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THE OFFICIAL PUBLICATION OF THE ATLANTIC CANADA WATER AND WASTEWATER ASSOCIATION

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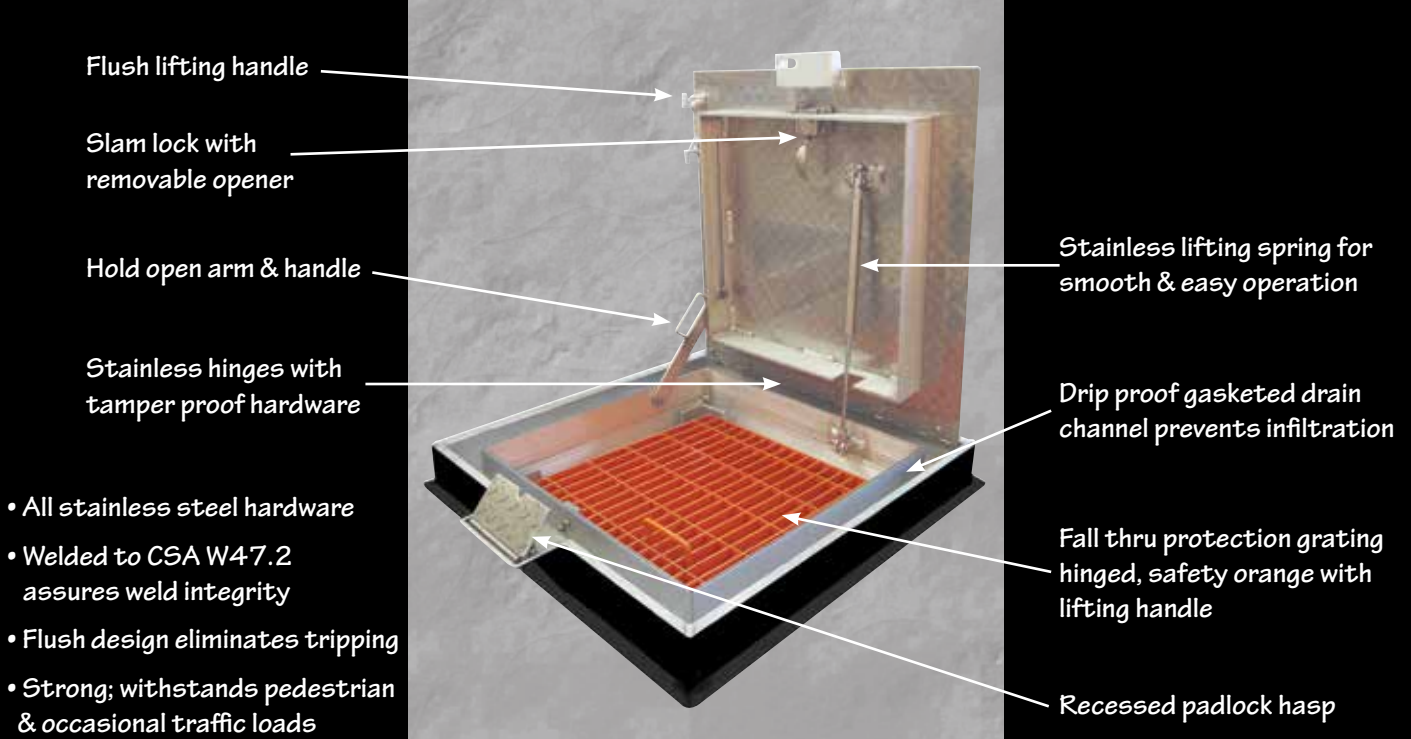
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American Water Works Association



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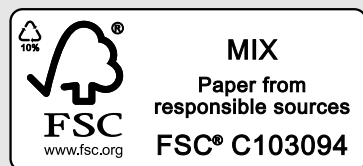
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## New and improved Go With The Flow

Greetings everyone and welcome to our new and improved *Go With The Flow* magazine. We are excited to introduce a new format, which is aimed at providing a better representation of the people, services, and projects that make up the ACWWA. This issue also marks our first publication with Craig Kelman & Associates, who share our enthusiasm for the new format and are providing valuable advice through this transition.

The ACWWA board and committee chairs gathered for our annual strategic planning session in Moncton back in November 2012. We reviewed our performance against the 2012 short-term strategic goals and identified new short-term goals for 2013. The newsletter was

“We are excited to introduce a new format, which is aimed at providing a better representation of the people, services, and projects that make up the ACWWA.”

identified as a service, which we believed a little focus would result in significant improvements. Many great ideas were brought forward, some of which are included in this issue. Others will take more time to develop and will be introduced in the coming issues.

You will still see the familiar messages from the Chair, AWWA Director, WEF Delegate, CWWA Director, Membership Chair and the Conference Chair. We are

introducing regular features such as ABEA product spotlight, Awards and Scholarships, and Utility News Contributions from each committee will be included on a rotational basis.

An educational component, Back to Fundamentals, will be included in future issues to provide helpful refreshers on technical problems. A Certification Corner will provide insight for our operators in each of the four provinces. We also want to use the magazine to highlight our award winners and recognize their achievements. Look for Utility and Project Spotlights in future issues.

I want to thank Amy McHarg, newsletter chair, for the hard work and passion she has brought to this make over. Her dedication (and persistent reminders) will ensure a successful transition. We encourage all members to contribute content and share their ideas with Amy ([amym@cbcl.ca](mailto:amym@cbcl.ca)). We are always looking for material for *Go With The Flow*.

Please contact our Executive Director Clara Shea ([contact@acwwa.ca](mailto:contact@acwwa.ca)) or myself ([brettp@cbcl.ca](mailto:brettp@cbcl.ca)) if you have any questions. ☺



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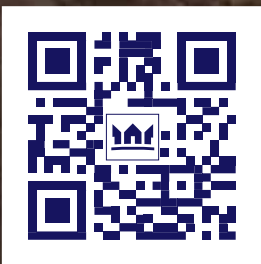
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## ACE 13 on the horizon

It is time to start thinking about attending ACE 13 in the Mile High City, Denver Colorado, June 9-13. AWWA has made some very exciting improvements to ACE, including improvements to the technical program to make it easier for attendees to follow technical topics that interest them. Registration is now open. I would encourage you to think about attending the world's premiere water event.

If you do attend ACE, make sure you attend the Canadian Water Forum on Monday June 10. This is one of the favorite section events at ACE and it is a place to catch up with colleagues from across Canada. The event will be held at the LoDo Bar in Lower downtown. This is the same location this event was held when ACE was last in Denver in 2000 so it promises to be an excellent event.

AWWA held its winter board of directors meeting in Nashville, Tennessee in mid January. John Donahue of the Illinois section was elected Incoming President-Elect. He will take office as President of AWWA in June of 2014. John is a utility manager from the Chicago area and will make an excellent AWWA President and we can all look forward to hosting him at a future ACWWA conference.

Several things happened at the winter board meeting that will be


of interest to members in Atlantic Canada. AWWA released a white paper of hydraulic fracturing in the oil and gas industry as it affects the water industry. This well written document clearly explains what hydraulic fracturing is and is not and gives guidance to water utilities that may have this occurring in their area. This white paper is available on the AWWA web site and will make an important resource for any utility dealing with this issue,

During the winter board meetings, AWWA also launched the *Water Utility Insider*. This bi-weekly email publication is free to AWWA utility members. It is a high level overview for water utility senior managers. Initially launched in the US only, it will be sent to Canadian utilities in the near future. The intent of this publication is to give busy utility executives a concise high-level view of important developments affecting the industry.

Last fall, AWWA conducted a member value survey. The survey was sent to all AWWA members as well as prospective members and the survey received an overwhelming response. One key finding of the survey is that 65% of respondents believe AWWA is indispensable to their careers. It also gave AWWA key indications of where members are satisfied with what AWWA delivers,

which of AWWA's offerings are valued most by members and key areas where members expect AWWA to do better. AWWA staff is currently analyzing the data and will be using it in coming months to improve existing programs and design new ones to increase value to members.

Finally, AWWA international Council Chair, Craig Woolard, gave a presentation on AWWA's strategy for engaging AWWA members internationally. AWWA receives approximately \$3 million per year in revenue from outside North America. 64% of this revenue comes from just 15 countries. AWWA is recognized world wide as a leading brand in the water community and AWWA will be working in coming years to grow its business in those 15 key countries.

This newsletter marks the half-way-point in my term serving the Atlantic Canada section. It is indeed a privilege to serve the Atlantic Canada section in this way and I am especially proud to serve as an AWWA Vice President from Atlantic Canada. Our section Executive Director Clara Shea, many of our section leaders and the section in general are very much appreciated by AWWA staff in Denver. The contributions you make to the industry here in Atlantic Canada do not go unnoticed. 

"The member value survey was sent to all AWWA members as well as prospective members and the survey received an overwhelming response. One key finding of the survey is that 65% of respondents believe AWWA is indispensable to their careers."





## Help us, Help you

The WEF side of ACWWA continues to charge along and all is going well. We have integrated wastewater into ACWWA quite nicely and the upcoming conference in PEI will have at least 50% wastewater content in the program. We will continue to host the Top Op's for wastewater operators, the Michelin crew better get studying, it was a close one last year.

I will be attending WEFMAX in Niagara Falls in May, this is a forum where all the MA Associations in Canada can get together and discuss their programs, ideas and try to make the whole WEF organization stronger.

Something I would like everyone to do for me if you are reading this,

do a web search on *WEF.org* and have a good look around, there are ton's of good things for members and non-members alike. Click on the tab ONLINE Education and go to SKILLS BUILDER, then click on start quiz, this will test your skills in wastewater. Also have a look at *WATERSWORTHIT.ORG*, this is an ongoing project for WEF to bring awareness to the water industry and our environment.

I would encourage each municipality and organization to have at least one of your staff join WEF, it is \$120.00 U.S. but the information you receive will be very valuable to your organization. You can share it with all of your employees. Email me at *gary.chew@*

*sansom.ca* and I will send you a membership application form. For those of you who are members, send me your ideas on courses and we will see what we can do to incorporate them into the program.

WEFTEC, WEF's premiere event will be in Chicago this year, if you can budget for it you will be more than pleased at what you see and learn at this fabulous four day conference. For details go to *WEF.org* and click on WEFTEC 2013.

As your WEF MA Rep I am always interested in hearing from members and interested in what you have to contribute to ACWWA, it is your association so do not be shy, help us make it better for you. ☺



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## CWWA Board receives and supports new Strategic Plan from Executive Director

As previously reported Mr. Robert Haller was appointed as CWWA's Executive Director effective May 2012. Robert jumped right into things at our Spring Board Meeting and immediately began the process for the development of a new Strategic Plan. The past several months have been extremely busy for the new executive director including travel to meet members and related partner Associations.

During our Fall Board Meeting, in conjunction with the Window on Ottawa meetings, the full Board enthusiastically received and supported the New Strategic Plan from Mr. Haller.

The plan focuses on identifying our niche in representing municipal water and wastewater utilities and building stronger relationships with our Regional Associations across Canada as well with the Federation of Canadian Municipalities (FCM) and other external associations and agencies. The plan also had some very extensive work plans for 'how' we do our work at CWWA. You can expect to see some significant changes throughout 2013 as the plan is implemented. New staff will come onboard to focus on membership recruitment and new events to support our members and our mission.

The Board is looking forward for the strategic plan monitoring status report during its spring meeting planned for the end of May in Charlottetown, PEI.

CWWA continues to monitor and be involved in the federal policy and regulation fronts. CWWA and our board of directors are currently

discussing and evaluating data needs for infrastructure investments for both the water and wastewater sector and will be using this to inform advocacy work, as the federal government is planning to launch a new infrastructure fund when the current one terminates.

The following will provide an overview and summary activity report to January 2013 as prepared and submitted by the executive director.

### Window on Ottawa

This annual event was a great success again. Members gathered from across Canada to hear presentations from almost every federal department that deals with water and/or wastewater.

Two workshops were held in advance of the Window. We hosted another Security & Emergency Preparedness Workshop with international presentations. We also hosted our very first workshop on

Climate Change – trying to identify all the potential impacts we need to be considering.

### Annual General Meeting & Meetings of the Board

Of course we take advantage of the opportunity during the Window event to hold a couple of CWWA Board meetings as well as the formal Annual General Meeting. The Board is pleased to announce that the Association is in good shape financially and the auditor provided a very positive report card on our methods.

### A stronger national voice

Also during the Window event, we coordinated a meeting of the

executive directors of all the regional association partners (BCWWA, WCW, OWWA, WEAO, Réseau Environnement, and ACWWA) as well as the CWWA Board Member representing each regional association. This was a very productive discussion on how to better communicate with each other and jointly at the national level. The ED's will be developing a terms of reference for moving forward and commit to meeting regularly to advance this work and build this relationship. A number of joint projects were discussed such as a new national survey and national education programs.

Discussions have been initiated with all five (5) regional associations and CWWA is receiving great support from our partners at the Water Environment Federation (WEF) and American Water Works Association (AWWA) as we move forward to be a more effective voice.

### Mr. Haller visits Washington D.C.

Our executive director was invited to Washington for 3 days where he received an intensive orientation program to WEF and AWWA. He was able to meet with the executive directors and advocacy directors for both groups. There were great discussions on methods for advocacy and education programs as well as discussions on the major topics of our industry. Mr. Haller also met with industry representatives and Canadian Trade Commissioners in Washington to discuss concerns and strategies around the 'Buy America' clauses attached to federal programs.

### Upcoming events

CWWA has a full year of information and networking opportunities planned for 2013. The following are the highlights:

#### **National Wastewater Management Conference – Hamilton March 6-8, 2013**

In partnership with the Canadian Association for Water Quality (CAWQ), the CWWA will be hosting their biennial wastewater conference March 6-8, 2013 in Hamilton, Ontario. In addition to presentations on the new Water Systems Effluent Regulations (WSER), we hope to hear more from the Canadian Water Network at this event on the National Research Agenda on Municipal Wastewater and Biosolids, the work undertaken and accomplished by the CCME Task Group on Biosolids, wastewater and biomass as well as renewable energy sources, etc. The full program is available at [www.cwwa.ca](http://www.cwwa.ca)

#### **Asset Management Workshop**

CWWA is working with the Canadian Network of Asset Managers in hopes of hosting an International Workshop focussing on water and wastewater assets. If we can do this, it will be in May, 2013 in conjunction with ISO technical committee meetings being held in Calgary.

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

Everyone is talking about 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. This event is just in the initial planning stages, but is targeted for October, 2013. Look out for the details and mark your calendars. ☺

Should any other information or inquiries be required on CWWA activities or initiatives, please contact me directly at [roland.richard@nb.sympatico.ca](mailto:roland.richard@nb.sympatico.ca) or visit the CWWA website at [www.cwwa.ca](http://www.cwwa.ca).



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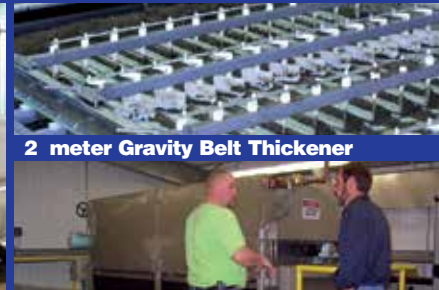
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## Volunteering with ACWWA

The success of professional associations such as the Atlantic Canada Water and Wastewater Association is made possible by the support of a dedicated network of members and volunteers.

Volunteering offers many benefits to both an organization and the individual. A large network of dedicated volunteers can allow an organization to fulfill its mandate. For the individual it is a great opportunity to meet new people, learn new skills and give back to your industry.

In 2009, the ACWWA Board of Directors has recognized the importance of recruiting and maintaining a strong group of volunteers and created a Volunteer Committee. The goal of this committee is to compile volunteer opportunities and assign those interested in volunteering to the tasks as well as recruiting volunteers.

Volunteer opportunities with ACWWA can range from chairing and sitting on various committees, assisting with the annual conference and other events, and facilitating education workshops, to name a few.

One of the committee's goals for 2013 is to create a detailed list of opportunities so that it will be easier to find and assign volunteers to meaningful tasks.

If you are interested in becoming a volunteer or would like to find out where volunteers are needed, I would encourage you to get in touch with our Volunteer Committee Chair, Doug MacKinnon ([doug.mackinnon@sansom.ca](mailto:doug.mackinnon@sansom.ca)).

### Membership activities

AWWA held their annual Membership Matters Summit at AWWA Headquarters in Denver from February 6 to 8, 2013. John Eisnor and Clara Shea represented ACWWA at the event. Aside from the blizzards in Toronto and Halifax that caused travel delays on the way home, once again the Membership Summit was well worth the trip. Some of the topics covered included a review of the recent AWWA Membership Survey, communicating the value of membership and building an effective membership committee. As always, the summit was an excellent opportunity to network with other sections of AWWA and to bring back new ideas to Atlantic Canada to improve membership.

During the Membership Summit, the winners of the 2012 AWWA Membership Challenge were announced. ACWWA was awarded a \$100 prize for having a total of 18 student members, which exceeded our target of 16.

This year's AWWA Membership Challenge will focus on retaining first year members. If 67% of the new AWWA members that joined in 2012 renew their membership in 2013, ACWWA will receive 10% of our AWWA dues revenue as a bonus.

The ACWWA Membership Team is looking for enthusiastic individuals who enjoy meeting new members. If you enjoy speaking to people on the telephone and want to get involved with ACWWA, please contact John Eisnor at [john@halifaxwater.ca](mailto:john@halifaxwater.ca) or (902) 490-1930. ☎

### New ACWWA members

Name	Company	Membership
Duane Baker		AWWA
Stephen Barbour	Nova Consultants Inc.	AWWA
Helene Bernard	Victor, Bernard & Son, Ltd.	AWWA
Ben Bickerton		AWWA
Charlotte Clark	XCG Consulting	AWWA
Gary Jonah	Village of Hillsborough	AWWA
Shawn Lively	Nova Scotia Power Inc.	AWWA
Doug MacKinnon	Sansom Equipment Limited	AWWA
Tonia Newman	Newfoundland & Labrador Hydro	AWWA
Patrick Pelletier	IPEX Inc.	AWWA
Murray Pictou	Halifax Water	AWWA
Daniel Scott	ADI Systems Inc.	WEF
Heather Shea	Halifax Water	WEF
James Spurr	Halifax Water	AWWA
Dylan Takacs	Sansom Equipment Limited	WEF

“Volunteer opportunities with ACWWA can range from chairing and sitting on various committees, assisting with the annual conference and other events, and facilitating education workshops, to name a few.”

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# Protect Your Assets! Come to Fredericton in September

BY: Scott Grasman, 2013 ACWWA Annual Conference Chair

## Planning for the 66th ACWWA Annual Conference is well underway.

Please join us in Fredericton from September 29-October 1, for the 2013 ACWWA Annual Conference. The Fredericton conference organizing committee has been meeting regularly and working hard to produce a high quality conference program that we hope will exceed the high expectations of our members and guests.

We are excited to be hosting the Annual Conference in Fredericton for the first time since 2002, and are pleased to showcase Fredericton's new Convention Centre, located in beautiful & historic downtown Fredericton, as the primary conference event venue. The Crowne Plaza Fredericton and Delta Fredericton are on board the official hotels of this year's conference.


The theme of this year's conference is "PROTECT YOUR ASSETS: *Managing Your Infrastructure Needs*"

Every utility faces challenges when it comes to managing their water and wastewater systems. In today's world, customers expect their drinking water to be safe and of high quality. They also expect that the wastewater produced will be managed effectively in order to protect public health and the aquatic environment. Customers also do not want to pay any more than absolutely necessary for these services. In order to meet the high expectations of customers, a utility must carefully manage their systems to ensure that money spent on their water and wastewater infrastructure results in a more sustainable system.

Look for a technical program that will include exploring the challenges of managing your infrastructure assets, featuring a roundtable of industry experts in the conference's Opening General Session. In addition, featured events like the tradeshow, golf tournament, ABEA Hospitality Night, and the Top Ops competition will offer great opportunities to renew your friendships, and make new ones. Look for some top quality entertainment, and a great meal at this year's Down East Night. We promise you will not go hungry. Whether you are a utility executive, an Operator, a supplier, regulator, consultant, academic, or student, this year's ACWWA Annual Conference in Fredericton is a 'cannot miss' water and wastewater industry event.

Check out the conference page on the ACWWA website ([www.acwwa.ca](http://www.acwwa.ca)) for the latest conference information and updates. Also, 'Like' the 2013 ACWWA Annual Conference

on Facebook, and follow us on Twitter. You will find the links on the website. Questions? Contact Scott Grasman at (506)460-2749, or by email at [scott.grasman@fredericton.ca](mailto:scott.grasman@fredericton.ca).

So come early and stay longer. Please join us in Fredericton this September for the 66th Annual ACWWA Conference. **Mark your calendars for September 29 – October 1.** First class conference events and welcoming hospitality await you. We cannot wait to see you, and help you to better 'Protect Your Assets!' 

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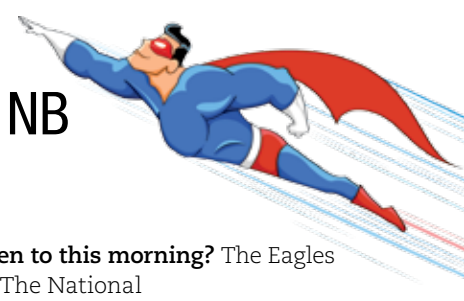
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303 Golden Grove Rd, Saint John, NB (506) 634-3112

40 Loftus Street, Moncton, NB (506) 857-1082



# Winner of **Silent Hero Award** in 2012 for NB **Mike Richard**, City of Moncton



1. **Job Title?** Utilities Supervisor.
2. **Who do you work for?** City of Moncton Engineering Dept
3. **Where do you currently live?** Moncton NB
4. **Where did you grow up?** Sherwood PE, (outside Ch'town)
5. **When I am not working, I am...** being active, at the gym, camping, golfing, boating
6. **The accomplishment I am most proud of is...** the Utilities Team –building a great group of dedicated public servants.
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?** An Exploration – with Sir John Franklin in the Arctic in search of the Northwest Passage ; or more importantly and realistically, with my wife, the explorer, across Australia
8. **What is your philosophy on life?** Live, Love, Laugh
9. **Toughest thing about your job?** Working with multi-levels of bureaucracy
10. **When you were a kid, what did you want to be when you grew up?** A professional hockey player
11. **Last book you read?** *Chasing The Dime*, Michael Connelly
12. **Last movie you saw?** Skyfall
13. **What music did you listen to this morning?** The Eagles
14. **Favorite TV show?** CBC The National
15. **What was the best gift you ever received?** Trip to New Year's Eve festivities in New York City Times Square
16. **What's the most useless thing you ever purchased?** A 1990 Dodge Omni – geez that was a lemon!
17. **Not many people know that I... am an 'Islander'**
18. **What is your greatest luxury?** Boating on the Washademoak Lake with my wife.
19. **What is your favorite famous quote?** Lead, follow or Get out of the way – Lee Iacocca
20. **Describe your perfect day.** A warm, dry sunny one golfing with my wife on a new-to-us golf course in the Maritimes, on the longest day of the year
21. **What three objects would you rescue from your burning house?** Computer with all the pictures on it, old family photos albums back to 1940s
22. **What Section would you most like to visit, and why?** Southern California to view desalination technology
23. **Who is the most influential person in your life?** My wife, because of her caring thoughtful character
24. **What is your ideal vehicle?** Fully equipped modern motorhome
25. **How long have you been a member of ACWWA?** 20+ years 🌊

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# Eastern Wastewater Treatment Facility, Saint John, NB

Winner of the 2012 Project of the Year (Large Utility) – Engineering Award / Environmental Award

Interview with John Flewelling, Project Manager, CBCL Limited

## Describe the project

The Eastern Wastewater Treatment Facility (EWWTF) serves as the cornerstone for Saint John Harbour Cleanup. The EWWTF project is a conventional activated sludge process designed to treat an average daily flow of 35,000 cubic metres per day, and a peak daily flow of 80,000 cubic metres per day. The plant includes facilities that encompass preliminary treatment, screening, grit collection, sludge dewatering, primary clarification, secondary treatment, and disinfection via ultraviolet light. A 1370 millimetre diameter high-density polyethylene outfall pipe extends 1400 metres from the plant into Saint John Harbour to disperse treated effluent through a diffuser.

## Describe the project team

The project was designed by CBCL Limited. Subconsultants for the project included Conquest Engineering (Geotechnical), Murdock and Boyd Architects

(Architectural drawing review), Lewis and Zimmerman (Value Engineering Facilitators).



## Were there significant challenges?


A fundamental challenge for the EWWTF involved construction on the site of the existing Hazen Creek Wastewater Treatment Plant and adjacent to Red Head Marsh, which is a provincial environmentally significant wetland that serves as prime habitat for migratory birds including the at risk species known as the Least Bittern. The existing Hazen Creek Plant remained in operation for the duration of construction.

The EWWTF outfall design and construction faced marine challenges posed by varying tide levels and dynamic environments. Each day approximately 100 billion tonnes of seawater move in and out of the Bay of Fundy during the tide cycles. The tide cycle can vary water depth as much as 8 metres every six hours. During construction, the project team was challenged each day to adapt construction methods for extreme low and high tides and quickly changing weather conditions.

## What were the successes?

The EWWTF project provides significant benefits to the local community. The EWWTF project can now treat flows that previously discharged directly to Saint John Harbour. Improvements to the wastewater collection and treatment system are ongoing to convey untreated sanitary sewer flows to the EWWTF. Raw sewage outfalls are being eliminated as a result of Harbour Cleranup initiatives. Treated effluent from the EWWTF is now directed more than 1 km offshore into a mixing zone, as opposed to the previous location which was directly discharged onto Red Head beach. Local residents can now safely enjoy recreation activities in this area.

## How was the project funded?

The Eastern Wastewater Treatment Facility (EWWTF) is a major initiative funded by the City of Saint John, Province of New Brunswick and Government of Canada to intercept and treat raw sewage from outfalls that discharge directly to the Bay of Fundy. 

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What Revisions to TCR Will Mean for Water Systems	January 30
Electronic Consumer Confidence Reports - What You Need to Know	February 20
Regulatory Update	December 12
Two more included: topics to be determined	

## Water Treatment and Operations Bundle

Maximize Your Hydraulic Model: Improve Water Quality and Water System Functionality	February 6
Continual Quality Improvement in the Laboratory	April 3
New Developments in Sodium Hypochlorite On-Site Generation Technology	October 23
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## Understanding log removal

Welcome to the first printing of the 'Back to Fundamentals' section that will be published in this and forthcoming issues of the ACWWA periodical *Go with the Flow* magazine. The section is intended to cover a broad range of fundamental water and wastewater topics that will be driven by you the readers of this magazine. If you find a topic particularly interesting or confusing most likely others will as well. So please forward your ideas for future columns to Shawn Rowe P.Eng. ([shawnr@halifaxwater.ca](mailto:shawnr@halifaxwater.ca), Halifax Water) or Chris Fahie, M.A.Sc., P.Eng. ([cfahie@dillon.ca](mailto:cfahie@dillon.ca), Dillon Consulting) and we will respond in future publications to your queries.

### This month's topic,

#### 'Water Treatment - Understanding Log Removal'

A municipal drinking water system treating surface water or groundwater under the direct influence of surface water (GUDI) must be capable of 3-log (99.9%)

reduction or inactivation of *Cryptosporidium* and *Giardia*, and 4-log (99.99%) reduction or inactivation of viruses that may be present in the source water as a minimum based on achieving water objectives in the Guidelines for Canadian Drinking Water Quality (Consult local regulatory authority for provincial guidelines). In keeping with a multi-barrier approach to drinking water treatment, it is often a requirement of the disinfection process to achieve at least a 0.5 log inactivation of *Cryptosporidium* and *Giardia*, and 2-log inactivation of viruses be attributed to the disinfection processes.

But what does **log reduction** and **inactivation** mean?


Log-reduction/inactivation terminology was developed as a way to express and measure the decrease of pathogenic organisms after treatment in water by factors of 10 that could be easily converted to percent reduction. The logarithm to base 10 is called the common logarithm and has many applications in science and engineering. The log of 10 in the base 10 logarithmic system is 1 ( $10 \times 1 = 10^1$ ) and the log of 100 is 2 ( $10 \times 10 = 10^2$ ), with the log of 1000 being 3 ( $10 \times 10 \times 10 = 10^3$ ), etc.

Log reduction simply relates to the percentage of microorganisms physically removed or inactivated by a given process as is as follows (Counting the number of 9s, with 5s representing 1/2 log):

Log Reduction	Percentage Removal
1-Log Reduction	90%
2-Log Reduction	99%
2.5-Log Reduction	99.5%
3-Log Reduction	99.9%
3.5-Log Reduction	99.95%
4-Log Reduction	99.99%

For Example:

- 3-log reduction for protozoa means a 99.9% reduction in protozoa levels;
- 4-log reduction for viruses means a 99.99% reduction in virus levels.

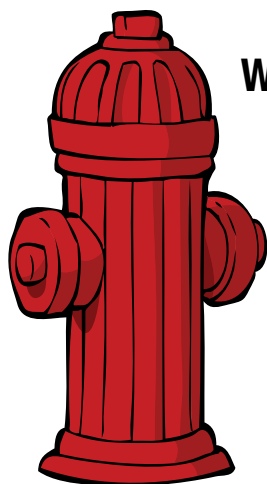
In conclusion, log reduction may comprise two components: log removal by physical treatment and log inactivation by disinfection. 

#### Reference:

Nova Scotia Treatment Standards for Municipal Drinking Water Systems, Nova Scotia Environment, March 2012.

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# Operation Certification Quiz



1. What process is important to ensure that sand filtration works efficiently?
2. What is the term for the pressure against which a pump must operate?
3. What is the best way to check for hydrant seat leakage?
4. What filtration process provides an absolute barrier?
5. The units NTU are used for what water quality parameter?

## Quiz Answers

1. Coagulation 2. Head 3. With a listening device 4. Membrane filtration 5. Turbidity

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# ACWWA invites submissions for Award Nominations for 2013

If you know someone who has made a contribution to the water and/or wastewater industry, do not let their efforts go unnoticed. The following awards are eligible for presentation at the ACWWA Conference in Fredericton, NB on September 29 - October 1, 2013.

## **Fuller Award** (AWWA member only)

The George Warren Fuller Award is awarded by the American Water Works Association (AWWA) and may be presented annually to a member of ACWWA for distinguished service in the water supply field in commemoration of the sound engineering skill, the brilliant diplomatic talent and the constructive leadership that characterized the life of George Warren Fuller. The award was established in 1937 in memory of Mr. Fuller who, besides being identified with several important sanitary engineering advances, is given much of the credit for AWWA's development from a social group to its' present high standing as a technical organization.

## **Burke Award** (WEF member only)

The Burke Award is awarded by the Water Environment Federation (WEF) and recognizes a municipal or industrial wastewater facility for establishing and maintaining an active and effective safety program. This award was established in 1982 in honour of George W. Burke, Jr., for his many years of service to both the water environment field and WEF as staff manager of technical services. Mr. Burke was instrumental in developing WEF's annual safety survey and assisting in the production of several safety training aids and promotional packets.

The purpose of this award is to encourage an active and effective safety program in municipal and industrial wastewater facilities.

### Criteria:

- i. The documented and illustrated safety program and safety record of the facility for the preceding calendar year are the primary criteria for the award.

## **MacNab Award** (AWWA or WEF member)

The Ira P MacNab Award is awarded by ACWWA and may be presented annually to a member of the ACWWA for outstanding service to the water industry in Atlantic Canada. The award was established in 1957 when the ACWWA was called the Maritime Branch of the Canadian Section AWWA. It is in honour of the late Dr. Ira MacNab, P.Eng., the first president of the Maritime Branch, for his untiring efforts and wise council during our formative years and to recognize his outstanding service and interest in the local water utility field.

## **Bedell Award** (WEF member only)

The Bedell Award is awarded by the Water Environment Federation (WEF) and may be presented to a member of ACWWA to acknowledge extraordinary service to a WEF Member Association. The award is named for Arthur Sidney Bedell, WEF's second president for his long devotion and service to the New York Sewage and Industrial Wastes Association, now the New York Water Environment Association. He was Chief of the Bureau of Sewage and Waste Disposal of the New York State Department of Health.

### Criteria:

- i. Member of the Water Environment Federation. Organizational leadership, administrative service, membership activity, stimulation of technical functions, or similar participation.

## **Silent Hero Award** (New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland) (AWWA or WEF member)

The Silent Hero Award is awarded by ACWWA and may be presented annually to recognize outstanding contributions of water and wastewater operators in each of the four Atlantic Canada provinces. The nominees must be a member of ACWWA, employed by a utility member of ACWWA, or employed by a Corporate Member of WEF.

## **Volunteer Recognition Award** (AWWA or WEF member)

The Volunteer Recognition Award is awarded by ACWWA and may be presented annually to recognize outstanding contributions by an individual or a group of individual volunteers to ACWWA programs and/or the water industry throughout Atlantic Canada. The nominee must be a member of ACWWA, (AWWA or WEF), or employed by a utility member of ACWWA.

“Don't let  
their efforts  
go unnoticed.”

### Young Professional Award (AWWA or WEF member)

2012 marks the introduction of an award which recognizes a Young Professional within the Atlantic Canada Water & Wastewater Association for outstanding contributions to the water & wastewater industry, and to the ACWWA Young Professionals' committee. The inaugural 'Young Professional of the Year' will be introduced and recognized at the 2012 Annual Conference in Charlottetown, PE.

Criteria:

- i. Member in good standing of ACWWA;
- ii. Actively involved with the ACWWA YP committee;
- iii. Promotes the YP ideals, and contributes meaningfully to the Association, and to the greater water & wastewater industry.

### Project of the Year –

#### Engineering Award/Environmental Award:

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

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

- Small Utility - less than 5000 customers
- Medium Utility - between 5000 and 25,000 customers
- Large Utility - more than 25,000 customers

### Laboratory Analyst Award (WEF member only)

The Laboratory Award is awarded by the Water Environment Federation (WEF) and recognizes individuals for outstanding performance, professionalism and contributions to the water quality analysis profession.

Criteria:

- i. Member of the Water Environment Federation.
- ii. Candidate must be employed at an educational facility laboratory, industrial, commercial, or municipal laboratory which performs wastewater-related analysis, and must have direct analytical responsibilities.
- iii. Candidates are eligible for this award only once.
- iv. Qualifying criteria may include:
  1. Membership and involvement in professional associations. Examples: Water Environment Federation Committees, Standard Methods Joint Task Groups, MA committees and conferences and conference activities.
  2. Outstanding efforts in the area of wastewater and environmental aquatic analyses, including such items as innovative sampling techniques or solutions to a treatment, analytical or environmental problem.
  3. Involvement in community activities or public relations.

4. Presentations at professional conferences, meetings, etc. relevant to water quality analysis.
5. Professional certifications.
6. Continuing education.
7. Contributions that have been beneficial to the nominees facility.
8. Unusual initiative or performance "beyond the call of duty".

### Nominations Procedure

Where applicable, an awards committee has been established for the specific awards. The awards committee shall select the recommended candidate for the award from the nominations received, and shall present the award to the recipients during the ACWWA annual conference.

The recipient of the Fuller Award receives a pin at the ACWWA conference, and the actual Fuller Award is presented at the following AWWA Annual Conference and Exhibition.

All other awards are presented at the ACWWA conference.

The deadline for submissions will be August 16, 2013, for Awards to be presented at the Fredericton Conference on September 29 – October 1, 2013.

Individuals wishing to nominate an individual or group for an award should complete below or contact the ACWWA office and request the applicable nomination form.

Nominee's Full Name: \_\_\_\_\_

Nominee's Title: \_\_\_\_\_

Award: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Phone: (     ) \_\_\_\_\_

Please fax your nominations  
to ACWWA (902) 435-7796.

Contact:  
Clara Shea, Executive Director  
Telephone: 902-434-6002  
Email: [contact@acwwa.ca](mailto:contact@acwwa.ca)  
Home page: [www.acwwa.ca](http://www.acwwa.ca)



# Reid Campbell, Director of Water Services Halifax Water Winner of 2012 Fuller Award

## What is your job title?

My job title is Director of Water Services.

## Who do you work for?

I work for Halifax Water, the water, wastewater and stormwater utility in the Halifax metro area.

## Where do you currently live?

I live in the Clayton Park area of Halifax, about 10 minutes from the office.

## Where did you grow up?

I grew up in Cape Breton, in Sydney.

## What is the toughest thing about your job?

The toughest thing about my job is time management. I am very fortunate to work with a lot of very capable people in an environment where we are encouraged to excel. As a result it is very easy to get too many irons in the fire and to not dedicate enough time to the right initiatives.

## When I am not working I am...

In the winter it usually involves basketball, either being a referee, watching my kids play or watching university ball or the Toronto Raptors on TV. I also spend time volunteering with my church and a local food bank. In the summer our family enjoys spending time at our cottage on Poonhook Lake, about an hour and a half from Halifax.

## The accomplishment I am most proud of is...

Eleanor and I celebrate our 25<sup>th</sup> wedding anniversary this May. We have also raised two sons (19 and 16) who are turning into fine young men.

## When I was a kid I wanted to be ...

Goaltender for the Montreal Canadiens.

## Not many people know that I can....

Scottish Country Dance. Eleanor and I belonged to a group for about four years in Ontario and for a brief time in Halifax. I have the formal Scottish attire to prove it. It can be a lot of fun. I have not tried it in over 16 years but I would like to think I could if I had to.

## What is the last book you read?

*Rebound*. It is a very interesting book about the racial problems that divided Boston in the 1970's, how the fall of the Celtics dynasty went along with it and how the arrival of Larry Bird and the revival of the Celtics helped the city turn itself around.

## The last movie you saw?

The last movie I saw in the theatre was *Les Miserable*. It was terrific. I would love to see it again.

## Your favorite TV Show?

*Mad Men*. We just started watching *Downton Abbey* since Christmas. I enjoy that as well.

## The best gift you ever received?

Tickets to the 1993 World Series in Toronto. I got to see Joe Carter hit his walk off home run, against the Phillies, in person.

## Your guilty pleasure?

A few years ago I splurged and bought a high end Vermont Castings grill for the cottage.

## The song or story you remember from the radio this morning?

There was a story on CBC radio this morning about the state of buried infrastructure in Halifax.

## The most useless thing you ever purchased?

A few years ago I was building a deck and purchased an extremely cheap mitre saw. It got me through building the deck but its best use now is as a boat anchor.

## If you could go on a road trip with any one person, living or dead, who would it be and where would you go?

Several years ago Eleanor and I drove through the Rockies from Calgary to Kelowna. It would be hard to top that road trip.

## What is a typical day like for you?

I get up early and go for a walk. I have breakfast and enjoy the newspaper and a latte for a while. I head to the office where a typical day is half meetings. After dinner I may walk the dogs, watch some TV or do some work around the house or do some volunteer work. ☺



# ACE<sup>13</sup>

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ACE13 registration opens in January of 2013.  
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Denver, Colorado | June 9–13, 2013 | [www.awwa.org/ace13/leaders](http://www.awwa.org/ace13/leaders)

American Water Works Association is the largest organization of water professionals in the world and we are thrilled to host the 132nd Annual Conference in Denver, Colorado. This year the ACE13 professional program is the one-stop, all-inclusive conference to attend this year.

Organized by technical topic, this year's program presents solutions to water sector challenges in 17 defined tracks of professional sessions that span the entire four-day ACE13 program. For example, you will find sessions on key topics that address the full spectrum of the issue – from research to planning to treatment to management.

Water utilities are continually faced with a wide range of management, treatment and operations challenges. From increased regulatory compliance, to cultivating an informed workforce, to replacing deteriorating infrastructure, to maintaining a financially sound organization, **this year's program puts the focus squarely on presenting attendees with solutions to these challenges.**

### Extended and interactive discussions on today's hot topics!

The ACE13 professional program provides many opportunities for expanded conversations with leading water sector experts. Listen and join in the lively discussion as the experts share real-world experiences and lessons learned that can benefit water utilities across North America.

- Network and learn with professionals and peers who share similar interests and challenges
- Learn and share from more than 900 expert presenters covering everything from sustainability, conservation and water efficiency, legislative and regulatory issues, residuals challenges, water resources management, and infrastructure maintenance to public affairs and more

- Extend your learning experience in an amazing exposition featuring hundreds of water industry manufacturers, distributors, and service providers

### More networking

- Join your peers at a new networking session in the exhibit hall on Tuesday afternoon. Discover innovative technologies, processes and equipment available for the water sector. There is something for everyone in the hall so stop by and say hello to an exhibitor!
- The Wednesday Afternoon Power Break - Take a moment and say hello to the person sitting beside you! Use the 30-minute break to connect with attendees in your session room that share similar challenges or have solutions you could implement when you return from ACE13.

### Canadian Water Forum

Sponsored by the Canadian Affairs Committee and the five Canadian Sections  
Monday, June 10, 5:30 - 7:30 p.m.  
LODO Bar and Grill  
1946 Market St.  
Denver, CO 80202  
\$45 per person

The Forum is a friendly gathering place where you can reacquaint yourself with old friends and meet new ones. The ticket price includes hors d'oeuvres and two drinks and is a fundraiser for Water for People – Canada. Tickets for this event may be purchased in advance through any of the five Canadian Section offices or at the door.

### Highlighted sessions

This is just a sample more sessions can be found online at [www.awwa.org/ace13](http://www.awwa.org/ace13).

### TUE21 - Canadians Agree with Einstein: Imagination is More Important than Knowledge

Learn how to utilize limited knowledge to solve big, small, usual or unusual problems. These presentations will open your mind to new ways of facing water treatment problems and achieving unexpected solutions.

#### 1:30 p.m. What's Going on Up North?

Trends in Canada

Mr. Robert Haller, Canadian Water & Wastewater Association

#### 1:45 p.m. Doing More with Less: How Regional Water Systems Can Solve Rural Water Needs

Mr. Andrew Kleisinger, MPE Engineering Ltd.; Mr. Ralph Havinga, Newell Regional Services Corporation;

#### 2:30 p.m. Oil Pays: Infrastructure Planning in a Superheated Economy

Ms. Edith Asselin, Associated Engineering;

#### 3:00 p.m. Is QMRA Actually Useful? Using Risk Assessment in Capital Planning or Day-to-Day Operations or both

Ms. Quirien Muylwyk, CH2M HILL;

#### 3:30 p.m. Groundwater Treatment Technologies: The Saskatchewan Experience

Dr. Ondiveerapan Thirunavukkarasu, Ph.D., P.Eng., Ministry of Environment;

#### 4:00 p.m. Carbon Neutral in BC: If You Can Do It Here, You Can Do It Anywhere!

Mr. Steve A. Conrad



## International Council Professional Sessions

### TUE03 - Becoming the Water Utility of the Future

Tuesday, June 11, 9:00 a.m. – noon  
Having a competitive water utility of the future is key to improving the levels of service, financial well-being, and regulatory compliance. A utility's position in the local, national, and international marketplace depends on its actions today, strategic plans, alliances, and public involvement. This session will address what utilities should focus on at the medium (5-15 years) and long term (15-50 years) ranges.

### TUE23 - Developing Strategic Alliances: Benefits and Lessons Learned

Tuesday, June 11, 1:30 – 4:30 p.m.  
AWWA's International Council has been working for the past few decades to establish strategic alliances with water utilities and national organizations to promote their mutual products, services, and capabilities. This session will present the past experiences and lessons learned in the promotion of the national and global water industry and further identify and develop these relationships and seek new opportunities and relations.

### International Resource Center

Sunday, June 9 – Wednesday, June 12, 8:00 a.m. – 5:00 p.m.

Take advantage of the many resources available to you, including an international attendee lounge, and a list of ACE attendees sorted by country. Staff and volunteers will also be available to answer your questions about the technical program, technical tours, local areas of interest and all the activities at the conference.

### International Reception

Monday, June 10, 5:30–7:00 p.m.  
Hyatt Regency Denver

Join us for an excellent opportunity to socialize with colleagues from around the world, renew old acquaintances, and make new friends. AWWA's leadership and

International Council Members will be available to meet and discuss international issues in a relaxed, social atmosphere.

### Registration Offers

**An Attendee's Best Value** - Full-conference registration now includes lunch on Monday or Tuesday!

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the same utility - get one for free!  
Full-conference registration now includes lunch on Monday or Tuesday!  
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**Discount Deadline to register: March 29, 2013**

Short url for print only: [www.awwa.org/ace13](http://www.awwa.org/ace13). 



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## Blue Thursday events

The ACWWA YPs have been a busy bunch these past few months. Blue Thursday events have been held every month with good turnouts and great discussions. Matt Follett and Megan Kot are using the powers of social media to keep everyone up to speed on Blue Thursday events by setting up a Blue Thursday Facebook Group. Attendance is not limited to only YP's, age is only a number. Anyone interested can join the group at (<http://www.facebook.com/groups/437992619572162/>). The most recent event was held last Friday, February 21, at the T-Room on Dalhousie Campus.

Planning is underway for a YP Training Seminar to be offered in the spring. Past seminars have been

successes and this one should not be any different. Training ideas remain to be finalized, so if anyone sees a gap in their training please pass it along.

A curling fun night will be held this Thursday at the Fredericton Curling Club. It is a perfect opportunity to win office bragging rights. Curling begins at 6pm with pizza to follow at 8.

A quick notice goes out to those preparing or thinking of preparing abstracts for upcoming conferences. The ACWWA call for abstracts ends soon. Please indicate if the presenter is a first time Young Professional participant at the ACWWA section conference, and would like to 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 2014) in Denver, Colorado, representing the Young Professionals of ACWWA. Along with complementary conference registration provided by the ACE 2014 organizing committee, ACWWA will provide the winner with a stipend to assist with travel costs to the conference. Best wishes go out to Ramona Doyle as she will represent the ACWWA at the 2013 *Fresh Ideas* Program at the AWWA ACE Conference in Denver.

Upcoming events will include more Blue Thursdays, YP training seminars, and other networking events. ☺

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# Using social media FOR BUSINESS



By Cheryl Parisien

Social media such as Facebook, LinkedIn, Twitter, YouTube, blogging, and texting are not just for keeping up with friends and updating social calendars. If your business is not online and taking advantage of social media, you could be missing a great and cost-effective opportunity to market your products and services.

Using social media for your business is all about expanding your brand and connecting with customers and other stakeholders. It does not replace standard marketing and promotion, but complements it. Because social media is growing, businesses which ignore it, risk being left behind.

## What is social media?

Use of social media for both personal and professional purposes is on the rise. Here is a quick summary of some of the most popular:

**Facebook ([www.facebook.com](http://www.facebook.com)):** This is a social media site which began as a Harvard student networking tool, and has grown to include more than 400 million users worldwide. It is the most popular social network. Users can create profile pages, post links, photos, join groups, play games, and update their pages as often as they wish.

**Twitter ([www.twitter.com](http://www.twitter.com)):** Twitter is a social networking and microblogging service allowing users to send and read other user messages called tweets. Tweets are text-based posts of up to 140 characters displayed on the author's profile page. Tweets are publicly visible by default, however, senders can restrict their tweets to friends only. Users may subscribe to other author tweets (known as following) and subscribers are known as followers. Twitter is growing fast,

and currently has more than 100 million subscribers.

**LinkedIn ([www.linkedin.com](http://www.linkedin.com)):** This is the business-person's version of Facebook. It functions in a similar fashion, but is meant specifically for professional networking. It has more than 70 million registered users across 200 countries.

**YouTube ([www.youtube.com](http://www.youtube.com)):** This is a video sharing site where users can upload or view videos from around the world. It includes a wide variety of user-generated video content, including movie clips, TV clips, and music videos, as well as amateur content such as video blogging and short original videos. Most of the content on YouTube has been uploaded by individuals, although media corporations and other organizations offer some of their material on the site.

**Blogging:** The term is short for Web log, and is a type of website or site portion. Blogs are usually maintained by an individual with regular entries of commentary, descriptions of events, or other material such as graphics or video. Many blogs provide commentary or news on a particular subject; others function as more personal online diaries. A typical blog combines text, images, and links to other blogs, websites, and other related media. The ability of readers to leave comments in an interactive format is an important part of many blogs.

**Texting:** Text messaging is the exchange of brief written messages between mobile devices over a network. It can include messages containing image, video, and sound. Texts can be used to interact with

automated systems, such as ordering products and services for mobile phones, or participating in contests. Advertisers and service providers use texts to notify mobile phone users about promotions, payment due dates and other notifications that can usually be sent by post, e-mail or voicemail.

## Why use social media for business?

Social media is popular with many different generations, but is especially so with young people. They are comfortable with the technology, grew up with it, and expect to use it. This group is your future clientele and employee pool. Companies which do not use these tools run the risk of being seen as behind the times, slow, and inefficient.

Even though these customer interactions are online, it does not mean they are impersonal. In fact, customized, targeted tweets or Facebook postings can be very personal. However, it is important not to overdo it, otherwise your carefully crafted message could get lost in the clutter.

"The power of social networking allows me to get my message out across numerous networks. I have the ability of communicating with my immediate peer group very efficiently," says Angela Chambers, Practice Leader at Mercer Bradley, who regularly uses Facebook and LinkedIn to promote her business. "As well, this process gives me immediate access to people I have never met. The word gets out to individuals I normally would not have access to, creating additional contacts and business opportunities. I can reach thousands of potential buyers with just a few minutes of work."

## Enhancing your brand

Dedicate time to creating your social media presence. Choose your profile and avatar images wisely. It is important to keep your online personality consistent. Use social media to reinforce your offline brand, not to create a new one. What you post online is archived and easily traceable, so maintaining your message is important.

However, it is important to be fresh also. Do not send out the same tweets over and over. Good writing is also important, especially with Twitter's 140-character limit. If blogging on your website, take the time to craft pertinent posts, and proofread before posting. Grammar and spelling mistakes look sloppy and could turn off potential clients. Snappy writing grabs attention and gives credibility.

In-Pipe Technology Company, Inc. has recently joined Twitter. "In-Pipe is very new to using Twitter (June 2010)," says Nikki Clay, Sales and Marketing Coordinator. "We are

slowly integrating Twitter as a way to further awareness about wastewater industry news and trends as well as a supplement our own marketing program by maximizing exposure for items such as press releases, scheduled speaking engagements, awards, new white papers, and published articles."

Social networking takes time to cultivate relationships and build sales contacts. Be sure to regularly care for your social network. Do not neglect it and use it only when you need something. Networking is a two-way street. Here are some tips:

- Begin your description with your special area of expertise
- Always include what you do for customers
- Include a bit of personal information such as hobbies, etc.
- Do not include information that is too personal unless it is relevant to your brand. Discussing an illness, fight with a spouse, or something similar is fine among friends, but

not on a social networking site where it could be read by potential clients and colleagues. Keep your posts light.

Social networking also has its place within your organization as well. It is a way for staff to keep up to date on company initiatives, and also to keep up with each other.

Take advantage of smart phones by creating free apps for iPhone and iPad which pertain to your business. Urge followers to subscribe to your company's RSS news feed for automatic updates. This works both ways; you can also track references to your company through Google Alerts.

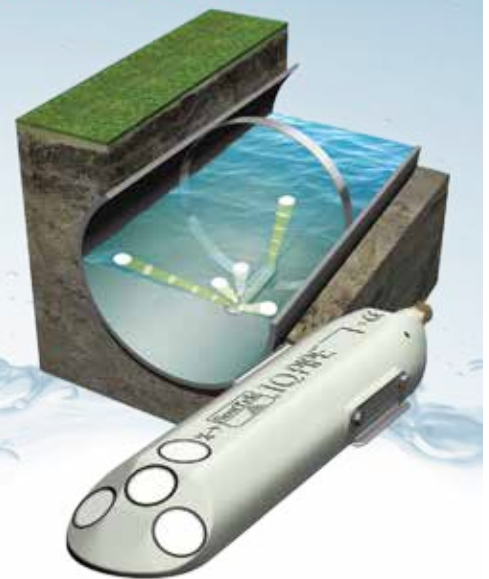
## Utilities

Utilities are a natural fit for social media, such as using Twitter to inform customers of outages, energy-efficiency programs, and general public relations. In the event of a service interruption, social media can help provide real-time updates for customers.

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*“Using social media for your business is all about expanding your brand and connecting with customers and other stakeholders.”*

It makes sense for utilities to use social media, because their customers already are. If customers are unhappy with their service or rate increases, they will often turn to social media to voice their opinions and concerns. If your utility is already using social media to discuss policy and practices online, and joins the conversation rather than ignoring it, some negativity can be avoided before it begins. 

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## 100 years for Moncton's Highfield Street pumping station

By Ensor Nicholson, P.Eng  
Director of Water Systems, City of Moncton

In 1983, after 70 years of continuous operation, Moncton's main pumping station on Highfield Street was designated as an AWWA Landmark. The historic facility is still going strong and later this year Moncton will be celebrating its 100th year anniversary.

Moncton's first water supply was developed in 1878 when the Fitzsimmons (Irishtown) reservoir was developed northeast of the city. By the early 1900's the Intercolonial Railway shops had arrived in Moncton and with it a need for more water supply. In 1913 the McLaughlin Reservoir was developed along with the Highfield Street Pumping Station to boost the pressure for fire protection in the downtown area.

With the high cost of electricity, a very large gas powered engine was ordered from England to power a 4800 GPM pump. A 6,400 square foot building was erected to house the large unit with space for producing 'coal gas' in the 'back shop.' The engine ran on this manufactured coal gas for several years before natural gas from Albert County became available. This was indeed a dirty job that required several men and plenty of hard work to keep things going 24/7. 100 years later the original Premier gas engine with its large flywheel and rope drive is still functional at the Highfield Street Pumping Station.

In 1952, a large Ruston Hornsby diesel engine was purchased as a backup for the electric pumps as natural gas service was not always reliable. This large unit was the backup unit for 50 years until it was replaced by a modern diesel driven pump in 2002.

Today the pumping station is very much a mix of old and new technology. Besides the old pump, the station has the original pressure gauges, venture meters and a Robb stream boiler from 1938. The building's triple brick construction and unique window arches have been maintained for historic purposes. Today the building houses two (2) modern electric pumps (500 & 600 horsepower) each with variable frequency drives, modern water quality monitoring equipment and Scada control.

Currently three water system operators work out of the historic facility which continues to be a vitally important component of Moncton's water infrastructure. Each day the facility pumps over 3.5 million gallons of water to service 50% of the city's residents and businesses.

Later this year the big doors at Highfield Street Pumping Station will be opened to the public and the media for all to see this grand old facility up close. Following the anniversary ceremony the old Premier gas engine will once again be fired up to show everyone how it was done 100 years ago.

## Nominations for positions on the Board of ACWWA (2013-2014)

The Board of ACWWA is inviting nominations for the following five positions:

1. Second Vice Chair (2013-2014);
2. AWWA Director\* (June 2014 - June 2017);
3. WEF Delegate\* (October 2014 - October 2017);
4. Membership Director (2013-2016);
5. Education Director (2013-2016).

\*Allows for a transition from the current position holder to the nominee.

Nominations should be provided in writing to the Section Office, and will be forwarded to the Nominations Committee for consideration. **The deadline for nominations is May 24, 2013.**

Please contact the Section Office for the following:

- Policy on Nominations and Elections to the Board;
- Terms of References for the positions;
- ACWWA By-Laws.

The Section Office may be contacted as follows:

Clara Shea, Executive Director  
Telephone: 902-434-6002  
email: [contact@acwwa.ca](mailto:contact@acwwa.ca)  
Home page: [www.acwwa.ca](http://www.acwwa.ca)



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