

ON THE HORIZON

DEC. 7-9, 2021

VIRTUAL ACWWA ANNUAL CONFERENCE
ST. JOHN'S, NEWFOUNDLAND AND LABRADOR

 **Water Environment Federation**
the water quality people®



ATLANTIC CANADA
WATER & WASTEWATER ASSOCIATION

 American Water Works Association
Atlantic Canada Section

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JASON PHILLIPS, P.ENG.

We are looking forward to the annual ACWWA conference. This is a great opportunity to learn from our colleagues on current water and wastewater industry topics. This year's conference theme is "On the Horizon," which we believe reflects everyone's thoughts as we return to "normal" life, albeit changed slightly due to the COVID pandemic. We look ahead to the new challenges and opportunities that wait for us, "On the Horizon."

While we are disappointed that we cannot get together in person this year for our networking event, we will be hosting another virtual conference building upon the success of our inaugural event from last year. This year's conference will include technical sessions, including a YP section to highlight the accomplishments of young professionals within our industry. The ABEA tradeshow will continue, providing an opportunity for our local vendors to spotlight new products and advancements in their products and services. New to this year's event, we will be offering virtual technical tours of the Windsor Lake water treatment plant and the Riverhead wastewater treatment plant. We will also be hosting a virtual "meet and greet" session where we will be able to connect with old acquaintances and meet new colleagues.

We hope that you can all join us online to enjoy our virtual conference.



CATHY CAMERON

Welcome to our annual ACWWA conference. 2021 will be presented virtually, for the second year, to maintain everyone's health and safety, as we work our way through the fourth wave of COVID. But, as usual, we have prepared a premiere collection of technical sessions, vendor highlights, entertainment and socially engaging experiences.

The past 18 months have proven to be challenging both physically and mentally. We have all become well aware of what PPE means when it comes to protecting yourself and your coworkers from a pandemic. We continue to follow strict health measures but look forward to seeing everyone's smiles in person, in 2022, in Saint John, NB – fingers crossed!

The 2021 program takes place December 7-9, and we will all use our imaginations and pretend we are in St. John's NL, with Jason Phillips and his Conference Committee. As the theme states, we are preparing for what is "On the Horizon", and as we have learned in the recent past, it is ever-changing. Not only have we learned to deal with a pandemic, but climate change and its effects on our daily lives, the requirements of our utilities and communities as a whole. Being flexible is key and having the proper tools in your tool kit to make the shifts more manageable.

I would like to thank Wendy Krkosek and her team for their efforts in preparing our technical sessions and providing a well-rounded program. To offer some of the tools we will need for our tool kits.

We also look forward to the messages being brought to us from our AWWA, WEF and CWWA dignitaries. They will, no doubt, have more national and international perspectives on the current challenges being faced by our utilities and their staff.

The vendor highlights will bring us new technologies in the industry - so stay tuned to see what may make improvements to your daily work lives, or solve a problem.

We would also like to thank the ABEA for their continued support of the ACWWA and its endeavours. This year they will be the host sponsor of the Monday mid-morning break/entertainment.

We would like to thank all of our sponsors, without whose support this would not be possible.

It goes without saying, but we would like to acknowledge the continued tireless efforts of our Executive Director, Clara Shea.

I look forward to greeting our water and wastewater professionals as we gather for our annual conference and once again provide a platform to share.

Stay healthy and safe.



ANGELA J. BALLARD-LANDERS

Angela J. Ballard-Landers is an AWWA Vice-President and STEAM Specialist for WSSC Water. She creates and coordinates educational outreach programs to engage students in grades 3-12 about water, wastewater, the Chesapeake Bay, the environment, and careers in the industry.

Angela also has more than 30 years of experience in customer service training, ten years in emergency preparedness/incident command, and is a certified ALICE active shooter trainer. In addition, she is very active in her community, serving as a Howard County chief election judge and crisis intervention telephone counselor.

Angela attended Howard University and the University of Maryland Global Campus. She and her husband, Clarence, are the proud parents of three adult children, Clarence Jr., Cordney, and Cheridan.



HOWARD CARTER

Howard Carter is a member of the 2020-21 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

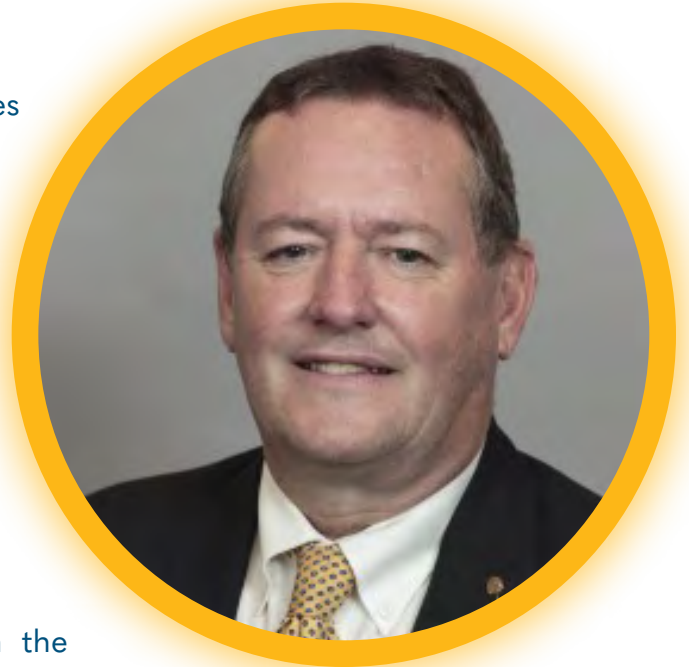
Howard is the director of the Water Resource Recovery Department for the City of Saco, Maine. He is responsible the daily operations and maintenance, funding, staffing, billing, licensing and construction and of the city's Resource Recovery Facility and 32 pumping stations. He also oversees the implementation of Combined Sewer Overflow Master Plan and any separation or construction projects associated with that.

A WEF member since 1998, Howard spent five years in the House of Delegates as a representative of the New England Water Environment Association (NEWEA) and his last year as the speaker of the House. During that time, he has chaired the House Nominating Committee, served on the House Steering Committee, the CLC Steering Committee, along with the WEFMAX, Outreach and Budget committees, and has been a member of most work groups. Additionally he was a founding member of the New England Operations Challenge team "Pump Fiction" that went on to compete nationally in both Division 1 and 2 for a number of years.

Howard is also an active member of NEWEA, where he served as president in 2010. He is also a past president of the Maine Water Environment Association in 2002.

In addition to receiving numerous WEF Operations Challenge team awards over the years Howard is also a recipient of the William D. Hatfield Award, the Arthur Sidney Bedell Award, A WEF Fellow, a WEF Service Pin Recipient, and a member of the Select Society of Sanitary Shovelers.

Howard is a graduate of both the U.S. Naval Nuclear Piping/Mechanical Apprenticeship program and the Southern Maine Technical College Wastewater Treatment/ Environmental program.



ROBERT HALLER

Robert Haller is the executive director of the Canadian Water and Wastewater Association, which is THE national voice of the water and wastewater sector in Canada. Robert took on this national leadership role after almost 20 years as a senior municipal administrator - most of those years serving as a CAO for small and medium-sized communities.

With a Geography degree from Carleton University and a Masters in Public Administration (MPA) from the University of Western Ontario, he now serves as the spokesperson for the Canadian water sector at the national level. He admits he relies heavily on CWWA's many members for their expertise and support; especially on technical matters of engineering and chemistry. Robert's role is facilitating national dialogue and information sharing.

On behalf of the CWWA, Robert represents Canada to the world as Secretary of the Canadian National Committee of the International Water Association and is part of the team bringing the World Water Congress to Canada in 2024.



ST. JOHN'S HARBOUR



DEC. 7 TUESDAY

8:30 - 8:35
8:35 - 8:50
8:50 - 9:35
9:35 - 9:50
9:50 - 10:05
10:05 - 10:50
10:50 - 11:15
11:15 - 11:40
11:40 - 12:05
12:05 - 12:30

WELCOME & SPONSORSHIP
AWWA, WEF, CWWA
LAND MANAGEMENT SESSION
TRADESHOW 1
TRADESHOW 2
BREAK/ABEA MAGICIAN
TECHNICAL SESSION: GENERAL 1
TECHNICAL SESSION: GENERAL 2
TECHNICAL SESSION: WATER 1
TECHNICAL SESSION: WATER 2

DEC. 8 WEDNESDAY

8:15 - 8:20
8:20 - 8:35
8:35 - 8:50
8:50 - 9:05
9:05 - 9:35
9:35 - 10:05
10:05 - 10:20
10:20 - 10:50
10:50 - 11:15
11:15 - 11:40
11:40 - 12:05
12:05 - 12:30

WELCOME & SPONSORSHIP
TRADESHOW 3
TRADESHOW 4
TRADESHOW 5
WATER TECHNICAL TOUR
AGM
BREAK
WASTEWATER TECHNICAL TOUR
TECHNICAL SESSION: GENERAL 3
TECHNICAL SESSION: WATER 3
TECHNICAL SESSION: WASTEWATER 1
TECHNICAL SESSION: WASTEWATER 2

DEC. 9 THURSDAY

8:15 - 8:20
8:20 - 9:35
9:35 - 9:50
9:50 - 10:15
10:15 - 10:40
10:40 - 11:10
11:10 - 11:25
11:25 - 11:40
11:40 - 12:05
12:05 - 12:30

WELCOME & SPONSORSHIP
YOUNG PROFESSIONAL SESSIONS
TRADESHOW 6
TECHNICAL SESSION: WATER 4
TECHNICAL SESSION: WATER 5
BREAK - MEET & GREET
TRADESHOW 7
TRADESHOW 8
TECHNICAL SESSION: WASTEWATER 3
TECHNICAL SESSION: WASTEWATER 4

The Young Professionals Technical Session is organized by the YP Committee, which is an active group that offers engaging speaking, networking and volunteering opportunities for members of the ACWWA who are new to the water and wastewater industry. The group is made-up of engineers, researchers, operators, technical sales people, and managers. This year we are pleased to offer our second virtual YP Session, where five YPs in our industry will give exceptional technical presentations.

Sponsored By:



TAKING A CLOSER LOOK:

ANALYZING THE LEAD AND COPPER CONCENTRATIONS IN NOVA SCOTIA SCHOOLS

Kalli Hood

PREDICTING THE OCCURRENCE OF GEOSMIN IN LAKE WATER

Paul Bjorndahl

AN EVALUATION OF BENCH AND PILOT-SCALE PRIMARY WASTEWATER TREATMENT PROCESSES TO MEET MORE STRINGENT WASTEWATER SYSTEM EFFLUENT REGULATIONS

Sydney Lowe

INVESTIGATION OF SEWER GRID BIOAUGMENTATION TO ENHANCE BIOLOGICAL TREATMENT PERFORMANCE AND MEET MORE STRINGENT DISCHARGE REQUIREMENTS

Zachary Bishoff

DETECTION OF SARS-CoV-2 IN WASTEWATER AND MUNICIPAL SOLIDS IN A CANADIAN PROVINCE WITH LOW PREVALENCE OF COVID-19

Emalie Hayes

VIRTUAL MEET & GREET

HAVE YOU MISSED NETWORKING WITH FRIENDS AND INDUSTRY PEERS DURING THE PANDEMIC?

Join us this year for our first virtual meet and greet.

The meet and greet will be held on Thursday, December 9, at 10:40 AM, using the Gathertown platform. With your conference registration, you will receive an invitation link to the meet and greet and simple instructions on how to join us.



We are looking forward to seeing you all in December.

Regards,
Julie Stokes, ACWWA Membership Director



RIVERHEAD WASTEWATER TREATMENT FACILITY

The Riverhead Wastewater Treatment Facility (RHWWTf) is a 135 MLD conventional primary treatment plant that has been designed to treat wastewater from the City of St. John's, the City of Mount Pearl, and the Town of Paradise. This municipal service area has a total existing population of approximately 135,000 people and a buildout population of 160,000 people. Effluent is discharged to St. John's Harbour and biosolids are disposed of at the Robin Hood Bay Waste Management Facility.

The RHWWTf includes an Administration Building with offices for personnel, a facility control room, a laboratory, and a boardroom. The treatment process buildings include a Shallow Pump Station, Deep Pump Station, Grit Removal Facility, Primary Clarifiers, Chlorine Disinfection Facility, Anaerobic Digesters, and a Solids Dewatering Facility. The RHWWTf is also equipped with two hot water boilers and two diesel-powered generators for the provision of standby power.

PETTY HARBOUR LONG POND WTP

Commissioned in 2015, the Petty Harbour Long Pond Water Treatment Plant (PHLP WTP) is the newest and smallest of the three water treatment plants that supply drinking water to the City of St. John's. The PHLP WTP has a maximum design capacity of 26 MLD however with a current average day demand of approximately 10 MLD, the water treatment plant only services approximately 15% of the City's population. The water treatment process is conventional, combining coagulation, flocculation, and DAF clarification in the pre-treatment stage. This is followed by dual media gravity-fed filtration, UV and chlorine disinfection, pH adjustment and alkalinity enhancement at the post-treatment stage. The treated water effluent is stored in a 10ML in-ground reservoir and fed to the water distribution system on demand. In 2018, a potassium permanganate feed system was also added to the treatment process to improve water quality and precipitate seasonal spikes in dissolved manganese.

<p>SPECIAL DEC. 7 8:40 - 9:35</p>	<p>LAND MANAGEMENT: LESSONS LEARNED FROM MANAGING LAND ISSUES Heidi Schedler, Halifax Water</p>
<p>GENERAL 1 DEC. 7 10:50 - 11:15</p>	<p>DIVERSITY IN THE ATLANTIC CANADIAN WATER INDUSTRY Jennie Rand, Acadia University</p>
<p>GENERAL 2 DEC. 7 11:15 - 11:40</p>	<p>MILESTONES FROM CANADIAN AND US PARTNERSHIPS BENEFITTING SMALL AND MEDIUM SIZED UTILITIES Michael D. Dirks, The Water Research Foundation</p>
<p>WATER 1 DEC. 7 11:40 - 12:05</p>	<p>CASE STUDY EXAMPLE - POTLOTEK FIRST NATION WATER Julianna Haché, North Shore Mi'kmaq District Council</p>
<p>WATER 2 DEC. 7 12:05 - 12:30</p>	<p>USING ESRI GIS WEB APPLICATIONS TO MAINTAIN DISTRIBUTION SYSTEM WATER QUALITY Adam McKnight, Halifax Water</p>
<p>GENERAL 3 DEC. 8 10:50 - 11:15</p>	<p>WATER MOVEMENT Bitia Malekian, Water Movement</p>
<p>WATER 3 DEC. 8 11:15 - 11:40</p>	<p>THEY MAY BE SMALL, BUT THEY COME WITH BIG CONSEQUENCES: LESSONS LEARNED FROM IMPLEMENTING AN ALGAL MONITORING STRATEGY Jessica Campbell, Halifax Water</p>
<p>WASTEWATER 1 DEC. 8 11:40 - 12:05</p>	<p>CASE STUDY: SOLVING ALGAE BLOOMS AND H2S EMISSIONS WITH A WELL-PLANNED LAGOON SLUDGE CLEANOUT Paul Saulnier, Scotia Tech Fluid Services</p>
<p>WASTEWATER 2 DEC. 8 12:05 - 12:30</p>	<p>WASTEWATER SURVEILLANCE OF SARS-COV-2 IN NOVA SCOTIA Crystal Sweeney, Dalhousie University</p>
<p>WATER 4 DEC. 9 9:50 - 10:15</p>	<p>PRIORITIZING TRANSMISSION MAINS SHOULDN'T BE RISKY BUSINESS Heather Miller, Halifax Water & Lauren MacDonnell, CBCL</p>
<p>WATER 5 DEC. 9 10:15 - 10:40</p>	<p>PRESSURE MANAGEMENT BASICS Jason Phillips, City of St. John's</p>
<p>WASTEWATER 3 DEC. 9 11:40 - 12:05</p>	<p>BENCH-SCALE DAF POLYMER OPTIMIZATION STUDY TO IMPROVE EFFLUENT QUALITY AT A MUNICIPAL WWTF Sheila Fyfe, Centre for Water Resources Studies</p>
<p>WASTEWATER 4 DEC. 9 12:05 - 12:30</p>	<p>HIGH FLOWS AND WEAK WASTEWATER AT A NORTHERN WWTP - DON'T STRESS OUT Warren Martin, Stantec Consulting Ltd.</p>

Make sure you join us for the live show featuring Master Magician, Escape Artist, Mind Reader, Hypnotist, Keynote Speaker, and TV Magic Consultant:

Steve Spade

The Master Magician

Steve Spade was born in Limerick, Ireland, and has quickly established himself as a firm favourite on the Irish celebrity circuit. He combines top-drawer sleight of hand skills with psychological subtleties and great comic timing.

Spade has been doing magic since his childhood, performing at every opportunity on the streets and in the pubs and clubs of his native city.

For Spade, the intimate miracle of close-up magic is at the heart of his art. He has wowed many celebrities, including Mike Tyson, Russell Brand and Rihanna. No after-show party is complete without his manipulations – just ask Florence & The Machine, Calvin Harris, Metallica, The Coronas, Bressie, Glen Hansard, and many more. He also stunned 10,000 people with his illusions at Electric Picnic.

“To be in the presence of Steve Spade while watching him perform was jaw dropping!”

“Without a doubt, Steve is Ireland’s top and most professional magician. He is a master in the world of magical presentation.”

“This is why you never sit at a table in the front row of a magic show. Steve Spade, my heartbeat is still not back to normal!”

“I’m still losing sleep over some of the magic Steve performed. I will never understand how he does it. He had a room mesmerized and in awe – you could hear a pin drop. Brilliant!!”



GET IN FRONT OF YOUR AUDIENCE



BE TOP OF MIND

BOOK YOUR TIME TO TELL ACWWA ATTENDEES ABOUT YOUR AMAZING PRODUCTS/SERVICES! A LIMITED NUMBER OF VIRTUAL TRADESHOW TIME SLOTS ARE AVAILABLE, BOOK TODAY!



CAPITALIZE ON YOUR TIME IN THE SPOTLIGHT

EACH TIME SLOT IS 15 MINUTES LONG. PROMOTE YOUR PRODUCT/SERVICE THROUGH VIDEOS, SLIDES, A LIVE OR PRE-RECORDED PRESENTATION.

WRAP-UP WITH A QUICK Q&A SESSION AND LINK TO YOUR WEBSITE/CONTACT INFORMATION.



GENERATE QUALITY LEADS

CONFERENCE ATTENDEES ARE LEADERS IN WATER, WASTEWATER, AND STORMWATER FIELDS. GET YOUR PRODUCTS/SERVICES IN FRONT OF THE PERFECT AUDIENCE!

The Atlantic Branch Equipment Association (ABEA) would like to take this opportunity to thank everyone for their continued support during such unprecedented times and hope you enjoy the Monday morning entertainment provided by our membership.

Contact information for our members, and applications for our Scholarship and Grant Program can be found on www.ABEA.biz



ADS	Flowstar Ind.	Pro-Line Fittings
Anthrafilter	Ford Meter Box	Prominent
Aqua Data Atlantic	Galaxy Plastics	Pure Technologies
Atlantic Purification Systems Ltd.	Greatario Storage Systems	Sansom Equipment
Avensys	H2Flow	Saunders Equipment
Bibby Ste-Croix	HACH	Scotia Tech
BioMAXX Wastewater Solutions	Hetek	Sensus (KTI)
Birksco-Aqualoader	Ipex Inc.	ShadComm Ltd
Cambridge Brass	K&D Pratt	SIGMA Corp.
Campbell's Concrete	Kemtag Enterprises Ltd.	SIP Products
Canada Pipe	Liberty Pumps	Soleno
Chemline Plastics	Magnor	Star Pipe Canada Inc.
Clow Canada	Maritime Infrastructure	Sulzer
Coastal Controls & Instrumentation	Technologies	The Panel Shop
Concord Supply	McLennan Sales (div. of EMCO)	Veolia Water Solutions & Technologies
Denso NA-Can	Mueller Canada	Veronics
Denyg Mechanical	Napco-Royal	Wolseley Waterworks Atlantic
DRL Piping Solutions	Neptune Technology Group	WWOTC
EPP Technical Solutions	Nulantic	Xylem
	Omnitech	

Current ABEA Board

President	Andrew Duguay
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Director/Liaison	Catherine Cameron

ACWWA CONFERENCE REGISTRATION PART 1 – CONFERENCE ATTENDEE GENERAL INFORMATION					
FIRST NAME		LAST NAME		ORGANIZATION	
MAILING ADDRESS				CITY	
PROVINCE	COUNTRY	POSTAL CODE		AWWA MEMBERSHIP NUMBER	
PHONE		FAX		WEF MEMBERSHIP NUMBER	
EMAIL ADDRESS		Check box if you would like to be added to the ACWWA email list <input type="checkbox"/> Check box if you are a first time conference attendee <input type="checkbox"/>			
Sector <input type="checkbox"/> Utility <input type="checkbox"/> Supplier <input type="checkbox"/> Contractor <input type="checkbox"/> Consultant <input type="checkbox"/> Student <input type="checkbox"/> Academic <input type="checkbox"/> Regulator <input type="checkbox"/> Other					

PART 2 – DELEGATE REGISTRATION			
Conference Delegate – On or Before November 30, 2021	<input type="checkbox"/> Member – \$175	<input type="checkbox"/> Non-Member – \$200	\$
Conference Delegate – On or After December 1, 2021	<input type="checkbox"/> Member – \$225	<input type="checkbox"/> Non-Member – \$250	\$
Conference Delegate – Day Pass – December 7, 2021	<input type="checkbox"/> Member – \$100	<input type="checkbox"/> Non-Member – \$125	\$
Conference Delegate – Day Pass – December 8, 2021	<input type="checkbox"/> Member – \$100	<input type="checkbox"/> Non-Member – \$125	\$
Conference Delegate – Day Pass – December 9, 2021	<input type="checkbox"/> Member – \$100	<input type="checkbox"/> Non-Member – \$125	\$
Student (Registration is free) – Covered by a sponsor			\$ 0.00
Part 2 – Subtotal			\$

PART 3 – TRADE SHOW			
Tradeshaw Virtual Presentation Slot	ABEA Member – \$225	Non-Member – \$275	\$
1 Slot per Company			Part 3 – Subtotal

PART 4 – FEES	
Subtotal	\$
Total Amount Due	\$

PART 5 - PAYMENT OPTIONS	
Choose payment method. Complete as appropriate.	
<input type="checkbox"/> Cheque	<input type="checkbox"/> Visa <input type="checkbox"/> MasterCard
Please make cheque payable to "ACWWA Conference", Box 28142, Dartmouth, NS B2W 6E2	
CARD HOLDER NAME	
CARD NUMBER	EXPIRY
SIGNATURE	
Fax: 902-435-7796 or Email: contact@acwwa.ca	EMAIL ADDRESS
WHEN PAYING WITH A CREDIT CARD AN EMAIL ADDRESS IS REQUIRED FOR A RECEIPT TO BE ISSUED By registering for this event, your contact information may be shared with exhibitors and/or sponsors.	

ACWWA Delegate 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.

ACWWA Trade Show Cancellation Policy – Payment Options

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 30 days in advance of the conference start date will receive a 50% refund. Cancellations less than 30 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.

Conference Information

Full conference has a 1.2 CEU value.

PRESENTING/PLATINUM



GOLD



SILVER



BRONZE

