



HONOURING
THE FULL CIRCLE

TECHNICAL PROGRAM SCHEDULE

WESTERN CANADA WATER

2016 CONFERENCE AND EXHIBITION

October 4-7, 2016

Calgary AB

LEGEND:	Water	Wastewater	Stormwater
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Room	Glen 201/Glen 202	Glen 203/Glen204	Glen 205	Glen 206	Glen 209
WEDNESDAY, OCTOBER 5, 2016					
2:00 pm	Optimizing WTP Disinfection Via Biological Pre-Treatment, From Concept To Full Scale System SMALL SYSTEMS	Calgary Water Main Break Prediction Model DISTRIBUTION	City of Thompson WWTP - From Primary Treatment to BNR Upgrade SMALL SYSTEMS	Measuring the Performance of Non-Potable Water Reuse Systems (CSA B128.3) and the Creation of a Testing and Certification Program in Edmonton, AB REUSE	Bowmont Natural Environment Park Stormwater Retrofit Project - The Project's Journey PONDS
2:30 pm	Arsenic Removal from Groundwater via Adsorption: Comparing Theoretical Performance with Performance Monitoring and Pilot Testing Results SMALL SYSTEMS	Corrosion Monitoring and Actions from the Water Treatment Plants to the Distribution System in Calgary, Alberta DISTRIBUTION	Lagoon-Based Phosphorus Removal Case Studies: Lessons from Sundridge, Ontario SMALL SYSTEMS	A Compact, Efficient and Expandable Title 22 Treatment System for Small Water Systems REUSE	Bowmont Natural Environment Park Stormwater Retrofit Project - A Functional Landscape PONDS
3:00 pm	BREAK				
3:30 pm	Deployment of Advanced Inline Inspection Tools and Condition Assessment of River Crossing Pipelines in Winnipeg, Manitoba ASSET MANAGEMENT	Using a Computer Based Treatment Plant Simulator to Assess Plant Capacity and Maintenance/Failure Limits on Operation MODELING	Improving Understanding of the Chemical and Biological Nutrient Removal Mechanisms in Existing Wastewater Lagoons SMALL SYSTEMS	Regina Wastewater Plant P3: Operations During Construction Completion & Commissioning Year 2 PLANNING AND DELIVERY	Condition Assessment Program for City of Calgary Stormwater Ponds PONDS
4:00 pm	Design for Commissioning Full Circle ASSET MANAGEMENT	Use of Dynamic Process Simulation to Plan Wastewater Treatment Biological System Start-Up MODELING	Charting a New Direction for Wastewater Treatment in Nunavut SMALL SYSTEMS	State-of-the-Art Sanitary Grit Treatment Facility at Gold Bar WWTP PRELIMINARY TREATMENT	An Inexpensive System for Sustainably Managing Stormwater Sediment PONDS
4:30 pm	Asset Management - From Theory to Practice ASSET MANAGEMENT	Effect of Sludge Holding Tank (SHT) on Nutrient Removal Performance of WWTPs MODELING	Leachate Treatability and Reuse Study at East Calgary Waste Management Facility, the City of Calgary NEW TECHNOLOGY	Chemically Enhanced Primary Treatment (CEPT): Design, Construction, and Operation at the Medicine Hat WWTP PRELIMINARY TREATMENT	Ice Processes on Stormwater Ponds PONDS

Room	Glen 201/Glen 202	Glen 203/Glen204	Glen 205	Glen 206	Glen 209
THURSDAY, OCTOBER 6, 2016					
8:30 am	Bonnybrook WWTP New Pumphouse and Effluent Channel Modification Construction Staging & Design CONSTRUCTION	VS or CS Pumping: Are you Considering the Right Variables? ASSET MANAGEMENT	Challenges of a GWUDI System Design: Horse Lake First Nation WTP SMALL SYSTEMS	Wastewater Infrastructure Planning for Two Major Cities in Western Canada PLANNING AND DELIVERY	State-of-the-Art of LID Monitoring: The Calgary Experience LOW IMPACT DEVELOPMENT
9:00 am	'Disinfection' Capabilities of Membrane Bioreactors (MBR) TERTIARY TREATMENT	Developing an Asset Management Framework ASSET MANAGEMENT	Financial Issues Facing Small Systems in Alberta SMALL SYSTEMS	Bonnybrook WWTP: An Overview of the 135MLD Plant D Expansion PLANNING AND DELIVERY	Lessons Learned and Successes: Bioswale Applications in Cold Climate - Edmonton LOW IMPACT DEVELOPMENT
9:30 am	Effluent Filtration Design for Phosphorous Removal at the Bonnybrook WWTP TERTIARY TREATMENT	Commissioning for Successful Turnover ASSET MANAGEMENT	Implementing Point-of-Entry (POE) in Small and Rural Communities Using A Community Circle Strategy, With Full Participation of Homeowners SMALL SYSTEMS	High Rate Ballasted Clarification of Wet Weather Flows at Winnipeg's South End WPCC PLANNING AND DELIVERY	Riparian Bioretention Buffer LOW IMPACT DEVELOPMENT
10:00	BREAK				



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THURSDAY, OCTOBER 6, 2016					
10:30 am	Selection of a Thermal Hydrolysis Process for the Bonnybrook WWTP BIOSOLIDS	Water Round Table: Distribution System Risks	Designing a Small Regional Waterworks System in Southeast Alberta: Experiences with the Town of Foremost/County of Forty Mile Water Supply SMALL SYSTEMS	The Critical Wastewater Plant Story - Asset Criticality Identification PLANNING AND DELIVERY	The City of Calgary's Riparian Action Program: Our Commitment to River and Stream Corridor Protection and Management STREAM
11:00 am	Emerging Substances of Concern in Calgary's Wastewater and Biosolids BIOSOLIDS	Water Round Table: Distribution System Risks	Treating High Turbidity Source Water from the South Saskatchewan River - Redcliff WTP Project SMALL SYSTEMS	Regina WWTP Upgrade Project - A Fast Tracked Design and Construction Approach PLANNING AND DELIVERY	Erosion and Sediment Control at Grandin Ravine and Outfall 7 in St. Albert, AB STREAM
11:30 am	Biosolids Management Plan: Lessons Learned in Edmonton BIOSOLIDS	Water Round Table: Distribution System Risks	Maximizing UV System Performance for Small Community Drinking Water Disinfection SMALL SYSTEMS	Bonnybrook WWTP Headworks Facility Upgrade PRELIMINARY TREATMENT	Bank Stabilization from Placing Rock to Restoring an Ecosystem, How Stream Bank Protection has Changed STREAM
12:00 pm	WCWEA LUNCH				
2:00 pm	Planning Our Cities, Conserving Our Water WATER DEMAND	Bonnybrook WWTP Underwater: Coping with the 2013 Flood and Developing Resiliency Measures EMERGENCY RECOVERY	Utilizing the Incident Command System (ICS) for Responding to Water Related Incidents EMERGENCY RESPONSE	Sanitary Sewer Risk Model CONVEYANCE	Apples and Oranges: Risk Based Analysis and Prioritization of Stormwater Upgrades STORMWATER PLANNING
2:30 pm	City of Calgary Water Treatment Master Plan PLANNING FOR THE FUTURE	Bonnybrook WWTP Plant D Expansion - Outfall Relocation EMERGENCY RECOVERY	37 Street Storm Trunk Relocation OTHER	Emergency Rehabilitation of the St. James Interceptor Siphon by CIPP Methods in Winnipeg, Manitoba CONVEYANCE	City of Red Deer - Integrated Rainwater Management Plan STORMWATER PLANNING
3:00 pm	BREAK				
3:30 pm	WASTEWATER ROUND TABLE: BIOSOLIDS	STORMWATER ROUND TABLE: REUSE	Benefits of a Holistic System Wide Hydraulic Transient Analysis DISTRIBUTION	Assessing the Performance of 38 Years of CIPP Installations in Winnipeg, Manitoba CONVEYANCE	Scale Troubleshooting in Sodium Hypochlorite Facility at City of Calgary WATER TREATMENT OPTIMIZATION & TECHNOLOGY
4:00 pm	WASTEWATER ROUND TABLE: BIOSOLIDS	STORMWATER ROUND TABLE: REUSE	Eliminating Confined Space Entry in Air Release Valve Chambers DISTRIBUTION	Inglewood Sanitary Trunk - Route Optimization of a Large Diameter Sanitary Trunk in Calgary's Oldest Neighbourhood CONVEYANCE	Free Chlorine to Chloramines: Challenges in Switch-Over WATER TREATMENT OPTIMIZATION & TECHNOLOGY
4:30 pm	WASTEWATER ROUND TABLE: BIOSOLIDS	STORMWATER ROUND TABLE: REUSE	Process Reliability and Efficient Operations Depend on Effective Polymer Management WATER TREATMENT OPTIMIZATION AND TECHNOLOGY	The Process of How The City of Calgary Improved Two Lift Stations to Meet a Legal Order CONVEYANCE	Impact of Hydraulic Distribution in Granular Media Filters WATER TREATMENT OPTIMIZATION & TECHNOLOGY

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Room	Glen 201/Glen 202	Glen 203/Glen204	Glen 205	Glen 206
FRIDAY, OCTOBER 7, 2016				
7:30 am	WCS AWWA Breakfast			
9:00 am	Weather Related Clarifier Upsets at the 205 ML/d Buffalo Pound WTP: A Case Study WATER TREATMENT OPTIMIZATION & TECHNOLOGY	Evaluating Parasite Occurrence In Source Waters: Preventing Bias and Erroneous Interpretation SOURCE WATER MANAGEMENT	Water Quality Strategy – River for Life WATERSHED	Efficient Tertiary Treatment Methods to Degrade Carbamazepine in Wastewater Effluents NEW TECHNOLOGY
9:30 am	Degradation of Pesticides Using a Photocatalytic LED Water Treatment System WATER TREATMENT OPTIMIZATION & TECHNOLOGY	Understanding the Impact of Planktonic Algae and Cyanobacteria on the Taste and Odour of Water from the Glenmore Reservoir SOURCE WATER MANAGEMENT	Co-operative Stormwater Management Initiative WATERSHED	Behaviour of Zinc Oxide Nanoparticles in Biosolids NEW TECHNOLOGY
10:00 am	BREAK			
10:30 am	Flood Mitigation in the City of Edmonton STORMWATER PLANNING	Assessing Wildfire Risk to Municipal Waterworks SOURCE WATER MANAGEMENT	The Integration Between Source Water Protection and Stormwater Management - Case Study: Haskayne Master Drainage Plan and Source Water Protection Study WATERSHED	The Bow River Phosphorus Management Plan: Moving from Planning to Implementation NUTRIENTS
11:00 am	Level of Service Determination in Floodplain Communities STORMWATER PLANNING	The City of Calgary's Source Watershed and Risk Characterization Study SOURCE WATER MANAGEMENT	Stormwater Runoff Monitoring in Two Small Urban Communities in Southern Alberta WATERSHED	A New Innovative Technology for Low Energy Nitrification Using Membranes NUTRIENTS
11:30 am	A 2D Direct Rainfall Analysis of Stormwater Systems in Mature Neighbourhoods STORMWATER PLANNING	Full Scale Aquifer Test Approach for High-Demand Drinking Water Project SOURCE WATER MANAGEMENT	Bioretention Facilities in Retrofit Conditions: City of Calgary Pilot Projects at Carburn and Deerfoot Parks LOW IMPACT DEVELOPMENT	WASSTRIP® Investigation at Lethbridge Wastewater Treatment Plant NUTRIENTS