

MPWWA



**'We're Good & You Know It'**  
*Confidence in Facilities and Operations*

*Celebrating*  
**35**  
*years*



**Maritime Provinces**

**Water & Wastewater Association**

**35th Annual Training Seminar**

**(CEU Value: 1.5)**

**April 19th - 22nd, 2015**

**Delta Prince Edward Hotel & PEI Convention Centre**

**Charlottetown, Prince Edward Island**

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**Rob Hamilton**  
MPWWA Chair



## WELCOME FROM MPWWA CHAIRPERSON

As the Chair of the Association, I hope to welcome you in person this April to our 35<sup>th</sup> Annual Training Seminar in Charlottetown. Operators take pride in the work we do and the services we provide to our communities. We protect public health and the environment through the way we do our day-to-day work in a diligent manner. We're good at our job, we know it, and we have great confidence in our ongoing operations. So, what do we do in order to meet our own expectations? Well, we make sure that we are properly trained to operate facility equipment and processes to produce and deliver clean drinking water, and/or to collect and treat wastewater to meet regulatory requirements. We talk to other operators about issues and concerns to see if we can learn from their experiences. We also stay current with the ever-changing advancements in technology and new products, and in the regulatory environment we work in.

Our annual seminar reflects the needs of our industry and those of our members. The volunteers on our Board of Directors try their best to provide relevant training opportunities and this seminar is no exception. As a delegate, you will have lots of opportunity to talk to other knowledgeable operators, equipment and service providers and regulators about the things that are important to you. The seminar committee, chaired by Jerry Villard, have put together an impressive workshop agenda covering both drinking water and wastewater topics. These workshops provide valuable information to assist you and your co-workers in your day-to-day operations. You'll learn more about the up-to-date products and services available to our industry when you attend the Equipment Display and Trade Show, the premier event for our industry in Atlantic Canada!

Again this year, the Association supports a local charity, *'The Joyriders Therapeutic Riding Association.'* Their work with disabled children and adults is important and provides for a more joyous quality of life for those they serve. We hope you will participate and help make this year's auction another great success.

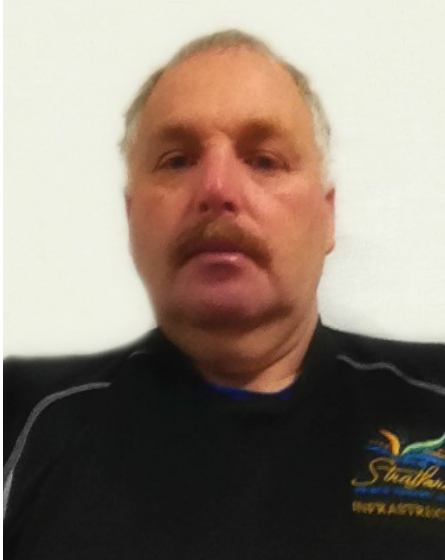
So, as you can see by the information in this brochure, this year's seminar will provide you with the networking and learning opportunities you need to continue to be great at what you do. See you in Charlottetown!

## MESSAGE FROM THE SEMINAR CHAIRPERSON

Our MPWWA 35th Annual Training Seminar in PEI is fast approaching. We have been working hard to organize a relevant and cost-effective event with something for everyone included. It is not a simple task to organize a relevant seminar for the benefit of our members - you the operator. However, our hard work pays off when the seminar finally arrives and proceeds. Plan to attend and take advantage of the workshops, presentations, equipment and supplier tradeshow and the networking opportunities you will have with other delegates.

Attending this event provides you with ideas and concepts to take back to your job and use information with new process operations, technology. This will potentially help you operate your systems in a more economical manner to the benefit of water and wastewater services in your community.

This year's theme "We're Good and You Know It": Confidence in Facilities and Operations, was chosen to help make sure we as operators have access to current industry practices, technology and training, can take pride in our work and continue to provide excellent services to the people and businesses we serve. Please take time to review what our seminar offers this year, review with your manager if required and then REGISTER EARLY. **See you in Charlottetown in April!**



**Jerry Villard**  
Seminar Chair

## COMPANION PROGRAM

### Sunday, April 19th:

7:00 - 9:00 PM: Registration  
7:00 - 10:00 PM: Meet and Greet

### Monday, April 20th:

7:30 - 9:00 AM: Registration  
8:30 - 9:00 AM: Official Opening  
9:00 AM - 5:00 PM: Annual Charity Silent Auction in Aid of 'The Joyriders Therapeutic Riding Association of PEI Inc.'  
10:00 AM: Meet in Lobby for "Pampering" and Shopping  
10:30 - 12:30 PM: "Pampering"  
12:30 - 1:45 PM: Lunch  
1:45 - 3:00 PM: Shopping  
3:00 PM Return to Hotel

### Tuesday, April 21st:

8:00 - 9:30 AM: Annual General Meeting and Breakfast  
9:00 AM - 5:00 PM: Annual Charity Silent Auction  
10:00 - 11:00 PM: In Hotel Event (TBD)  
12:00 - 1:30 PM: Lunch and Gift Exchange  
2:00 - 3:00 PM: Walk to Local Shops  
6:00 - 7:00 PM: Reception  
7:00 - 10:30 PM: Banquet and Entertainment

### Wednesday, April 22nd:

11:00 AM - 12:00 PM: Check-out  
12:00 - 1:30 PM: Stay-Till-The-End Luncheon

## SEMINAR AGENDA

### Sunday, April 19th

2:00 - 4:00 PM: Board of Directors Meeting  
7:00 - 9:00 PM: Delegate Registration  
7:00 - 10:00 PM: Meet & Greet

### Monday, April 20th

7:30 - 9:00 AM: Delegate Registration  
8:30 - 9:00 AM: Official Opening of the Seminar, *Mayor Clifford J. Lee*  
9:00 - 10:00 AM: Keynote Speaker, *Heather Moyses: "Believe in the Possibilities"*  
9:00 AM - 5:00 PM: Annual Charity Silent Auction in Aid of 'The Joyriders Therapeutic Riding Association of PEI Inc.'  
10:00 - 10:30 AM: Health Break  
10:30 AM - 12:00 PM: Panel Discussion - Canadian Water and Wastewater Operator Certification Best Practices, *Jurisdictional Representatives from the Provinces*  
12:00 - 1:00 PM: Lunch  
12:00 - 4:30 PM: Equipment and Supply Display (draws and prizes; must be present to win)

### Tuesday, April 21st

8:00 - 9:30 AM: Annual General Meeting and Breakfast  
9:00 AM - 5:00 PM: Annual Charity Silent Auction  
9:30 - 10:30 AM: Choose Workshop A, B, or C - *Information on workshop topics and locations is provided on pages 5 and 6*  
10:30 - 10:45 AM: Health Break  
10:45 - 11:45 AM: Choose Workshop D, E or F  
12:00 - 1:00 PM: Lunch on Your Own (Board of Director's Meeting/Election of Officers)  
1:00 - 4:30 PM: Facility Tours  
6:00 - 7:00 PM: Reception  
7:00 - 10:30 PM: Banquet and Entertainment - *Patrick Ledwell, Comedian*

### Wednesday, April 22nd

8:30 - 9:30 AM: Choose Workshop G, H, or I  
9:30 - 10:00 AM: Health Break  
10:00 - 11:00 AM: Choose Workshop J, K or L  
11:00 AM - 12:00 PM: Check Out Time  
12:00 - 1:30 PM: Stay-Till-The-End Luncheon, Closing Speaker, *Honourable Janice Sherry, PEI Minister of Environment, Labour and Justice and Attorney General*, Charity Auction Cheque Presentation

## HOW TO REGISTER FOR THE SEMINAR

You can use our **ONLINE REGISTRATION** and payment option at [www.mpwwa.ca](http://www.mpwwa.ca)  
(Click on '2015 Annual Seminar' near top right of page)

**OR** fax, email or mail completed registration form to: MPWWA, c/o Clara Shea, Executive Secretary, PO Box 28142, Dartmouth, NS B2W 6E2

Fax: (902) 434-8859

Email: [contact@mpwwa.ca](mailto:contact@mpwwa.ca)



**Heather Moyle**  
Two-Time  
Olympic Gold Medallist



**CANADIAN WATER AND  
WASTEWATER OPERATOR  
CERTIFICATION  
BEST PRACTICES**



## KEYNOTE SPEAKER

Describing two-time Olympic Gold Medallist Heather Moyle in one phrase is a difficult task, as she is so much to so many: multi-sport national athlete, inspirational speaker, ambassador, bionic woman, philanthropist, role model, and above all, Champion.

Heather lives by her personal motto, “Believe in the possibilities,” and inspires people all around the world with her life story and her life philosophies. From the small Prince Edward Island town of Summerside to the top of the Olympic podium, Heather Moyle, whom some have suggested is Canada’s best ever all-round female athlete, has accomplished the unlikely not once, not twice, but multiple times by believing in those very possibilities.

Giving back to her community and inspiring others is also an important part of Heather’s life. As she describes it, she may own the medals, but she won them for her country and wants to share them and her inspirational story with as many as she can. But beyond her many appearances and speaking engagements, Heather is involved in a number of fund-raising initiatives, has been a member-at-large for the Commonwealth Games Canada since 2002, an Athlete Ambassador for the charity Right to Play, has been named one of thirty-seven Athlete Role Models from around the world for the 2014 Youth Olympic Games, and is actively involved with Camp Triumph on PEI, a unique residential camp for children who have family members with chronic illness or disability. A proud Summerside native and Prince Edward Islander, Heather continually recognizes the extraordinary support that her hometown and home province gives her, and gives back as much as she can to the community that contributed so much to making her the person and athlete that she is today.

“Believe in the possibilities.” To some, it’s an inspirational quote, but for two-time Olympic Gold Medallist, Heather Moyle, it’s a way of life. Heather’s incredible record of excellence has caught the eye of many, and, as an exemplary role model in both sport and life, Heather is an inspiration to people of all ages, and stands as a symbol of what it is to be a true leader and champion.

## PANEL DISCUSSION: CANADIAN WATER AND WASTEWATER OPERATOR CERTIFICATION BEST PRACTICES

The Canadian Water and Wastewater Operator Certification Committee (CWWOCC) was established by the Canadian members of the Association of Boards of Certification (ABC) to develop Canadian operator certification best practices. Since 2009, an agreement is required for each province and territory to issue the same type and level of drinking water and wastewater certificate that has been issued in other provinces and territories provided that the certificate is in good standing. A document has been developed and published titled “CANADIAN WATER AND WASTEWATER OPERATOR CERTIFICATION BEST PRACTICES”, which is intended to be used by each jurisdiction to review their programs and where possible to align procedures and rules to achieve the intent of the best practices in the most practical manner available. Jurisdictional representatives from the provinces will provide detail on the history of development of these best practices and update delegates with specific jurisdictional information concerning individual provincial certification programs.



## EQUIPMENT AND SUPPLY SHOW

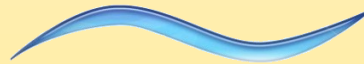
Monday April 20th, 2015  
12:00 - 4:30 PM

Plan to spend Monday afternoon touring the Equipment and Supply Show at our Annual Training Seminar. This show continues to be the premier equipment show in Atlantic Canada and, with the newly expanded conference facilities at the Delta Prince Edward, the MPWWA is pleased to be able to host our largest equipment show to date. It is a great opportunity for the equipment and supply providers to meet face-to-face with operators to discuss past and potential purchases or to discuss specific issues with equipment and/or technologies as they relate to facility operation. Every year brings with it some advancement in the technology available, as well as improvements to equipment and products that we use daily in our work. The Equipment and Supply Show is a fun and informal way for us to say “Let’s talk business!”

The Equipment and Supply Show is a critically important part of our Annual Training Seminar. The registration fees paid by the companies for the booth space help to significantly offset the enormous cost of hosting the seminar. This allows for affordable registration fees for our members. To thank the many companies who participate in the Equipment and Supply Show, please take some time to meet with as many as you can and show them your appreciation for their continued support.

As a special bonus this year, the MPWWA is pleased to have Heather Moyle, two-time Olympic Gold Medalist, in attendance at the equipment show. Heather will be available for approximately an hour for photos and autographs.

So, be sure to attend the Equipment and Supply Show, have some fun, and “Talk Business”. It is with the support and cooperation of all the suppliers that the MPWWA membership can live up to this year’s theme “We’re Good & You Know It: Confidence in Facilities and Operations”.



***“The equipment show brings a unique spin to the conference as it gives the operator a chance to meet suppliers face to face and allows them the opportunity to talk about what is new and what they have to offer. In the 20 years I have been going to the conferences, I have always seen something that has caught my eye. Suppliers always bring their best to the table in the equipment show and hats off to the organizing committees, over the years, for allowing us, the operators, the opportunity to meet and talk to these suppliers.”***

Frank Murphy  
Supervisor, Summerside Wastewater Treatment BNR System

## FACILITY TOURS

**IMPORTANT:** Safety boots are required for the Rustico facility tour. Delegates should have appropriate footwear for the other tours ("Spring in the Maritimes" footwear), as most of the tours are outdoors.

### Rustico SBR

#### Wastewater Treatment Facility

The plant consists of screening mechanical screw conveyor and headworks pump station. The flow is directed to the plant from a large liftstation located close to the former plant and flows by gravity into the headworks. The Pump station sends the wastewater to the SBR tanks, which consist of pre-react and main treatment tanks. The Sanitaire fine bubble diffusers are installed in the base of the SBR tank and a decanter is installed on the end of each tank. A sludge pump is installed in each tank for sludge wasting. The final step of the treatment process includes a post treatment equalization tank which allows discharge flow to be metered. In the basement of the WWTP building are two Wedeco UV disinfection systems and flow meter. The UV system is designed for fecal coliform and virus inactivation.

#### Stratford Wastewater Treatment Facility - Blue Frog System

The Blue Frog system was installed to eliminate odour, expand the lagoon capacity and work effectively to serve the town as it grows over the next five to 10 years. The system is a variety of floating units combined with floating curtains that form virtual tanks, or cells, that act together to create a system that is practically identical to a modern waste treatment plant. It is designed to work in cold winters with ice cover, requires no special training for staff and does not have a high demand for electricity.

#### Stratford Well Field Property

The town officially opened the well field in 2013 as part of the town's ongoing water and sewer servicing strategy. The project involved the installation of two new production wells in a location that would allow the town to purchase and regulate the surrounding property in order to provide a protected water supply to residents in Stratford.

#### CARI Complex - Energy Conservation Measures and D.E. Filtration

CARI Complex, located on the grounds of UPEI, houses an Aquatics Facility and the MacLauchlan Arena. The tour will show some of the changes that have been made to reclaim energy, especially heat, within the facilities. Their Diatomaceous Earth pool water filtration system will also be part of this tour.

## WORKSHOP TOPICS

Tuesday, April 21st

9:30 - 10:30 AM: Choose Workshop A, B, or C

**Workshop A: S.M.A.R.T. Flushing Technology.** The workshop will cover how the S.M.A.R.T. (System Management Assisted by Remote Telemetry) Flushing System advances water quality management, warns of potential breaches in safety and security in a line, identifies and addresses low disinfectant residual conditions, assists in the maintenance of a distribution line while enhancing a utility's compliance efforts through automated flushing and conserves natural and financial resources. Presenters: Jeff Jensen, Mueller Canada

**Workshop B: Blue Frog System: A New Spin on Lagoon Based Wastewater Treatment.** Many municipal wastewater operators are facing an increasingly challenging task of teasing more performance out of aging infrastructure like sewage lagoons. This presentation will look at how one community, Stratford, PE, has adopted an innovative new approach called the Blue Frog System in an effort to meet the wastewater treatment needs of their growing community and demonstrate how emerging technologies like the Blue Frog System can help to increase the level of treatment performance from existing infrastructure like sewage lagoons without adding all new infrastructure. Presenter: Josh Clark, Owner Terrapin Water

**Workshop C: Sampling Strategies to Ensure Data Quality: How You Sample can Affect Your Results.** Daily, analytical laboratory data is relied upon in making decisions regarding process control and regulatory compliance. It is commonly found that one of the most significant sources of variability in test results is the sample itself. This session will discuss sampling strategies to improve data reliability, to avoid contamination, use of correct preservatives and sample bottles as well as communication with the lab using the Chain of Custody form will be covered. Specific examples will be used to illustrate the points discussed. Presenter: James MacDonald, M.Sc., Technical Services Manager, AGAT Laboratories

10:45 - 11:45 AM: Choose Workshop D, E or F

**Workshop D: Metrology.** In line with this year's conference theme, 'Confidence in Facilities and Operations,' the presentation will cover the improvement of operational efficiency and environmental impact as it relates to water measurement – water meters. Eternal meter technologies, data collection and sample downloading and troubleshooting will be explored. The discussion of meter manufacturing will be discussed with regard to new regulations and how the industry has met these challenges. The presentation will incorporate the physical meters as well as a slide show. Presenter: Tom Cameron, President/CEO, Scotia Tech Fluid Services Ltd

**Workshop E: Charlottetown Wellfield Development.** This presentation will provide an overview of the City of Charlottetown's new groundwater water supply project currently underdevelopment. The presentation will provide an overview of exploration, wellhead development, permitting requirements, and present the proposed infrastructure needed to connect the water supply to the existing distribution system. Presenter: Richard MacEwen, P.Eng. Assistant Manager, Charlottetown Water and Sewer Utility

**Workshop F: Simple, Cost Effective Wastewater Treatment for Small Rural Communities.** This workshop will explain how the village of North Rustico, PE, took progressive and forward-looking steps to improve the handling of wastewater through the building of a state-of-the-art sewage treatment facility. It resulted in the village being awarded the Excellence

(WORKSHOP TOPICS continued on Page 6)

## WORKSHOP TOPICS, continued from Page 5

in Water Stewardship Award by the Council of the Federation for outstanding achievement, innovative practice and leadership in the area of water stewardship. Presenter: Andre Van Der Velden, P.Eng., Technical Sales Representative, Xylem Water Solutions

### Wednesday, April 22nd

8:30 - 9:30 AM: Choose Workshop G, H or I

**Workshop G:** *Water Conservation - "Stratford Water School: Saving Water One Drop at a Time."* This workshop will help to develop awareness of the relationship between the watershed and Utility regarding water use. Based on the Waters Cool program offered in partnership by the Town of Stratford and the Stratford Area Watershed group, this is guaranteed to be a fun and interactive workshop for all MPWWA participants. The presenters feel it's important to include 'where water comes from' and its relationship out 'in nature', in order to give the participants a better respect and understanding of why it's so important to conserve and protect our water resources. Presenters: Billy Ramsay, Utility Technician, Town of Stratford and Kelley Arnold, DET, BES, Watershed Coordinator, Stratford Area Watershed Improvement Group (SAWIG)

**Workshop H:** *Attacking Inflow and Infiltration - Lifespan Manhole Systems.* This presentation will discuss the physical, environmental and financial impact of inflow and infiltration for sanitary sewer systems and new approaches to reduce its entry through the top of manhole structures. Presenter: Daniel Léger, Business Development Manager of Sustainable Solutions, Hamilton Kent

**Workshop I:** *(Atelier Français) Entretien et Opération à la Pompe de Dosage.* La production d'eau potable municipal exige un dosage de produit chimique précis et fiable afin d'assurer la propreté et la sécurité d'eau potable. Les composants utilisés dans le système de dosage de produit chimique doivent être mesurer aux particularité du site et maintenu afin de procurer une addition de produits chimiques sécuritaire et fiable. Pendant cette démonstration pratique nous allons effectuer un rapport annuel (maintenance/inspection) sur la pompe de dosage ainsi que les accessoires auxiliaire qui font partie du système de dosage de l'hypochlorite de sodium. Présentateur: Marc Szuszkiewicz, Eng., Regional Manager, ProMinent for Quebec and Eastern Canada

10:00 - 11:00 AM: Choose Workshop J, K, or L

**Workshop J:** *Metering Pump Operation & Maintenance.* The municipal potable water production requires precise and reliable chemical metering to insure clean and safe drinking water. Components used in a chemical metering system must be sized to site specific conditions and maintained to provide safe and reliable chemical addition. During this hands-on demonstration we will perform an annual maintenance/inspection of a metering pump and ancillary accessories that are part of a sodium hypochlorite metering system. Presenter: Marc Szuszkiewicz, Eng., Regional Manager, ProMinent for Quebec and Eastern Canada

**Workshop K:** *BioCord Reactors.* Bishop Water Technologies developed and presents BioCord™ Reactor and Geotube® dewatering technology across Canada. These two technologies are changing how municipalities manage wastewater and bio-solids. BioCord™/Biofilm Technology is changing the way of wastewater treatment in Plants and Lagoons allowing them to operate with much increased operational efficiency and reduced costs to meet budget challenges while at the same time meeting new regulations. This presentation will include research analysis as well as engineering aspects of installation for attendee's reference so that a more comprehensive understanding of this technology is discussed for retrofit, upgrades or new purpose built plants. Presenter: Don Bishop, President & CTO, Bishop Water Technologies Inc.

**Workshop L:** *Hazards of Stray Electricity in the Water Distribution System.* A hazard that few of us think about until it's too late, is one we may encounter regularly during our work. The fact that for years electrical services were allowed to use water mains as a ground or bond! When we excavate a water main or lateral for repair, there is the danger of electrical shock because of this. This presentation will help to make you aware of the dangers, equipment to check for danger and means of neutralizing it. Presenter: Staff from PEI Electrical Inspector's Office



## MEET & GREET

This is a great opportunity, on Sunday evening, to share stories and experiences and perhaps even find or provide solutions to operational problems and issues. Delegates have the opportunity to renew friendships and discover new ones while nibbling on a fine selection of hors d'oeuvres and finger foods.

## ANNUAL GENERAL MEETING & BREAKFAST

Reports from the Board of Directors will be provided and nominations and elections held for Zone Representatives. This is a great opportunity to become more informed about the day-to-day operations of the Association. A delicious breakfast buffet is included and along with the meeting helps start our day in a healthy and professional way.

## BANQUET & ENTERTAINMENT

There will be a few business-related things to cover, including the **presentation of this year's Art Bell Award**. However, following a delicious meal and business, the rest of the evening is dedicated to entertainment by comedian, Partick Ledwell. Raised on PEI, and then returned to it, Patrick draws on his experiences growing up in a big Island family and the funny trials of staying true to his roots. His smart, quick-witted comedy has brought him national recognition with multiple appearances on CBC Radio's "The Debaters." He has also performed at the East Coast Music Awards, the Halifax and Moncton Comedy Festivals and hosted the Music PEI Awards Gala (2014). His comic monologues have been a regular CBC Radio feature, all across the country.

## CHARITY AUCTION

This year we are pleased and excited to be supporting *'The Joyriders'*, whose mission is the enhancement of the physical, emotional and social well-being of children and adults with disabilities through various therapeutic forms of riding horses. They have been bringing joy to the lives of others for more than 35 years. Please consider participating in our 6th Annual Charity Auction and help make it a huge success! Visit them online at [www.thejoyriders.ca](http://www.thejoyriders.ca)

## STAY-TILL-THE-END LUNCHEON

Our Stay-Till-The-End Luncheon is a great way to end our seminar. We get to hear from the province on issues, programs and initiatives related to water and wastewater that are of importance to us as operators. We will also be holding prize draws and make an official financial presentation to this year's Charity Auction recipient - *'The Joyriders'*. It's also our chance to say "So long, until the next time we meet." See you there!

## ACCOMODATIONS

### Delta Prince Edward Hotel Contact Information

Phone: 902-566-2222

Toll Free Room Reservations: 1-888-890-3222

Fax: 902-566-2282

Visit our website for further information: [www.mpwwa.ca](http://www.mpwwa.ca)



## The Joyriders

Therapeutic Riding Association of PEI  
Registered Charity / Founded 1979

