



Wednesday, September 18 Afternoon

	Red Deer Room (Salon 9)	Lethbridge Room (Salon 10)	Regina Room (Salon 11)	Calgary Room (Salon 12)
	Water Design & Construction	Wastewater Design & Construction	Wastewater Collection/Conveyance	Operation, Maintenance & Planning
2:00 pm	H. A. Marchildon WTP Improvements for Organics Reduction from Northern Lake Source Water <i>Monique Durand, MPE Engineering Ltd</i>	Advanced secondary treatment technology review and path forward for Gold Bar WWTP <i>Sadra Heidary-Monfared, EPCOR</i>	The New Era for Watermain Rehabilitation Using CIPP <i>Chris Macey, AECOM</i>	Strategic Practices for Addressing Drinking Water Quality Concerns from Citizen's Premises in the City of Calgary <i>Jian Fu Deng, City of Calgary</i>
2:30 pm	Enhanced Coagulation pH Adjustment to Treat High Organics <i>Jarrett McAuley, City of Red Deer</i>	St. Paul PCC Upgrade: Innovative Reuse & Repurposing of Municipal Infrastructure <i>Ivan Kagoro, MPE Engineering</i>	Predictive Modelling of Municipal Sewer Assets Condition and Developing of an Optimization Tool <i>Shaikh Islam, EPCOR</i>	Utilizing Asset Management For Water, Wastewater and Storm Infrastructure <i>Garry Leatham, Town of Fairview</i> <i>Andrew Christopher, Associated Engineering</i>
3:00 pm	Filter Maintenance, Optimization and Long Term Monitoring Program at Edmonton's Water Treatment Plants <i>Leonardo Paternina, EPCOR</i>	Meeting the Challenges of Nutrient Removal for Thompson WWTP <i>Robert De Koninck, Stantec</i>	Development and Applications of EPCOR's City Wide Sewer Models <i>Steven Chan/Roland Daa-Naa, EPCOR</i>	Improving Rural Drinking Water Level-of-Service <i>Ryan Wirsz, Associated Engineering</i>
3:30 pm	Break			
4:00 pm	West Inter Lake District Regional Water Services Commission: A case study of the long-term resiliency of regional water systems <i>Breagh Peel, Stantec</i>	I Zinc We Had a Toxic Event <i>Joe Zimmer, EPCOR</i>	Detailed Design of Clareview Sanitary Trunk Rehabilitation Phase 1 <i>Chaoshi Hu, EPCOR</i>	Why Air Quality is important in Water and Wastewater Facilities <i>Edith Asselin/Ryan Wirsz, Associated Engineering</i>
4:30 pm	Water Treatment Plant Performance Improvement for the Town of Gravelbourg, SK <i>Enisa Zanacic, SaskWater</i>	Vermilion Wastewater Treatment Facility: Cold Climate application of MBR in western Canada <i>Jason Stusick, MPE</i>	Sylvan Lake Regional Wastewater Commission Transmission Line <i>Samuel Fritz, Stantec</i>	Collection System Odour Mitigation Strategy <i>Stephen Edwini-Bonsu, EPCOR</i>

Thursday, September 19 Morning

	Red Deer Room (Salon 4)	Lethbridge Room (Salon 5/6)	Regina Room (Salon 11)	Calgary Room (Salon 12)
	Water Treatment	Wastewater Design & Planning	Stormwater	Emerging Issues
9:30 am	Biofiltration for Removing Ammonia and Iron from Groundwaters <i>Sutha Suthaker, Associated Engineering</i>	Maximizing Clarifier Capacity and Performance at the Gold Bar WWTP <i>Julian Xheko, Stantec</i> <i>Saif Molla, EPCOR</i>	Out of Sight Out of Mind- Temporary Underground Storage of Excess Sanitary Sewer Flows <i>Ron Prychitko, Armtec</i>	Climate Change Impacts on Water and Wastewater Systems in the Arctic <i>Andrew Colombo, National Research Council of Canada</i> <i>Ken Johnson, AECOM Canada Ltd.</i>
10:00 am	Going Nano- Nanotechnology in drinking g water treatment-potential future application/technical barriers <i>Mehrnaz Sadrnourmohamadi, WSP</i>	Nutrient Management: Navigating the regulatory, scientific and engineering aspects in Western Canada <i>Daniel du Toit, Associated Engineering</i> <i>Dorte Koster, Associated Environmental</i>	Stormwater Management in an Arctic City <i>Neal Cody, Stantec</i>	The Quest for Water in a Closed Basin <i>Leigh Chmilar, Urban Systems</i> <i>Rick Deans, Town of Cochrane</i>
10:30am	Pre-treatment for Membranes; Importance of Pilot Testing in Process Selection <i>Abubakar Waraich/Rudy Chan, Associated Engineering</i>	Odour Continuous Monitoring at Gold Bar Wastewater Treatment Plant <i>Camille Downs-Lanctot, EPCOR</i> <i>Ivan Rubio, Jacobs</i>	Operations and Maintenance Plan for Surface Water Management Systems within the City of Fort Saskatchewan <i>Tonderai Chakanyuka, Associated Engineering</i>	Geothermal Energy Storage Applications for Water and Wastewater Treatment on the Prairies <i>Rob Sinclair, KGS Group Consulting Engineers</i>
11:00 am	Break			
11:30 am	How high is High: Cyanobacterial bloom related Operational Challenges in Small Systems <i>Nicholai Kristel, Associated Engineering</i>	Using Online Conductivity Meter to Determine Hypochlorite Concentration for Membrane Recovery Cleans <i>Bing Lin, EPCOR</i>	Managing Multiple Flood Risks in a Floodplain Community <i>Nadeer Lalji, Associated Engineering</i> <i>Brad Larson, City of Calgary</i>	Water and Fire: Impacts of Wildfire on Drinking Water Quality and Treatability <i>Jesse Skwaruk, University of Waterloo</i>
12:00 pm	Using Microfiltration Membranes to Simplify your Treatment Process <i>Don Burgess, DWG Process</i>	In-Plant Wastewater Reuse Systems: The Next Best Thing or Impractical Concept? <i>Jessica MacDonald, Stantec</i> <i>Saif Molla, EPCOR</i>	Stormwater Management Performance of Bioretention <i>Xiangfei Li, EPCOR</i>	Oil in the River: Water Treatment Plant Resiliency Planning <i>Theresa Luby, Stantec</i> <i>Lucas Storey, Saskatoon Water</i>



WCW19 September 17 – 20, 2019 Edmonton AB

Thursday, September 19 Afternoon

	Red Deer Room (Salon 4)	Lethbridge Room (Salon 5/6)	Regina Room (Salon 11)	Calgary Room (Salon 12)
	Water	Wastewater Treatment	Stormwater	Wastewater Collection/Conveyance
2:00 pm	Lead Corrosion Control Framework for the City of Dauphin <i>Lisa Winning/Charlie Ulloa, AECOM</i>	Membrane Aerated Biofilm Reactors (MABR): a practical perspective on a developing technology <i>Jose R. Bicudo, Associated Engineering</i>	Implementation of an Integrated Resource Planning approach for Stormwater Management in Edmonton <i>Albert Kwan, EPCOR</i>	How to Bypass The Entire Flow Of The 3rd Largest WWTP In Alberta <i>Cory Pepper/Megan Olive Alberta Capital Region Wastewater Commission</i>
2:30 pm	Reducing Lead at the Customer's Tap Following Full Lead Service Line Replacements: Practical Guidance for Utilities <i>Jeff Charrois, EPCOR</i>	Two things you should know about grit removal, but probably don't <i>Chris Howarth, Veolia</i>	Protecting the Calgary Zoo from the Next Big Flood and How Best To Do It? <i>Cory Lukacs, ISL Engineering</i>	Climate Change Adaptation Planning for Stormwater and Wastewater Collection Infrastructure in Metro Vancouver <i>Juraj M. Cunderlik, GHD</i>
3:00 pm	Managing Taste and Odour during the Spring Runoff Season in Edmonton <i>Wendell James, EPCOR</i>	Old, Hydraulically Challenged WW Pump Station Revitalized to Meet Future Resiliency and Efficiency Requirements <i>Eric Gaudet, Associated Engineering</i>	Safety Inspections of Stormwater Management Facilities <i>Camille Chalifoux, Stantec</i>	Understanding Odour Generation and Control Strategies in Wastewater Collection Systems <i>Art. Garcia, Kleinfelder</i>
3:30 pm	Break			
4:00 pm	The Mayhem of Retrofits: Structural Repairs for an Old Reservoir (City of Wetaskiwin Garden Meadows Reservoir) <i>Elizabeth DeVries, M2 Engineering</i>	Guiding Principles for the Start-Up of an Anaerobic Sludge Digester based on Dynamic Simulations <i>Alex Munoz, Stantec</i>	EPCOR Drainage Total Loading Strategy <i>Liliana Malesevic, EPCOR</i>	Overview and Analysis of Chemical-Based Control Technologies for Sulfide-Induced Sewer Corrosion and Odour Production <i>Olugbenga Ibikunle, Stantec</i>
4:30 pm	Water Source Vulnerability Assessments On Reserve <i>Taylor Swailes, Urban Systems Ltd</i>	Improving Mixed Liquor Settleability with Vacuum Degasification <i>Mike Hunter, Jacobs</i>	Blackmud/Whitemud Creek Surface Water Management Study <i>Akinbola George, Associated Engineering</i>	Development of a Code of Practice to Manage Solids from Sewer Flushing Activities <i>Wade Teveniuk, Alberta Capital Region Wastewater Commission</i>

Friday, September 20 Morning

	Red Deer Room (Salon 4)	Lethbridge Room (Salon 5/6)	Regina Room (Salon 11)	Calgary Room (Salon 12)
	Operation, Maintenance & Planning	Wastewater Design & Planning	Dist, Trans, Collec	Operation, Maintenance & Planning
9:00 am	The Scientific Role of Water Quality Data in Supporting Utility Decision Making within the City of Calgary <i>Jian Fu Deng, City of Calgary</i>	Tuktoyaktuk NT Sewage Lagoon - System Performance and Remedial Work <i>Michel Lanteigne/Ken Johnson, AECOM</i>	Watermain CIPP Lining <i>Jeremy Charlesworth, City of Lethbridge</i> <i>Eden McKaigue, Fer-Pal Infrastructure</i>	Emergency Drinking Water Supply Planning for the Edmonton Region <i>Heather Zarski/Ryna Brideau-Thombs, EPCOR</i>
9:30 am	Balancing Customer Affordability and Utility Financial Viability <i>Dean Downey/Natasha Wice, Leduc County</i>	Nutrients in Municipal Wastewaters- Overview and Treatment <i>Sava Nedic, Kleinfelder</i>	Advances in pipeline inspection tools for municipal mains <i>David Russell, PICA</i>	An Innovative Approach to Chemical Handling and Safety at Water and Wastewater Treatment Plants <i>Nicola Lewin, EPCOR</i>
10:00 am	If it bleeds? We can drain it. Ensuring the safety of hazardous isolations <i>Curt Budden, EPCOR</i>	Ammonia Permits and Lagoons: First Nations Communities and the Options Available for Beating Nutrient Limits <i>Tanner Devlin, Nexom</i>	A Solid Solution for Internal Reinstatement of Services in CIPP Lined Water Mains <i>Angie Martyshuk, Aegion</i>	Industrial Plastics Pollution: An Emerging Issue in Calgary Waterways <i>Nicole Newton, City of Calgary</i>
10:30 am	Break			
	Water	Wastewater	Distribution, Trans, Collection	Operation, Maintenance & Planning
11:00 am	Feasibility Study: Pilot-scale Comparison of Catalytic Filter Media for Manganese Removal from Surface Water <i>Sandeep Raja Dangeti/Babk Roshani, Delco Water</i>	Passive Filtration for Phosphorus Removal: Achieving Target Effluent Limits for Phosphorus Using a Natural Systems Approach <i>Charlie Pogue, Dillon</i>	The Theory and Reality of Modernizing Calgary's Distribution Monitoring Program <i>Norma J Ruecker, City of Calgary</i>	Solving SCADA Challenges with Design Considerations <i>Zane Spencer, MPE</i>
11:30 am	Fifteen Years Experience in Biological Filtration for Pre-treatment in for Membrane Demineralization Applications <i>Shengtao Weng, Associated Engineering</i>	Kimmitut, Nunavut: Wastewater Planning Study <i>Ken Johnson, AECOM</i> <i>Sarah Ali, Government of Nunavut</i>	Ending Boil Water Advisories in Enoch Cree Nation <i>Vincent LaHaye, AECOM</i>	Strategies to provide 100% Opportunity on Water Projects and the complete removal of Boil Water Advisories <i>Gary Bosgoed, Bosgoed Project Consultants</i>
12:00 pm	Managing Rejection: How Physical Plant Design Contributes to Reducing Membrane Life <i>Ken Robinson, Avista Technologies</i>	Removal of Viral Contaminants Using a Novel Treatment Technology: The Advanced Oxidation System <i>Laura Patterson-Fortin, BioLargo Water</i>	Temporary and Modular Water Transfer Systems <i>Rana Elbittibssi, Xylem</i>	Solving Problems Before They Happen: Unlocking Benefits of a Wastewater Research and Demo Facility <i>Kevin Frankowski, ACWA</i> <i>Myron Moore, Stack'd Consultants</i>