

Session Colour Legend

Storm Management	Water Supply and Distribution	Water Treatment Technologies	WW Treatment Technologies
Asset Management	Waste Water Collection	WT Design, Const, Op	WW Design, Const, Op
Operations & Maintenance	Emergency Prep and Response	Water Conservation	

Wednesday, September 20, 2017				
14:00	Special Session - John Lagimondiere of Eagle Feather News			
Thursday, September 21, 2017				
7:00	WCWEA BREAKFAST (included in registration)			
8:30	Condition Assessment Framework for Stormwater Management Facilities in the City of Edmonton	Minimizing Mixing Energy in Activated Sludge Selector Basins	Treatment of High-Ammonia Well Water	Sealing and Water Reduction Strategies in Wastewater Treatment Pumping
9:00	Consideration of Climate Change in the Design of Roadway and Underground Services for a Commercial Subdivision	Using CFD to Evaluate Digester Mixing: Be Careful of What You Ask For	High-performance size exclusion chromatography (HPSEC) as an indicator for THM formation in ion-exchange applications	Town of Banff Wastewater Treatment Plant Aeration System Upgrades
9:30	Using 2D Model to Analyze Drainage Issue and Solutions for Downtown Area	Best Practices for Mixing in Biological Nutrient Removal Selector Basins	Using UV for Adenovirus treatment in Small public water systems	Regina Wastewater Plant P3: Performance Testing and Achieving Final Completion, Year 3
10:00	BREAK			
10:30	Getting ahead of the wave with water conservation	Innovative Mixing Technology to Reduce O&M Cost	UV Technology's Role in Advanced Oxidation Processes as a Barrier Against Emerging Contaminants	Ammonia Permits and Lagoons: Lake St. Martin, Manitoba's WWTF and the Options Available for Beating Limits
11:00	Fouling Mechanisms of Nanofiltration Membranes in Treatment of Manitoba Surface Waters	Elimination of Neutralization Chemicals in a Wastewater Membrane Plant	Turbidity – "A Quantum Leap in Technology"	Greywater Reclamation and Reuse for Non-food Crop Irrigation
11:30	Algal Blooms and Toxins - Management Options for Water System Operators	Operational Review of Full-scale Rich-Ammonia Wastewater Treatment Plant using the ANITA™ Mox Process	Challenges and Options when Designing a Small Potable Water System	Mixed Liquor Vacuum Degassing Technology - Principles and Its Effects on Plant Performance
12:00	WCS AWWA LUNCHEON (included in registration)			
14:00	Corrosion Control Strategies for Mitigating Lead in Edmonton's Drinking Water	Critical Infrastructure Replacement: City of Regina NPS Pump 5 Replacement	The Prince Alberta Water Supply Crisis – How the temporary water supply systems worked	The City of Calgary Water Energy Management Strategy
14:30	Piloting of Oxygen-based Forcemain Odour Control in Chestermere, AB	Stephenfield WTP Surface Water Membrane Treatment Upgrade	The Prince Alberta Water Supply Crisis – How We Treated Water from 4 Different Sources in 10 days to keep the Taps Running	Ensuring Water Quality in Developing Areas
15:00	BREAK			
15:30	Wastewater Management strategy for the Leduc food processing facility – a proactive approach to wastewater management	Impact of Adverse River Conditions on Drinking Water Treatment	The Prince Alberta Water Supply Crisis – What Went Wrong, How We Responded & What We Learned	Dundurn Rural Water Utility Phase III Potable Waterline Project
16:00	SCADA System Upgrade vs. Migration – Two Case Studies	Beat Ultra-Low Phosphorus Targets with Reactive Filtration: How Citronelle, Alabama consistently hits 20 micrograms per liter	Recovering Wastewater & Stormwater Systems Following the Fort McMurray Wildfire	City of Moose Jaw Water Main Replacement: Balancing Risks in Design and Construction
16:30	Stormwater Pollutant Load Estimates and Reduction Targets for the City of Edmonton	Solutions for Small Systems – A Case Study in Compliance, Affordability & Sustainability	A City Interrupted: A City's response to a prolonged power outage	The Superpipe: How CIPP Lining Can Maximize the Life of a Failing Watermain
Friday, September 22, 2017				
7:00	WATER FOR PEOPLE BREAKFAST (ticket purchase required)			
8:30	Using CFD to Determine How Long it Takes to Mix a Reservoir	Eliminating ammonia toxicity from lagoon effluents at temperatures as low as 1°C	Development of a flexible design concept for Membrane Bioreactors (MBRs)	Rehabilitation of Large Diameter, Non-Circular Trunk Sewers using GRP Composites in Winnipeg MB
9:00	The Future of Municipal Asset Management	Performance of a MBBR + DAF at Town of Ladysmith WWTP	Aeration Blowers and Choosing the Right Technology	A Novel Test Method for Measurement of Microbial Induced Corrosion in a Wastewater Collection System
9:30	Using Bayesian Statistics to Calibrate Deterioration Models for Public Works Infrastructure.	Paungassi Water Treatment Plant: Alternate Accelerated Schedule Delivery	Ultrafiltration and Nanofiltration to Treat Surface Water at Buffalo Narrows, SK	O&M and Life Cycle Cost Considerations for Pressure Sewers
10:00	BREAK			
10:30	Challenges and Opportunities Initiating AMI in Saskatoon	High Quality Tertiary Wastewater Filtration using Discfilter Technology	Wastewater Pump with Integrated Intelligence	The Nitty Gritty: Hauled Wastewater Receiving and Treatment in an Urban Center
11:00	Automatic Meter Reading: Moving to Monthly Billing	Closed Vessel UV, Not Just for Drinking Water	Strategies to Control THMs in Conventional Softening Plant	Sewage Lift Station Intake Design for Low Maintenance
11:30		Flocs and granules achieve two SRTs in the biological reactor		Large Diameter Cast Iron Watermain Slip Lining Rehabilitation