

The Ripple Effect: When Action Becomes Change

Education Program At-A-Glance

52ND BCWWA ANNUAL CONFERENCE & TRADE SHOW

Whistler, BC

MONDAY, APRIL 29, 2024

WCC	Rainbow Theatre	Harmony B	Garibaldi A	Garibaldi B	Harmony A	Fitzsimmons
8:00 - 8:20	First Nations Welcome - Live	First Nations Welcome Overflow - Live Stream	First Nations Welcome Overflow - Live Stream	First Nations Welcome Overflow - Live Stream	First Nations Welcome Overflow - Live Stream	First Nations Welcome Overflow - Live Stream
Block 1/ Moderator	Neal Whiteside	David Lycon	Hans Seidemann	Michael Florendo	Derek Lycke	
Stream	ASSET MANAGEMENT	WATER TREATMENT PROCESS	EMERGENCY & RISK MANAGEMENT	CLIMATE RESILIENCE	WASTEWATER	GREEN INFRASTRUCTURE
8:30 - 9:00	Metro Vancouver's Experience with Extending the Life of Copper Pipes <i>Inder Singh - Metro Vancouver</i>	Future-Proofing Slow Sand Filtration: Adding Ancillary Technologies <i>Robert (Bob) LeCraw - MS Filter Systems</i>	"Post-Disaster" What Does That Mean Anyway? <i>Bryan Gallagher - Stantec Consulting</i>	Net Zero Pathways Project for Small and Medium-Sized Utilities <i>Nina Bader - Foresight Canada</i>	City of Vernon's Brewery Wastewater Pretreatment Facility: Case Study <i>Marco Denee - AECOM</i>	YOUNG PROFESSIONALS' SESSION: An Introduction to Green Infrastructure in British Columbia <i>Satej Kulkarni - Stantec Consulting, Andrew Sheroubi - Delco Water, Nick Mead-Fox - City of Vancouver, & Andrew Kolper - Kerr Wood Leidal</i>
9:00 - 9:30	Strategic Advancements in Water and Sewer Utilities Asset Management for the City of Delta <i>Mohammad Amini - AECOM</i>	Meeting in the Middle – Finding the Optimum WTP Size <i>Christina Saxvik - McElhanney</i>	Critical Infrastructure and the Modernized Emergency and Disaster Management Act <i>Michael Higgins - Colliers Project Leaders</i>	Becoming Flood Resilient: Bigstone Cree Nation's Holistic Empowerment Journey <i>Laura Creswell - Urban Systems</i>	Pilot Testing Planning – Lessons Learned from Iona Island WWTP Upgrade <i>Aaron Buckley - Jacobs</i>	
9:30 - 10:00	The City of Surrey Drainage & Irrigation Pump Station Operational Assessment and Asset Management Plan <i>Quincy Liu - AECOM</i>	Kamloops DWTP - Maximizing Membrane Life and Operational Efficiency Beyond LEED <i>Elliot Wuorinen - Veolia</i>	Rapid Inspection for A Western Canadian Municipality Water Main <i>Vincent Shen - Pipeline Inspection & Condition Analysis (PICA)</i>	Flood Mapping of the Bella Coola River: Overcoming Challenges <i>Nicolas Abarca - Urban Systems</i>	Monitoring and Management Options for High Impact Influent Sources <i>Don Nash - Kerr Wood Leidal</i>	
COFFEE BREAK						
Block 2/ Moderator	Adrien D'Andrade	Inder Singh	Harshan Radhakrishnan	David Lycon	Chris Howorth	Satej Kulkarni
Stream	ASSET MANAGEMENT	WATER QUALITY	EMERGENCY & RISK MANAGEMENT	ENERGY OPTIMIZATION	WASTEWATER	WATER QUALITY - PFAS
10:15 - 10:45	A Paradigm Shift in Asset Management for the City of Kelowna's Sewer Lift Stations <i>Baitoo Liang - AECOM</i>	Hyperboloid Flocculators for Optimizing the Flocculation Process <i>Jackie Lauer - INVENT Environmental Technologies</i>	Planning for an Extreme Uncertain Future – Princeton <i>Jonathan Welke - TRUE Consulting</i>	The Power of Digitization: Implementing a Power Quality Monitoring System for a WWTP <i>Sergio Bertani - Schneider Electric</i>	Updating the Metro Vancouver I&I Management Template: Making I&I Reduction Programs Easier to Implement <i>Chris Johnston - Kerr Wood Leidal</i>	What's All the Fuss About PFAS? <i>Shona Robinson - Kerr Wood Leidal</i>
10:45 - 11:15	Sewer Force Mains – A Pro-active Approach to Asset Management of These Often-overlooked Buried Pipelines <i>Mike Lemmen - SFE Global</i>	AI-Enabled Source Water Quality Forecasting <i>Edison (Xiang) Li - University of British Columbia</i>	Driving Value and Measuring Success from Simulation Exercises <i>Shawn Corrigan - Carolla Engineers</i>	Sustainable Hydrogen Production at a Metro Vancouver Wastewater Treatment Plant <i>John Robertson - GHD</i>	Climate Change and Sustainability Considerations for Wastewater Treatment Plant Design <i>Graham Seggewiss - CIMA+</i>	PFAS Panel – Impacts of Forever Chemicals on Canadian Utilities <i>Martin Earle - Carolla Engineers, Tyler Kane - Carolla Engineers, Eva Steidle-Darling - Carolla Engineers, Michelle Young - Carolla Engineers, Madjid Mohseni - University of British Columbia, Libby Barg Bakke - Consor, Rod MacLean - City of Kelowna</i>
11:15 - 11:45	The Ripple Effect of Machine Learning <i>James Fitchett - Voda</i>	Protecting our Communities - A Review of Cross Connection Control Programs in British Columbia <i>Marian Hands - BCWWA</i>	Cache Creek 2023 – Did All this Flood Planning Help? <i>Jonathan Welke - TRUE Consulting</i>	Stop Throwing Away Your Hydraulic Energy! <i>Jonathan Musser - Associated Engineering</i>	Embracing an Auto-Wasting Narrative for Effluent Ammonia Control at the Prince Albert SK Wastewater Treatment Plant <i>Randy Craig - AECOM</i>	
TRADE SHOW LUNCH						
Block 3/ Moderator	George Bontus	Ghazaleh Haghight	David Houghton	Caroline Charbonneau	Stephen Horsman	
Stream	ASSET MANAGEMENT - CORROSION	DRINKING WATER QUALITY	OPERATIONAL TECHNOLOGIES - SCADA	ENVIRONMENTAL PROTECTION	UTILITY MANAGEMENT/ PROJECT DELIVERY	EMERGENCY RESPONSE PLANNING
1:45 - 2:15	Mechanics of Corrosion, Strategies to Manage: Advantages and Disadvantages <i>Stuart Reece - River Run Industrial</i>	Evolving Performance Requirements for Iron and Manganese Reduction in Groundwater <i>Rick Sen - Magnor</i>	Strategic Electrical Maintenance and Upgrade Planning of Operating Water Plants <i>Derek Desaulniers - Associated Engineering</i>	Wetlands for Decentralized Sanitation: Evaluating Temperature, Organic Load and Vegetation <i>Mario A. Salinas-Toledano - University of Northern BC</i>	Tofino Feels the Ripple <i>Simon Kirkland - District of Tofino</i>	Developing your Emergency Response and Contingency Plan <i>BC Ministry of Health & Team Megan Kot, Alistair Stewart, & Bernard McDonell</i>
2:15 - 2:45	Corrosion a Generational Problem <i>Brent Williamson - Integrity Pipeline Products West</i>	Take Action on Manganese Now <i>Martin Earle - Carolla Engineers</i>	Collaborating and Designing with Operations in Mind <i>Skye Patterson-Kane - Stantec Consulting</i>	Upgrading Lagoon Based Treatment Systems to Meet More Stringent Limits for BOD, TSS and Nutrient Removal <i>Tom Birkeland - Lemna Environmental Technologies</i>	Risk Management Across Canadian Provinces: Perspectives from Operators to Regulators <i>Emma Wells - University of Colorado Boulder</i>	
2:45 - 3:15	Guidance for Using Pipe Rigs to Inform Corrosion Control Decisions <i>Pierre Kwan - HDR</i>	Toxic Tales: Filtering the Facts About Arsenic in Drinking Water <i>Andrew Sheroubi - Delco Water</i>	Plant Automation Commissioning – How to Avoid the Headaches <i>Jashua Becker - Delco Automation</i>	Enhanced Biological Treatment of Hydrothermal Liquefaction Aqueous Phase by Adsorption <i>Kemal Aktas - University of British Columbia</i>	Institutionalizing the One Water Approach Through an Adaptive Regulatory Approach <i>Harshan Radhakrishnan - Engineers and Geoscientists</i>	
COFFEE BREAK						
Block 4/ Moderator	Sam Ghosh	Zane Spencer	David Houghton	Jeff Halliday	Kevin Zhang	Matthew Holitzki
Stream	ASSET MANAGEMENT - CONDITION ASSESSMENT	WATER TREATMENT - TECHNOLOGY	OPERATIONAL TECHNOLOGIES - SCADA	TREATMENT TECHNOLOGY	UTILITY MANAGEMENT	WATER REUSE
3:30 - 4:00	Pressure Pipe Condition Assessment and Risk Evaluation <i>Michael Higgins - HDR</i>	Pore-spectives on Potability - Overview of Membrane Technologies in Drinking Water Treatment <i>Andrew Sheroubi - Delco Water</i>	Municipal SCADA in the Future: An Overview of ISA 112 <i>Steven Gillan - PBX Engineering</i>	Onsite Treatment of High Strength Stormwater from a Recycling Depot <i>Cole Seymour - MSR Solutions</i>	Riding the Wave: Navigating Water and Sewer Challenges Amidst BC's Bill 44-Driven Urban Surge <i>Werner De Schaetzen - GeoAdvice Engineering</i>	Advancing Non-Potable Water Use in the Metro Vancouver Region <i>Elizabeth Kee - Metro Vancouver</i>
4:00 - 4:30	I Need Divers for a Pipeline Inspection? <i>William Jappy - Pure Technologies, a Xylem Brand</i>	Dry Polymer Implementation at the Seymour Capilano Filtration Plant <i>A. Cristina Fonseca - Stantec Consulting</i>	Bill C26 and Control System Cybersecurity for Critical Infrastructure <i>Marty Bince - EECOL Electric</i>	Geotextile Dewatering: Case Study of Efficient Residual Waste Management <i>Dalen Crause - DWG Process Supply</i>	Adapting Infrastructure Planning to BC's Housing Strategy <i>Neal Whiteside - Water Street Engineering</i>	Is there a Pathway to Reuse Water without Regulatory Paralysis <i>Mike Seymour - MSR Solutions</i>
4:30 - 5:00	Assessing the Condition of your Aged Buried-asset: When Piping Samples Become Available <i>Henry (Hanfeng) Xu - Metro Testing & Engineering</i>	Many Roads Lead to Rome: Roads to Implementing Hollow Fiber Technology in Water Treatment <i>Mark Lewis - Delco Water</i>	CTRL-ALT-DELETE: Avoid Ransomware and Other Ugliness in your SCADA System <i>Gary Brykov - PBX Engineering</i>	Annacs Island: A Case Study on the Modern Tricking Filter <i>Bethany Burton - Westech Engineering</i>	Enhancing Water System Resilience: Strategic Approaches in a Changing Environment <i>Sandra Rodriguez - CIMA+</i>	Adaptive Pathways: Developing Strategies that Respond to Under Deep Uncertainty <i>Ryan Brochrie - GHD</i>