



2024 ACWWA ANNUAL CONFERENCE

FREDERICTON, NB • SEPTEMBER 22 TO 24

TECHNICAL PROGRAM



2024 TECHNICAL PROGRAM

Monday	A	B	C
10:30 – 11:00	Managing Development and Infrastructure Needs with Significant Population Growth <i>Fredrick Van Rooyen, City of Fredericton</i>	Water Treatment Case Studies: Ballasted flocculation for a Resilient City <i>Laurent Oigny & Christian Scott, Veolia</i>	Thunder Storm Impacts on Dam Safety <i>Perry Mitchellmore, Hamid Goharnejad, Jessica Fazio MECO Engineers</i>
11:00 – 11:30	Supply and Demand – How Fredericton’s Water Supply developed and is evolving to meet future growth <i>City of Fredericton</i>	Future-Proofing Slow Sand Filtration: Adding Ancillary Technologies to a Time-Tested Science <i>Robert LeCraw & Kristof Karpiuk, MSFilter</i>	Application of A Vulnerability-Based Risk Assessment Tool for Dam Safety <i>Perry Mitchellmore, MECO Engineers</i>
11:30 – 12:00	Charlottetown Water Supply Planning <i>Richard McEwen & Joshua McInnis, City of Charlottetown</i>	Breaking out of the Membrane Mold: Options and Considerations for Plant Design at Pasadena, NL <i>Wes Alexander, Membrane Specialists</i>	Modelling peatland disruption in bisected bogs and the potential impacts for source water protection <i>Rory McPhail, Dalhousie University</i>

AGM & AWARDS LUNCHEON (12:00-1:30)

13:30 – 14:00	Mill Cove WWTF Status Update – Membrane Bioreactor (MBR) it is! <i>Olav Natvik, Stantec</i>	Cybersecurity Interactive TableTop <i>Justin Wilson, Halifax Water</i>	Threading the Needle: Navigating a Century-Old Tunnel with Dual Transmission Mains <i>Suzanna Lewis, WSP</i>
14:00 – 14:30	Sydney Harbour West WWTP – A New-Build Wastewater Treatment Case Study <i>Sarah Ensslin & Holly Sampson, CBCL</i>	Can you secure remote access to SCADA? <i>Zane Spencer, MPE</i>	Interpreting a Laboratory Quality Control Report <i>Michael Doucet, ALS</i>
14:30 – 15:00	City of Fredericton Wastewater Treatment Plant – Twenty Years of Phased Upgrades <i>Mike Abbott & Marc Colwell, CBCL</i>	Machine Learning and AI Applications for Municipal Water Utility Managers <i>Mike Bensen, UNB</i>	Evolving our Professional Services Training Program for Future Leaders <i>Amy Winchester, CBCL</i>

BREAK (15:00-15:15)

15:15 – 15:45	Water Down the Road: Repairing A Critical Transmission Main While Keeping the Taps Running <i>John Eisnor, Kevin Healy & Wendy Krkosek, Halifax Water</i>	Barriers and Deployment of UV-C LED Technology in Municipal Water and Wastewater Applications <i>Aaron Leber, AquiSense</i>	Monitoring of Per- and Polyfluoroalkyl Substances (PFAS) in Atlantic Canadian Source Waters <i>Manda Tchonlla, Jessica Bennett & Graham Gagnon, Dalhousie</i>
15:45 – 16:15	PVC Leak Detection <i>Jason Phillips, City of St Johns</i>	UV LEDs for Wastewater Disinfection <i>Bailey Reid, Sean MacIsaac, Carolina Ontiveros, Amina Stoddart, Graham Gagnon, Dalhousie University</i>	Adapting a National Wastewater Surveillance program to NB and First Nations needs <i>Heather Cail, NSMTC</i>
16:15 – 16:45	City of Moncton – IWA/AWWA Audit(s) benefits & lessons learned <i>Julie Stokes, City of Moncton</i>	Illuminating Alternative UV Dosing Strategies <i>Kim Sayers, RV Anderson</i>	Molecular Tools for Advanced Wastewater Management <i>Amina Stoddart, Dalhousie</i>

• Indicates Fresh Ideas

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Tuesday	A	B	C
9:00 – 9:30	A Tale of Two Towns – Water Distribution and Treatment Challenges <i>Warren Martin, Stantec</i>	Zoning in on Sewer Separation <i>Shawn Burke, Englobe</i>	Viability qPCR, a rapid tool for detecting Legionella pneumophila in Cooling towers <i>Nishanth Kuchi, Attiq Rehman, Matthew Poole, Nadine Godin, Michael Lawlor, Diane Botelho, RPC</i>
9:30 – 10:00	Trenchless Rehabilitation of Sanitary Forcemain Crossing the Wolastoq (Saint John River) <i>Rachel Hogge, EXP</i>	Albro Lakes Combined Sewer Separation <i>Adam Sketchley, DesignPoint</i>	Big Data in Microbial Communities: An Analysis Toolset for eDNA in Water and Wastewater Ecosystem <i>Paul Bjorndahl, Dalhousie</i>

TRADESHOW (10:00 - 14:00)

14:00 – 14:30	Repairs to New York’s Delaware Aqueduct <i>Paul Rush, NYCDEP</i>	Harmful algal blooms: The what, why and how of implementing a risk based monitoring strategy <i>Suchandan Bernal, Halifax Water</i>	Meeting Evolving Performance Requirements for Iron and Manganese Reduction in Groundwater <i>Rick Sen, Magnor</i>
14:30 – 15:00	Navigating a Changing Future: Climate Data for the Water and Wastewater Sector <i>Jenna Miller, CLIMAtlantic</i>	Enhanced Monitoring Strategies for Toxic Cyanobacteria in Drinking Water Supplies <i>Dave Redden & Clarke Brown, Dalhousie</i>	Evaluation of Drinking Water Additives on Lead Solder Corrosion in Premises Plumbing <i>Naomi Lewis, Ben Trueman, Kalli Hood, Graham Gagnon, Dalhousie</i>
15:00 – 15:30	Climate-Driven Increases in Source Water Natural Organic Matter: Implications for the Sustainability of Drinking Water Treatment <i>Ryan Swinamer, Dalhousie</i>	Blue Green Algae (Cyanobacteria) and their toxins in Atlantic Canada’s Recreational Water <i>Corrie Maston, RPC</i>	A Holistic Approach to Phosphorus Corrosion Control <i>Kevin Sullo, Aqua Smart Inc</i>

BREAK (15:30-15:45)

15:45 – 16:15	Year Round Cold Water Treatment Capacity Improvement Options <i>Regan Smith, Ecofixe</i>	Biomass-Derived Nanocomposites for Highly Efficient Photocatalytic Degradation of Wastewater <i>Rahil Changotra & Quan Sophia He, Dalhousie</i>	Risk Management Across Canadian Provinces: Perspectives from Operators <i>Emma Wells, UC Boulder</i>
16:15 – 16:45	Springfield Lake Wastewater Servicing Study and Concept Design <i>Devin Bell, Stantec</i>	Removal of pollutants from wastewater using sustainable bio-adsorbent <i>Himadri Rajput and Quan Sophia He</i>	Winning the war against wipes <i>Troy Heimerl, JWCE</i>

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