizenship/PR certificate or birth certificate.

The Scholarships Committee **accepts only electronic applications**, which should be received via email by **October 10, 2014**. Scanned copies of the supporting documents are required. The original copy of official transcripts may be directly mailed by the institution.

Apply to: Dr. Bing Chen, Chair of Scholarships Committee
Atlantic Canada Water and Wastewater Association (ACWWA)
PO Box 28141, Dartmouth, NS, B2W 6E2
Email: contact@acwwa.ca

Selection: Selection will be based on the principle of open and equal opportunity and carried out by the Scholarships Committee. The award winners will be announced in the following January.



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Membership benefits

By Jamie Hannam, AWWA Director

Join the online Resource Community at AWWA to enhance your water industry knowledge

The AWWA website (www.awwa.org) provides an expansive wealth of information and resources for all aspects of the water industry. All members are encouraged to invest some time in exploring and learning the many avenues of this significant member benefit. One interesting area of the AWWA website provides a series of collaborative communities for sharing resources including information, tools, and learning opportunities. The **Resource Communities** section (www.awwa.org/resources-tools/water-knowledge) covers a wide variety of relevant topics and a unique format to enhance collaboration. See the following information for greater detail. Give it a try!


Resource Communities:

- Asset Management
- Backflow Prevention & Cross-Connection Control
- Climate Change

- Customer Service
- Desalination
- Drought
- Emergency Preparedness
- How Water Works
- Reuse
- Small Systems
- Source Water Protection
- Stormwater
- Wastewater
- Water Conservation
- Water Loss Control

At the bottom of every AWWA webpage is an icon for RSS news feeds. Clicking this icon will direct you to the RSS subscription page for all AWWA news feeds.



Select AWWA Resource Community News to subscribe to all Resource Community news feeds. 

CWWA - Canadian Water and Wastewater Association 2014 Window on Ottawa

By Roland P. Richard, P.Eng.

The Canadian Water and Wastewater Association (CWWA) is pleased to announce its upcoming annual event, *Window on Ottawa*, to be held November 19–20, 2014, at the Albert at Bay Hotel, in Ottawa, ON.

This year's conference will cover two full days of sessions featuring presentations and panel discussions with a focus on current and emerging national trends. Here are some of the key topics to be addressed by panellists: Infrastructure; Infrastructure Adaptation to Climate Change and Impacts on Budget; Value of Water; Water Physical Infrastructure Protection and Cyber Security; Wastewater Systems Effluent Regulations; Drinking Water Programs; and Flushables.

A large number of senior federal representatives, municipal water utility managers, regulators, as well as the private sector and academia are expected to attend.

The Window is CWWA's core event, offering municipal managers an opportunity to hear about federal initiatives from the senior government officials working on these programs.

A key advantage to attending the Window is that it not only allows delegates an opportunity to hear about these programs first-hand, but also allows them to raise regional and national concerns.

The CWWA's Annual General Meeting is always hosted in conjunction with the Window on Ottawa. This is an excellent opportunity for members to hear about CWWA activities for the past year and priorities for the future.

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I encourage you all to attend this most important networking opportunity with other water and wastewater professionals from across Canada.

Visit the CWWA website for the complete details:
www.cwwa.ca 

Tetrachloroethylene in drinking water


Source: www.hc-sc.gc.ca

The Federal-Provincial-Territorial Committee on Drinking Water (CDW) has assessed the available information on tetrachloroethylene with the intent of establishing a drinking water guideline. The purpose of this consultation is to solicit comments on the proposed

guideline, on the approach used for its development and on the potential economic costs of implementing it, as well as to determine the availability of additional exposure data.

The CDW has requested that this document be made available to the public and open for comment.

Comments are appreciated, with accompanying rationale, where required. Comments can be sent to the CDW Secretariat via email at water_eau@hc-sc.gc.ca. If this is not feasible, comments may be sent by mail to the CDW Secretariat, Water and Air Quality Bureau, Health Canada, 3rd Floor, 269 Laurier Avenue West, A.L. 4903D, Ottawa, Ontario, K1A 0K9. All comments must be received before September 16, 2014.

It should be noted that this Guideline Technical Document on tetrachloroethylene in drinking water will be revised following evaluation of comments received, and a drinking water guideline will be established, if required. This document should be considered as a draft for comment only. 

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A.P. Black Research Award nominations due by October 1

Source: awwa.org

Do you know an AWWA member who should be recognized for their outstanding research contributions to water science and supply over an appreciable period of time? Established in 1967 in honour of Dr. A.P. Black, past winners include Dr. Jennifer L. Clancy in 2014, R. Scott Summers in 2013, and Steve Hrudehy in 2012.

Nominations are due by October 1. For more information, go to www.awwa.org/membership/get-involved/awards/award-details/articleid/14/a-p-black-research-award.aspx. 



The Value of ALL Water

By John Eisnor and Rob Gillis, 2014 ACWWA Annual Conference Co-Chairs

Registration is open and filling fast!

It is hard to believe that over a year's worth of hard work by the conference committee will come together on October 19 to 22, 2014, at the ACWWA's 67th Annual Conference in Halifax. Things are shaping up to be a great conference.

A complete registration package is included in this issue of *Go With the Flow* and you can also find the registration form and up-to-date conference information on the conference page of the ACWWA website (www.acwwa.ca). Registration has been steady and the hotel is getting full, so make sure you register as soon as possible so that you are not disappointed.

A high-quality technical program was built around this year's conference theme, *The Value of ALL Water*. We are pleased to welcome Dr. Robert Fournier for our keynote address. You may recognize Dr. Fournier from listening to CBC Information Morning where he provides science commentaries on a regular basis.

The conference committee is very excited about the rest of this year's program. On Sunday, delegates and companions can golf at the Lost Creek Golf Club or for those interested in something more technical, there will be tours of the new Eastern Passage Wastewater Treatment Facility and the N-Viro Biosolids Facility. On Sunday evening, everyone will reconvene at the hotel for the Meet and Greet event, where you can catch up with old friends and make some new ones. On Monday morning, the conference will officially kick off with the opening general session, where the major AWWA and WEF awards will be handed out and we will hear from our keynote speaker. On Monday afternoon, make sure you attend the ever-popular Top Ops competition and cheer on your favourite team. Again this year, Monday night will be your opportunity to dine at the restaurant/pub of your choice, as the night is your own. This will be a great opportunity to enjoy the tastes of Halifax before heading to the ABEA Hospitality night at Murphy's on the Water. Tuesday morning will start off with the Best Tasting Water Competition followed by the ABEA Trade Show that will run all morning. Tuesday will wrap up with the Down East Feast and the music of the Mellotones.

In an effort to provide you with more value and further networking opportunities, the conference schedule has been extended into Wednesday morning... a conference first. Wednesday morning will start with the annual Awards Breakfast followed by more technical sessions including two technical demonstration sessions... another conference first.

We look forward to seeing you in Halifax!

Conference schedule highlights

Sunday, October 19

12:00 pm	Golf at Lost Creek Golf Club
12:00 pm	Registration Desk Opens
1:00 pm	Technical Tour – Eastern Passage Wastewater Treatment Facility
1:00 pm	Technical Tour – N-Viro Biosolids Facility
5:30 pm	Young Professionals Mixer – Lower Deck Beer Market
7:00 pm	Registration Desk Opens
7:30 pm	Meet and Greet Reception

Monday, October 20

7:00 am	Water For People Fun Run/Walk
8:00 am	Pick-up Breakfast
8:00 am	Registration Desk Opens
8:30 am	Conference Opening/Awards and Keynote Speaker
10:00 am	Nutrition Break
10:00 am	Water For People Silent Auction Opens
10:15 am	Technical Sessions
12:00 pm	Annual General Meeting Luncheon
1:45 pm	Technical Sessions
3:15 pm	Nutrition Break
3:30 pm	Top Ops Competitions
5:00 pm	Dine Around Town (on your own)
8:00 pm	ABEA Hospitality Night at Murphy's on the Water – Harbour Cruise

Tuesday, October 21

8:00 am	Registration Desk Opens
8:00 am	Pick-up Breakfast
8:00 am	'Best of the Best' Tap Water Taste Test Event
9:00 am	Water For People Silent Auction Opens
9:00 am	ABEA Tradeshow
12:00 pm	ABEA Tradeshow Lunch
1:00 pm	Technical Sessions
2:30 pm	Nutrition Break
2:45 pm	Technical Sessions
5:30 pm	Down East Feast Reception
6:30 pm	Down East Feast and Entertainment

Wednesday, October 22

7:30 am	ACWWA Awards Breakfast
9:00 am	Technical Sessions
10:30 am	Nutrition Break
10:45 am	Technical Sessions





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ACWWA Halifax Conference Program and Registration



The Value of ALL Water

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October 19 - 22, 2014
acwwa.ca



Register online at www.acwwa.ca



Welcome from the Chair

Margaret Walsh, Ph.D., P.Eng

I attended my first ACWWA conference five years ago in Halifax, Nova Scotia. Every year since 2009, I have attended the ACWWA Annual Conference in Saint John, St. John's, Charlottetown, and Fredericton. This fall, I get to complete the circle with what has been a fantastic tour of Atlantic Canada with the 2014 ACWWA Annual Conference returning to Halifax, NS. The theme of the conference this year is *The Value of ALL Water*, highlighting the importance of water in our lives and the value it brings to our communities. As professionals working in the

water and wastewater industry, our day-to-day work is vitally important to the people we serve, and our annual conference brings us value in so many ways.

Benefits of attending the ACWWA Annual conference include education you need to advance your career with over 45 water and wastewater related technical sessions, the ABEA Tradeshow, opening session and keynote speaker, networking opportunities with other water and wastewater professionals, friendly competition with Top Ops and

Best Tasting Water, recognition of our colleagues with ACWWA Awards and a chance to give back to your profession with Water For People Walk/Run and Silent Auction.

Our conference chairs this year, Rob Gillis and John Eisnor, and their committee have put together a fantastic program you will not want to miss. Register today, and join us for the 2014 ACWWA Annual Conference this October 19–22 in Halifax, Nova Scotia!

Marg Walsh
2014 ACWWA Chair 

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**“Register today,
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ACWWA Annual
Conference this
October 19–22
in Halifax,
Nova Scotia!”**

Keynote speaker – Robert O. Fournier, Ph.D.


Dr. Robert O. Fournier, born and educated in the United States, is now a Canadian citizen. He received his Master's and Doctoral degrees in Biological Oceanography from the College of William and Mary, and the University of Rhode Island. In addition, Dr. Fournier held fellowships in Norway and England before joining the faculty of the University of Hawaii in 1969.

In 1971, he joined Dalhousie University where he is now a Professor of Oceanography (Emeritus). His research interests have included studies of the physical and chemical processes that contribute to the high biological productivity on continental shelves. From 1985 to 2000, Dr. Fournier served as Associate Vice-President (Research & International Relations), and Executive Director of Ocean Studies, and was instrumental in facilitating the acquisition of a number of important research initiatives.

Dr. Fournier is a former member of the Science Council of Canada, the National Advisory Board on Science and Technology, which reported directly to the Prime Minister, and chaired the Nova Scotia Council of Applied Science and Technology, which advised the Nova Scotia government on science and technology policy. At the request of the Premier of Nova Scotia, he chaired the Halifax Harbour Task Force, and also served as a member of the Northern Cod Review Panel that reported to the Federal Minister of Fisheries. Subsequently, he chaired the Joint Public Review Panel for the Sable Offshore Energy

Project, the Electricity Marketplace Governance Committee, and the Joint Review Panel for the proposed Whites Point Quarry on Digby Neck. He is presently active in marine-related projects in Uruguay and Nunavut.

Dr. Fournier is a well-known interpreter of science to the public, and has been a regular contributor of science commentaries to many local and national CBC radio and television programs since 1974. He has delivered more than 2,000 weekly science commentaries on local radio (Information Morning, 1978–present)

and national television (Midday, 1985–2000). In addition, during the mid 1980s he was science columnist on This Country in the Morning for five years, hosted a one-hour TV documentary, Iceberg Alley, and has been involved in a large number of diverse speaking engagements, both locally and nationally, usually on contemporary science issues. 



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Monday, Oct. 20	10:15-10:45	10:45-11:15	11:15-11:45
Technical Session: A1	Energy efficiency at Halifax Water - an overview of energy reduction opportunities Jeff Knapp - Halifax Water	Experiences of a First Nation's water utility using SCADA for managing day-to-day operations and an asset management plan for long-term infrastructure renewal Stephen Pyke - Opus International	Halifax Water - Kearney Lake Road water transmission main renewal Jamie Hannam - Halifax Water
Technical Session: A2	Development of a wet weather management strategy for Halifax Water Shawn Rowe - Halifax Water	Upgrading lagoons to remove ammonia, phosphorus and nitrogen Todd Latchaw - Nelson Environmental	18 PS overflow detection and monitoring Alexander Wilson - CBCL
Technical Session: A3	The role of drinking water treatment factors on iron particle characteristics and water quality Safiur Rahman - Dalhousie University	Application of advanced oxidation processes for controlling natural organic matter in drinking water *Sean MacIssac - Dalhousie University	The use of tubular nanofiltration technology for treatment of DBPs in small drinking water plants Dr. Lyle Henson - Membrane Specialists LLC

Monday, Oct. 20	1:45-2:15	2:15-2:45	2:45-3:15
Technical Session: B1	Partnering for success: Partnership for Safe Water brings water quality improvements and recognition to utilities Barbara Martin - American Water Works Association	Monitoring, mitigating and managing lead in drinking water: Halifax Water's successes and challenges Alisha Knowles & Krysta Montreuil - Halifax Water	Why study water? Challenges and opportunities facing water professionals Graham Gagnon - Dalhousie University
Technical Session: B2	The environmental risk assessment process, as applied to the Greater Moncton Wastewater Treatment Plant Vincent Balland - Natech Environmental Services Inc.	Implementation of fixed-film BioCord Reactors in existing lagoons and treatment plants Don Bishop - Bishop Water Technologies	Anti-clogging lime milk preparation and injection system Frederic Noel - CON-V-AIR Solutions
Technical Session: B3	Halifax Water asset management roadmap and implementation Valerie Williams - Halifax Water	Discovering actual wall-thickness in a 12" steel pipe in British Columbia: a 22-hour journey William Jappy - PICA Corporation	Hydraulic performance assessment and floodplain analysis: Halifax case study Mike Gregory - AECOM

Tuesday, Oct. 21	1:00-1:30	1:30-2:00	2:00-2:30
Technical Session: C1	Halifax Water integrated resource plan Valerie Williams - Halifax Water	Integrating declining water demand trends into municipal water supply master planning Leigh McDermott - Stantec	City of Moncton Tower Road Dam project Ensor Nicholson - City of Moncton & Bruce Buchanan - RV Anderson
Technical Session: C2	Safe but smelly: Halifax Water deals with geosmin Krysta Montreuil - Halifax Water	The use of UV / peroxide for taste and odor treatment Terry Keep - Trojan Technologies	Treatment alternatives for algae related to taste & odor Simon Breese - AECOM
Technical Session: C3	Eastern Passage wastewater treatment facility expansion and upgrades Louis Tasfi - Dillon Consulting Limited	Membrane bioreactors – are they in your future? Steve Murphy & Nick Cooper - AECOM	Optimization of residuals management at a drinking water treatment facility *Holly Sampson - Dalhousie University

Technical program



Tuesday, Oct. 21		2:45-3:15	3:15-3:45	3:45-4:15
Technical Session: D1	Maintaining value of water infrastructure - moving from reactive to proactive models of funding for water assets through asset management plans in small municipalities *Kevin Coffey & Abra Ens - AECOM	Watershed studies in Halifax Regional Municipality to support development planning *Timothy Bachiu - AECOM	From bench-to pilot-scale: Maximizing the returns from drinking water treatability studies *Julie DiCicco - Dalhousie University	
Technical Session: D2	Benefits of a high-fibre diet: A retrospective and forward look at membrane filtration in Canada Martin Gravel - AECOM	Nutrient removal at small community and decentralized wastewater treatment facilities Justin Hebner - ECOfluid Systems Inc.	What is the service life of granular filter media? David Hambley - AWI	
Technical Session: D3	Pump performance & energy efficiency testing: the Ontario experience Djordje (George) Radulj - HydraTek & Associates Inc.	Booster station refurbishment in the Arctic Eric Bell - exp Services	Condition assessment - pipewall thickness measurements for small diameter potable water mains Piero Salvo - GAME Trenchless Consultants	

Wednesday, Oct. 22		9:00-9:30	9:30-10:00	10:00-10:30
Technical Session: E1	Condition assessment of AWWA C300 reinforced concrete cylinder pipe - Montreal case study Cameron White - Pure Technologies Ltd.	S.M.A.R.T. Flushing Technology: advances water quality management, conserves natural and financial resources Jeff Jensen - Mueller Canada	Supplementary water supply source, Iqaluit, NU Boris Allard - exp Services	
Technical Session: E2	Establishing minimum free chlorine residual concentration for microbial control in a municipal drinking water distribution system Graham Gagnon - Dalhousie University	Investigating biological treatment for manganese removal from drinking water Daniel Wesley - Dalhousie University	The science of mixing and improving water quality in waterstorage tanks Michael Duer - Tideflex Technologies	
Technical Session: E3	Technical Demonstration - To be announced			

Wednesday, Oct. 22		10:45-11:15	11:15-11:45
Technical Session: F1	Water reuse trends in the State of Florida David Ammerman - AECOM	Getting in the driver's seat with AMI Ben Van Mierlo - Neptune Technology Group (Canada) Ltd.	
Technical Session: F2	A novel solution to flushing optimization through rapid microbiological field testing Dave Tracey - LuminUltra Technologies Ltd.	Development and evaluation of a flow-through solar photocatalytic membrane reactor for disinfection and NOM degradation Stephanie Gora - University of Toronto	
Technical Session: F3	Technical Demonstration - To be announced		

* Fresh Ideas presenters are first time Young Professional participants 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 2015) in Anaheim, California, representing the Young Professionals of ACWWA. Along with complimentary conference registration provided by the ACE 2015 organizing committee, ACWWA will provide the winner with a stipend to assist with travel costs to the conference.

ABEA Hospitality Reception

www.abea.biz




The Atlantic Branch Equipment Association is pleased to invite all delegates to the '7th Annual ABEA Common Hospitality Reception' on Monday evening, beginning at 8:15 pm. This event has become one of the premier events of the conference as it allows for social interaction between delegates and the equipment suppliers whom they deal with on a daily basis. This year's event will begin with a chartered Halifax Harbour Cruise aboard the ships Harbour Queen and Haligonian III – both vessels are double-decker, weather



sheltered, and offer full bar service and washroom facilities. Further boat cruise information can be found at www.mtcw.ca/CharterVessels.php.

Upon completion of the scheduled 1.5 hour boat cruise, delegates are invited to continue the evening with

their colleagues and ABEA member companies at a private function at Murphy's on the Water bar and restaurant. Conveniently located on the harbourfront in downtown Halifax and only minutes from the Marriott Harbourfront, the Murphy's venue is directly adjacent to the docks where both tour boats are birthed, allowing for an easy transition from land to sea to land. As always, snacks, music, and drinks will be plentiful at the Annual ABEA Reception – you won't want to miss out on the ABEA member hospitality! 



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ACWWA/ABEA Tradeshow – new time

The 2014 ACWWA/ABEA Tradeshow will be held on the morning of Tuesday October 21, 2014 at the Halifax Marriott Harbourfront Hotel on the second floor in Nova Scotia ballrooms A, B, C, and D as well as the ballroom foyer – allowing for upwards of 70 booths! Following the 'Best Tasting Water' competition in the adjoining Halifax Ballroom, the tradeshow will kick off at 9:00 am and run until 1:00 pm. This is a new time slot for the tradeshow, which has been historically held on the Tuesday afternoons. We hope that all delegates can set aside their entire morning and into lunch, chatting with the suppliers and manufacturers whom they deal with on design work, consulting, and equipment supply.

Don't forget to come by the Atlantic Branch Equipment

Association's desk near the tradeshow area to receive your complimentary bottle of Hope Blooms Salad Dressing, another product showcasing the ABEA's continued support of local business organizations. Also, check out the uplifting story of community change and success and read about their recent appearance on CBC's Dragon's Den at www.hopeblooms.ca.

While at the ABEA booth, remember to ask your ABEA board member about the ongoing Water For People projects that we are currently funding through our annual donations to this great organization – last year topping \$12,500.00! We hope all delegates can show similar support to our ABEA membership by taking the time to visit each and every booth during the 2014 ACWWA/ABEA Tradeshow.

Don't forget – Tuesday am!
www.abea.biz 

Companions program 2014

Welcome to Halifax, Warden of the North, home of the Bluenosers, the world's largest ice-free harbour, and the second largest natural harbour in the world, the second-most bars per capita of any city in Canada, tons of excellent restaurants, and of course the famed Citadel Hill. Sounds like the perfect recipe for a great visit.

For those of you who are golf enthusiasts, our annual event will begin Sunday, October 19 with a shotgun start, 10:00 am at the Lost Creek Golf Course in Lower Sackville. The 'Meet and Greet' will be held Sunday evening where you will have an opportunity to catch up with past acquaintances.

Monday we will start our day with a 10:00 am departure to Gaspereau Vineyards, considered our prettiest winery, with the friendliest staff and fantastic wines, making for a great experience. Then we will head to the famed Luckett Vineyards to take in the stunning view of the Annapolis Valley in all its glory. After a wine tasting, we are free to wander into the vineyard and call a friend from the genuine British phone box in the vineyard, or snap a great picture of the view, while our bistro-style lunch is prepared. A glass of wine is included with our lunch (of course!). Finally, we end the day at Grand Pré Wines, Atlantic Canada's oldest winery, with a vineyard tour and a tasting of their unique wines in their beautiful tasting room. We will return to the Marriott by 4:00 pm (approximately) in time to prepare for our dine-around-town supper, prior to the ABEA Hospitality event being held at Murphy's on the Water.




Tuesday morning we will gather in the lobby entrance for another 10:00 start. We will be met by Mr. Andy Smith (a seasoned tour guide, as well as a professional actor) of TattleTours of NS. "This is such a fun tour. Andy is a pro – smooth as silk, engaging and funny. Full of detailed facts and little known tidbits of Halifax history, past and present, this tour is a relaxing way to explore the downtown and have a great bit of fun. As a local, I loved the Halifax trivia I didn't already know and this is a must do at least once for anyone looking for the full Halifax experience."

– *Tripadvisor*

We will wrap up the morning entertainment with lunch at the Waterfront Warehouse – located on the historic Halifax Waterfront – where we will experience Nova Scotia's maritime tradition in a relaxed, warm restaurant atmosphere. Good food and good friends, what more could we ask for!

The rest of the day is yours to enjoy. Make certain you take an opportunity to stop by the Water For People silent auction tables before heading to your room for preparations for the all-important Down East Feast and entertainment.

We look forward to hosting you in Halifax – see you there! 



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'Best of the Best': Water Taste Test fun event

This will be the second year for the ACWWA 'Best of the Best' Taste Test competition. Atlantic Canadian municipal water utilities are invited to submit a water sample to be judged by a panel of media and water taste professionals. Samples will be judged on appearance, smell, taste, and overall impression. The competition will take place at the start of the ABEA tradeshow Tuesday, October 21, 2014. 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 Anaheim in 2015.

Come out 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. Entry forms are due by September 13, 2014. For more information, please contact Krysta Montreuil at (902) 869-0171 or krystam@halifaxwater.ca.

Young Professionals mixer

The ACWWA Young Professionals Committee is a very active group, with technical tours, educational, and social events organized throughout the region each year to encourage participation through educational and networking opportunities for newer members of ACWWA, and our industry.

Everyone is encouraged to stop by The Beer Market on Sunday afternoon and join our Young Professionals for some light refreshments and conversation with newer members of our industry. The Beer Market is located on the second floor of the Lower Deck Pub, right next door to the Marriott Hotel.

Top Ops competitions



The Top Ops competition will mark its 10th anniversary at the 2014 ACWWA Annual Conference. The event has grown into a must-see event at the conference. Enter a team to test your knowledge and get in on the fun in a fast paced, 'Reach for the Top' style contest for operators.

Spectators can expect to see some of Atlantic Canada's best water and wastewater operators match wits as they



compete for the water and wastewater Top Ops championships. If you have ever watched Top Ops from the sidelines in previous years, but thought to yourself, "I could do that," why not enter a team in this year's event?

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 (506) 460-2179.

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Technical tours

Eastern Passage Wastewater Treatment Facility


The Eastern Passage Wastewater Treatment Facility Expansion and Upgrade project is the largest capital project that Halifax Water has implemented since the 2007 merger, forming Canada's first fully integrated water, wastewater and stormwater utility. The project involved a very large, broad and diverse team in order to complete the multidiscipline work involved in the construction of a wastewater treatment facility. The total project cost for Eastern Passage was \$60 million and is a key component of the overall Eastern Passage Wastewater Management Plan (EPWWMP).

The project was initiated by the Halifax Regional Municipality (HRM) with the completion of the EPWWMP in 2006. Based on HRM Council's direction, work continued on the basis of utilizing a Design-Build approach

to implement the project. The Design-Build methodology assembles both the design and construction components of a project on a single team that delivers a full, performance-based solution for a fixed fee.

The facility was originally constructed in 1974 with an average annual daily flow treatment capacity of 8,636 m³/day (population equivalent of 18,000). The facility was further expanded in 1987 and the level of treatment was downgraded to primary in anticipation of the then proposed Halifax Harbour Solutions Project's single treatment facility located near McNabs Island. The expansion increased capacity to an average annual daily flow of 18,000 m³/day (population equivalent of 38,000). Ultimately it was decided to use three treatment facilities to meet the requirements of the Harbour Solutions

Project. As a result, expansion was required at the Eastern Passage facility to increase capacity and deliver secondary level of treatment.

Completed on schedule and on budget, the newly expanded and upgraded facility provides secondary level of treatment with a capacity of an average annual daily flow of 25,000 m³/day (population equivalent of 50,000) with a hydraulic capacity of 120,000 m³/day. The newly expanded facility is a conventional activated sludge process complete with primary and secondary clarifiers with ultra-violet radiation for disinfection. Solids from the facility are dewatered on site by drum thickeners and centrifuges and transported to Halifax Waters Biosolids Processing Facility. The most recent upgrade achieved substantial completion in February of 2014. 

N-Viro Biosolids Processing Facility

Halifax Regional Municipality approved a \$12 million biosolids processing facility in 2004 as part of the Harbour Solutions Project, a comprehensive waste management strategy that would end the practice of large volumes of human waste entering Halifax Harbour. Halifax Water's Biosolids Processing Facility and wastewater treatment plants are now owned and operated by Halifax Water as part of its core business. N-Viro Systems operates the Biosolids Processing Facility on contract basis for Halifax Water.


As part of the Harbour Solutions Project, three advanced primary sewage treatment facilities were

constructed in Halifax, Dartmouth, and Herring Cove. The advanced primary treatment facilities remove up to 70% of the particulate material in the sewage. That material is primarily organic material with high nutrient content. The three Harbour Solutions Project WWTFs utilize rotary presses to produce a dewatered cake that is greater than 18% solids that is transported to the Biosolids Processing Facility.

In addition to the three advanced primary WWTFs, Halifax Water owns and operates 10 additional WWTFs that utilize biological processes varying from conventional activated sludge to RBCs. Waste sludge from

these facilities is either dewatered on site and transported to the Biosolids Processing Facility or transported to Halifax Water's sludge management facility, where they are dewatered by rotary presses and then transported to the Biosolids Processing Facility.

The Biosolids Processing Facility converts solids residuals into Class 'A' biosolids utilizing N-Viro's Alkaline Stabilization Process.

This tour will start at the Aerotech Sludge Management Facility, where visitors will see rotary presses produce dewatered cake, and then proceed to the Biosolids Processing Facility for an overview of N-Viro's Alkaline Stabilization Process. 

Down East Feast entertainment: The Mellotones



The Mellotones are among some of the most skillful and in-demand musicians in the region! This band gives people what they want, and they want to dance! They are a tight ensemble with top-notch vocals and powerful horns backed by solid funky grooves.

From playing sweaty late night dance floors in clubs to weddings, corporate engagements, special events and festivals, in any situation,

the Mellotones deliver a nine-piece, high energy show of R&B favorites from classic Motown, Stax, funk, James Brown, disco, and everything in between.

Audiences from across North America have witnessed this band's extreme talent and they are never short of completely impressed. As any Halifax local will tell you, The Mellotones are the best dance band in town! 🎵

ACWWA 2014 annual golf tournament

**Join us on Sunday, October 19
for a 10:00 am shotgun start
at Lost Creek**

All are welcome – and encouraged – to join us for this annual event where you can enjoy the company of old acquaintances and make new ones along the way. This year's format requires that all participants use carts so the cost includes both the green fee and the cart (\$60).

We will once again have hole sponsors, which will allow us to provide a package of items for each participant, so make certain to include your shirt/sweater size on the registration form.

If you have particular requests for playing mates please indicate this by emailing scotiatech.main@ns.sympatico.ca upon completion of your registration.

NOTE: Due to ordering deadlines for clothing articles only those who have registered prior to September 1 will be guaranteed an item in their package.

See you there!

Lost Creek



“Imagine a mature hardwood forest of rolling hills, a crystal lake and a flowing river.

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Lost Creek Golf Club opened in 1999, and is surrounded by Lost Creek Village. Only 20 minutes from Halifax, Lost Creek has recently joined the Audubon Cooperative Sanctuary System of Canada. 🎵



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Water For People Canada

At the 2013 Annual Conference, \$31,000 was raised for Water For People. These donations from corporate sponsors, individual donors, associations, and generous utilities have gone a long way to making Atlantic Canada stand out as a tremendous donor among AWWA sections. A special thanks goes out to the ABEA (donated \$15,000), the City of Moncton (donated \$10,000), CBCL (donated \$1,000), Michelin Tires (donated a set of four tires for the auction), and Greatario. Other funds were raised from the conference events (silent auction, 50/50, and Fun Run). Water For People and the ACWWA hope that the water community in Atlantic Canada can continue to provide support at the 2014 conference. Don't forget to sign up for the 2014 Fun Run when registering for the conference.

Since the 2013 conference, the Atlantic Canada Committee of Water For People has hosted the annual Well Tapped event on Friday, March 21, 2014. More than

75 water professionals and staff gathered to celebrate World Water Day. Halifax Water (donated \$500) and CBCL (donated \$500) sponsored the event. A softball tournament was held in June.

For more information about Water For People's efforts, please visit our website. The website contains stories from the field (www.waterforpeople.org/stories/) and up-to-date news on Water For People's programming (www.waterforpeople.org/news/). In addition, the new Re-Imagine Reporting Platform is a great place to see the growth in all programs. To see where donated funds are contributed and the progress of each program visit reporting.waterforpeople.org/. Any questions about Atlantic Canada's involvement with Water For People can be directed to Matt Follett at Matthew.Follett@snclavalin.com. 



“Water For People and the ACWWA hope that the water community in Atlantic Canada can continue to provide support at the 2014 conference.”



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Conference hotel information



The conference will be held at the **Halifax Marriott Harbourfront Hotel, located at 1919 Upper Water Street in Halifax, NS.**

Marked with a 4-star rating, the Halifax Marriot Harbourfront Hotel offers world-class amenities with a harbourfront location that puts you within minutes of the Ferry Terminal, Maritime Museum of the Atlantic, and the World Trade and Convention Center. The 332 air-conditioned guestrooms come complete with flat-panel cable televisions, living areas, and coffee/tea making facilities. The hotel also features a steam room, fitness center, indoor swimming pool, as well as a business center and multiple meeting rooms.

A special conference room rate of \$199 plus taxes per night is in place beginning October 15, 2014 and ending October 25, 2014.

Please reserve your room by September 17, 2014 to receive this rate. Reserve your room today by calling 1-800-943-6760, or follow the web link on the ACWWA webpage (www.acwwa.ca). 



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Conference registration



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PART 1 – GENERAL INFORMATION

FIRST NAME	LAST NAME		ORGANIZATION	
MAILING ADDRESS			CITY	
PROVINCE	COUNTRY	POSTAL CODE	AWWA/WEF MEMBERSHIP NUMBER	
PHONE	FAX			
REGISTERED COMPANION	EMAIL ADDRESS			
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 2 – REGISTRATION

Full Conference Delegate – On or Before October 3, 2014	<input type="checkbox"/> Member – \$475	<input type="checkbox"/> Non-Member – \$525	\$
Full Conference Delegate – After October 3, 2014	<input type="checkbox"/> Member – \$575	<input type="checkbox"/> Non-Member – \$625	\$
Companion Program	<input type="checkbox"/> Member/Non-Member – \$250		\$
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	\$
Wednesday Half Day Pass (Includes Award Breakfast)	<input type="checkbox"/> Member – \$125	<input type="checkbox"/> Non-Member – \$150	\$
<i>Full Day and Half Day passes include Pick-up Breakfast on the day of the pass</i>			
Part 2 – Subtotal			\$

PART 3 – TRADE SHOW BOOTH RENTAL & EXHIBITOR REGISTRATION

Booth Rental (Max 3 Booths & 2 People/Booth)	ABEA Member – ___ Booths @ \$500	Non-Member – ___ Booths @ \$850	\$
Extra Exhibitor Registration (includes Meet & Greet, ABEA Hospitality Reception and Trade Show Lunch)	ABEA Member – ___ @ \$75	Non-Member – ___ @ \$100	\$
Exhibitor registration does not include the full conference. To attend full conference, please register as a Delegate in Part 2			
EXHIBITOR'S NAME	EXHIBITOR'S NAME	EXHIBITOR'S NAME	
EXHIBITOR'S NAME	EXHIBITOR'S NAME	EXHIBITOR'S NAME	
EXHIBITOR'S NAME	EXHIBITOR'S NAME	EXHIBITOR'S NAME	
Part 3 – Subtotal			\$

PART 4 - MEALS & ACTIVITIES

		Please indicate attendance by checking box	
Sunday, October 19			
Golf	Shirt: S___ M___ L___ XL___ XXL___	___ @ \$60 =	\$
Technical Tour – Eastern Passage Wastewater Treatment Facility		___ @ \$10 =	\$
Technical Tour – N-Viro Biosolids Facility		___ @ \$10 =	\$
Young Professionals Mixer (Included)	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	<input type="checkbox"/> Exhibitor ___	
Meet & Greet (Included)	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	<input type="checkbox"/> Exhibitor ___	
Monday, October 20			
Pick-up Breakfast	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	Included	
Annual General Meeting Luncheon (Included for Delegate)	<input type="checkbox"/> Delegate <input type="checkbox"/> Exhibitor ___ @ \$60	<input type="checkbox"/> Companion	\$
Companion's Luncheon (Included with Companion Program)	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	<input type="checkbox"/> Exhibitor ___	
Tuesday, October 21			
Pick-up Breakfast	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	Included	
Trade Show Luncheon (Included)	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	<input type="checkbox"/> Exhibitor @ ___	
Down East Feast	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	Included	
	<input type="checkbox"/> Extra Tickets ___ @ \$85		\$
Please indicate meal choice for Down East Feast			
	___ @ Lobster	___ @ Chicken	___ @ Beef
Wednesday, October 22			
Awards Breakfast	<input type="checkbox"/> Delegate <input type="checkbox"/> Companion	Included	
	<input type="checkbox"/> Exhibitor ___ @ \$40		\$
Please describe any dietary restrictions or other special needs you may have			Part 4 – Subtotal
			\$

PART 5 - 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) 460-2179 or trent.brewer@fredericton.ca			Part 5 – Subtotal	\$

PART 6 - FEES

	Subtotal	\$
Life Members deduct \$100.00	\$	
15% HST (869 924 910 RT2)	\$	
Water For People Fun Run/Walk _____ @ \$25.00	\$	
Total Amount Due	\$	

PART 7 - PAYMENT OPTIONS

Choose payment method. Complete as appropriate.

Cheque
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Please make cheque or money order payable to "ACWWA 2014 Conference", Box 28141, Dartmouth, NS, B2W 6E2.

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SIGNATURE

Fax: 902-435-7796 or Email: contact@acwwa.ca

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Conference Information

Full 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 three weeks prior to general public. To learn more about becoming an ABEA member

and for trade show questions contact Ian Thompson at ian@aps.ns.ca.

ACWWA 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.

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Thank you to the following conference exhibitors who also support this magazine.

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Operator's Corner By Trent Brewer

1. What is the atomic absorption technique used for?
2. Two fundamental treatment requirements for public water systems using surface water sources are:
3. What forms when chlorine reacts with nitrogenous compounds?
4. A connection between a potable and nonpotable source of water is called what?
5. What is the primary reason for a dry barrel style of fire hydrant?

Answers

1. To determine the concentration of metals.
2. Filtration and disinfection.
3. Chloramines.
4. Cross-connection.
5. To keep the hydrant from freezing.

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Monica McVicar and CBCL-supported poster get top award at AWWA annual conference



At the American Water Works Association (AWWA) 2014 Annual Conference & Exposition (ACE), held recently from June 8–12 in Boston, a first-place poster finish was awarded to Dalhousie Master's student Monica McVicar. The poster (image at right) summarized research conducted by Monica in partnership with the Process Department in CBCL's Halifax

office, led by Ben Bickerton and Mike Chaulk.

The poster topped 25 qualifying entries from across North America in the Water Quality, Treatment, Research & Regulatory Issues category. The poster was entitled 'Process Control of Coagulation Processes with Online Water Quality Monitoring,' and focused on empirical data showing ways which advanced instrumentation (Streaming Current monitoring and Online UV254 analysis) may be beneficial to the operators of a water treatment plant trying to match chemical dosing quantities with frequently changing raw water quality.

The AWWA ACE conference is one of the premiere annual events in the municipal water and wastewater industry, attracting in excess of 11,000 attendees. 



Congratulations, Monica!



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