

MPWWA



'YOU ARE NOT ALONE'

Taking Advantage of Networking



**Maritime Provinces
Water & Wastewater Association
38th Annual Training Seminar
CEU Value: 1.5**

**April 22nd - 25th, 2018
Prince Edward Island Convention Centre
(Attached to Delta Prince Edward Hotel)
Charlottetown, PE**

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Jerry Villard
MPWWA & 2018 Seminar
Chairperson

"In my career as both an operator and as a government representative, networking with others involved in the water and wastewater industry has been and continues to be important to me and my work. I fondly look back on my early years and remember discussions with other operators who I turned to when I needed guidance at the small 1-person facility I ran. Back then I also turned to service providers and regulators to help me overcome operational issues or concerns I had and to get advice on the best ways for me to go forward in my job. My role now is to be a liaison and advise my provincial government of operator concerns brought forward to me on regulatory issues. The MPWWA training seminar is the best networking event for me and I look forward to attending every year to chat with other industry professionals because to me, that is proof positive that we are not alone."

~Alan Benninger

WELCOME FROM MPWWA CHAIRPERSON & 2018 SEMINAR CHAIRPERSON

Welcome to Charlottetown, the Prince Edward Island Convention Center and the Delta Prince Edward for the MPWWA's 38th Annual Training Seminar and Equipment Tradeshow. The 2018 theme is "YOU ARE NOT ALONE – Taking Advantage of Networking" and there will be no better opportunity this year to network with fellow operators from around the Maritimes than during this 4 day seminar. You have operators from the water and wastewater industry that have centuries of combined knowledge in virtually every aspect of the industry. We also have the largest Tradeshow to date with 94 booths covering virtually the full range of equipment, technology and materials available today.

There will be plenty of times from the Meet 'n' Greet on Sunday evening to the Stay-till-the-End luncheon on Wednesday to ask questions, discuss issues (operational, seasonal, technical, etc.), find out what has or is working for someone else and make contacts for the future. Shake hands, exchange business cards or listen in to the discussion when someone else poses a question. In this industry we currently don't have a recognized "apprenticeship" program to have the opportunity to follow senior operators around and learn from them, especially in the smaller communities.

Please try to attend as much of the Seminar schedule as possible. There has been much work into putting it together by numerous people over the past 4-5 months to bring together a variety of speakers and presenters. It starts with Jason Cyrus, you may remember him from Moncton in 2013 when he provided the entertainment at our banquet, if not ask Alan Benninger about him. This year he is our keynote speaker at the opening on Monday. We will follow this up with Peter MacIntyre who will continue with our networking theme by bringing a bit of history, into the present and on to the future. Then will come your opportunity to "network" with our suppliers at the Tradeshow for the afternoon. Of course our Annual Charity Auction in support of Brain Injury Association of PEI will be going on from 10am – 4:30 pm as well. Tuesday will begin with our AGM breakfast where we will bring members up to date on business that has been conducted by the executive on their behalf over the past 12 months, deal with any new business that requires a vote of the membership, hold elections for board members and let you know what we may have in front of us for 2018. Following the AGM we will have our first two sessions of Workshops to round out the morning. The afternoon will be filled up with tours followed by the ACWWA sponsored Top Ops, being held at the MPWWA Seminar for this first time! The Charity Auction will run from 9:30 am – 4:30 pm to give everyone plenty of opportunity to support this great cause and get some great deals! At our Banquet with entertainment by Eddy Quinn and Fiddlers' Sons, who will treat us to stories about some local "legends" and play a variety of music, we will hand out some awards to recognize members that have reached milestones during the past year. Wednesday will see the final two sessions of workshops followed by our Stay-till-the-End luncheon where we will hear from the PEI Minister of Community, Lands and Environment, present our cheque for the proceeds of our Charity Auction to representatives of BIAPEI and wind up the seminar.

Again enjoy yourself, ask questions, gather information, meet new people and just make the most of your time at the 38th Annual Seminar. Make suggestions and comments to the Board of directors so we know what you liked, didn't like, and ways we can improve for future Seminars.

YOU ARE NOT ALONE as a member of the MPWWA, never be afraid to make a phone call, send an email or text message to any of the Board members. If we can't help you we will forward it off to others who may have the answers!

~Jerry Villard

COMPANION PROGRAM

Sunday, April 22nd:

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

Monday, April 23rd:

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 'Brain Injury Association of Prince Edward Island'
9:00 AM: Meet in lobby for boarding bus
9:45 - 11:15 AM: Breakfast at Eden's Gate, Georgetown (Provided by MPWWA)
11:45 AM - 12:30 PM: Copper Bottom Brewing Company, Montague: Tour and tasting (No charge)
1:30 - 3:00 PM: COWS Dairy Tour
3:00 PM: Return to Hotel

Tuesday, April 24th:

8:00 - 9:30 AM: MPWWA Annual General Meeting and Breakfast
9:00 AM - 5:00 PM: Annual Charity Silent Auction
9:30 - 10:30 PM: Wood Painting Art Session, *Brown*
10:30 AM - 12:00 PM: Shopping Downtown Charlottetown
12:00 - 1:00 PM: Lunch on your own
1:15 - 4:00 PM: FACES Doing Professional Makeup for Banquet (no charge) and Gift Exchange, *Prime Minister's Suite*
6:00 - 7:00 PM: Reception
7:00 - 10:30 PM: Banquet and Entertainment

Wednesday, April 25th:

8:00 - 11:30 AM: Own Time
11:30 AM - 1:00 PM: Stay-till-the-End Luncheon

SEMINAR AGENDA

Sunday, April 22nd

2:00 - 4:00 PM: MPWWA Executive Meeting, *Robert Dickie Boardroom*
7:00 - 9:00 PM: Delegate Registration, *Delta Foyer*
7:00 - 10:00 PM: Meet and Greet, *Archibald, Campbell, Cartier*

Monday, April 23rd

7:30 - 9:00 AM: Delegate Registration, *Delta Foyer*
8:30 - 9:00 AM: Official Opening of the Seminar, Greetings by Mayor Lee, *Cartier, Langevin, Tilley*
9:00 AM - 5:00 PM: Annual Charity Silent Auction in aid of 'Brain Injury Association of Prince Edward Island,' *Tupper*
9:00 - 10:00 AM: Keynote Speaker, Jason Cyrus, "Achieve the Unthinkable," *Cartier, Langevin, Tilley*
10:00 - 10:30 AM: Health Break, *Harbourview Foyer*
10:30 AM - 12:00 PM: Discussion, Communication Networks - Past, Present and Future, Peter MacIntyre, Paladin Business Solutions, *Cartier, Langevin, Tilley*
12:00 - 4:30 PM: Equipment and Supply Display, *Coles, Gray, Palmer, Pope*
4:30 - 9:00 PM: Dinner on Your Own

Tuesday, April 24th

8:00 - 9:30 AM: MPWWA Annual General Meeting and Breakfast, *Palmer, Pope*
9:00 AM - 5:00 PM: Annual Charity Silent Auction, *Tupper*
9:30 - 10:30 AM: Choose Workshop A, B, or C - Information on workshop topics is provided on pages 5 and 6
10:30 - 10:45 AM: Coffee Break, *Harbourview Foyer*
10:55 - 11:55 AM: Choose Workshop D, E or F
12:00 - 1:00 PM: Lunch on Your Own, Executive Meeting/Election of Officers, *Prime Minister's Suite*
1:00 - 3:00 PM: Facility Tours
3:00 - 4:30 PM: ACWWA Top Ops, *TBD*
6:00 - 7:00 PM: Reception, *Delta Foyer*
7:00 - 10:30 PM: Banquet and Entertainment, Eddy Quinn & Fiddlers' Sons: Storytelling and Music, *Palmer, Pope*

Wednesday, April 25th

8:30 - 9:30 AM: Choose Workshop G, H, or I
9:30 - 10:00 AM: Health Break, *Harbourview Foyer*
10:00 - 11:00 AM: Choose Workshop J, K or L
11:00 AM - 11:30 PM: Check Out Time
11:30 - 1:00 PM: Stay-Till-The-End Luncheon, Closing Speaker, Hon. Richard Brown, PEI Minister of Communities, Land and Environment
Charity Auction Cheque Presentation, *Palmer, Pope*

HOW TO REGISTER FOR THE SEMINAR

You can use our ONLINE REGISTRATION and payment option at www.mpwwa.ca

OR fax, email or mail a 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



Jason Cyrus

*Speaker, Stage Hypnotist
and
Clinical Hypnotherapist*



Peter MacIntyre

Paladin Business Solutions

KEYNOTE SPEAKER

Achieve the Unthinkable

Can one keynote really improve your sales or performance? Absolutely! For the past decade, Jason Cyrus, a world class stage hypnotist, speaker and clinical hypnotherapist, has been teaching audiences how to get and stay motivated.

Personally or professionally, we all set goals. We all want to reach our goals to succeed in our lives. Whether it be meeting a monthly quota, losing 20 pounds, quitting a nasty habit or furthering our training and education, we all want to improve. We know the path, we know how to get there. We have the desire. We have the passion. We want to do it. What is standing in the way of reaching our goals? In this entertaining and engaging keynote, Jason shares personal experience and insight as he explains what's holding most people back from accomplishing their dreams - along with scientifically proven ways to overcome them. The truth is, there is a way to reach our goals, accomplish our dreams.

Some people think that getting what we want, getting what makes us happy is reserved for the highly talented and highly educated men and women. This is simply untrue. However, successful people are unique. What sets them apart from everyone else is their ability to practice visionary thinking. Those who can imagine happiness, success and a better world are free to shape the future. Those who cannot only wonder what it would be like. Find out why corporate companies, major universities, and non-profit groups alike are calling his presentation "life-changing!" If you can dream it, you can achieve it!

DISCUSSION

Communication Networks - Past, Present and Future

Peter MacIntyre is an experienced conference planner and organizer, author and grandfather along with 25 years as a computer programmer. In sync with the goals of the Maritime Provinces Water and Wastewater Association, Peter will address the seminar delegates on the 'value of communications networks.' The MPWWA understands the importance of operators communicating with other operators and the need to provide opportunities to be more engaged with others in our industry.

Peter will provide us with a short history of the ways in which society has formed so many methods of communication from early writing methods like cave drawing and hieroglyphs to using items like drums and smoke to send messages, Morse Code, the invention of the telephone and to more recent methods like radio and TV, email and internet platforms.

We all find our own ways to communicate with others on matters of importance to us. And, we are always changing our communication methods to suit the need or to keep up with new methods as they become more and more engrained in our daily lives. Let's face it, communication is key - there really is no choice. We need to understand how to adjust our methods of communication based on who we may be communicating with and what we're communicating about. At work, we want to stay informed of advancements or changes in our industry by coming to seminars, like this, to network with others.

Peter will open our minds to help us, as individuals and as members of MPWWA, better understand the importance of how to be more effective in our communication with co-workers and others in our lives. This is a talk you won't want to miss.



EQUIPMENT AND DISPLAY SHOW

**Monday April 23rd, 2018
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.

WHAT MEMBERS HAVE TO SAY

"The MPWWA Trade show is fantastic. It would take us weeks to see and visit as many key customers as we do during the show. As a supplier in the Water/Wastewater industry, this show is a MUST!"

~Kandy Mitton, CSP, KSB Pumps Inc.

"Attending the tradeshow is a great networking opportunity. Operators, contractors and suppliers can discuss products, methods and practices with all the industries key players."

~Michael Pigott, Water & Sewer Utility - Superintendent, City of Charlottetown

"It's nice to talk to other operators to exchange information on things like what equipment they are using and any challenges they might be having. I also really like seeing the new technologies that are out there at the Trade Show."

~Alex Buchanan, Class III Wastewater Treatment Operator, Operator in Direct Responsible Charge, CBRM Wastewater Operations

FACILITY TOURS

IMPORTANT: *Safety footwear is required for all facility tours.*



Charlottetown Pollution Control Plant (CPCP)

CPCP is a secondary activated sludge treatment plant that currently serves the majority of the City of Charlottetown, and is operated by Charlottetown Sewer & Water Utility (CS&WU). The plant includes screening, grit removal, primary clarifiers, secondary activated sludge bioreactors and clarifiers, and ultraviolet (UV) disinfection, followed by sludge processing including a biosolids pasteurization heat exchanger and anaerobic digesters, heated primarily with biogas. The plant was originally built in the early 1970's as a primary treatment plant with chlorine disinfection, and was then significantly upgraded in 2005–2006 to include secondary treatment and replace the chlorine disinfection with UV. The City of Charlottetown is planning to expand the CPCP in order to treat the wastewater from East Royalty and Stratford. There are a number of areas of the plant which need to be expanded and upgraded in order to process the increased flow and load, including the headworks, primary clarification, UV disinfection, and sludge handling. In addition, the City wishes to carry out some additional improvements to the facilities, and also wants to incorporate additional resource recovery.



Miltonvale Water Supply Project

The newly commissioned Miltonvale Water Supply Project has been designed to provide up to 80 l/s from a network of five wells. The well-field is situated on an 80 hectare parcel of land just north of the City. The supply project included 4 km of 500 mm transmission mains, two 5,000 m³ water storage reservoirs and a booster station. Two 100 kW solar PV installation are included in the project to demonstrate the use of renewable energy for water supply.

WORKSHOP TOPICS

Tuesday, April 24th

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

Workshop A: Pilot Monitoring for Pb in Drinking Water. The Federal-Provincial-Territorial Committee on Drinking Water (CDW) has recently proposed changes to the guideline for lead in drinking water. It is becoming evident that the CDW proposed guideline will be a significant technical and financial challenge for Canadian water suppliers. This presentation examines some of the latest information concerning lead occurrence from Canadian systems. It also presented survey data collected during a project supported by the Canadian Water Network that examines corrosion control and lead service line practices in Canada. *Presenter: Dr. Graham Gagnon. Location: Campbell, Cartier*

Workshop B: Design Benefits of Horizontal Dry-Pit Pump Stations. Horizontal Dry Pit Submersible Pump eliminates the following problems commonly seen in other pumps including: Couplings, guards, shafting, alignment and vibration leading to premature seal and bearing failure, seal water expense and maintenance of solenoid valves, strainers and flow meters. Bearing greasing and maintenance is eliminated. Flooding potential of pump room does not affect the operations of the submersible Pumps. *Presenter: Andre Velden. Location: Langevin, Tilley*

Workshop C: Cloud Services and the Internet of Things (IoT) – Basic Concepts and the Important Questions. It seems that everyone is talking about Smart Devices, the internet of things (IoT), and the Cloud. In this presentation, we break the marketing terms into what they actually mean and present simple ideas on how they work. From there, we discuss high level questions like who these products benefit, why they get so much press, and whether these devices are secure? This presentation is designed for the typical plant operator, manager, or anyone curious about Smart Devices. *Presenter: David Spencer. Location: Archibald*

10:55 - 11:55 AM: Choose Workshop D, E or F

Workshop D: Gate Valve Evolution and Standard. This workshop will help outline current valve standards for the most common valves found in the water distribution system. Discovery of third party organizations whom verify such material and performance specifications will be discussed. Manufacture and suppliers shall comply to these standards, however ask yourself; 'who's checking'? The answer will highlight this workshop. *Presenter: Jeff Jensen. Location: Campbell, Cartier*

Workshop E: Variable Speed Drives – Controlling Centrifugal Pumps, Saving Energy. What is a VFD and how can it save you money while increasing the performance of your system? Using variable speed control in Centrifugal pump application. *Presenter: Dave Galbraith, CSP. Location: Archibald*

Workshop F: Pompes d'eaux Usées avec Intelligence Intégrée. (Français). L'infrastructure vieillissante, l'urbanisation, la hausse des coûts énergétiques et le besoin de solutions durables font de la réduction des coûts et de la fiabilité une priorité dans le pompage des eaux usées. Les petites pompes à eaux usées peuvent être équipées d'un nouveau niveau de fonctionnalité et d'intelligence en intégrant des fonctionnalités logicielles avancées et du matériel de pointe dans une conception submersible conventionnelle. Cet atelier permettra au public de comprendre la technologie révolutionnaire disponible ainsi que les avantages substantiels et tangibles du pompage intégré intelligent des eaux usées grâce à des témoignages et des cas d'installation éprouvés. *Presenter: Luc Pepin. Location: Langevin, Tilley*

WORKSHOP TOPICS, continued from Page 5

Wednesday, April 25th

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

Workshop G: *Health Canada Changes for Lead, Manganese and Microcystin in Drinking Water.* This session will review Health Canada's proposed changes to the health-based maximum acceptable concentration of lead, the introduction of a health-based guideline for manganese and the changes in monitoring for cyanobacterial toxins. More specifically, this session will provide an overview of the key messages in the accompanying Health Canada technical documents including the rationale for the guideline change, exposure pathways and health impacts and recommended monitoring. *Presenter: Krysta Montreuil, NSE. Location: Langevin, Tilley*

Workshop H: *Workshop H: Preventing Water Infiltration – Without Digging.* Stopping infiltration using urethane grouts and CIPP Trenchless spot repair will: save money and time; train in house municipal crews or contractors; minimize equipment requirements; provide for the repair of laterals and mains in less than one day; be compatible with any type of pipe; and meets ASTM standards. *Presenter: Anthony Pizzi. Location: Campbell, Cartier*

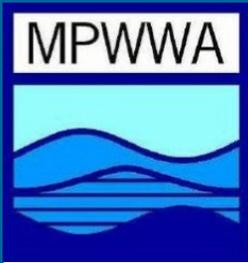
Workshop I: *Metrology – Measurement Methods Discussion.* The Canadian water metrology market has seen a great deal of advancement in recent years. Utilities now have the option to choose from many different technologies for billing measurements. This presentation will provide a high level discussion on the different metrology methods available on the market and some of the advantages and limitations of each. *Presenter: Ben Van Meirlo. Location: Archibald*

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

Workshop J: *Municipal Water Supplies for Public and Private Fire Protection - The 5 W's Regarding Water Flow Testing of Fire Hydrants.* The 5 W's Regarding Water Flow Testings of Fire Hydrants. This workshop provides a simple walk through regarding the steps involved in the process of setting up, conducting and processing the information for a host of different services i.e. Consultants, Fire Departments, Insurance Industry, Sprinkler System Designers and the different needs for the information and its value to a host of services. The 5 W's are of course Who, What, When, Where and Why. The presentation is made up of a combination of life experiences, photos and videos in a Power Point format, as well as Questions and Answers. *Presenter: Jim Maker. Location: Archibald*

Workshop K: *Achieving Nutrient Limits and Capacity Expansion with High Rate Treatment.* Ballasting mixed liquor can greatly increase the clarification capacity of an existing systems, thus creating a high-rate clarifier. The focus of this presentation is to present data on how these systems can increase flow 2-3X and loadings to a facility to meet high water quality without filtration or expansion. *Presenter: Jared Alder. Location: Campbell, Cartier*

Workshop L: *Contractor Safety and Auditing.* This session will explain an MPWWA member's internal employer/contractor audit process which supports their safety management system and will include: What approach did we take? What worked well? What challenges did we encounter? What key elements and key metrics were developed? The results and best practices will be discussed and shared with conference participants. Since safety management systems for contractors and employees are necessary for MPWWA members, this session will highlight an MPWWA member's continuous improvement process, beginning with the planning stages and including the follow up to ensure effective implementation. *Presenter: Paul Cormier. Location: Langevin, Tilley*



MEET AND 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.

CHARITY SILENT AUCTION

The Brain Injury Association of Prince Edward Island (BIAPEI) is a non-profit organization dedicated to promoting and contributing to an environment supportive to the brain injury community, and to awareness and prevention of brain injury in PEI. Its aims and objectives are to provide support, information, and advocacy for persons with brain injury, families and support systems; to promote awareness and education in the public and in public agencies of the causes and consequences of brain injury; to advocate for the continuum of brain injury services such as enhanced rehabilitation programs and treatment facilities and to carry on activities as a means of raising funds to promote the objectives of the coalition. Please consider participating in our 9th Annual Charity Auction and help make it huge success!

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 Eddy Quinn & Fiddlers' Sons featuring music and storytelling. The group's music highlighted Scottish and Irish roots of the Island along with more contemporary influences.

STAY-TILL-THE-END LUNCHEON

Our Stay-Till-The-End Luncheon is a great way to end our seminar and note the earlier start time this year - 11:30 A.M. 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 - 'Brain Injury Association of Prince Edward Island.' Its also our chance to say "So long, until the next time we meet." See you there!

ACCOMODATIONS

Delta Prince Edward Hotel

(Please ask for the Maritime Provinces Water & Wastewater Association rate: \$159.00 - \$179 single/double occupancy).

Address: 18 Queen Street, Charlottetown, PE

Phone: Hotel: 902-566-2222

Toll Free Room Reservations: 1-888-236-2427



Brain Injury Association
of Prince Edward Island