

MPWWA

# Building on the Best

'Operators Supporting Growth'



**Maritime Provinces Water & Wastewater Association  
39th Annual Training Seminar  
CEU Value 1.5**

**April 14<sup>th</sup> - 17<sup>th</sup>, 2019  
Delta Hotels Beausejour  
Moncton, New Brunswick**

## A NOTE FROM THE MPWWA CHAIRPERSON, JERRY VILLARD



**Building on the Best “Operators Supporting Growth”** is a great theme for the 39<sup>th</sup> Annual MPWWA Training Seminar at the Delta Beausejour in Moncton April 14-17. Growth is something all of us have seen over the years and with the introduction of WSER regulations an even more feverish pace is underway to get Wastewater Treatment facilities into compliance.

The **Best** we speak of are you the operators, the ones who are affected most by the growth of our systems, whether due to increased regulation, new technology or just replacement of aging infrastructure. We all know that growth is inevitable and necessary for our systems but is also good for us as well. It’s the old adage **“If you aren’t growing then you will die”!** Some of us adapt better to growth than others, but growth through knowledge is always a good thing.

Moncton will be an opportunity for exchange of ideas, whether at workshops, tradeshow or just by networking and chatting with others. Again this year we have put together a great variety of subjects, of which we feel there will be something for everyone! Your Conference Chair, Troy Atkinson, has done a great job organizing for 2019, especially as a first time conference chair. Take it from someone who has a few under his belt that these events don’t just happen, even though it may appear that way when you’re attending! Troy is not likely to start to relax until Monday morning when the Seminar officially opens! We won’t hang him out to swing in the wind on his own, many of the Board members also pick sections of the Seminar to look after to help ease the chairperson’s load a bit. It is a joint effort that culminates in an Annual Seminar that most enjoy when they attend, if you haven’t had the experience then Moncton would be a great place to start.

This year the Charity Auction will be in support of *The Boys and Girls Club of Moncton*. Andre and Bill are coordinating this, and promise there will be something of interest to everyone! We will be having our raffle draw at the Stay to End Luncheon on Wednesday so get you ticket at the auction room, only place available. Also the Stay ’til the End \$600 cash prize will be awarded, but you have to be there!!

Rick has stepped up to fill the boots of Delbert Reeves, who finally retired as Tradeshow Coordinator after threatening us for the past 5 years, to bring together a 77 booth tradeshow with a large variety of suppliers. Most of the “regulars” are back again this year, but we also will have some new ones.

Nicola is working to bring together the ACWWA Water operators Top Ops competition to find a team that will represent the Maritimes at AWWA’s ACE in June 2020 in Orlando, Florida. ACWWA has asked the MPWWA to host this event, since it is aimed at operators. They are also continuing with some financial assistance, \$1500, for travel to the winning team to attend the national championships. This year MPWWA is also hoping to entice you by offering 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place prizes to participating teams in Moncton. \$100, \$75, \$50 per team member is being put forward as a “bone” that may get you to compete. Teams don’t have to be from within a single Utility or municipality, so talk to other operators to see if you can get 2-3 to make a team. The format of this competition has changed in the last couple of years so it is fairer to all competitors. Any questions please contact Clara at [contact@mpwwa.ca](mailto:contact@mpwwa.ca) visit [mpwwa.ca](http://mpwwa.ca).

## A MESSAGE FROM THE SEMINAR CHAIRPERSON, TROY ATKINSON

Warm greetings and a pleasant welcome. As Conference Chair, I would like to welcome you to the MPWWA 39<sup>th</sup> Annual Training Seminar. This year's theme is Building on the Best – ‘Operators Supporting Growth’.

The water and waste water industry is one of the largest growing networks in the world, with technology changing every year. Billions of dollars are being spent to provide the best environmental care for our planet.

Operators in the Maritimes will receive tremendous value by attending this seminar. Not only do we access training to help us in our everyday work environment, we also receive continuing education units for operator certification.

Let's not forget that, on top of all the learning about new technology, we also get to have some fun. As a resident of Moncton, NB, I am very proud that this exciting seminar will be held here and hosted at the Delta Beausejour located in the heart of downtown Moncton. I encourage all delegates to participate in the events we have planned, have a wonderful time and enjoy your stay in Moncton.

## COMPANIONS PROGRAM

### Sunday, April 14<sup>th</sup>

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

### Monday, April 15<sup>th</sup>

7:30 - 9:00 am - Registration  
8:30 - 9:00 am - Official Opening  
9:00 am - 5:00 pm - Annual Charity Silent Auction  
9:00 am - Meet in the Lobby  
9:10 am - Paint Project  
11:15 am - Meet in Lobby  
11:30 am - Lunch at Pumphouse Pub  
1:00 - 3:00 pm - Magnetic Hill Winery Tour and Taste

### Tuesday, April 16<sup>th</sup>

8:00 - 9:30 am - Annual General Meeting and Breakfast  
9:00 am - 5:00 pm - Annual Charity Silent Auction  
9:30 am - Meet in Lobby  
10:00 am - 12:00 pm - Resurgo Pace Guided Tour  
12:00 - 1:00 pm - Lunch on Your Own  
1:00 - 4:00 pm - Gift Exchange (\$10-\$15 Gift Exchange Between Companions, Enjoy a Mani or Pedi and good company). Mani and Pedi are provided by Fingers Faces and Feet.  
6:00 - 7:00 pm - Reception  
7:00 - 10:30 pm - Banquet and Entertainment

### Wednesday, April 17<sup>th</sup>

11:30 am - 1:00 pm - Stay 'til the End Luncheon

## SEMINAR AGENDA

### Sunday, April 14<sup>th</sup>

2:00 - 4:00 pm - MPWWA Executive Meeting  
7:00 - 9:00 pm - Registration  
7:00 - 10:00 pm - Meet and Greet

### Monday, April 15<sup>th</sup>

7:30 - 9:00 am - Registration  
8:30 - 9:00 am - Official Opening, Greetings from Mayor Dawn Arnold  
9:00 am - 5:00 pm - Annual Charity Silent Auction in Support of 'The Boys and Girls Club of Moncton'  
9:00 - 10:00 am - Keynote Speaker - Robyn Tingley - 'Embracing the Younger Workforce: From Culture Clash to Competitive Advantage'  
10:00-10:30 am - Health Break  
10:30 am - 12:00 pm - Motivational Speaker Mark Black 'Helping You Thrive in Challenging Times'  
12:00 - 1:00 pm - Lunch  
12:00 - 4:30 pm - Equipment and Supply Show

### Tuesday, April 16<sup>th</sup>

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  
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, Executive Meeting/Election of Officers  
1:00 - 3:00 pm - Facility Tours, Moncton Water Treatment Facility with Tower Road Dam, TransAqua - The Greater Moncton Wastewater Facility  
3:00 - 4:30 pm - ACWWA/MPWWA Water Top Ops Competition  
6:00 - 7:00 pm - Reception  
7:00 - 10:30 pm - Banquet with Entertainment by Jimmy Flynn

### Wednesday, April 17<sup>th</sup>

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 - 11:30 am - Check Out Time  
11:30 am - 1:00 pm - Stay 'til the End Luncheon, Closing Speaker and

## HOW TO REGISTER FOR THE SEMINAR

Register and pay online at [mpwwa.ca](http://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](mailto:contact@mpwwa.ca)



**KEYNOTE SPEAKER**  
**ROBYN TINGLEY**

Robyn Tingley is the founder of GlassSKY Inc., a social enterprise focused on diversity and leadership. She trains audiences around the world and helps companies implement diversity initiatives, specializing in programs for women and Millennials, the two fastest-growing groups in the workforce. She is the vice-chair of the Board of Governors of the University of New Brunswick, and a founding member of Women for 50%, an initiative focused on greater female representation in politics. Her new book, 10 Essentials for the Motivated Millennial, and her career advice have received praise from global senior executives and are featured in Dow Jones, Oxford Business News, Fast Company, CBS, and Monster.com. Robyn was named to the Women Worth Watching list of top female executive trailblazers in Europe, the 20 Most Powerful & Influential Women in California, and by WXN as one of Canada's Top 100 Most Powerful Women.



**MOTIVATIONAL SPEAKER**  
**MARK BLACK**

Born with a life-threatening heart defect, Mark underwent two open-heart surgeries before the age of one. His parents were told to expect more surgeries before he started school. Mark was not expected to live a long life. He battled his condition and its limitations successfully for twenty-two years before having to face the biggest challenge of his life. Mark's doctor informed him that his heart was failing badly and that without a rare and dangerous heart and double-lung transplant, he would not likely see his 25th birthday. In October 2001, Mark moved thousands of kilometres from home and was put on the transplant waiting list. After just four months on the list, Mark's condition grew worse and he was placed in the hospital where he lived on the precipice of life and death, for 6 months.

Finally, by the grace of God, on September 7th, 2002, Mark received a second chance at life: a life-saving Heart & Double-Lung Transplant. Since receiving his second chance at life Mark hasn't wasted a moment. After meeting the love of his life, Marise, the two married, and they have 3 healthy children. Mark has travelled the globe speaking to more than 150,000 people.

Mark lives in Moncton, New Brunswick where he spends as much time as possible with the most important people in his life; his wife Marise and their three children Emma, Matteo, and Caleb.



## EQUIPMENT AND SUPPLY SHOW

Monday, April 15th, 12:00 - 4:30 PM

Everyone enjoys the Equipment and Supply Show at the MPWWA Annual Training Seminar. It is a great opportunity for equipment providers to meet with operators to discuss equipment performance and to showcase new technology. Every year brings with it advancements in technology, improvements to equipment and new products that we use daily in our work. The Equipment and Supply show is a fun and informal way to "Talk Business".

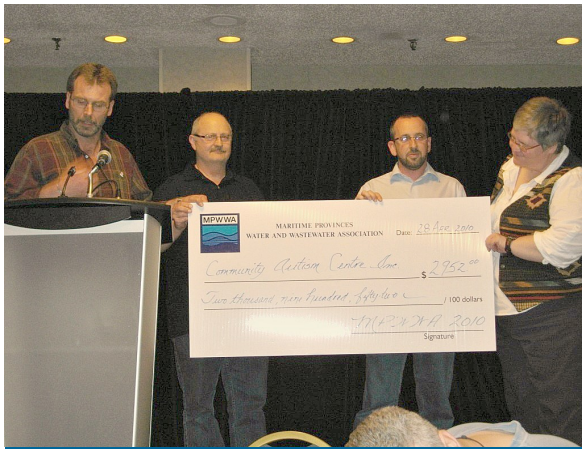
The Equipment and Supply Show is a critically important part of our Annual Training Seminar. The fees paid by suppliers for the booth space help to significantly offset the cost of hosting the seminar. This allows us to offer a reduced registration fee for our delegates. Please take some time to meet with the suppliers and show them our appreciation for their continued support.

So make sure to attend the Equipment and Supply Show, have some fun and enjoy a nice lunch. Spend some time talking to the suppliers and use the opportunity to think of ways you can build on the best and support growth in your community.

*"Another great MPWWA conference, lots of informative seminars and the trade show was better than ever. See you all in 2019!"*

*-Curtis Foran, City of Moncton*

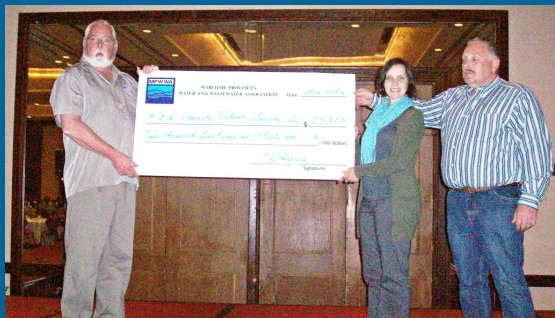




**Cheque presentation to  
Community Autism Centre Inc.  
Saint John, NB, 2010**



**Cheque presentation to  
Children's Trust Fund  
Halifax, NS, 2011**



**Cheque presentation to  
PEI Family Violence Prevention Services  
Charlottetown, PE, 2012**



**Boys and Girls Club of Moncton**  
**Repaire jeunesse de Moncton**

### CHARITY AUCTION

Members of the Maritimes Provinces Water & Wastewater Association (MPWWA) provide water and wastewater services to our communities every day to protect the public health and the environment. We strive to support our communities in any way we can and this year we are proud to hold our 10th Annual Charity Auction in support of *The Boys and Girls Club of Moncton*.

For over 60 years, the *Boys & Girls Club of Moncton* has carried on a tradition of helping young people to discover, develop and achieve their full potential as adults, citizens and leaders, by engaging them in activities that challenge and enrich their minds, bodies and spirits and nurture their self-esteem.

Their safe, caring club environment and enriching programs have enabled thousands of young people from the Greater Moncton area to play, learn and develop valuable skills for life.

*"The mission of the Boys and Girls Club of Moncton is to provide a safe, supportive place where children and youth can experience new opportunities, overcome barriers, build positive relationships and develop confidence and skills for life."*

On behalf of the Maritime Provinces Water & Wastewater Association, "Thank You" for your support of this very valuable community charity organization!

<https://www.bgcmoncton.com>



## FACILITY TOURS - 1 PM TUESDAY



### TransAqua - Greater Moncton Wastewater Commission Wastewater Treatment Facility

The TransAqua Vision is “To be an outstanding environmental steward supporting regional planning, economic development and quality of life for the communities of Dieppe, Moncton and Riverview.”



### Moncton Water Treatment Facility with Tower Road Dam

The state-of-the-art, class IV facility is capable of producing 25 million gallons of water per day. In 2014, the City of Moncton commissioned the development and construction of a second reservoir within the Protected Turtle Creek Watershed known as the Tower Road Dam Reservoir.

## WORKSHOPS

Tuesday, April 16th

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

**Workshop A:** *Municipal Chlorine Measurement and Control.* The municipal potable water production and waste water treatment requires precise and reliable chlorine measurement to insure clean and safe drinking water. During this presentation we will focus on available technologies to measure chlorine online and discuss control and metering strategies.

Presenter: Marc Szuszkiewicz, ProMinent Fluid Controls Ltd.

**Workshop B:** *Stormwater Management: Underground SS treatment unit using hydrodynamic separation and filtration.* Hydrodynamic separation is one of the proven solutions for the management of SS present in runoff waters. The basic concept, as well as the general operation of a SS processing unit, will be presented to allow the participants to identify the various parameters in the system. Presenter: Phillippe Losier, Soleno Inc.

**Workshop C:** *Ammonia Limits and Lagoons: Atlantic Canada's Options for Beating Effluent Limits.* With a focus on the lagoon-based wastewater treatment plant in Doaktown, New Brunswick, this presentation digs into the factors that limit lagoon-based nitrification, discusses the merits and challenges of mechanical plants, and introduces the SAGR post-lagoon nitrification option—which has been shown to consistently reduce ammonia to <1 mg/L in <1°C water. Presenter: Francis Bordeleau, Nexom

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

**Workshop D:** *Do Not Consume - Is Your Utility Prepared.* In August 2017, a small algae bloom suddenly appeared near the spillway of Tower Road Dam. What if the Tri-Community was issued a Do Not Consume order by the Department of Health? With no plan in place for such an event, a team of staff from Operations, Emergency Measures, Communications, GIS, Finance, IT and Health officials was put together to prepare a Do Not Consume Plan for the Tri-Community. Presenter: Julie Stokes, City of Moncton

**Workshop E:** *Bio-electrochemical sensor for wastewater quality monitoring at the Charlottetown Municipal wastewater treatment plant. Real-time insights on events and fluctuations in organic loading.* Bio-electrochemical systems (BES) are an emerging technology with many proposed applications in the wastewater treatment industry.

Presenter: Mike Deighan, Island Water Technologies

**Workshop F (French):** *Upgrading Obsolete Technology and its Impact on the Water and Waste Water Industry.* This session will explore questions including: How to properly approach the challenges involved with upgrading older facilities? What are the risks faced when retrofitting older equipment? What are the risks faced by not upgrading and keeping un-supported or obsolete hardware in the facility? Presenter: Andre Dupuis, Amiko Control Systems

## MPWWA BOARD OF DIRECTORS

The Board of Directors of the MPWWA is an elected administrative body. It includes four provincial Department of Environment representatives and one federal representative.

The provinces are divided into 12 zones, each having one representative. Each Atlantic province has one director at large and DND and First Nations are also represented.

**Zone 1:** Nicolas Legere (NB counties of Madawaska, Victoria, Restigouche & Gloucester)

**Zone 2:** Troy Atkinson, Seminar Coordinator (NB counties of Kent, Northumberland, Westmorland & Albert)

**Zone 3:** Jeff Rogers, Training Coordinator (NB counties of Kings, Saint John & Charlotte)

**Zone 4:** Rick Larlee, MPWWA Co-chair, Trade Show Coordinator., Webmaster (NB counties of Sunbury, York, Queens & Carleton)

**Zone 5:** Nancy Llewellyn-Rafuse (NS counties of Yarmouth, Shelburne, Queens & Lunenburg)

**Zone 6:** Bill Cannon (NS counties of Digby, Annapolis, Kings & Hants)

**Zone 7:** Kevin Kelloway (Halifax Regional Municipality)

**Zone 8:** Nicola Anderson, Secretary (Cape Breton)

**Zone 9:** Jerry Villard, Chairperson (The Province of Prince Edward Island)

**Zone 10:** Craig Gerrior, Treasurer (NS Counties of Cumberland, Colchester, Antigonish Guysborough and Pictou)

**Zone 11:** Richard Pierro (NB & PE Director-at-Large, First Nations)

**Zone 12:** Tim Henman (NS & NL Director-at-Large, DND)

Clara Shea: Executive Secretary

Rob Hamilton: Past Chair

Paul Klaamas, Environment Canada

Denis Chenard, New Brunswick

Deneen Spracklin, NL and Labrador

Krysta Montreuil, Nova Scotia

Ben Lanigan, Prince Edward Island

Andre Van der Velden, Commercial Rep

Melanie MacKinnon, Commercial Rep

## WORKSHOPS *cont...*

**Wednesday, April 17th**

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

**Workshop G:** *Wastewater Level Measurement with Primary Focus on Lift Stations, Wet Wells and Sumps.* Level measurement is an important aspect of monitoring and controlling today's wastewater systems, whether it be level reading and pump control in lift stations, wet wells, and sumps, or measurement of clarifiers, anaerobic digesters and chemical tanks. As regulations become more stringent we strive for ways to measure level accurately and safely in both the municipal and industrial sphere. Presenter: Matthew Clarke, Omnitech

**Workshop H:** *Stratford, PEI Water Meter Project.* In 2018 The Town of Stratford launched a project to install water meters to each customer in its water system. This session is ideal for those who would like to gain a better understanding of the factors that contributed to the success of Stratford's water metering program. Presenter: Ben Van Mierlo, Neptune Technology Group

**Workshop I:** *Water Loss Reduction Through Pressure Management.* Water loss, also known as non-revenue water (NRW), is a significant problem worldwide in potable water distribution systems. It is common knowledge that a good pressure management approach is one of many solutions to reducing water loss but it is typically the most economical approach with immediate results. Presenter: Jody Malo, Omnitech

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

**Workshop J:** *Male-specific coliphage (MSC) as a viral indicator of water quality and treatment efficacy.* MSC's can be used as a viral indicator for fecal contamination monitoring in water. In this presentation, work will be discussed wherein MSC's were used to monitor treatment efficacy in human wastewater treatment plants, as well as a surrogate to challenge and quantify the disinfection efficacy of wastewater treatment systems. Presenter: Dr. Benjamin Forward, Food Fisheries & Aquaculture Dept., New Brunswick Research & Productivity Council (RPC).

**Workshop K:** *How to properly select VFDs for Deep Well Submersible Pumps.* Selecting the best method to control a Deep Well Submersible Pump is often hard to determine based on the different available options and manufacturers. The industry trend is to install VFDs, however selection doesn't stop there, and variances in products and installations can make for a challenging selection. This session will help you understand the Do's and Don'ts when selecting a VFD to be used on a Deep Well Submersible Pump. Presenter: Dave Galbraith, Sansom Equipment Ltd.

**Workshop L:** *Upcoming Health Canada Water Quality Guideline Changes: Aluminum, Copper and Strontium.* This session will review Health Canada's rationale for proposing health-based maximum acceptable concentrations for aluminum, copper and strontium in drinking water. 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, Nova Scotia Environment





## BUSINESS AND PLEASURE

### MEET & GREET

Sunday evening, after registering for the conference, join other MPWWA delegates at the Meet & Greet where old friendships are renewed and new ones are made. Delegates have the opportunity to mingle and network while snacking on finger foods, and perhaps sipping on the variety of beverages available. Cheers!



### ANNUAL GENERAL MEETING & BREAKFAST

Business Matters! This is your association and the business of the MPWWA needs your participation. Although the Board of Directors deals with much of the day-to-day operations, there are other items that need to be discussed and approved by the General Membership, for example we need to hold elections and address any items brought forward for discussion and reports are also provided to the delegates to keep members informed. A delicious breakfast is included and along with the meeting, helps start the day off right.



### BANQUET & ENTERTAINMENT

Just prior to the official start of the banquet, a reception will be held starting at 6:00 PM where friends gather and chat over a drink or two. Then at 7:00 PM, we sit down to some more great food served at the banquet. Throughout the course of the reception and banquet, tickets on a 50/50 draw will be sold with the winning ticket drawn later in the evening. The Art Bell Award will be given out at the banquet in recognition of an individual's dedication toward the aims and goals of operators through the Association. Service pins will also be presented. Once dining and business has been attended to, it will be time to be entertained. Enjoy entertainment by 'The Funny Fisherman', Jimmy Flynn, "You'll never laugh this hard again"!

### STAY 'TIL THE END LUNCHEON

Well, we've mingled with old and new friends, talked shop, perhaps been on a facility tour, and we've seen some great workshops that will help us in our day-to-day work. The Stay 'til the End Luncheon starts at 11:30 am and is a great way to end the Annual Training Seminar, as it is the final event before we say our 'good byes' and leave to head back home. Again, we eat and deal with any business that is left to attend to. We are pleased to have the Hon. Jeff Carr, NB Minister of Environment and Local Government, as the luncheon speaker this year. Its always good to hear how our work is appreciated by the province in which the seminar is held. We will be making a cheque presentation at the luncheon to *The Boys and Girls Club of Moncton*, with 100% of the proceeds raised through the Charity Auction. There will also be the \$600 stay 'til the end draw to be one by a lucky delegate in attendance, so try not to miss this. It's a great way to end the training seminar and we sure hope you can make it.





## ACCOMODATIONS

### Delta Hotels Beausejour

- Clean, modern rooms
- Complimentary Hi-Speed Wi-Fi
- 3 restaurants
- 24 hr fitness centre

\$159.00 - \$179.00 single/double occupancy

Online hotel booking: Click hotel link on [mpwwa.ca](http://mpwwa.ca)

Or call toll free: 844-496-8551, mention Delta Beausejour and the code MPW

### Hotel Address

750 Main Street, Moncton

