

# GO with THE FLOW

THE OFFICIAL PUBLICATION OF THE ATLANTIC CANADA WATER AND WASTEWATER ASSOCIATION



**INSIDE:**  
66th ACWWA Annual Conference  
Fredericton, NB • Sept. 29 to Oct. 1

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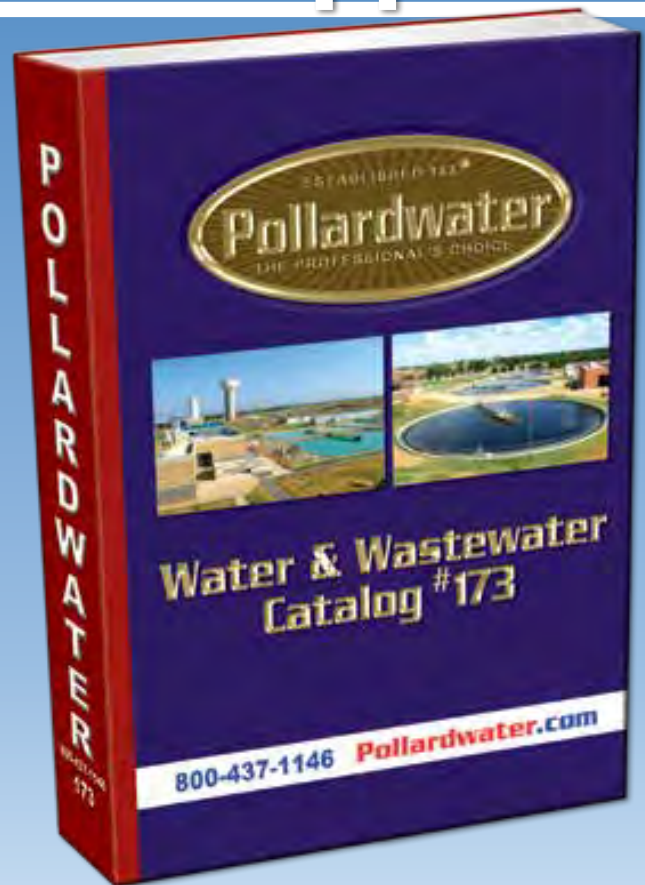
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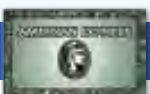
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## Take advantage of the resources available

Hello everyone and welcome to our Summer 2013 edition of *Go With The Flow* magazine. We hope you share our excitement about the new format introduced last issue. We ask that you to submit any comments you may have ([contact@acwwa.ca](mailto:contact@acwwa.ca)).

I would like to encourage everyone to take advantage of the many resources available through our parent organizations WEF and AWWA. These organizations strive for world class service to their members by consolidating relevant information in one location. The chances are you will know someone within the WEF or AWWA communities that has dealt with that same issue you struggle with today.

The AWWA website ([www.awwa.org](http://www.awwa.org)) was updated December 2012 in an effort to make it easier to navigate. There is much more to be found that the latest standards and the status of your membership account. Of particular value is the Resource Communities, under the Resources & Tools tab. The Resource Community is a collaborative area for sharing information, tools and learning opportunities by topic area. Example topics include Emergency Preparedness, Customer Service, Asset Management and Small Systems.

WEF ([www.wef.org](http://www.wef.org)) provides a similar service called Access Water Knowledge for 15 topics of interest, such as Infrastructure, Climate Change, Energy Efficiency

and Workforce Sustainability. WEF has also created a comprehensive online training resource for water professionals called the Knowledge Centre. This provides an innovative and cost effective option for training multiple people at one time through using webcasts and WEF members' expertise.

For many of us, our involvement with AWWA and WEF comes from participation at the Section level. Our Atlantic Canada section is a great example of this. The majority of our members attend the Annual Conference. Our courses are well attended. We have decent geographic representation on the Board. But there are still more ways you can get involved. Volunteer to help organize your local conference or participate in a committee. ACWWA is currently seeking volunteers for the Membership, Government Affairs, Canadian Affairs and, of course, Newsletter Committees. Our board structure is designed to see the progression of volunteers from the committees to chair to director to the executive positions. Participating in the ACWWA is a great way of building relationships, technical knowledge and leadership skills (and to have some fun too!).

I hope to see many of you in Fredericton for the 66<sup>th</sup> ACWWA Annual Conference September 29 to October 1, 2013. Please book early for this important industry event. ☺



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## ACWWA to form our own WARN

AWWA's recent member value survey has given us a lot of information about what member value about AWWA. As I indicated in the last issue, 67% of AWWA members say that AWWA is indispensable to their careers. One of the things that members indicate they value most is the myriad of technical resources such as standards, manuals of practice, videos, guide books, text books, and the list goes on and on.

As I am writing this I am in the midst of reading a newly released book from AWWA that is fascinating reading. Chlorine Revolution, by Michael McGuire was released by AWWA in April. Mike McGuire has had a storied career as a water quality and disinfection expert in the utility, academic and consulting fields. His thoroughly researched book, takes an in depth look at the history of disinfection of water and the profound effect it has had on public health, specifically the prevention of waterborne disease. He specifically answers questions such as how Patterson, New Jersey came to be the site of the first use of chlorine in North America and how the public was convinced to accept the adding of a 'poison' to their drinking water.


I would highly recommend this book for its historical value but more so for the fact that it gives a stark reminder of what we have accomplished as a profession in protecting public health and the importance of the safeguards we may take for granted today.

AWWA had another successful ACE in Denver and now it is time to start looking forward to our own ACWWA

conference in Fredericton, September 29 – October 1. Scott Grasmann and his committee have an excellent event planned. I will be honoured to host AWWA Past President Charlie Anderson. Charlie is from Arlington, Texas and spent most of his career working for the City of Arlington. Charlie passionate about the value AWWA provides for each of us and I look forward to hearing him share his thoughts with us.

In a previous report I mentioned how the water utilities in the New Jersey, New York, and Connecticut areas were able to recover quickly after Hurricane Sandy through the aid of the local WARNs (Water Agency Response Networks). Kevin Morley, AWWA's Manager of Security and Emergency Preparedness Programs has agreed to attend our conference and talk to us about the response to Hurricane Sandy. ACWWA will also be hosting a meeting of interested utilities to learn from Kevin how to form our own WARN in Atlantic Canada. Utility members should watch out for an email from Clara inviting them to this meeting in Fredericton. Atlantic Canada is one of a handful of venues in North America without a WARN and it could play a valuable role in keeping our customers in service should disaster strike.

If you want more information on WARN, just go to the AWWA website and type WARN into the search box.

Finally, at ACE, the Board of Directors was asked to improve a new strategic plan. This plan makes some subtle changes that will position AWWA to keep providing member value. I will be sharing more details in a future report. 

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## Striving to give you the best training

**H**i all WEF members in Atlantic Canada. Not a lot of news on the WEF front at this time. At the last House of Delegates meeting, WEF agreed to continue funding and build a stronger relationship with CWWA. This is great news as we can get WEF's ear on Canadian wastewater issues and this contributes to better education courses, more Canadian MA participation at a higher level within WEF.

May 15-17, I will be attending the annual WEFMAX meetings in Niagara Falls. This is a forum where member associations of WEF can get together to discuss ideas, issues and strategy for the associations to make the WEF/MA relationship stronger and more productive. I will have a report on that when I return.

We continue to strive to give you the best training possible and are always open to suggestions for courses you would like to see in ACWWA. Drop a line if you have a suggestion.

Here is an upcoming WEF event:

- Nutrient removal and recovery, trend in resource recovery and use, July-28-31, Vancouver, B.C.
- For more info on this conference go to [WEF.ORG](http://WEF.ORG).

Here is something of interest for operators:

### WEFTEC 2013 wants more of your ingenious fixes

Following last year's success, WEFTEC 2013 is seeking more creative, innovative, and simple solutions to the persistent problems operators face every day. Often the big solutions come from a tweak here or a little fix there.

WEFTEC wants to showcase these imaginative, inventive, and effective ways you have found to overcome those pesky problems. Selected inventors will be invited to give 10-minute presentations in the WEFTEC Innovation Pavilion.

### 2012 set a high bar

Last year's contest attracted more than two-dozen entries. Six received awards.

**Safety:** A ladder extension pole that quickly attaches to the rungs inside the manhole – This device helps operators be safer and meet safety requirements.

**Process control:** A foot-operated sample collector to pump mixed liquor samples from beneath a foam-covered surface – This pump eliminated heavy lifting and sample contamination from

lifting the sample through the foam.

**Maintenance:** A PVC pipe cover for a pump's lifting chain – By protecting the chain from being tangled with rags and other debris, the cover enables a chain follower to operate better when the pump needs to be removed.

**Work Environment:** Color-coded facility buildings – By painting each building a different color, operators beautified their facility as well as added a quick and easy way to help visitors and contractors navigate to the right spot.

**Resourcefulness:** Using compost heat to thaw sludge lines – Winter temperatures froze the sludge lines into a temporary trailer-mounted dewatering unit, operators packed the frozen lines with finished compost that generated its own heat and kept the lines running free.

**Walking the Talk:** Installing a stormwater filter – Operators installed a stormwater best management practice to reduce the total suspended solids in the runoff leaving the facility's yard.

### Now it is your turn


As the examples show, the competition is open to all clever ideas related to treatment processes, collection systems, laboratory practices, administration, human resources, you name it. The solution can be a physical tool or a new approach to an old problem.

The bottom line: Even if you are not sure that your innovation qualifies, submit it.

So, pull together a roughly one-page description of the problem you faced and the fix you found. If your invention or idea can be photographed, snap a picture and include that. Submitters do not have to write a full WEFTEC paper.

Atlantic Canada has always been a leader in water/wastewater, why not give this a try, great challenge for the Halifax Water wastewater operators.

On a final note, plans continue for the fall conference in Fredericton, hotels are getting scarce so book now. We are guaranteeing a strong wastewater side to the conference with the presentations and in the trade show, do not miss it.

That is about it for now, hope to hear from our members on how to make WEF's presence here better. 







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## CWWA shares its views... Water and the New Long-Term Infrastructure Plan

CWWA is the National voice for the water industry in Canada representing municipalities across Canada including the private sector partners supporting municipal drinking water and wastewater services.

Municipal water services are profoundly important to Canada's economy, communities and environment, and are in urgent need of strategic investment.

CWWA issued a detailed letter to all members of parliament in advance of the federal budget presentations. The federal budget detailed announcements to the tune of \$70 Billion in infrastructure funding over the next 10 years. The following five (5) key messages were highlighted in the submission:

- CWWA supports the position of the Federation of Canadian Municipalities (FCM) that any new funding program must be truly long term and predictable.

- The new funding program should be an incentive to move toward sustainability.
- CWWA hopes that the federal government will identify water and wastewater projects as a priority category in any new plan.
- CWWA request that the federal government provide targeted funding to support the massive new costs associated with implementing new federal legislation, particularly the Wastewater Systems Effluent Regulations.
- CWWA suggests the concept that innovative new technologies, service delivery models and financial strategies are a key to facing then challenges of infrastructure renewal.

CWWA issued an immediate preliminary review of the infrastructure funding over the next ten years and suggested the announced amount was less than hoped for, but still welcomed news. CWWA will continue to monitor

the progress on this most important issue for the water industry.

### Other CWWA activities and news: Building Partnerships – A Stronger Voice

CWWA continues to examine ways to improve and strengthen the national voice of Canada's water sector. Representatives from all Member Associations (ACWWA, RE, OWWA, WEAO, WCW, BCWWA) met to continue discussions on what role CWWA could hold to assist and enable the stronger water voice across the country. More work continues to define the concept and determine how to make the vision a reality. A preliminary Business Plan has been prepared to produce an educational booklet outlining the issues around infrastructure renewal. A final proposal will be brought before the regional partners. CWWA continues to partner with the Canadian Association for Water Quality (CAWQ) and serves as the Canadian National Congress (CNC) and the Governing Member of the International Water Association (IWA) in Canada.

### Wastewater Systems Effluent Regulations (WSER) – CWWA Discussion Panel

CWWA recently hosted the successful National Wastewater Management Conference in conjunction with the Canadian Association for Water Quality (CAWQ) during March in Hamilton, Ontario. More than 250 delegates heard presentations over a three day event.

As part of the conference CWWA hosted a panel discussion on the new Wastewater Systems Effluent Regulations, which included a Q&A session with James Arnott from Environment Canada being interviewed by Tony Van Rossum of the city of London. This was followed by panel presentations on the challenges of implementation. The



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panel included Ron Delaney, speaking on the challenges of implementation for Cape Breton Regional Municipality, Albert Van Roodselaar of Metro Vancouver and Jason Oatley from the Region of Niagara.

Much of the discussion during the session focused on the status of negotiations with the provinces. The goal is for the provincial governments to enforce the new regulations through administrative or equivalency agreements with the provinces. The negotiations are slow.

### Upcoming Events 2013

#### CWWA Spring Board Meeting

The mid-year CWWA Board meeting is scheduled for May 29-30 in Charlottetown, PEI.

#### Canadian Energy and Water Efficiency Conference – Calgary October 17-19, 2013

CWWA is excited to present this new conference on the nexus between

water and energy. CWWA's new Energy and Water Efficiency Committee is working closely with the Canadian National Water Efficiency Network to coordinate a national dialogue on this relationship between water efficiency strategies and energy savings. The conference will start with an opening plenary panel featuring Mary Ann Dickenson (President of the Alliance for Water Efficiency), Mike Harcourt (former BC Premier and Chair of Quality Urban Energy Systems of Tomorrow) and a yet to be confirmed third panelist to speak to the analytics tools available to track our improvements and celebrate our successes. The program, registration and sponsorship prospectus will be posted to the CWWA soon.

#### CWWA coordinates International Workshops in conjunction with ISO Technical Committees in Calgary


CWWA and the City of Calgary are hosting two major ISO Technical Committees here in Canada this spring.

Each will draw 50-70 international experts to Calgary.

- ISO TC 251 Asset Management – April 29-May 4 in Calgary - CWWA workshop will be Saturday, May 5 at the Calgary Water Centre
  - ISO TC 253 Water Reuse for Irrigation – June 24-28 in Calgary -CWWA workshop will be Saturday, June 29 at the Calgary Water Centre
- Details are available on the CWWA website.

#### Window on Ottawa

The dates for this year's Window on Ottawa event will be November 28 & 29. Again this year two full-day workshops on Security and on Climate Change will precede the Window on the 27.

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](mailto:roland.richard@nb.sympatico.ca) or visit the CWWA site at [www.cwwa.ca](http://www.cwwa.ca) 



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# Winner of the **Silent Hero Award**, Harold Power



1. **What is your Job Title?** Public Works Supervisor for Town of Placentia, overseeing all municipal infrastructure and staff of 6 as well as support/maintenance or all municipal facilities. I won't go into all the details because I'm sure you don't want my 10 page job description.
2. **Who do you work for?** Municipality of Placentia, Newfoundland located about 1 hour outside St. John's, NL.
3. **Where do you currently live?** I currently live on Ville Marie Drive Extension which is in Dunville, a part of the amalgamated Town of Placentia. Placentia is the old French Capital and was a centre of commerce back in the 1500's.
4. **Where did you grow up?** I was born and raised in Ship Harbour, Placentia Bay. It is a small community but very close knit and very picturesque. Lots of rolling hills, it's where Roosevelt and Churchill signed the Atlantic Charter.
5. **When I am not working...** I'm always busy whether it's puttering around the house, gardening in summer, or helping out a neighbour.
6. **The accomplishment I am most proud of...** outside of my children, is the renovations I have completed to my house on my own.
7. **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 would love for my wife and me to be able to spend a month on a beach in Cuba sitting in two of those lawn chairs overlooking the ocean with a nice tall corona in a glass – just like you see in those TV commercials.
8. **What is your philosophy on life?** Live long and prosper without harming anyone else on the way and helping out others as much as I can.
9. **Toughest thing about your job?** Sometimes it seems like everyone wants a piece of me but I do what I can as promptly as I can and that feeling must moves on.
10. **When you were a kid, what did you want to be when you grew up?** The usual things – a police officer, doctor – I think I became a bit of it all especially a fireman because I have a full time job putting out fires, heh heh.
11. **Last book you read?** Aw – I don't know – probably the Municipal Plan because I recently took full responsibility for approving permits in our municipality and there's a lot to learn there in the town bible.
12. **Last movie you saw?** Jack Preacher.
13. **What music did you listen to this morning?** I like to listen to country music.
14. **Favorite TV show?** The history channel's documentaries are usually what I watch when I turn on the TV.

15. **What was the best gift you ever received?** I live on the Southwest Avalon, NL – the best gift I ever got was my snow blower!
16. **What's the most useless thing you ever purchased?** Cross country skies were probably what I least used after purchasing them. Lots of snow but not lots of time.
17. **Not many people know that I...** don't like to fly – I'm always traveling to see my kids but boy, do I hate flying.
18. **What is your greatest luxury?** The greatest luxury I have is my health – a luxury I'd like to have is an all-inclusive free vacation!
19. **What is your favorite famous quote?** Look after today and let tomorrow take care of itself.
20. **Describe your perfect day.** No phone, no computer, a sunny day, a tall cold beverage and a rake and a hoe!
21. **What three objects would you rescue from your burning house?** The wife, our photos and my wallet.
22. **Who is the most influential person in your life?** My Dad was a great old guy but he's gone a long time. So now I'd say it's my wife. She always influences what I do!
23. **What is you ideal vehicle?** I'd go for anything from a coverable vintage Mustang to a Jeep Grand Cherokee; it depends on the mood, the location and the weather. I'm pretty down to earth and like to have the right tools for the job.
24. **How long have you been a member of ACWWA?** I've been employed with the Town of Placentia since it amalgamated with other towns in our area. Before that I was employed by the Town of Dunville for over 20 years. My first membership was with them, so you do the math – I'm off duty! 🌊



## NPSH and why it is important to pump operation

By Chris Fahie And Shawn Rowe

In order for water and wastewater pumping applications to operate correctly, it is important that the pump system be examined from a mechanical and hydraulic standpoint. The pump is responsible for applying mechanical energy to the fluid (usually water or sewage for municipal service) to make it overcome the static and dynamic losses in the hydraulic system. Proper pump selection of the pumping system involves paying attention to the differential head across the pump as well as meeting the requirements for Net Positive Suction Head (NPSH).

NPSH is defined as the absolute total dynamic head less the absolute vapor pressure of the pumped liquid at the pump centerline or impeller eye. For purposes of design and operation we need to pay attention to the *required* and *available* NPSH as defined below:

1.  $NPSH_R$ —The minimum NPSH at which a pump can properly operate for a given discharge


rate without cavitating. This information is determined by the pump manufacturer and is typically supplied on the characteristic pump performance curve.

2.  $NPSH_A$ —The NPSH at which the pump suction in a given system operates at a given discharge rate. This must be calculated and it is not on a pump curve.

When  $NPSH_A < NPSH_R$  the liquid pumped will vaporize forming small bubbles in the suction region of the pump resulting in cavitation. As the fluid in the pump is pressurized these bubbles suddenly collapse and the energy released during this sudden collapse can damage the pump components. Cavitation can impinge on pump components and discharge piping leading to damage such as the pitting or cavitation burn indicated in the attached picture. In the field cavitation is usually observed by any combination of the following:

- reduced flow,

- loud noise described as grinding or “gravel” in the pump,
- high vacuum suction pressures, or
- high discharge pressure gauge readings.

The system designer and operators have control over  $NPSH_A$  and must take into consideration suction pipe length, suction lift, pipe diameter and valve positioning during design and operation. Minimum  $NPSH_A/NPSH_R$  ratios recommended by the Hydraulic Institute range from 1.1 to 2.5 depending on the pumps specific suction energy (Low to Very High). It is recommended to consult with Hydraulic Institute publications and pump manufacturers to determine the recommended  $NPSH_A$  for your pumping application. Additional NPSH margins of safety should be considered to cover uncertainties in  $NPSH_A$ . Failure to meet these requirements can result in frequent replacement of pump components and undesirable pump performance. 

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## Education Corner Shawn R Rowe BSc PEng, Halifax Water, ACWWA Education Director

### Working hard to deliver online courses

At the time of writing this article the ACWWA 2013 spring education program is well underway and the education committee is working hard to plan our fall program. As a reader of this publication you are a significant part of the water and wastewater industry in Atlantic Canada. It is you and your colleagues that we serve with our education program. You can help plan sessions by letting us know specific course topics you would like to see in our program. Please consider the education needs of you and your colleagues and get in touch with the association so we can deliver a course

program to meet your training needs.

As part of our spring session the ACWWA has offered a Level III operator training course; *Water Distribution Level III*. This is a first for our association and is the result of a collaborative effort of Lorne Johanson and the association.

Following the success of this course and based on interest from our members we intend to develop and offer more level III/IV courses in addition to our established Level I/II program.

Our education committee is also working hard to deliver a more diverse offering of online courses and webinars. In 2012, the ACWWA successfully hosted a three part series on water loss management as presented in part-

nership with Kingsley Blease. Currently the ACWWA is working with AWWA and provincial regulators to develop an approved program for Atlantic Canada. This program is expected to deliver a broad range of topics with convenient access for students.

Again, I wish to invite you and your colleagues in the water and wastewater industry to reach out to the association and let us know your training needs. There are number of ways you can reach the association; the webpage [www.acwwa.ca/courses/trainingneeds.html](http://www.acwwa.ca/courses/trainingneeds.html), by email [contact@acwwa.ca](mailto:contact@acwwa.ca), or by picking up the phone (902) 434-6002. We look forward to hearing from you. ☺

## Government Affairs Submitted on behalf of the ACWWA Government Affairs Committee

### Funding of Municipal Water & Wastewater in Newfoundland and Labrador

Newfoundland and Labrador recently announced changes to the Municipal Operating Grants (MOGs) and capital works program for communities in the province. Budget 2013 included a commitment to maintain MOGs at existing funding levels for communities under 11,000 residents for 2013, and will provide \$22 million to fund MOGs in 2014. In addition, \$25 million has been identified to fund a new capital works program for the seven municipalities in the province with populations greater than 11,000.

Discussions between the Department of Municipal Affairs (DMA) and Municipalities Newfoundland and Labrador (MNL) will begin shortly on a review of the provincial-municipal fiscal framework. Current cost-share ratios for municipal infrastructure investment introduced in 2008 are as follows:

- 90/10 for populations less than 3,000 (258 municipalities, 31 per cent of provincial population);
- 80/20 for populations between 3,000 and 7,000 (16 municipalities, 14 per cent of provincial population);
- 70/30 for populations greater than

7,000 (9 municipalities, 43 per cent of provincial population); and

- Local Service Districts in the province would also qualify for funding supports on approved projects.
- These uniform ratios are based on population and were meant to provide a streamlined and simplified approach to accessing capital works funding on a go-forward basis. Since the new cost share ratios have been in place, the Government of Newfoundland and Labrador has spent between \$16 and \$78.6 million annually on water and sewer infrastructure. ☺



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# Interview with **Stefan Fury – Bedell Award**

- 1. What is your Job Title?** I am an engineer in the Science Division of Nova Scotia Environment. My main files are wastewater and operator certification.
- 2. Who do you work for?** Nova Scotia Environment.
- 3. Where do you currently live?** Halifax.
- 4. Where did you grow up?** On the west coast of Newfoundland.
- 5. What's the toughest thing about your job?** - Implementing programs that are protective of the environmental while at the same time balancing the implications on resources, both for government and the public.
- 6. When I'm Not Working, I'm...** Playing ultimate frisbee.
- 7. The accomplishment I'm most proud of is...** Overcoming my fear of public speaking.
- 8. When you were a kid, what did you want to be when you grew up?** An engineer, like my dad.
- 9. Not many people know I can...** Coach ultimate frisbee. I am a NCCP certified Level 1 Ultimate coach.
- 10. Last book you read?** Available Light by Nicholas Sumner.
- 11. Last movie you saw?** Ray (the story of Ray Charles).
- 12. Favorite TV show?** Currently Game of Thrones.
- 13. What was the best gift you ever received?** My pet cat, Ana.
- 14. What is your guilty pleasure?** My Tassimo. I know it's not the most environmentally friendly device, but it's just so convenient.
- 15. What song or story do you remember from the radio this morning?** I was listening to an audio book on the power of habits. It's amazing the things our brains do without us even knowing it.
- 16. What is the most useless**

thing you've ever purchased?  
Ninja pencils.

- 17. If you could go on a road trip with any one person, living or dead, who would it be and where would you go?** If she's reading this, with my fiance, wherever she wants to go. If not then probably with my mom to Scotland to explore her heritage. ☺



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# Lloyd Douglas Scholarship (2013 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/\$1,000 (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;
- 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


- 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 application** which should be received via email by **October 18, 2013**. 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 41002, Dartmouth, NS, B2Y 4P7

Email: [contact@acwwa.ca](mailto: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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## John Eisnor – Atlantic Canada Section

### How has AWWA helped your career?

Being a member of AWWA has had a great effect on my career. I joined AWWA in 2000 as a student member while completing a graduate engineering degree and immediately got involved with the YP Committee of the Atlantic Canada Section. Shortly after graduating and starting my career with the local regulator, Nova Scotia Environment, I was asked to join the section's Education Committee. I also began attending the section's annual conference, where year after year I would meet more and more people in the water industry in Atlantic Canada. I always had a desire to work for Halifax Water, the local water utility where I live. I would take the opportunity at section events to network with managers and employees of the

water utility so that they could get to know me. Eventually when a job opportunity came up with the water utility I was hired and I haven't looked back. I personally feel that the connections I made through being

involved with the local section of AWWA helped me land a job with a world class utility. I would encourage anyone looking to further their career in the water industry to join AWWA. 

### Operator's Corner

1. Reservoir turnover is caused by what?
2. What is a water-bearing stratum of rock, sand, or gravel known as?
3. What is the middle layer in a thermally stratified lake or reservoir called?
4. What is the type of flow when a slug of water moves through a tank without mixing or dispersing with the rest of the water flowing in the tank?
5. What are the biochemical processes in which food is used and wastes are formed by living organisms referred to as?

1. Denser water at the surface sinking toward the bottom.
2. An aquifer
3. Thermocline or metalimnion
4. Plug flow
5. Metabolism

Answers

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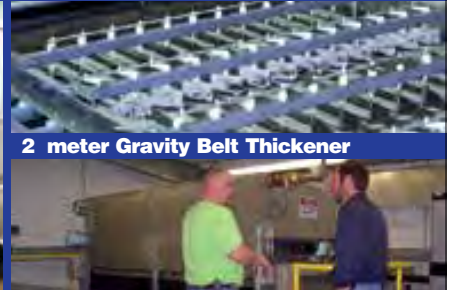
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## Moncton recognized for water stewardship

MONCTON (GNB) – The City of Moncton was recognized in April with the Council of the Federation Excellence in Water Stewardship Award for its automated water meter reading project.

This award, which recognizes outstanding achievement, innovative practice and leadership in water stewardship, is being presented as part of Canada Water Week and World Water Day. It is being presented to one organization, partnership, institution or community group in each province and territory.

“In New Brunswick, we understand the fundamental importance of water and recognize our Collective obligation to be responsible water stewards for New Brunswick, for Canada and for the world,” said Environment and Local Government Minister Bruce Fitch.

The City of Moncton is the first

municipality in Canada to complete a full installation of the Radio Frequency Fixed Network System, which monitors the water usage and leakage of 20,000 residential and 1,400 commercial, industrial and institutional users. The system has had a significant impact in decreasing the amount of water consumed and lost through leaks and breaks, resulting in lower bills and more water conserved.

This award is part of a larger strategy to improve stewardship of water resources and foster best practices across Canada. New Brunswickers can help by examining their “water footprint” and considering ways that they can reduce their water consumption while conserving and protecting water supplies by:

- washing full loads of laundry each time to save water and electricity;
- using a bucket and sponge instead of a running hose to wash a car;
- buying products that take less

water to produce;

- performing regular maintenance on septic tanks and wells (twice a year);
- collecting water in a rain barrel to use for watering flowers and trees;
- using a broom instead of water to clean driveways;
- restoring shoreline vegetation to reduce erosion along lakes and rivers; and
- using eco-friendly detergents, shampoos and soaps.

More tips are on the Department of Environment and Local Government website. [<http://www.gnb.ca/environment>] Further information about the Excellence in Water Stewardship Awards is online. [<http://www.councilofthefederation.ca>]

\* Article courtesy of Province of New Brunswick

\* Photo courtesy of City of Moncton Communication Department



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# WEFTEC Update

By Gary Chew

For all those who will be attending WEFTEC 2013 in Chicago on Oct 6-9, the hotels are getting very scarce. To avoid being out of the city core with a long commute to the conference it is highly recommended you book right away. You can go on [WEF.ORG](http://www.wef.org) and go to the conference tab, the hotel reservations can be made there.

Speaking of WEFTEC, the annual conference has placed #66 in the top 250 trade shows in the U.S., that is quite a feat considering the number of shows and their size in that market. You can view the list at [www.tsnn.com/toplists-us](http://www.tsnn.com/toplists-us). Kind of interesting to view.

If you are planning on attending the conference please drop me a list on my email, [gary.chew@sansom.ca](mailto:gary.chew@sansom.ca) and I can give you some highlights that you might be interested in.

You will not be sorry for attending WEFTEC, it is the North American showcase for wastewater.



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## New ACWWA Members

Name	Company	Membership
Chris Boudreau	Municipality of Richmond	AWWA
Catherine Cameron	Aqua Data Atlantic	AWWA
Crystal Fudge		AWWA
John Kelly	Environmental Industrial Services, Inc.	AWWA
Jeffrey Knapp	Halifax Water	WEF
Gilles Laliberte	Communaute Rurale de Kedgwick	AWWA
Nathan MacNeill		WEF
Dayna Nemyo		AWWA
Ben Noseworthy	Town of Wabana	AWWA
Jean-Yves St. Amand	Rural Community of Saint-Andre	AWWA
Jessica Younker	Dalhousie University	WEF

## Membership Totals as of April 30, 2013

	Active	Late	Total
AWWA	483	26	509
WEF			122



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## Water For People update

Water For People has provided aid to 30 districts throughout 10 countries. The mission is to provide sustainable solutions to drinking water and sanitation problems in developing regions. WFP's campaign, *Everyone Forever*, is a commitment to provide every school, health clinic, and family in 30 districts access to lasting safe drinking water and sanitation.

Beyond the installation of wells and infrastructure, WFP is part of a large monitoring program, FLOW (field level operations watch). Using cell phones, volunteers and members of communities are able to record monitoring data identifying if a system is working, broken, or requiring maintenance.

Efforts from the 2013 fundraising campaigns are being focused to three South American countries, Peru, Bolivia, and Ecuador. Great success is being shown in the utilization of FLOW in both Bolivia and Peru. Monitored sites can be viewed at <http://watermapmonitordev.appspot.com/>.

Celebrating World Water Day on March 22, 2013, WFP's Halifax Chapter hosted the annual Well Tapped, pulling together industry professionals, YPs, students, and other supports within the water community. The event was held at The Tap Room above the Lower Deck Beer Market and featured entertainment from The Berlin Boys and The Varlas. The event raised almost \$1,800, with \$500 from sponsorship. With Halifax Water as the sole sponsor, Well Tapped 2013 was both a fundraising and social success.

The next Water For People activity in 2013 is the annual softball tournament. The tournament will be held in mid-June (tentatively Saturday, June 15). This is not only an opportunity to eat hot dogs but a chance to steal the winning title from Stantec. Workplaces, classmates, family, and friends should submit team rosters to Matt Follett ([Matthew.Follett@snclavalin.com](mailto:Matthew.Follett@snclavalin.com)). Firm details on location and date will be announced soon.

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# Welcome from ACWWA Chair



On behalf of the ACWWA Board, I extend an invitation to join us at the 66th ACWWA Annual Conference in Fredericton from September 29 to October 1, 2013. We return to the New Brunswick capital city after an eleven year absence. The conference will be held at Fredericton Convention Centre, recently named by Progress Magazine as the best large event space in the east. We hope that our members, friends and families are able to take time to not only attend the conference, but enjoy all that Fredericton has to offer. Explore the scenic walking trails along the Saint John River, stroll through Odell Park, and discover cultural institutions such as the Beaverbrook Art Gallery and York Sunbury Musuem. Both of the official conference hotels The Crowne Plaza Fredericton and Delta Fredericton will allow our delegates to enjoy the selection of shopping and dining the historic downtown has to offer.

This year's theme of ***"PROTECT YOUR ASSETS: Managing Your Infrastructure Needs"*** could not be more relevant to the challenges we face. There has never been more pressure on water industry professionals to sustain the highest quality service. Challenges include environmental sustainability, changing regulations, aging infrastructure, an aging workforce, energy efficiency and increased customer demands. Water

professionals need to make better, more informed decisions. This year's technical program will provide valuable information to help us deal with these challenges and better serve our customers.

Please book early for this important industry event. We look forward to seeing you in Fredericton!

**Brett Pugh**

**2013 ACWWA Chair**



# Message from the Conference Chair



It is my pleasure, on behalf of our conference organizing committee, to extend a warm invitation to you to attend the 66th Annual Conference of the Atlantic Canada Water & Wastewater Association in Fredericton, NB, from September 29th – October 1st, 2013.

We are thrilled and excited to have the opportunity to host the annual conference in Fredericton for the first time since 2002.

The theme of this year's conference is ***Protect Your Assets: Managing your infrastructure needs***. Our Technical Papers Committee have developed a top notch technical program that will bring focus to many elements of our industry, highlighted by a roundtable of industry experts discussing sustainable water and wastewater asset management, moderated by this year's keynote speaker, Dr. Guy Felio.

While honouring the traditions that have made past ACWWA Annual Conferences a “can't miss” event, we are introducing some changes to the format this year that we hope will further enrich your conference experience. Two offsite technical sessions, consisting of a visit to either a water treatment or wastewater treatment facility, have been added to the technical program, and will be of particular interest to our industry's

Operators. For those interested in a more traditional plant tour, join us on Wednesday morning for tours of the E. John Bliss Water Treatment Plant or the FAPCC Wastewater Treatment Facility. Watch for the always popular Top Ops competitions on Monday afternoon. On Monday evening, join friends and colleagues for a relaxing meal at any of the Downtown Fredericton restaurants before heading over to the “IROCK” nightclub for the highly popular ABEA Hospitality Night. Among Tuesday's conference highlights will be the Awards Breakfast, and ABEA Tradeshow. Be sure to stay until the end of the show to enjoy the first “Best of the Best” tap water taste test event. Tuesday evening, bring your appetites and be prepared to laugh as we close out the conference with the “Down East Feast”. Watch for the return of the “5S” induction ceremony. Please check out the ACWWA website for the latest updates, and the conference program for full details of all the 2013 ACWWA Annual Conference has to offer, including a quality Companion's Program.

We are pleased to showcase the Fredericton Convention Centre as the host venue for major conference events. The host Hotel (Crowne Plaza Lord Beaverbrook) and the official overflow Hotel (Delta Fredericton) are sure to fill up fast, so I encourage everyone to register early.

From the outset, our committee has had one overriding objective: To make this year's ACWWA conference a First Class water and wastewater industry event that provides ACWWA members, companions, guests, and friends with an excellent conference experience and great value for money. We welcome you to Fredericton, and look forward to seeing you at the conference.

**Scott Grasman**

**2013 ACWWA Conference Chair**

# Keynote Speaker - Dr. Guy Félio, P.Eng.



Dr. Guy Félio is an Adjunct Professor of Civil Engineering, Carleton University. He is also President of *Infrastructure Strategies & Research Inc.*

He currently serves as a Municipal Councilor for the City of Clarence-Rockland, Ontario.

Dr. Félio is a civil engineer with a Ph.D. from Texas A&M University. He has more than 25 years of experience in the field as a university professor, researcher, consultant and policy advisor.

During his career at the National Research Council, he led the Urban Infrastructure Research group, focusing on technological and management improvements for municipal infrastructure.

In addition to serving as advisor to public agencies for the development of infrastructure strategies and policies, he is very active on professional associations' boards and committees, and in knowledge transfer through university education and professional training. Dr. Félio is the Project Coordinator for the *Canadian Infrastructure Report Card*, and was elected in October 2010 Councillor in the City of Clarence-Rockland (Ontario).

**Dr. Guy Félio, P.Eng.**





# Preliminary Technical Program

Monday, Sept 30	10:15 - 10:45	10:45-11:15	11:15-11:45
<b>Technical Session: A1</b>	<b>Achieving and implementing a sustainable asset management program in Atlantic Canadian municipalities-successes and challenges- Roundtable discussion with Keynote Speaker Dr. Guy Félio as moderator.</b> City of Fredericton, City of Moncton, Halifax Water & Hans Arisz RV Anderson		
<b>Technical Session: A2</b>	<b>Pushing the disinfection monitoring envelope confirming microbial response in a singles shift</b> Xuesong Xie-Dalhousie University	<b>Evaluation of an “off the shelf” automated chemical phosphorus removal system</b> Melody White-Hachs Sales & Services Canada	<b>City of Ottawa Lemieux island water purification plant: 82 years young and going strong</b> André Bourque-CH2M HILL

Monday, Sept 30	2:00-2:30	2:30-3:00	3:00-3:30
<b>Technical Session: B1</b>	<b>Small municipalities acquiring and implementing asset management</b> Angèle Spencer-City of Dieppe	<b>FAPCC wastewater treatment plant upgrade-getting things done in current regulatory and funding environment</b> Mike Abbott-CBCL & Dan Harvey FAPCC	<b>The asset management roadmap: Navigating how to improve asset management in your organization</b> Martin Gordon-Opus International Consultants
<b>Technical Session: B2</b>	<b>City of Calgary wastewater forcemain in-service condition assessment inspection</b> Stewart Day-Pure Technologies	<b>Design, Evaluation &amp; optimization of granular media filters</b> Simon Breese-AECOM	<b>Financial life cycle analysis</b> André Boissonnault-RV Anderson
<b>Technical Session: B3</b>	<b>Water supply pipeline asset protection, Dalhousie, NB</b> Boris Allard-exp Services Inc.	<b>Building a sustainable watermain renewal program</b> René Lagacé- City of Moncton	<b>Post-lagoon total nitrogen removal</b> Martin Hildebrand-Nelson Environmental Inc.
<b>Off-Site Technical Session</b>	<b>E. Bliss Water Treatment Facility (Transportation provided)</b> City of Fredericton		

Tuesday, Oct 1	8:45-9:15	9:15-9:45	9:45-10:15
Technical Session: C1	<b>Asset management strategies and long term financial planning using PSAB inventories</b> Jeff Diamond-RV Anderson	<b>Master planning: the road to sustainability</b> James Jorgenson-AECOM	<b>Long term financial planning and infrastructure deficit funding strategy</b> Alicia Keating & Dylan Gamble-City of Fredericton
Technical Session: C2	<b>City of Moncton Hildegard storm water detention basins</b> Gordon Wasson-exp Services & Darryl Bonhower-City of Moncton	<b>Using advanced online instrumentation for coagulation process optimization and control</b> Monica McVicar-Dalhousie University	<b>Lateral rehabilitation, City of Hamilton</b> Chris Lewis-Liqui Force Services (Ont) Inc.
Technical Session: C3	<b>Strategies to meet the recently promulgated “wastewater systems effluent regulations”</b> Chris Potvin-SNC Lavalin Inc.	<b>Managing your inventory: Data collection and management of network inventory</b> Donald Partington-Opus International consultants	<b>Reversing Falls Bridge watermain rehabilitation</b> Brian Moreau-CBCL
Off-Site Technical Session	<b>Fredericton Area Pollution Control Commission (Transportation provided)</b> City of Fredericton		

Tuesday, Oct 1	10:30-11:00	11:00-11:30	11:30-12:00
Technical Session: D1	<b>SCADA cyber security- The Halifax Water experience</b> Reid Campbell-Halifax Water	<b>The business case for smart meters network</b> Gareth Price-Sensus	<b>P3-A long term solution to the life-cycle challenge</b> Ian Dickinson-AECOM
Technical Session: D2	<b>Managing wastewater and municipal bio solids using alternative technologies</b> Don Bishop-Bishop Aquatics Technology Inc.	<b>Observations from the Emergency Response to Hurricane Sandy</b> Kevin Morley-Security & Preparedness Program Manager American Water Works Association	<b>Low pressure sewer systems-another tool in the wet weather toolbox</b> Keith McHale-Environment One Corporation
Technical Session: D3	<b>What is the design life of a water or wastewater facility</b> Ken Campbell-RV Anderson	<b>Save money and improve performance without spending a bundle</b> Dwayne Doucette-CBCL & Tim Bouter- County of Kings, NS	<b>Acoustic methods for determining remaining pipe wall thickness in asbestos cement and ferrous pipes</b> Geoff Boyd-Echologics Engineering

# ABEA Hospitality Reception



After enjoying a meal on Monday evening in historic downtown Fredericton, the Atlantic Branch Equipment Association cordially invites you to the 6th Annual ABEA Common Hospitality Reception.

Come and meet fellow ACWWA Conference attendees and enjoy the hospitality of the ABEA's member companies in the relaxed atmosphere of the spacious IROCK Nightclub, located at 339 King Street. The club has been reserved exclusively for this event, so you will be among friends!

Socialize, meet friends old and new, and enjoy a beverage while being entertained by some great local Fredericton musical talent. Since its inception at the 2008 ACWWA Conference in Charlottetown, the ABEA's Common Hospitality Reception has grown into a "must attend" event on the conference schedule. We hope to see you on Monday, September 30th.

## Top Ops Competitions

Don't miss this year's Top Ops Competitions. At last year's conference in Charlottetown, both the water and wastewater Top Ops challenges were among the most exciting ever. The teams from Halifax Water pulled off an unprecedented sweep of both Top Ops competitions, and are sure to try and defend their titles.

Enter a team to test your knowledge and get in on the fun in a fast paced, "Reach for the Top" style contest that now enters its 9th year at the ACWWA Annual Conference in what has grown to be one of the conference highlights. 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](mailto:trent.brewer@fredericton.ca) or (506)460-2179.



# Companion Program



Welcome to Fredericton – New Brunswick’s Capital, an important cultural, artistic, and educational centre, and not to be missed - host to the 2013 ACWWA Conference. This year’s Companion Program attempts to meet both social and personal goals, with a smattering of competition.

If you are a golf enthusiast then you may want to arrive in time for the Annual Golf Tournament (register early as space is limited) being held at the Fredericton Golf Club. Otherwise we will see you at the Sunday evening Meet & Greet.

Monday morning offers the opportunity to attend the Conference Opening and presentation of awards before we head out to Kingswood Entertainment Facility for a “friendly” game of bowling – a great venue for socializing and working up an appetite. Lunch will be prepared by the staff at Sam Snead’s for our enjoyment. After lunch you will have the option to enjoy some retail therapy at the Regent Street Mall or transfer back to the Crowne Plaza where you can partake of retail therapy in the Downtown Area, support your favourite Top-Op’s team, visit the WFP Silent Auction or just have a quiet minute before heading out for supper and the Annual ABEA Hospitality Suite being held at the iROCK on King St.

Tuesday will require some comfy shoes (maybe an umbrella – just in case!) as we will be touring under our own steam. We will begin the morning with a guided tour of the Beaverbrook Art Gallery, established in 1958. After enjoying some fine art we will take a stroll into history, with a touch of politics, at the NB Legislature, built in 1882. After all of this we will partake of some fresh air as we wind our way down to the newly renovated Garrison District Ale House where Doug Williams will host our group with a wine tasting / luncheon pairing. Could life get any better?! After enjoying a relaxing luncheon you will be free to continue your stroll along the waterfront, take in some of the other historical sites in the Downtown Centre, go back and pick up those items you were wavering on yesterday, or make your way back to the Fredericton Convention Centre to wander through the Trade Show, place last minute Silent Auction bids, or just have a nap before meeting your dinner companions for the ACWWA Conference’s famous Down East Feast and Entertainment. We look forward to having you in Fredericton!



# Water for People at the 2013 ACWWA Annual Conference in Fredericton



The ACWWA Annual Conference represents the single largest fundraising initiative each year for Water For People in Atlantic Canada. In terms of funds raised, activities held, and overall exposure, the Annual Conference has been a tremendous success. At the 2013 ACWWA Annual Conference in Fredericton, we look forward to continuing this success and building on past events.

As a small committee in Atlantic Canada, Water For People strives to reach annual fundraising goals in the \$20,000 range. More than half this amount is directly resulting from events at the Annual Conference, including corporate donations. Thus, the conference is critical to our initiatives.

The 66th Annual ACWWA Conference in Fredericton is an opportunity for Water For People to interact directly

with professionals and stakeholders that work in the water and wastewater field. This is key. Water For People projects are small-scale and often rural, and can appeal to all levels of local individuals that work in related fields. This includes managers, consultants, operators, suppliers, and customers. Understanding the importance of the work done by Water For People is key to appreciating the value of the work.

We look forward to the upcoming conference in Fredericton and having the opportunity to discuss recent Water For People projects. Join us on Monday, September 30th in front of the Fredericton Convention Centre to kick off your conference with our Water For People Fun Run/Walk. See you in Fredericton!

## ACWWA – “Best of the Best”: Water Taste Test Fun Event



Here in Atlantic Canada, we like to believe we have the best drinking water and as water purveyors, we are proud of the water we provide to our customers. This year’s ACWWA Conference aims to take that pride up a notch with our first 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 during the ABEA tradeshow Tuesday, October 1st, 2013 and 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 Boston in 2014. So stay at the tradeshow to enjoy this fun event, and cheer on your favourite Utility (no wagering, please!).

Entry forms, rules and judging criteria are available on the ACWWA Conference Website. Entry forms are due by September 13, 2013. For more information, please contact Kathy Edwards at (506) 460-2973 or Kathy.edwards@fredericton.ca.

# Conference Technical Tours

Participants in this year's ACWWA Conference are invited to join us on tours of two of the key facilities in the City of Fredericton's Water & Wastewater Systems. New to this year's conference is the option to tour each facility as part of an "offsite technical session". Or choose to tour either facility at a more relaxed pace to close out the conference Wednesday morning.

## E. John Bliss Water Treatment Plant



Named after former Fredericton City Engineer E. John Bliss, P.Eng., the E. J. Bliss Water Treatment Plant commenced operation

and drinking water production in 2009, after a detailed design, construction, and commissioning process overseen by exp Services. The manganese removal plant was constructed to provide treatment for the water supply's newest wellfield development in the Queen Square neighbourhood, and to supplement the supply capacity of the existing W.L. Barrett Water Treatment Plant, itself a Canadian Water Landmark named after another long time City Engineer, William L. Barrett, P.Eng.

A tour of this state-of-the-art facility will provide visitors with information pertaining to groundwater treatment for excess levels of manganese. The plant uses chlorine and lime pre-treatment in advance of pressure filtration vessels to remove the excess manganese and provide distribution system protection for the City's drinking water customers. Participants can also learn about the use of computerized monitoring and controls for all of the wells, booster stations & reservoirs in the water distribution system.

Please come and visit the facility honoured as the ACWWA Project of the Year at the 2010 ACWWA Annual Conference.

## Fredericton Area Pollution Control Commission Wastewater Treatment Facility



The Fredericton Area Pollution Control Commission's (FAPCC) Barker Street facility is a secondary wastewater treatment plant

that treats the majority of wastewater for City of Fredericton residents. Originally constructed in 1970, the facility has undergone a series of upgrades in 1976 and 1994. The facility was reaching design biological and hydraulic load maxima and plant performance was beginning to be impacted. Additionally environmental standards were becoming more stringent requiring consideration of further upgrades.

In 2005 a Comprehensive Technical Assistance Program was carried out and between 2005 and 2007 a series of changes were made. A detailed design was completed by CBCL in 2010 and through Build Canada Funding, a two phase project was undertaken. Phase 1A included modifications/upgrades to the existing secondary clarifier and Phase 1B included construction of a second aerated biological treatment tank. Phase 1B will be completed by the August of 2013.

With the completion of the Phase 1 projects the facility will continue to achieve the new Environment Canada "Wastewater Systems Effluent Regulations (WSER)" established this year. Come visit the facility and learn about how the City of Fredericton and FAPCC partnered to provide much needed upgrades to the plant while continuing to meet required maintenance of this important part of our Utility's functions.



# ACWWA / ABEA Tradeshow

The Atlantic Branch Equipment Association (ABEA. biz) is proudly hosting our annual ACWWA Conference Tradeshow on Tuesday, October 1st at the new Fredericton Convention Centre. Join us to renew old friendships, and make new ones as you browse through displays packed with the latest products and technology crucial to the water and wastewater industry. Use this unique opportunity to interact with many of the industry's major supplier representatives, who will be on hand to answer any questions you may have about their products.

Lunch will be provided in the Tradeshow room. This year's show will feature our second annual ABEA Gift Card Draw, and Happy Hour from 3 to 4. Be sure to stay and take in the first ever ACWWA "Best of the Best" tap water taste test event. Please get there early as this year's Tradeshow will be the largest in ACWWA history.



# 2013 ACWWA Annual Conference Down East Night Entertainment: The One...The Only...Jimmy Flynn!



Of all the entertainers this country has to offer, Jimmy Flynn has remained one of the most memorable performers available for more than 30 years. With a high-energy blend of side-splitting comedy and popular music, Jimmy Flynn remains Canada's "Ambassador of Good Cheer." Dressed in his trademark red checkered shirt, yellow sou'wester and rubber boots, Jimmy will take the stage during the ACWWA Annual Conference's Down East Feast, glance over the audience and erupt into volcanic comedy that will melt the audience. The bottom line: this guy is hilarious!

Over the past 30 years, Jimmy Flynn has become a musical comedy powerhouse. His list of credits is astounding. He has performed with The Dixie Chicks at Massey Hall in Toronto, he has also performed with "The Man in Black", Johnny Cash; Tommy James and the Shondells; Charlie Pride; The Everley Brothers, and with Cheech and Chong's

Last Tour. Jimmy Flynn became a popular radio and television personality during the early 1990s. To date, he has produced and broadcast over 400 radio shows, a 13-week television series, four feature length comedy videos that have gone double and triple platinum, seven gold CDs, a Christmas recording for children and a four-time bestselling joke book. He also owns his own travel and entertainment tour company, The Great Canadian Comedy Tour Company. Jimmy has raised millions of dollars for Canadian charities and community groups. He is Canada's foremost musical comedy act! He has performed for intimate crowds of a few hundred to festival crowds of 80,000 and no matter the setting, the crowds have the same reaction - "I never laughed so much or so hard in all my life!" Jimmy's performance at the 66th Annual ACWWA Conference in Fredericton is sure to leave you with a smile on your face, and sore sides from laughing so hard!



# ACWWA 2013 Annual Golf Tournament



We would like to welcome everyone to join us for the 2013 ACWWA Golf Tournament. Bring your friends and colleagues for a fun filled round of golf. Past tournaments have proven to be a good outing with lots of laughs...

This year we will be handing out a gift bag for all golfers with keepsakes provided by your ACWWA Golf Committee and our hole sponsors.

***The course can only Guarantee 48 GOLFER / TEE TIMES so get your requests in early...***

***This will be based on when Clara gets the forms in...First 48 are in for golf.***

The golf fee this year will be \$70.00 for your round of golf, which includes a golf shirt. Carts will be extra

if required at a fee of \$15.00 per half cart. Please make sure you check off the box for the golf cart (if required) so we can book them in advance. Please include your shirt size on the registration form in order to guarantee you get the size you want. For us to have to order placed and shipped in time, your application has to be in before June 30/13. If not you will have to choose from available sizes.

If you wish to play with a certain group or foursome, or need a tee time consideration, please send your requests to Tom Cameron / Andy Holyoke at [scotiatech.tom@ns.sympatico.ca](mailto:scotiatech.tom@ns.sympatico.ca) as soon as possible so we can put the tee times together.

*Thanks and see you all there... ACWWA Golf Committee*

## Fredericton Golf Club



# Conference Schedule Highlights

## Sunday, September 29th

- ACWWA Golf Tournament at Fredericton Golf Club
- Young Professionals Mixer (*Brewbakers*)
- Meet and Greet Reception at the Crowne Plaza Hotel

## Monday, September 30th

- Water for People Fun Run / Walk
- Conference Opening:
  - Fuller/Bedell/MacNabb Awards Ceremony and Keynote Speaker
- Roundtable Discussion
- Offsite Technical Session (*E. John Bliss Water Treatment Plant*)
- Annual General Meeting Luncheon
- Top Ops Competitions (Water & Wastewater)
- ABEA Hospitality Night (*IROCK Nightclub*)

## Tuesday, October 1st

- ACWWA Awards Breakfast
- Offsite technical session (*FAPCC Wastewater Treatment Facility*)
- ABEA Tradeshow
- “Best of the Best” Tap Water Taste Test Event
- Waterworks Club Reception
- “5S” Induction Ceremony
- Down East Feast and Entertainment

## Wednesday, October 2nd

- Technical tours (choose one):
    - E. John Bliss Water Treatment Plant tour
    - FAPCC Wastewater Treatment Facility tour
- All events are proposed for the Fredericton Convention Centre unless noted.*

## Young Professionals Mixer at the Conference



Everyone is encouraged to stop by Brewbakers, situated in the heart of Downtown Fredericton at 546 King Street, and join our Young Professionals (YP) for some light refreshments and conversation with newer members of our industry.

The ACWWA YP Chapter 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.

Please show your support for the future leaders of our industry by dropping by Brewbakers on Sunday evening for some snacks, refreshments and fellowship prior to the Meet and Greet. Please indicate your attendance by checking off the “Young Professionals Mixer” box on your conference registration form.

# ACWWA 2013 Conference Registration

## 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			
<b>Sector</b> <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"/> Other					

## PART 2 – REGISTRATION

Full Conference Delegate – On or Before September 1, 2013	<input type="checkbox"/> Member – \$425	<input type="checkbox"/> Non-Member – \$475	\$
Full Conference Delegate – After September 1, 2013	<input type="checkbox"/> Member – \$525	<input type="checkbox"/> Non-Member – \$575	\$
Companion Program	<input type="checkbox"/> Member/Non-Member – \$200		\$
Students (Includes Lunches and Tradeshow)	<input type="checkbox"/> Member/Non-Member – \$50		\$
Monday Full Day Sessions Pass (Includes Monday Lunch)	<input type="checkbox"/> Member – \$225	<input type="checkbox"/> Non-Member – \$250	\$
Tuesday Morning Sessions Pass (Includes Tuesday Lunch)	<input type="checkbox"/> Member – \$125	<input type="checkbox"/> Non-Member – \$150	\$
Tradeshow Only (Includes Tuesday Lunch)	<input type="checkbox"/> Member – \$100	<input type="checkbox"/> Non-Member – \$125	\$
<b>Register before August 2 and be entered for the Early Bird draw</b>			<b>Part 2 – Subtotal</b>
			\$

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

Booth Rental ( <b>Max 3 Booths, 3 People/Booth</b> )	ABEA Member – ___ Booths @ \$500	Non-Member – ___ Booths @ \$850	\$
Extra Exhibitor (Includes Meet & Greet and Registration Tuesday Lunch)	ABEA Member – ___ @ \$50	Non-Member – ___ @ \$75	\$
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	
			<b>Part 3 – Subtotal</b>
			\$

## PART 4 - MEALS & ACTIVITIES

<b>Sunday, September 29</b>		<b>Please indicate Attendance by Checking boxes below</b>		
Golf (transportation not included)	Golf Fees: ___ @ \$70	Golf Carts: <input type="checkbox"/> Y <input type="checkbox"/> N	Shirt: S__ M__ L__ XL__ XXL__	\$
Young Professionals Mixer (Included) Location: Patio at the BrewBakers restaurant. Upstairs at 546 King St.		<input type="checkbox"/> Delegate	<input type="checkbox"/> Companion	Exhibitor ___
Meet & Greet (Included)		<input type="checkbox"/> Delegate	<input type="checkbox"/> Companion	Exhibitor ___
<b>Monday, September 30</b>		<b>Please indicate Attendance by Checking boxes below</b>		
Annual General Meeting Luncheon (Included)		<input type="checkbox"/> Delegate	Exhibitor ___ @ \$60	
Companion's Luncheon (Included with Companion Program)		<input type="checkbox"/> Companion		
Off Site Technical Session (E. J. Bliss WTP, Mon 2:00 – 3:30 PM) <b>Max 40 Ppl</b> (transportation included)		___ @ \$10 = \$		
ABEA Hospitality Reception (Included)		<input type="checkbox"/> Delegate	<input type="checkbox"/> Companion	Exhibitor ___
No Banquet. Dine on your own. Discount coupons for Downtown restaurants will be included in registration package.				

Tuesday, October 1		Please indicate Attendance by Checking boxes below		
Awards Breakfast	<input checked="" type="checkbox"/> Delegate	<input checked="" type="checkbox"/> Companion	Included	
	Exhibitor ___ @ \$25			\$
Off Site Technical Session (F.A.P.C.C.WWTP, Tues 8:45 – 10:15 AM) <b>Max 40 Ppl</b> (transportation included)			___ @ \$10 =	\$
Trade Show Luncheon (Included)	<input checked="" type="checkbox"/> Delegate	<input checked="" type="checkbox"/> Companion	Exhibitor ___	
Down East Feast (Included)	<input checked="" type="checkbox"/> Delegate	<input checked="" type="checkbox"/> Companion	Included	\$
	Extra Tickets ___ @ \$65			
Please indicate meal choice for Down East Feast	___ Lobster	___ Chicken	___ Beef	
Please describe any dietary restrictions or other special needs you may have			<b>Part 4 – Subtotal</b>	\$
Wednesday, October 2		Please indicate Attendance by Checking boxes below		
Tour (E. J. Bliss WTP, Wed 9:00 – 10:00 AM) <b>Max 40 Ppl</b> (transportation included)			___ @ \$10	\$
Tour (F.A.P.C.C., Wed 9:00 - 10:00 AM) <b>Max 40 Ppl</b> (transportation included)			___ @ \$10	\$

### PART 5 - TOP OPS COMPETITION REGISTRATION

Top Ops Team Registration	<input checked="" type="checkbox"/> Water	<input checked="" type="checkbox"/> Wastewater	___ Team @ \$50.00	\$
To complete team registration contact Trent Brewer at (506)460-2179 or <a href="mailto:trent.brewer@fredericton.ca">trent.brewer@fredericton.ca</a>			<b>Part 5 – Subtotal</b>	\$

### PART 6 – WATER TASTE TEST COMPETITION REGISTRATION

Water Taste Test Registration	<input checked="" type="checkbox"/>	
To complete team registration contact Kathy Edwards at (506)460-2973 or <a href="mailto:kathy.edwards@fredericton.ca">kathy.edwards@fredericton.ca</a>		

### PART 7 – FEES

	<b>Subtotal</b>	\$
	Life Members deduct \$100.00	\$
	13% HST (869 924 910 RT2)	\$
	Water for People Fun Run/Walk ___ @ \$25.00	\$
Entry to the Water for People Fun Run includes a T-Shirt, please indicate your T-Shirt Size	S__ M__ L__ XL__ XXL__	
	<b>Total Amount Due</b>	\$

### PART 8 - PAYMENT OPTIONS

Choose payment method. Complete as appropriate.			
<input checked="" type="checkbox"/> Cheque	<input checked="" type="checkbox"/> Money Order	<input checked="" type="checkbox"/> Visa	<input checked="" type="checkbox"/> Mastercard
Please make cheque or money order payable to "ACWWA 2013 Conference", Box 41002, Dartmouth, NS B2V 2R6			
CARD HOLDER NAME			
CARD NUMBER			EXPIRY
SIGNATURE			
Fax: 902-435-7796 or Email: <a href="mailto:contact@acwwa.ca">contact@acwwa.ca</a>		EMAIL ADDRESS	
<b>WHEN PAYING WITH A CREDIT CARD AN EMAIL ADDRESS IS REQUIRED FOR A RECEIPT TO BE ISSUED</b>			

**Conference Information:** Full conference has a 1.5 CEU value.

**Trade Show Information:** Each booth measures 8' x 10'. Booth locations to be determined in September. For tradeshow questions or to arrange equipment delivery, contact Mike Duguay at [Mike.Duguay@clowcanada.com](mailto:Mike.Duguay@clowcanada.com) or Duane Webber at [duane.webber@sansom.ca](mailto:duane.webber@sansom.ca). Contact the ABEA at [ian@aps.ns.ca](mailto:ian@aps.ns.ca) to learn more about becoming an ABEA member.

**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](mailto:contact@acwwa.ca).

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Atlantic Backflow Specialists Ltd.	7	(902) 499-7748	www.atlanticbackflow.com
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Greatario Engineered Storage Systems	9	(519) 469-8169	www.greatario.com
Halifax Water	16	(902) 490-4840	www.halifaxwater.ca
Hydro International Wastewater	9,11	(866) 615-8130	www.hydro-international.biz
IPEX Inc.	2	(866) 473-9462	www.ipexinc.com
Kemira Water Solutions, Inc.	4	(800) 879-6353	www.kemira.com
Liqui Force Services	40	(800) 265-0863	www.liquiforce.com
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To reach Atlantic Canada's water industry professionals through GO WITH THE FLOW magazine and its targeted readership, contact Aran at your earliest convenience to discuss your company's promotional plans for 2013.

**Aran Lindsay**, Marketing Manager  
 1-866-985-9789 | [aran@kelman.ca](mailto:aran@kelman.ca)





Shown here is Richard Stephenson, P.Eng, one of our valued employees in Atlantic Canada.

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