

20/20



DEC.
8-10

AVIRTUALVISION



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As we look forward to ACWWA's first-ever virtual conference, it is with excitement and enthusiasm that we embark on this new venue style.

While the virtual attendance will be a change from our close networking and camaraderie of past ACWWA conferences, this year's conference will offer an opportunity to come together in a way that ensures we all remain healthy so that we can continue to perform our critical roles as essential service providers and it will also provide us with the opportunity to learn and further grow professionally.

As you take an opportunity to review the conference program, you will note that once again this year, there is a very strong Technical Program, as well, there will be a number of Tradeshows that will provide a unique opportunity to learn, and there will be a Virtual Vision: a round table discussion that will engage a number of thought leaders in our industry. We will also get to hear from our various representatives, including our; AWWA, WEF and CWWA representatives.

As each of you have experienced, the COVID-19 pandemic has had a remarkable impact on our businesses, communities, and on our operations, which has caused us to pivot and identify new ways of doing business or operating infrastructure, and this has also been the case with the Annual Conference. Your ACWWA Board of Directors and its Executive Director - Clara Shea, have also had to pivot, and for that, I wish to extend my many thanks and congratulations to Clara and the entire ACWWA Board of Directors and all others who have contributed to making this 2020 conference a reality. I also wish to provide my sincere thanks and appreciation to all of our conference sponsors, without whom we would not be able to make this conference a reality.

The need for water and wastewater professionals to come together in our continued support of one another has never been greater, and I would like to extend a cordial invitation on behalf of the board to all industry representatives to virtually attend this conference.

I look forward to seeing you, and until then, please do stay well.



BRENT MCGOVERN

Cathie O’Toole, MBA, FCPA, FCGA, ICD.d

Cathie O’Toole is the General Manager of Halifax Water, a regulated public utility providing water, wastewater and stormwater service.

Prior to becoming General Manger, Cathie was the Director of Corporate Services/CFO with Halifax Water for nine years. Cathie’s experience also includes ten years with the Halifax Regional Municipality in roles such as Director of Finance/CFO, Director of Infrastructure and Asset Management, and Manager of Energy and Utilities.

When Cathie O’Toole became the General Manager of Halifax Water, she was the first female and the first non-engineer in that role in the company’s history. Cathie is an accomplished leader with a track record of successfully steering large and complex projects and championing organizational change. In the community, Cathie serves as a board member at the Nova Scotia Liquor Commission, a volunteer with CPA Nova Scotia on the Complaints Committee, Treasurer of the Bedford Ladies Slo-Pitch League, and on most Sundays can be found playing the organ at a local church.



CATHIE O’TOOLE



RICHARD MACEWEN

Richard MacEwen, M.Sc. P.Eng.
Manager, Charlottetown Water and Sewer Utility

Richard MacEwen is the Manager of the Charlottetown Water and Sewer Utility. He has worked with the Utility since 2011. He holds a Chemical Engineering Degree from the University of New Brunswick, and a Masters Degree in Environmental Technology from Imperial College of Science, Technology and Medicine, University of London. Prior to joining the City of Charlottetown, he worked as an environmental consultant based in PEI, a water resources advisor in Vanuatu and an infrastructure manager in Ghana.

Julie Stokes, CET (City of Moncton, NB)

Julie Stokes is a Supervisor- Utilities for the City of Moncton, NB, where she assists in the supervision of the Municipality's Water & Wastewater Operations. Since joining the City of Moncton in 2004, Julie has been involved in various municipal capital design projects, hydraulic modeling, Uni-directional flushing programs but mostly has supervised the water meter and backflow Departments, manages the AMI replacement program, and leads the implementation of the City's district metering area (DMA) project. As well, she assists with the day to day operations water and wastewater, water infrastructure asset management and the development of the annual operating budget.



JULIE STOKES

Prior to joining the City of Moncton, Julie spent 3 years working for an Engineering Consultant on various municipal, airport authority and railway design projects. She also spent 4 years working as part of a private consortium that saw the construction of a new 195km four-lane highway through the Province.

Julie graduated with honors from the New Brunswick Community College in Civil Engineering Technology-Highways and Municipal. She is a certified Water Treatment Operator as well as a Certified Water Distribution Operator. In 2017, Julie completed her level 300 Incident Command System (ICS) training.

Julie has been an active member of the American Water Works Association and the Atlantic Canada Water and Wastewater Association since 2009 and currently serves on the ACWWA Board as the Membership Director. She has also held a position on the ACWWA Education Committee, Technical Paper Chair Committee, participated in various Top Ops competitions (including ACE 2016 Chicago & 2018 Las Vegas). In 2016, Julie was conference chair for the ACWWA Annual Conference held in Moncton, NB.



LYNNANN WINSOR

Lynnann Winsor is the Deputy City Manager of Public Works for the City of St. John's, Newfoundland. She is a professional civil engineer with a Masters in Environmental Engineering.

She is a past president of the Canadian Water and Wastewater Association and a member of the AWWA Water Utility Council.

**Vice-President (2020-2022)
American Water Works Association**

After earning her Master of Science in Civil Engineering at Texas Tech, Ms. Elms embarked on a 20-year career in the arena of environmental engineering and regulatory work. Jennifer is an Associate/Senior Project Manager for Odyssey Engineering Group.

Her recent focus has been on planning, permitting and design of treatment plants and sanitary lift stations, her design experience includes wastewater treatment plants as small as 100,000 gpd per day up to 6 million gpd. After construction is complete, she continues to work with MUD Operators to rehabilitate aging facilities, optimize treatment equipment and processes through expansions and rehabilitation. Jennifer has served as District Engineer for mature residential MUDs and regional sewage authorities.



JENNIFER ELMS

While Jennifer focuses on facility design and operation, she has also served as District Engineer to both mature MUDs and regional sewage authorities. She enjoys working with other consultants to find solutions that promote efficiency and optimization. Jennifer also serves as a Director for Harris County MUD No. 71.

Jennifer is extremely active in her professional organization, American Water Works Association. She has served in leadership roles at the local and state levels, including as President of the SE Chapter of TAWWA and Chair of the Texas Section. She is now active at the Association level, serving as one of six (6) Vice Presidents and one of the Texas Section Directors.

Howard Carter is a 2019-2020 member of the Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Virginia.

Howard is the Director of the Water Resource Recovery Department for the City of Saco, Maine. There he is responsible for 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 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 the New England Water Environment Association where he recently led the effort to create a Water Innovation Council and served as President of the Association 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 US Naval Nuclear Piping/Mechanical 4 year Apprenticeship program and the Southern Maine Technical College Wastewater Treatment/ Environmental program.



HOWARD CARTER

Robert Haller is the executive director of the Canadian Water and Wastewater Association, a role he took on after almost 20 years as a senior municipal administrator - most of those years serving as a CAO for small and medium-sized communities. He claims to be a geographer first, with a BA from Carleton University, followed by a Masters in Public Administration from the University of Western Ontario.

Robert leads the CWWA as THE national voice for municipal water and wastewater and promotes collaboration between all the water organizations across Canada. Robert represents the municipal water sector to the federal government on issues such as infrastructure funding, flood risk, security, drinking water guidelines and more. He works closely with all the water associations in North America on education, communications and utility leadership and represents Canada to the International Water Association.



ROBERT HALLER

DEC. 8
TUESDAY

8:30 - 8:35	WELCOME & SPONSORSHIP
8:35 - 8:50	AWWA, WEF, CWWA
8:50 - 10:20	ROUND TABLE
10:20 - 10:25	BREAK
10:25 - 10:40	TRADESHOW: OMNI TECH
10:40 - 10:55	TRADESHOW: CLOW
10:55 - 11:10	TRADESHOW: SANSOM
11:10 - 11:15	BREAK
11:15 - 11:40	TECHNICAL SESSION A
11:40 - 12:05	TECHNICAL SESSION B
12:05 - 12:30	TECHNICAL SESSION C

DEC. 9
WEDNESDAY

8:30 - 8:35	WELCOME & SPONSORSHIP
8:35 - 8:50	TRADESHOW: TRIHEDRAL
8:50 - 9:05	TRADESHOW: MAGNOR
9:05 - 9:20	TRADESHOW: SOLENO
9:20 - 9:25	BREAK
9:25 - 10:10	AGM
10:10 - 11:10	YP SESSIONS
11:10 - 11:15	BREAK
11:15 - 11:40	TECHNICAL SESSION D
11:40 - 12:05	TECHNICAL SESSION E
12:05 - 12:30	TECHNICAL SESSION F

DEC. 10
THURSDAY

8:30 - 8:35	WELCOME & SPONSORSHIP
8:35 - 8:50	TRADESHOW: ADS
8:50 - 9:05	TRADESHOW: AVENSYS
9:05 - 9:20	TRADESHOW: DENSO
9:20 - 9:35	TRADESHOW: FLOWSTAR
9:35 - 9:40	BREAK
9:40 - 10:05	TECHNICAL SESSION G
10:05 - 10:30	TECHNICAL SESSION H
10:30 - 10:55	TECHNICAL SESSION I
10:55 - 11:20	TECHNICAL SESSION J
11:20 - 11:25	BREAK
11:25 - 11:40	TRADESHOW: NEPTUNE
11:40 - 11:55	TRADESHOW: PURE TECH
11:55 - 12:20	TECHNICAL SESSION K
12:20 - 12:30	CLOSING

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Evaluating the Addition of Microorganisms into the Influent of Wastewater Treatment Facilities

ZACHARY BISHOFF

Optimizing the use of dissolved air floatation technology to treat surface drinking water sources recovering from acidification

RYAN SWINAMER

Evaluating CoMag as a technology to decrease the total suspended solids and biochemical oxygen demand values at Halifax Water's Dartmouth Wastewater Treatment Facility

SYDNEY LOWE

Wastewater Treatment Facilities Effluent Discharge Impacts and Outlook to Surface Water

GILLIAN STANTON

Literature Review of the Potential Impacts of Climate Change on Boil Water Advisories in Canada

SARA MOGHADDAM

Predicting Drinking Water Advisories in Small Municipalities and First Nations Communities Using Artificial Neural Networks

COLE LARSON



<p>A DEC. 8 11:15 - 11:40</p>	<p>FROM THE MAIN TO THE METER: LEAD IS SO MUCH MORE THAN A PIPE IN THE GROUND</p> <p>Melissa Healey, Halifax Water</p>
<p>B DEC. 8 11:40 - 12:05</p>	<p>MONCTON'S EXPERIENCE WITH HARMFUL ALGAL BLOOMS IN ITS DRINKING WATER RESERVOIR</p> <p>Nicole Taylor, City Of Moncton</p>
<p>C DEC. 8 12:05 - 12:30</p>	<p>CORROSION CONTROL IN DISTRIBUTION SYSTEMS: EVALUATING YOUR OPTIONS</p> <p>Javier Locsin, Dalhousie University</p>
<p>D DEC. 9 11:15 - 11:40</p>	<p>UPDATES AND INCORPORATION OF CLIMATE RESILIENCE INTO THE ATLANTIC CANADA WATER SUPPLY GUIDELINES AND WASTEWATER GUIDELINES</p> <p>Mike Chaulk, CBCL Ltd.</p>
<p>E DEC. 9 11:40 - 12:05</p>	<p>THE ATLANTIC FIRST NATION WATER AUTHORITY - ITS TIME HAS COME</p> <p>Carl Yates, Atlantic First Nations Water Authority</p>
<p>F DEC. 9 12:05 - 12:30</p>	<p>WATER USAGE CUSTOMER PORTAL: A USEFUL TOOL FOR THE WATER WISE CUSTOMER</p> <p>Pierre Leblanc, Saint John Water</p>
<p>G DEC. 10 9:40 - 10:05</p>	<p>INVESTIGATION OF THE EFFECTS OF PHOSLOCK® APPLICATION ON DRINKING WATER TREATMENT IN ATLANTIC CANADA</p> <p>Isobel Demont, Dalhousie University</p>
<p>H DEC. 10 10:05 - 10:30</p>	<p>INTRODUCTION OF COAGULATION AT AN ULTRAMEMBRANE FILTRATION FACILITY TO ADDRESS DISINFECTION BY-PRODUCTS</p> <p>Devin MacAskill, CBRM</p>
<p>I DEC. 10 10:30 - 10:55</p>	<p>RESERVOIR LIFE CYCLE ASSESSMENT AND MATERIAL SELECTION</p> <p>Jeff Clair, Jonathan Macdonald & Rob Morrison, CBCL Ltd. & Halifax Water</p>
<p>J DEC. 10 10:55 - 11:20</p>	<p>STORM OF THE CENTURY</p> <p>Jason Phillips, City Of St. John's</p>
<p>K DEC. 10 11:55 - 12:20</p>	<p>SWEATING THE ASSETS-OPTIMIZING WWTP DESIGN AND OPERATION</p> <p>Harpreet Rai, R.V. Anderson Associates Ltd.</p>

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