

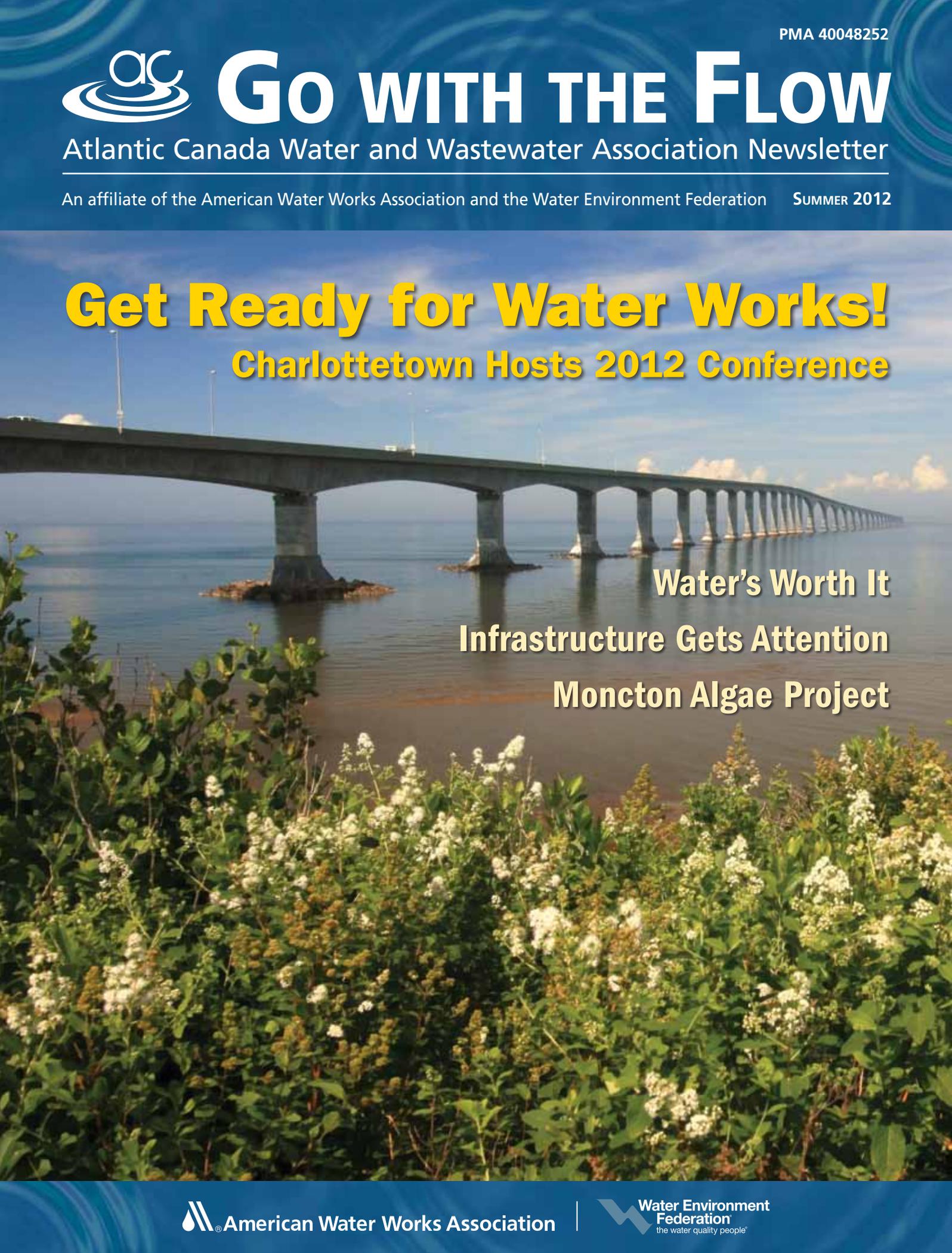


GO WITH THE FLOW

Atlantic Canada Water and Wastewater Association Newsletter

An affiliate of the American Water Works Association and the Water Environment Federation **SUMMER 2012**

Get Ready for Water Works! Charlottetown Hosts 2012 Conference



**Water's Worth It
Infrastructure Gets Attention
Moncton Algae Project**

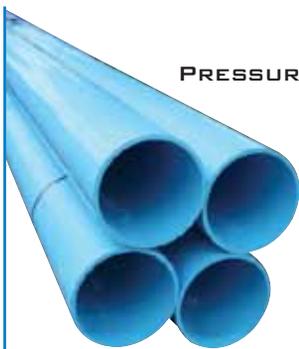
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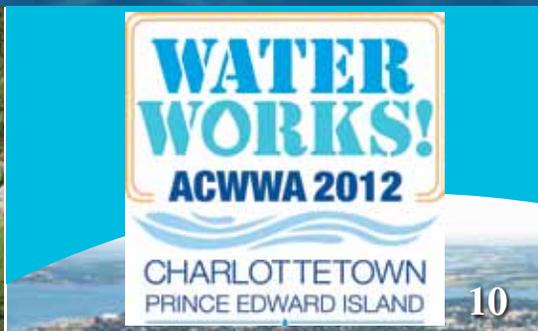
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The Confederation Bridge spans the Abegweit Passage of Northumberland Strait, linking Prince Edward Island with mainland New Brunswick, Canada. Construction lasted from 1993 to 1997, costing C\$1.3 billion. The 12.9-kilometre bridge opened on May 31, 1997.

Chair's Corner



Working Together for Atlantic Canada Water

by Jamie Hannam, MBA, P. Eng., Halifax Water

Welcome to the Summer 2012 edition of *Go With the Flow*, providing news about water and wastewater matters across Atlantic Canada. This informative magazine is one of the many benefits of membership with ACWWA.

As the association year progresses, I am continually impressed with how effective staff and our committees work within the association. Our Executive Director, Clara Shea, and the chairs of the ACWWA committees, drive the day-to-day work that supports our industry members.

Late in 2011, the board and the committee chairs revamped the ACWWA strategic plan. The focus of the 2011 review was to update the Short Term Tasks to reflect accomplishments to date and

define priority issues facing our association and industry. The outcome provides some clear direction for committee work during this year. Some of the important tasks for this year include:

- Update education material with local content
- Enhance relationship with government agencies
- Increase awareness of water and wastewater industry in Atlantic Canada
- Increase member engagement
- Enhance magazine content and advertising
- Continue to bring more information to our website

I want to express my appreciation and gratitude to the committee chairs of ACWWA and their members for the core

work they undertake on behalf of the membership, and I encourage everyone to check out our website for more information on committee work and ACWWA in general—just go to www.acwwa.ca.

ACWWA also continues its leadership role in the water and wastewater industry as we bring our local members together in Charlottetown in October for our annual conference—I hope you'll plan to attend! You can find more information on Page 10 of this issue.

If you have any comments or concerns please email me at Jamie.hannam@halifaxwater.ca, or contact Clara at contact@acwwa.ca.

Enjoy the summer, WORK SAFE, and we will see everyone in Charlottetown in October!

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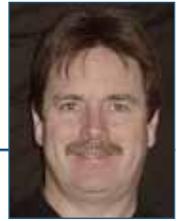
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WEF Delegate's Update



Help Spread the 'Water's Worth It' Message

by Gary Chew

All is well in the Atlantic WEF world. I was in Arizona for WEFMAX meetings in April; it is a great forum to talk to other member associations and share ideas and thoughts about their problems and successes. The Arizona Water Association did a great job of organizing the 3 days and I think everyone came out of it with something useful to their MA.

In other news, WEF has launched its "WATER'S WORTH IT" campaign, which helps to answer the question about how our actions, attitudes, and the things we most value are so closely connected with water.

The campaign aims to inform a range of audiences, including the general public,

media, opinion leaders, decision-makers and elected officials.

Everyone who uses water is encouraged to join this coordinated effort. By joining our voices behind this campaign, each of us can contribute to a positive change.

For members of the water sector, the campaign will:

- Provide you with communication tools you will need to succeed
- Help you to build alliances at the state, regional and community level, and
- Help you coordinate a flexible outreach and education effort that is easily tailored to what's happening in your state, region, community or agency.

For the general public, the campaign will:

- Provide you with the information you need to be an educated and responsible consumer
- Show you how your life is inextricably linked to this vital resource, and
- Help you to understand how important the water profession is and the essential services that it provides to your quality of life.

Once again, I encourage anyone who is involved in wastewater to join WEF. The rewards are definitely worth it! Go to our ACWWA website for information, or drop me a line at gary.chew@sansom.ca.

AWWA Director's Report



Infrastructure Issues Rising to the Surface by Reid Campbell

In early March, AWWA released "Buried No Longer: Confronting America's Water Infrastructure Challenges." This report is the most detailed and comprehensive to date, looking at the infrastructure deficit facing water utilities.

The report identifies a cost of \$1 trillion over the next 35 years to deal with deteriorating buried water infrastructure. This does not include treatment plants, pumping stations and storage facilities or costs associated with wastewater and stormwater infrastructure.

While the report is based on the United States, it draws startling conclusions that are equally applicable in Canada, and illustrates how the problem will only compound itself if utilities and their customers do not begin addressing it today.

This report is available for download from the AWWA website and is a recom-

mended read for utility managers.

In 2011, AWWA began rolling out Communities of Interest. COIs are designed to bring together water professionals with a specific technical interest in a virtual community. To date, COIs have been launched for conservation, customer service and desalinization.

If you have an interest in customer service, conservation or desalinization, I would encourage you to check out the communities, which can be found on the AWWA website under Professional and Technical Resources. You can also sign up to join a community and receive email alerts when new information is added to the community site. Stay tuned as AWWA rolls out more of these COIs.

I want to take a few lines to congratulate our Executive Director, Clara Shea, and Membership Director, John Eisnor.

John and Clara attended ACE12 in Dallas and were on hand as ACWWA received 5 membership awards from AWWA. Awards were received for membership growth and retention. Two of the awards were individual awards to Clara for membership recruitment, including the prestigious Zeno A. Gorder award, which was given out at the opening general session and is awarded to the section staff person recruiting the most members in a year. Well done, Clara and John, and to the many ACWWA members who were part of a tremendous membership year in 2011.

It is time to start looking forward to the ACWWA Annual Conference, being held this year in Charlottetown, Oct. 14-16. The conference promises to be a great one, and I look forward to seeing many of you there.

Membership Corner

ACWWA Wins Membership Awards by John Eisnor, P. Eng

ACWWA has won three AWWA membership awards:

- The Nicholas S. Hill, Jr. Award, which recognizes the AWWA Section that achieved the greatest net percentage growth during 2011.
- The Club Seven Award, which recognizes the AWWA Section that achieved the highest percentage increase in new members in 2011, within their division.
- The Retention Award, which recognizes the AWWA Section that achieved the greatest overall retention rate during 2011.

In addition, ACWWA Executive Director, Clara Shea, won two individual membership awards:

- The Zenno A. Gorder Section Staff Award, which recognizes the Section staff member who recruited more new members than any other section staff member on an annual basis.
- The Diamond Pin Award, which recognizes members who have recruited more than 25 new members.

These awards were presented in June during AWWA's Annual Conference and Exposition in Dallas.

We still need to grow our young professional and student membership. If you know of any young professionals who are not members, please ask them to join. Remember, if you recruit three new members within a quarter, you will receive a

gift from AWWA.

In an effort to get more members active, we are introducing a photo contest. For the inaugural contest, the theme will be "fire hydrants." The winning photo will be published in an upcoming issue of the newsletter.

As always, the ACWWA Membership Team is looking for enthusiastic individuals who have a desire to make ACWWA the leading professional association in Atlantic Canada. In particular, we are looking for individuals representing Nova Scotia, Prince Edward Island and Newfoundland and Labrador, and representatives from various industry sectors. If you are interested in joining the committee, please contact John Eisnor at john@halifaxwater.ca or (902) 490-1930.

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| AWWA Membership Challenge Update | | | |
|---|-------|-----------|--------|
| | Prize | Objective | Status |
| 2012 Year-End Total Student Members | \$100 | 16 | 14 |
| New Young Professionals Recruited in 2012 | \$150 | 11 | 6 |
| 2012 Year-End Total Membership | \$250 | 505 | 497 |

| New ACWWA Members | | | |
|--------------------|-----------------------------------|------------|-------------|
| Name | Company | Membership | Recruiter |
| Michael Baker | Saint John Water | AWWA | |
| Jackie Lavallee | Killam Properties | AWWA | |
| Wesley Maffett | | AWWA | |
| Kevin McDermott | | WEF | |
| Terry Reardon | Atlantic Purification Systems | AWWA | |
| Kyle Slaunwhite | Town of Pictou | AWWA/WEF | |
| Brennan Thorne | | AWWA | |
| Tracy Turner | Gagetown Municipal Water District | AWWA | |
| Mitchell Wallace | GENIVAR Inc. | AWWA | John Eisnor |
| Melissa Walls | | AWWA | |
| Meghan Woszczyński | GENIVAR Inc. | AWWA | John Eisnor |

CWWA Director's Report

New Leadership for CWWA by Roland P. Richard, P. Eng., FEC

CWWA WELCOMES NEW EXECUTIVE DIRECTOR

The Board of Directors of CWWA has recently announced that Robert Haller has been selected as the new CWWA executive director, effective May 1.

Haller brings more than 20 years of organizational leadership to the executive director role, with increasingly responsible roles in small and mid-size Ontario communities. He has worked with the city of Ottawa, the township of Goulbourn, the town of Prescott and the TayValley township, working up to chief administrative officer in the last two assignments. Immediately before joining CWWA, Haller was working as a municipal consultant in the area of community development, business planning and leadership.

Haller has been passionate about the water and wastewater industry for many years and completed his masters in public administration with a focus on municipal water issues. He reports that he "is very proud to accept this leadership position as executive director for CWWA" and looks forward to working with CWWA members to face the challenges ahead.

A very special note of thanks from the board goes to Duncan Ellison, who stepped back in as executive director since January 25 on an interim basis. Duncan, once again, brought his passion and dedication to the association and to the water industry and provided an incredible bridging service. He will undoubtedly continue to be a great source of knowledge during the immediate phase-in of the new ED.

CWWA continues to monitor and be involved in the federal policy and regulatory fronts. Of note in the last few months:

FEDERAL POLICY AND LEGISLATIVE REGULATORY SUMMARY

The most significant news from the federal government is the much anticipated release of the federal budget "Canada's

Economic Action Plan – Jobs, Growth, Prosperity," which was released on March 29. The budget focuses on reducing the federal deficits and strengthening Canada's economy with an ultimate aim of balancing the federal books by 2015. The full impact of the extensive budget cuts on individual programs and services won't be known for some time, but...

- The National Round Table on the Environment and the Economy is being eliminated;
- The government will refocus the National Research Council on research that helps Canadian businesses develop innovative products and services;

- The government wants to make development in the resource sector easier, citing an overlapping and confusing regulatory environment as a cause for delays and a barrier for investment;
- There will be continued investment in First Nations drinking water and wastewater systems;
- There will be changes to national immigration policies, which will recruit workers in sectors experiencing labour shortfalls;
- A notice will be published in Canada Gazette I declaring triclosan, a common antibacterial agent added to various household products, toxic;

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Blue-Green Algae Research Project – Moncton Takes the Lead

by Heather Fraser, Natural Resource Program Coordinator, City of Moncton

Blue-green algae, also known as Cyanobacteria, can produce toxins that pose a health risk to humans, pets and wildlife. The most serious threat is through ingestion of contaminated water, with a less serious threat through skin contact. The history of the algal blooms in Moncton go back three years when the first incident occurred in the Irishtown Reservoir. At that time, Moncton took the lead in developing its own research program and water sampling protocol to identify the causes of the bloom. The engineering department provided regular weekly updates via the city website and local service announcements to the public on the status of the bloom and closed the reservoir to recreational activity as a precaution when the bloom became visible. The next step involved sending water samples away for verification of species, as was past practice for a water quality issue of this size and importance.

At the same time, the City of Moncton partnered with Dr. Alyre Chiasson, of the Biology Department at the Université de Moncton, for monitoring and future planning to help resolve this issue. Collectively, the goal is to restore the ecological integrity of the aquatic ecosystems in the affected areas—by providing a well-documented science/education approach to the problem as well as recommendations on prevention. Originally, in 2010, the McLaughlin Reservoir (the city's backup water supply) was added to the water-sampling protocol as a control site representing a healthy water body. Unfortunately, algal blooms have occurred there as well.

In the past three years of this project, sampling was conducted from early May to mid-October. Permanent geo-referenced stations were established in both reservoirs. More than 10 different water quality parameters were measured and analyzed, weekly or biweekly, to track changes that lead to a better understanding of the biological processes leading to the algae blooms. Assessment of the potential impacts of blooms to the fish and plankton communities was added, in addition to a search for nutrient causes across the land base. Meetings with adjoining landowners and discussion of the algae problem throughout the



Blue-green algae blooms are a yearly occurrence.

summer months are planned, and water-quality monitoring will continue weekly. The recycling of rich nutrients in the sediment is a known cause for the reoccurrence of algal blooms year after year in the Irishtown Reservoir. We will also continue to monitor seasonal water quality and species of Cyanobacteria as a basis for our public advisories and education efforts. We also remain open to any suggestions from DOE regarding control of the bloom and nutrient reduction within the sediments. We plan to carry out a detailed mapping of total phosphate concentrations in the tributaries during rainfall events this year, and will present these results to the adjacent landowners, while setting targeted reductions where elevated results are found. We believe direct involvement of the community in the solution is the best way to deal with correcting the problem.

Many other areas are experiencing the same problem as Moncton; we hope to have more answers to the problems posed by annual blue-green algae blooms.

ACWWA Photo Contest

ACWWA is introducing a water- and wastewater-themed photo contest. If you like to take photos, ACWWA wants you. The inaugural theme will be **Fire Hydrants**. Get out there and start taking some interesting photos of fire hydrants! The winning photo will be published in an upcoming edition of the newsletter.

Rules:

■ Submit a digital copy of your photo, along with your name,

where you work and a brief description of the photo to contact@acwwa.ca.

- Deadline for entries is September 30.
- Photographs should be at least 1.0 MB in size.
- Entrants grant ACWWA the right to use and publish their photographs online, in print or any other media, in connection with the ACWWA Photo Contest.

Nova Scotia Making Progress on 'Water for Life' Strategy

Nova Scotia is making progress in its efforts to ensure water is valued and protected.

A progress report released in March highlights achievements of the first year of Nova Scotia's water resource management strategy, called "Water for Life."

"Nova Scotians understand the importance of clean water to our health, our environment and our economy," said Environment Minister Sterling Belliveau. "Through our water resource management strategy, we're taking steps to ensure it is carefully managed and protected."

The Water for Life strategy outlined 29 actions to be completed over 10 years. The progress report groups the actions into three categories, focusing on understanding the quality and quantity of our water, protecting our water and engaging others in caring for our water resources.

The progress report highlights successes to date, including:

- the launch of the Nova Scotia Water Portal website

- enhancing water quality and quantity monitoring networks
- updating drinking water treatment standards
- developing the Nova Scotia Watershed Assessment Program, in partnership with Dalhousie University
- developing a water monitoring field kit and certification program at Saint Mary's University as part of the Community-Based Environmental Monitoring Network
- engaging youth in water stewardship activities around the province

Nova Scotia is home to more than 13,000 km of coastline, thousands of lakes, numerous river systems, wetlands and groundwater resources.

Developing a comprehensive water resources management strategy was a commitment of the Environmental Goals and Sustainable Prosperity Act.

For more information on the water strategy progress report or Water for Life, visit www.gov.ns.ca/nse/water.

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CWWA Director's Report

Continued from Page 5

■ The Canada Food Inspection Agency has launched an initiative to modernize the Fertilizer Act and Regulations.

No new relevant legislation has been introduced in the House of Commons or Senate in this quarter.

CWWA is also working on revitalizing our technical committees, and will be

focusing on member recruitment.

POLICY AND COMMITTEE WORK

Wastewater and Stormwater and Biosolids Committee. The Wastewater and Stormwater Committee is waiting for the final version of the Wastewater Systems Effluent Regulation to be published in Canada Gazette II. The publication was

expected in early 2012, and there is no indication of the reason for the delay or when to expect the publication.

Drinking Water Quality Committee. In response to several member and non-member enquires, the Drinking Water Committee is currently assisting CWWA in developing a position statement on the fluoridation of drinking water.

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SHAPING LIVES



National Water Efficiency Committee.

The NWEC has updated its goals and objectives for the coming year. It has identified several projects on which it will work collaboratively to complete. CWWA has signed an agreement to become a WaterSense promotional partner and share WaterSense news with membership and the public.

Energy Committee. The Energy Committee is committed to continuing the dialogue on energy use and savings in the water and wastewater sector. The intention is to continue to hold small focused workshops, either in conjunction with other CWWA events, or through a webinar platform. The committee will meet to determine potential topics for future workshops.

INTERNATIONAL WORK

CWWA continues to share international business opportunities with our private sector members, and to promote participation in international events and trade-shows. CWWA is also participating in the development of international standards by the International Standards Organization.

UPCOMING EVENTS

CWWA has a full year of informational and networking opportunities in 2012:

- 15th Canadian National Conference and 6th Policy Forum on Drinking Water, Kelowna, British Columbia, Oct. 22-24.
- 2012 Window on Ottawa – date and location to be determined.
- 5th Canadian Wastewater Management Conference – CWWA is in discussions with the Canadian Association for Water Quality to co-host the Waste water Management Conference with the CAWQ Central Canadian Symposium on Water Quality Research. This event is scheduled for late February or early March 2013 in Toronto.

Should any other information be required on CWWA activities or initiatives please contact me at rrichard@gmsc.nb.ca, or visit the CWWA website at www.cwwa.ca.

GENIVAR prides itself on the fact that its Water and Wastewater Engineering Services are managed by people living in the communities that benefit from their work. Our end users are always top of mind, because they include our own families.

We offer a full range of **Water and Wastewater services**, including:

- Water System Modeling
- Water Distribution System Design
- Wastewater Collection System Design
- I/I Reduction Studies
- Trunk Sewer Design

NS Halifax | Dartmouth
NB Moncton | Saint John | Fredericton
PE Summerside | Charlottetown
NL St. John's

WWW.GENIVAR.COM

 **GENIVAR**

Shown here is Isla, step-daughter of Jamal, one of our valued employees in Atlantic Canada



WATER WORKS!

ACWWA 2012



**CHARLOTTETOWN
PRINCE EDWARD ISLAND**

OCTOBER 14-16, 2012

Online Registration www.acwwa.ca

Register now to win an iPad!

WELCOME FROM THE ACWWA CHAIR



On behalf of the Board of the Atlantic Canada Water and Wastewater Association, I invite you to attend our 65th Annual Conference to be held in Charlottetown, Prince Edward Island, October 14-16 at the Delta Prince Edward Hotel.

This year's theme, Water Works!, is significant as industry professional gather from across Atlantic Canada to focus on the important water and wastewater issues within our communities. The conference committee has met the challenge of making this gathering reflective of ACWWA being both an AWWA Section and a WEF member Association. It promises to be one of the prime benefits of membership in ACWWA.

The conference committee has included in the program all the technical and social events you have come to count on such as parallel tracks of peer presented technical papers, an industry trade show, Top Ops, ABEA Social night, a lobster feast and lots more. In addition, the Tuesday morning breakfast is a unique event to recognize the best of our members and their projects at our annual awards breakfast.

This is sure to be the best industry event of the year. Please book the conference and your hotel early and I look forward to seeing you there in October.

Jamie Hannam, P. Eng.
Chairman, ACWWA

COME JOIN US IN PEI!



On behalf of the 2012 Conference Committee, it is my pleasure to extend an invitation and welcome to everyone planning to attend and participate at the 65th Annual Conference of the Atlantic Canada Water and Wastewater Association to be held in Charlottetown, Prince Edward Island, October 14 to 16, 2012.

In Atlantic Canada “WATER WORKS!” to create the opportunity for industry, commerce, a place to raise our families and a welcoming environment.

This year’s Technical Program is shaping up to be an excellent source of information and learning and includes a comprehensive series of presentations to demonstrate how “WATER WORKS!” that will range from the supply and distribution of water through to collection and treatment of wastewater.

Of particular interest will be our keynote speaker who will provide an interesting perspective that is sure to keep everyone captivated and entertained as well as the return of the Top Ops competition for water and wastewater.

This year’s trade show will provide attendees an opportunity to network with colleagues and learn from the many industry technical, product and service providers that we rely upon so our “WATER WORKS!”.

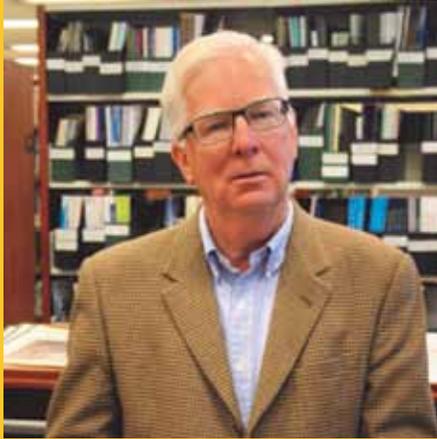
The 2012 Conference Committee, welcome you to this year's conference and look forward to your visit.

Craig Walker

2012 ACWWA Conference Chair

KEYNOTE SPEAKER

CLIMATOLOGIST DAVID PHILLIPS



Men are five times more likely to get struck by lightning than women. The average sneeze is about the same force as a category two hurricane. These are just a few of many cool weather facts that Senior Climatologist of Environment Canada, David Phillips can tell you. Also known as Canada's 'weather guru' (or 'weather weenie' as he calls himself), David's enthusiasm for the weather inspires him to help people understand how it all works. He says, "I'm there to talk to people about the weather...Canadians talk about the weather more than any other subject, so I try to spice up that conversation!"

David has been employed with Environment Canada's weather service for over 40 years. His work activities relate to the study of the climate of Canada and to promote awareness and understanding of weather and climate in Canada. He uses his knowledge to educate the public about climate and weather explaining, "through entertainment I inform people to make them aware about hazards and prepare them to face the elements."

David has published several books, papers and reports on the climate of Canada, including several essays in The Canadian Encyclopaedia, a book on The Climates of Canada, and two bestsellers: The Day Niagara Falls Ran Dry and Blame It On The Weather. He is the originator and author of the Canadian Weather Trivia Calendar, the most popular calendar sold in Canada, and now in its 25th year. For nearly ten years he wrote the Weather-wise column in the Canadian Geographic magazine. David frequently appears on national radio and television as a commentator on weather and climate matters. David is a fellow of both the Royal Canadian Geographical Society and the Canadian Meteorological and Oceanographic Society. He has been awarded the Patterson Medal for Distinguished Service to Meteorology in Canada, and has twice received the Public Service Merit Award. David is the recipient of two honorary doctorates from the University of Waterloo and Nipissing University. In 2001, David was named to the Order of Canada.



CONFERENCE HIGHLIGHTS

Sunday, October 14

10:00 am Golf at Fox Meadow Golf and Country Club
1:00 pm Points East Coastal Drive
5:00 pm Young Professionals Mixer (Merchantman Pub)
7:30 pm Meet and Greet Reception

Monday, October 15

7:00 am Water for People Run/Walk
8:30 am Conference Opening and Keynote Speaker
12:00 pm Annual General Meeting Luncheon
3:00 pm Top Ops Competition
7:00 pm ACWWA Reception and Banquet
10:00 pm ABEA Reception and Banquet (Olde Dublin Pub/Claddagh Oyster House)

Tuesday, October 16

7:00 am Awards Breakfast
8:00 am Award Presentations
12:00 pm Tradeshow
4:00 pm Water for People "Fun Time"
6:30 pm Reception and Down East Feast

Post your jobs...

...where water professionals are looking!

- Single Job Posts
- Multi-Post Packages
- Featured Job Posts
- Banner Advertising Opportunities

Questions?

Contact Sara Wrenn at 303.347.6235 or swrenn@awwa.org for details

www.awwa.org/CareerCenter



Think water jobs. Think AWWA.

TECHNICAL SESSIONS

| Monday, Oct 15 | 10:15 - 10:45 | 10:45 - 11:15 | 11:15 - 11:45 |
|--------------------------|--|--|---|
| Technical Session: A1 | Understanding Lead Issues in Distribution Systems Graham Gagnon, Dalhousie University | Evaluation & Mitigation of disinfection by-products formed in distribution system reservoirs and chlorine booster stations Krista Montreuil, Halifax Water | The tale of two water treatment plants Eric Bell - EXP Services Inc. |
| Technical Session: A2 | Impact of Two steps enhanced removal of primary solids on effluent quality Greg Claffey, M2 Renewables | Eastern wastewater treatment facility-outfall case study: Marine construction in Saint John Harbour John Flewelling, CBCL Limited | Options for floatable control from CSO's & SSO's Marcia Sherony, Hydro International Wastewater |
| Technical Session: A3 | Does high rate mean lower cost? Case studies in high rate vs. conventional DAF Simon Breese, AECOM | Enhanced distribution system water quality control using 2nd generation ATP Monitoring Dave Tracey, LuminUltra Technologies Ltd. | The reduction of lead in drinking water act and lead-free alternatives Bridget Berardinelli, Sensus |

| Monday, Oct 15 | 1:45-2:15 | 2:15-2:45 |
|--------------------------|--|---|
| Technical Session: B1 | Trenchless Condition Assessment Technologies for Water & Wastewater Systems: A tool in sustainability and water conservation Pierre Salvo, Genivar | Nova Scotia's Drinking Water Treatment Standards Judy MacDonald, Nova Scotia Environment |
| Technical Session: B2 | Design of the Amherst wastewater treatment facility Scott Kyle, Dillon Consulting | Lagoon and effluent toxicity Martin Hildebrand, Nelson Environmental |
| Technical Session: B3 | Water works sustainability: Reduce water loss and operating costs, increase revenue - too good to be true? Kingsley Blease, G & M Project Management | Building water conservation awareness in Charlottetown, PEI Ramona Doyle, City of Charlottetown |

TECHNICAL SESSIONS

| Tuesday, Oct 16 | 9:00 - 9:30 | 9:30 - 10:00 | 10:00 - 10:30 |
|------------------------------|---|--|--|
| Technical Session: C1 | New groundwater Terry Matheson, Municipality of the District of East Hants | MEH engineered springs Tom Austin, ABL Environmental | Pre-treatment to reduce membrane fouling Emily Zevenhuizen, Dalhousie University |
| Technical Session: C2 | A look at quality based selection procurement from both the purchaser and supplier perspective Allen Lucas, Utilities Kingston & Thomas Schaefer, Rockwell Automation | Northwest Arm Sewer Rehabilitation, Halifax Greg Rice, Halifax Water | Comprehensive wastewater needs assessment and integrated wastewater management Kelly Galloway, Engineering Technologies Canada |
| Technical Session: C3 | Envision™ and sustainable municipal infrastructure Bill Wallace, R.V. Anderson | Iron and Manganese problems John Civardi, Hatch Mott MacDonald | Making the most of your hydraulic model: integration of master planning Benny Wan, AECOM |

| Tuesday, Oct 16 | 10:45 - 11:15 | 11:15 - 11:45 | 11:45 - 12:15 |
|------------------------------|---|---|---|
| Technical Session: D1 | Design-build as an alternate delivery method for water and wastewater projects Brett Pugh, CBCL | A cost effective solution for a small water treatment system to meet current treatment standards John Eisnor, Halifax Water | How to perform condition assessment of an in-service distribution mains via fire hydrants and it's applications in Canada William (Bill) Jappy, Wachs |
| Technical Session: D2 | Halifax Water: Long term wastewater master planning and CCME James Jorgensen, AECOM & Alexander Wilson, CBCL | Evapotranspiration disposal of effluent from septage treatment facility John Lam, ABL & Roger Stein, Municipality of Lunenburg | Maintaining SCADA systems Patrick Cooke, Trihedral Engineering Limited |
| Technical Session: D3 | Industry status for condition assessment of metallic potable water pipelines Marty Allen, Water Research Foundation | Assessment of the viability of a natural urban wetland for use in stormwater treatment and management Janeen McGuigan, Dalhousie University | Overview of engineered biofiltration Amina Stoddart, Dalhousie University |

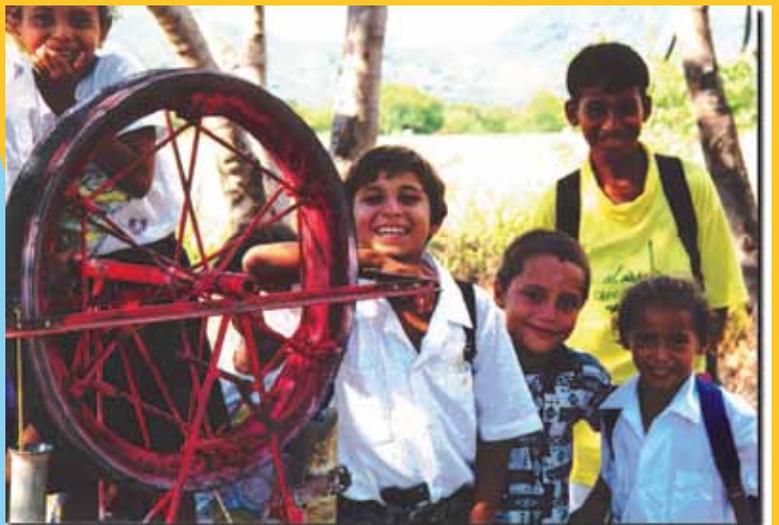
WATER FOR PEOPLE



Water For People–Canada
De L'eau Pour Tous–Canada

The 2011 ACWWA Annual Conference in St. John's was a tremendous success for Water For People. With over \$15,000 raised between our Signal Hill hike, 50/50 draw, industry and municipality donations, and other notable events, it was very encouraging. For the 2012 Annual Conference in Charlottetown we are hoping to build on the success of last year and ensure all conference participants have an opportunity to participate in Water For People fundraising activities. Past donations from the ABEA, individual companies, and municipalities have provided great recognition for programs such as the Moncton scrap metal recycling, or manhole replacement in the City of St. John's. This year we will again hold our silent auction with a wide variety of items available, the 50/50 ticket draw during the meet and greet, and the fun run/hike around beautiful Charlottetown. Keep an eye out for other unique Water For People fundraising events at the conference and let's work to keep the ACWWA as one of the top Water For People supporters among the entire AWWA membership.

If you're interested in becoming involved locally with Water For People, contact Mike Chaulk at mikec@cbcl.ca.



TRADE SHOW EXHIBITOR REGISTRATION

PART A - GENERAL INFORMATION

| | |
|----------------------------|----------------------|
| First Name _____ | Last Name _____ |
| Company _____ | 2nd Exhibitor _____ |
| Mailing Address _____ | Phone _____ |
| City/Province _____ | Fax _____ |
| Postal Code/Zip Code _____ | Email* _____ |
| | Membership No. _____ |

Sector Utility Supplier Contractor Consultant Student Academic Other

PART B - TRADE SHOW BOOTH & EXHIBITOR REGISTRATION

| | | | |
|--|-----------|---------------|-------|
| Exhibitor Fee - ABEA Member | One Booth | \$500.00 | _____ |
| Exhibitor Fee - Non-ABEA Member | One Booth | \$850.00 | _____ |
| Exhibitor Fee - Additional Exhibitor Passes (includes lunch) | | ____@ \$50.00 | _____ |

Each booth measures 8x10ft

Booth includes 2 exhibitor passes, 2 lunches, table, 2 chairs, 2 power outlets

Booth locations to be determined in September

Contact Global Convention Services (Steven at 902-368-8090 or Donna at 506-649-0044) to arrange equipment delivery

Contact the ABEA at ian@aps.ns.ca to learn more about becoming a ABEA member

For tradeshow questions contact Ian at ian@aps.ns.ca

| | | | |
|----------------------------------|-----------|----------|-------|
| Unmanned Booth – ABEA Member | One Booth | \$300.00 | _____ |
| Unmanned Booth – Non-ABEA Member | One Booth | \$600.00 | _____ |

Unmanned Booths are 6' tables with cloth cover and are available for the entire conference – they are NOT part of the Trade Show

MEALS & ACTIVITIES

| | | | | |
|--------|----------------------|-----------|----------------|-------|
| SUNDAY | Golf (includes cart) | Exhibitor | _____@ \$50.00 | _____ |
| 14-Oct | Meet & Greet | Exhibitor | Included | _____ |

| | | | | |
|--------|--|-----------|----------------|-------|
| MONDAY | Annual Banquet - Semi-Formal Attire | Exhibitor | _____@ \$65.00 | _____ |
| 15-Oct | ABEA Common Hospitality Reception (For ABEA Members, Conference Delegates & Companions) | Exhibitor | Included | _____ |

| | | | | |
|---------|---|----------------|----------------|-------------|
| TUESDAY | Water For People Fun Time ^{at} Tradeshow | Exhibitor | _____@ \$20.00 | _____ |
| 16-Oct | Down East Feast | Exhibitor | _____@ \$85.00 | _____ |
| | Down East Feast | Extra Tickets | _____@ \$85.00 | _____ |
| | Please indicate meal choice for Down East Feast | _____@ Lobster | _____@ Chicken | _____@ Beef |

Please describe any dietary restrictions or other special needs you may have _____

| | |
|--|-------|
| Subtotal: | _____ |
| 5% GST (869 924 910 RT2) | _____ |
| Water for People Run/Walk _____@ \$25.00 | _____ |

Entry to the Water for People Run/Walk includes a T-Shirt, please indicate your T-Shirt Size S__ M__ L__ XL__

Total Amount Due _____

**** For cancellation policy see note at end of Conference Registration**

PART C - PAYMENT OPTIONS

Choose payment method. Complete as appropriate.

Cheque Money Order Visa American Express Mastercard

Please make cheque or money order payable to "ACWWA 2012 Conference" Box 41002 Dartmouth, NS B2Y 4P7 Fax 902-435-7796

| | |
|------------------|--------------------|
| Card Holder Name | _____ |
| Card Number | _____ Expiry _____ |
| Signature | _____ |
| email address: | _____ |

*NOTE: WHEN PAYING WITH A CREDIT CARD AN EMAIL ADDRESS IS REQUIRED FOR A RECEIPT TO BE ISSUED

CONFERENCE REGISTRATION

PART 1 - GENERAL INFORMATION

| | | | |
|----------------------|-------|----------------|-------|
| First Name | _____ | Last Name | _____ |
| Company | _____ | Phone | _____ |
| Mailing Address | _____ | Fax | _____ |
| City/Province | _____ | Email* | _____ |
| Postal Code/Zip Code | _____ | Membership No. | _____ |
| Registered Companion | _____ | | |

Sector Utility Supplier Contractor Consultant Student Academic Other

PART 2 - DELEGATE & COMPANION REGISTRATION

| | | |
|--|-----------------------|-------|
| Registration Fee - Member | \$425.00 | _____ |
| Registration Fee - Non-Member | \$475.00 | _____ |
| Early bird registration August 13, 2012 | Chance to win an iPad | _____ |
| Registration Fee - Companion | \$200.00 | _____ |
| Registration Fee - Student includes lunch and trade show | \$50.00 | _____ |
| Registration Fee - Monday Member Day Pass (Only Lunch Included) | \$225.00 | _____ |
| Registration Fee - Monday Non-Member Day Pass (Only Lunch Included) | \$250.00 | _____ |
| Registration Fee - Tuesday Member Day Pass (Only Lunch and Tradeshow Included) | \$225.00 | _____ |
| Registration Fee - Tuesday Non-Member Day Pass (Only Lunch and Tradeshow included) | \$250.00 | _____ |
| Late Registration Fee (after September 10, 2012) | \$100.00 | _____ |

Part 3 - MEALS & ACTIVITIES

| SUNDAY 14-Oct | Please indicate Attendance by checking box | | |
|--|--|------------------------------------|------------------|
| <i>Golf (transportation not included)</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | ___ @ \$50 _____ |
| <i>Points East Drive</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | ___ @ \$20 _____ |
| <i>Young Professionals Mixer</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | Included |
| <i>Meet & Greet</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | Included |
| MONDAY 15-Oct | | | |
| <i>Annual General Meeting Luncheon</i> | <input type="checkbox"/> Delegate | | Included |
| <i>Companion's Luncheon (with Companion Program)</i> | | <input type="checkbox"/> Companion | Included |
| <i>Annual Banquet - Semi-Formal Attire</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | Included |
| <i>Annual Banquet - Semi-Formal Attire</i> | | Extra Tickets | ___ @ \$60 _____ |
| <i>ABEA Common Hospitality Reception</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | Included |
| <i>(For ABEA Members, Conference Delegates & Companions)</i> | | | |
| TUESDAY 16-Oct | | | |
| <i>Awards Breakfast</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | Included |
| <i>Trade Show Luncheon</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | Included |
| <i>Water for People "Fun Time" Fundraiser</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | ___ @ \$20 _____ |
| <i>Down East Feast</i> | <input type="checkbox"/> Delegate | <input type="checkbox"/> Companion | ___ @ \$45 _____ |
| <i>Down East Feast</i> | | Extra Tickets | ___ @ \$85 _____ |
| <i>Please indicate meal choice for Down East Feast</i> | ___ @ Lobster | ___ @ Chicken | ___ @ Beef |

Please describe any dietary restrictions or other special needs you may have _____

CONFERENCE REGISTRATION—CONTINUED

PART 4 - TOP OPS COMPETITION REGISTRATION

Top Ops Team Registration Water _____ Wastewater _____ Team @ \$50.00 _____

To register a team for Top-Ops please contact Trent Brewer at (506) 460-2179 or trent.brewer@fredericton.ca

Subtotal: _____

Life Members deduct \$100.00 _____

5% GST (**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__

Total Amount Due _____

**For cancellation policy see below

PART 5 - PAYMENT OPTIONS

Conference CEU. value is 1.5

Choose payment method. Complete as appropriate.

| | | | | |
|---|--------------------------------------|-------------------------------|---|-------------------------------------|
| <input type="checkbox"/> Cheque | <input type="checkbox"/> Money Order | <input type="checkbox"/> Visa | <input type="checkbox"/> American Express | <input type="checkbox"/> Mastercard |
| Please make cheque or money order payable to "ACWWA 2012 Conference" Box 41002 Dartmouth, NS B2Y 4P7 Fax 902-435-7796 | | Card Holder Name _____ | Card Number _____ | Expiry _____ |
| | | Signature _____ | _____ | |
| | | email address: _____ | _____ | |

*NOTE: WHEN PAYING WITH A CREDIT CARD AN EMAIL ADDRESS IS REQUIRED FOR A RECEIPT TO BE ISSUED

**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

TWO WAYS TO REGISTER:

Register online at <http://www.acwwa.ca>

(Register online before August 13, 2012, to be eligible for the early bird draw!)

Or mail your completed form and payment to:

2012 ACWWA Conference
c/o Clara Shea
ACWWA
Box 41002
Dartmouth, NS B2Y 4P7

OCTOBER 14-16 ACWWA 2012 REGISTRATION INFORMATION

All online registration forms must be received by August 13, 2012, to be eligible for the Early Bird Draw. All registrations complete online will be entered to win an iPad that will be drawn at the conference. Register online to ensure your name is in the draw!

Register early to save money! Registration must be received by September 10, 2012, to avoid a late registration charge of \$100.00.

Conference package, including name badges and conference materials may be picked up at the registration desk starting at 12:00 noon on Sunday, October 14, 2012.

TRADESHOW EXHIBITOR REGISTRATION

The deadline for booth space is September 13, 2012.

If registered as an exhibitor, you are limited to the functions as indicated on the tradeshow registration form. Should you or your companion wish to participate in all functions and to receive conference hotel rates, you must register as a delegate/companion on the conference registration form. Please note: Two representatives are included as part of the booth fee.

For unmanned booths, functions are not available unless registered as a Trade Show Exhibitor or as a delegate.

CONFERENCE HOTEL INFORMATION RESERVE YOUR CONFERENCE HOTEL ROOM TODAY!

Delta Prince Edward
18 Queen Street
Charlottetown, PE



Reservations:
1-866-894-1203

When booking by phone, please identify yourself as being with the conference and quote block code **RA0926**

Room rate: \$179 + taxes per night

WATER WORKS!

ACWWA 2012



CHARLOTTETOWN
PRINCE EDWARD ISLAND



SEE YOU IN CHARLOTTETOWN!