SUNDAY	, NOVEMBER 4				
12:00	Early Registration (Foyer)				
12:00	Smart Water Networks Workshop				
6:30 - 8:30	Opening Reception – Hôtel Bonaventure Montréal (Salon Ville- Marie)				
pm	Enjoy networking and socializing with old friends and new				
	SPONSORED BY EPCOR				
MONDA	Y, NOVEMBER 5				
7:30 am	Breakfast (St-Laurent 2) and Registration (Foyer)				
	BREAKFAST SPONSORED BY RESPONSIBLE CHOICE				
8:30 am	OPENING PLENARY				
	SPONSORED BY THE GOVERNMENT OF QUÉBEC				
Room	Montréal Ballroom 4/5				
	Welcome from Diana Qing Tao, CWWA President				
	Welcome from Mr. Sylvain Ouellet, Vice-president of Executive Committee at the City of Montréal Welcome from Chantal Morissette, Montreal Water (confirmed)				
	Logistics from Robert Haller				
	Introduce EPCOR speaker and thank for sponsoring Sunday Night (speaker to be named)				
	EPCOR to introduce keynote speaker				
	KEVALOTE CDE AKED				
	KEYNOTE SPEAKER				
	STEPHEN SZUCS - GETTING TO THE POINT In a world of invisible problems this presentation will explore methods to engage society and create waves of change.				
	ABOUT STEVE				

Recognizing our global need to transition to sustainable practices, Stephen founded SustainableJoes as a passion project in 2013.

Since inception, Stephen has lived off-grid, zero waste, cycled across the continent, produced a sustainability focused documentary, developed sustainable products, and created a sustainability centric podcast; all in an effort to empower 'Everyday Joes' (Joseph & Joanne) to take meaningful action when it comes to sustainability

10:00 am	Refreshment Break (St-Laure	nt 2)			
10:30 am	A1 - BIOSOLIDS	A2- WATERSHED PROTECTION	A3 – BEST PRACTICE PROGRAMS OF NATIONAL INTEREST	A4- WATER CONSERVATION	A5 - WATER SECTOR CYBER SECURITY
Room	Montréal 3	Montréal 6	Montréal 5	Montréal 4	St-Laurent 5/6
	Moderator: Michael Payne, Black Lake Environmental Biosolids Management in	Moderator: Yves Comeau, Ecole Polytechnique Moving Towards	Moderator: Diana Qing Tao, Tetra Tech The First Nations	(simultaneous translation) Moderator: Mary Ann	Moderator: Ryan Hunt, Public Safety Canada WaterISAC: A Water
	Circular Economy: Lessons	Autonomous Online	Infrastructure Resilience	Dickinson, AWE	Security Partnership and
	From Around the World	Monitoring of E. coli for	Toolkit: Development,		Resource
	Banu Ormeci, Carleton	Source Water Protection:	Application and Capacity	A Revolutionary New	Michael Arceneaux,
	University	The Link with	Building	Approach to Pipe Leak	WaterISAC (USA)
	Leveraging IAP2 Training	Hydrometeorology, Catchment Characteristics,	-Guy Felio, Stantec	Detection and Location Jon Crowther and Van Hao	Overview of National
	for Community	Pathogens and	Manitoba Drought	Nguyen, Sensor UK	Critical Infrastructure and
	Engagement in Biosolids Management	Micropollutants in Drinking Water Supplies	Management Strategy on the PVWC Regional Water	An Update on AWE	Cyber Security Initiatives and Potential Application
	Sarah Mason-Renton,	Jean-Baptiste Burnet,	System	Activities: WaterSense,	for the Water Sector
	Lystek International Inc.	Polytechnique Montréal	Jeff O'Driscoll, Associated	Report Card	Ryan Hunt, Public Safety
			Engineering and Greg	Mary Ann Dickinson,	Canada
	Brown to Green: A	Advances in Microbial	Archibald, Pembina Valley	Alliance for Water	
	Reclamation Success Story	Source Tracking for	Water Cooperative	Efficiency	Securing the SCADA
	Michael Payne, Black Lake	Comparative Assessment of			Interconnect:
	Environmental	Wastewater, Cattle, and	Reports and Perspectives	Quebec Water Efficiency	Implementing
		Seagull Fecal	Learned from Performance	Strategy and a Comparison	Cybersecurity After the
		Contamination in the Great	Audits of Local	with North American	Assessment
		Lakes and St. Lawrence	Government's Role in	Results (presented in	Bob George, TetraTech
		River	Ensuring Clean Drinking	French)	
		Tom Edge, Environment	Water in B.C.	Mathieu Laneuville and	
		and Climate Change Canada	Lori Berndt, BC Auditor General for Local	Pierre-Olivier-Kwemi,	
		Calidud	Government	Ministry of Municipal Affairs	
		False Negative E. coli	Government	(eligible Phillip H. Jones	
		Results in Drinking and		Award)	
		Recreational Water			

		Colin Fricker,			
		CRFConsulting			
12:00 pm	Lunch (St-Laurent 2)				
1:30 pm	B1 - BIOSOLIDS	B2 - WASTEWATER TREATMENT RESEARCH	B3 - SMALL COMMUNITIES AND FIRST NATIONS CHALLENGES	B4 - THE NEW WORKFORCE — DIVERSITY, INCLUSIVITY, YOUTH (simultaneous translation)	B5 - POLICIES AND STANDARDS AS TOOLS FOR RISK MITIGATION
Room	Montréal 3	Montréal 6	Montréal 5	Montréal 4	St-Laurent 5/6
	Moderator: Michael Payne, Black Lake Environmental Third Party Agronomic Trials Evaluate Biosolids-Derived Biofertilizer for Corn Production Mike Dougherty, Lystek International Inc. Project Evaluation Using an Objectives-Based Approach to Promote Community Engagement: A Biosolids Case Study Sabrina Stanlake-Wong, Dillon Consulting LTD The Canadian Biosolids Network: A Cooperative Future Michael Payne, Black Lake Environmental	Moderator: Elsayed Elbeshbishy, Ryerson University Wastewater Treatment Upgrade in St. Thomas, Ontario: NPV Analysis Finds 40% in Cost Savings Rick Mosher, Lystek International Inc, Struvite Reduction in Canadian WWTP Bill Carroll, HydroFLOW Canada Wastewater Treatment Plant Efficient Management at the Age of IloT Technology/Industry 4.0 Harold Wagenknecht, Kaeser Compressors Canada	Moderator: O.S., Thirunavukkarasu, Water Security Agency Trihalomethanes in Water Treatment Plants and Distribution Systems in Three First Nation Communities in Manitoba, Canada Geethani Amarawansha, University of Manitoba (eligible Phillip H. Jones Award) Indigenous Services Canada and Clean Drinking Water for First Nations Nelson Ferguson, Indigenous Services Canada Assembly of First Nations — Programs Update Caleb Z. Behn, Assembly of First Nations	Moderator: Nadia Koukui, CAWQ and IWA Young Professional Panelists: Nadia Koukui, CAWQ and IWA Young Professional Christine Hill, Cole Engineering Kalpna Solanki, Environmental Operators Certification Program Sam Berton, Ontario Clean Water Agency	Moderator: Natalia Moudrak, Intact Centre Report on Climate Change Policy Development in the 50 States and how it is Affecting the Water and Wastewater Industry Mary Ann Dickinson Alliance for Water Efficiency Flood Resilient Design Guidelines: New and Existing Communities in Canada Natalia Moudrak, Intact Centre on Climate Adaptation (eligible Phillip H. Jones Award) Policy, Legal and Liability Issues related to Stormwater and Climate Change Joanna Kyriazis,

3:00 pm	Refreshment Break (St-Laure	ent 2)	SPONSORED BY IDEXX		Zizzo Strategy (eligible Phillip H. Jones Award)
	C1 - DRINKING WATER CONTAMINANTS	C2 - WASTEWATER TREATMENT RESEARCH	C3 - WATER AND ENERGY EFFICIENCY - INNOVATIVE THINKING	C4 - REGULATIONS IN THE WATER SECTOR (simultaneous translation)	C5 - MUNICIPAL PLANNING FOR CLIMATE CHANGE
Room	Montréal 3	Montréal 6	Montréal 5	Montréal 4	St-Laurent 5/6
3:30 pm	Moderator: Klas Ohman, Associated Engineering Occurrence of UCMR Chemicals in Drinking Water Materials and Chemicals Kathryn Foster, NSF	Moderator - Yves Comeau, Polytechnique Montreal Simultaneous Treatment of Leachates and Landfill Gas (CH4) by a Passive Biofiltration Process Well Adapted for Nordic Regions	Moderator: Rebecca Dziedzic, AECOM Water Reuse Opportunities in the ICI Sector Lloyd Hipel, Enviro- Stewards Inc and Bill Chihata, York Region	Moderator – Caroline Sanchez-Valero, Reseau Environnement La protection des sources d'eau potable au Québec Philippe Grégoire, Ministère du	Moderator: Hiran Sandanyake, City of Ottawa Stormwater Integrated Resource Planning: EPCOR's Approach to Stormwater Management in Edmonton
	International DBPs in Drinking Water- Formation, Fate and Treatment O.S., Thirunavukkarasu, Water Security Agency Cyanobacteria Cell	Rino Dubé, Centre de recherche Industrielle du Québec Energy-Efficient Wastewater Treatment In a Horizontal Flow Bioelectrochemical Anaerobic System	York Region Water Reuse Research Demonstration Project Theresa MacIntyre-Morris, York Region Energy Neutrality for the Whole Water Cycle and	Développement durable, de l'Environnement et de la Lutte contre les changements climatiques (eligible Phillip H. Jones Award)	Progressive Water Management Strategies in Support of a Progressive Planning Process Ron Scheckenberger, Wood and Arun Hindupur, City of Guelph
	Accumulations and Cyanotoxins in Low-Risk Drinking Water Treatment Plants Husein Almuhtaram, University of Toronto (eligible Phillip H. Jones Award)	Boris Tartakovsky, National Research Council Canada Development of a 'Next- Generation' Nitrification Inhibition Assay using a Diverse Microorganism Soft Sensor Technology	High-Water Efficiency Mads Warming, Danfoss VLT Drives A/S An Analysis of the Benefits of Water Efficiency Infrastructure Investments to the National Economy	émergent dans l'eau potable au Québec : principaux suivis réalisés par le Ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatiques	Innovative Solution for Urban Flood Mitigation: Planning, Monitoring, Control and Forecasting Diana Qing Tao, Tetra Tech Storm Warts: The Floods Awaken – A New Hope for

Room	Montréal 3	Montréal 6	Montréal 5	Montréal 4	St-Laurent 5/6
		CONTAMINANTS	SOLUTIONS		SOLUTIONS
		EMERGING	MANAGEMENT		INDUSTRIAL IOT
	DRINKING WATER	AND SLUDGE –	WASTEWATER	PARTNERSHIPS	RESPONSES AND SAFE
	D1 - LEAD IN	D2 - WASTEWATER	D3 - INNOVATIVE	D4 - PUBLIC PRIVATE	D5 - EMERGENCY
7.30 dili					
7:30 am	Breakfast (St-Laurent 2) and	Registration (Fover)			
THESDA	Y, NOVEMBER 6	ee.	aa.	inchitis off fire start is happy to	5p
Evening		•	•	erine Street there are many uni clients. CWWA staff is happy t	
6:00 pm	CAWQ Annual General Meet		alal Manuturkal, to Source of College	oin - Church the	anna dining anti-co Mic
6:00 pm	CWWA Annual General Meet				
5:30 pm	Power Hour (St-Laurent 2)				
				Marie-Claude Besner, City of Montréal, Service de l'eau	
				Experience	
				Water Protection: The Ottawa And Montréal	
				Approaches For Source	
				and Quebec Regulatory	
		Award)		Comparison of the Ontario	
		(eligible Phillip H. Jones		changements climatiques	
		University of Ottawa		Lutte contre les	
		Warsama Ahmed,		de l'Environnement et de la	
		temperature and cold- shock		Donald Ellis, Ministère du Développement durable,	
		and exposure to low		distribution d'eau potable	
	University	municipal concentrations		pour les petits systèmes de	
	and Hend Salem, McGill	performance at elevated		Outils d'accompagnement	
	Phillip H. Jones Award)	biofilm reactor		changements chinatiques	
	Treatment Process Claire Gibson (eligible	Nitrifying moving bed		Lutte contre les changements climatiques	Markham
	the Drinking Water	Award)		l'Environnement et de la	Robert Muir, City of
	Resistant Escherichia coli in	(eligible Phillip H. Jones	Efficiency	durable, de	Infrastructure
	Peak Events on Antibiotic	University	Alliance for Water	du Développement	in Flood Management
	Assessing the Impact of	Patrick Morkus, McMaster	Mary Ann Dickinson,	Anouka Bolduc, Ministère	Cost-Effective Investment

8:30 am					
	Moderator: Klas Ohman, Associated Engineering	Moderator: Aaron Boulton- Chaykowski, City of Calgary	Moderator: Ed von Euw, Metro Vancouver	Moderator: Nancy Kodousek, Region of	Moderator: Bradley Cooper, City of Ottawa
	Testing Orthophosphate as a Corrosion Inhibitor for Managing Lead in Edmonton's Drinking Water Wendell James, EPCOR Water Services Evaluating Drinking Water Lead Sampling Protocols and Proposed Regulations Sheldon Masters, Corona	Effects of Chlorine, Peracetic Acid and UV Disinfection on Antibiotic Resistant E. Coli Isolates in Wastewater Cameron Macdonell, Carleton University (eligible Phillip H. Jones Award) Monitoring Chemical	Wastewater to Wheels to Wings Paul Kadota, Metro Vancouver and Kel Coulson, Parkland Fuel Corporation Development of Evidence- Based, Risk-Informed Asset Management Strategy for the Region of Peel	P3s for Municipal Water and Wastewater: What's Happened and What's Next Chris Baisley, Deloitte LLP PPPs in Water Projects: Experiences, Pitfalls and Benefits from 2 Different Projects Quentin Olivier, BESIX	Advancing Water Utilities with Safe and Secure Industrial IoT Solutions Goran Novkovic. City of Toronto Wood Buffalo in Recovery: A Threat, A Hug, and a Conversation Dana Woodworth. Associated Engineering
	Environmental Consulting & ESPRI (eligible Phillip H. Jones Award) Detection and Replacement of Lead	Substances in Canadian Municipal Wastewater Shirley Anne Smyth, Environment and Climate Change Canada	Wastewater Collection System Edgar Tovilla, Region of Peel and Peiyuan Lin, Ryerson University How "Intelligent" is our	EPCOR Regina Wastewater Treatment Plant Upgrade Project: A Successful Example of a P3 to Design, Build, Finance, Operate and Maintain	Wildfire Response: Fort McMurray Water Management & Recovery Efforts Steven Justus. Associated
	Service Lines in the City of Montréal Alicia Bannier and Manli Joelle Chen, City of Montréal (eligible Phillip H. Jones Award)	Development and Application of a Novel Approach to Remove Contaminants of Emerging Concerns from Wastewaters Muhammad Faizan Khan, University of Calgary (eligible Phillip H. Jones Award)	Wastewater System? Toronto's Journey Toward Better Management of Sensors and Data Emily Zegers, City of Toronto	Vicki Campbell, EPCOR Saskatchewan Operations	Engineering
10:00 am	Refreshment Break (St-Laure	nt 2)			
	E1 - LEAD IN DRINKING WATER	E2 - WASTEWATER AND SLUDGE — EMERGING CONTAMINANTS	E3 - WASTEWATER MANAGEMENT	E4 - EXCELLENCE IN UTILITY MANAGEMENT	E5 - RISK AND RESILIENCE IN WATER SUPPLY AND DISTRIBUTION
Room	Montréal 3	Montréal 6	Montréal 5	Montréal 4	St-Laurent 5/6
10:30 am					

Gre Wo Get Lea	ederator: Michele enier, Ontario Water orks Association t the Lead Out: Lessons arned from the Early ys of Implementing a	Moderator -Banu Ormeci, Carleton University Prediction for Chemical Removal Rate in Activated Sludge Plants Jesse Shen, Environment	Moderator: Emily Zegers, Toronto Water The City of Wilmington Sewer Shed Management Story: Long Term Control Planning, Real Time Control	Workshop being led by Valerie Jenkinson, CEO, World Water & Wastewater Solutions Ltd. This Workshop will give an overview of the	Moderator: Heather Zarski, Epcor Environmentally Responsible Practices and Processes of CIPP Watermain Rehabilitation
Serv Prog Reid War		and Climate Change Canada Supercritical Water Oxidation for Sludge Treatment and Removal of	System Implementation and Hydraulic Detailed Modeling with 2-D Capabilities Luc Robitaille, Tetra Tech	AWWA/WEF developed EUM program and its relevance in Canada as a powerful set of tools for operational improvement and leadership	Geoff Britnell FER-PAL Infrastructure (eligible Phillip H. Jones Award)
Rep Con Util Seq Elisc Poly Lea in S Buil Exp Eve Poly (elig	pact of Lead Service Line placements and insumer Exposure in 6 lities Using Results from quential Sampling is Deshommes, ytechnique Montréal and Copper Sampling Schools and Large Idings: Implications for posure and Regulations elyne Doré, ytechnique Montréal gible Phillip H. Jones parado	Emerging Compounds Banu Ormeci, Carleton University Psychrophilic Anaerobic Digestion of Ozone Pre- treated Waste Activated Sludge Xuan Lin, McGill University (eligible Phillip H. Jones Award)	The Good Story Behind Montréal Flushgate that you Never Heard About: How Montréal Manages its Interceptor Tunnels Martin Pleau, Tetra Tech Grand River Watershed- wide Wastewater Optimization Program Status Component: 5 Years of Successes and Challenges Kelly Hagan, Grand River Conservation Authority	development.	Developing a Water Quality Master Plan to Guide Future Upgrades at Union Water Vincent Laplante, Associated Engineering (eligible Phillip H. Jones Award) and Rodney Bouchard, Union Water Supply System Assessing the Vulnerability of Water Supply Networks to Climate Change: A Methodological Guide Katherine Pineault Ouranos
12:00 pm Lun	nch (St-Laurent 2)				
AN PR	- LABORATORY ID ANALYTICAL ACTICES	RESILIENCE	F3 - MANAGING YOUR IN GROUND INFRASTRUCTURE	OPTIMIZATION	F5 - SUSTAINABLE ADAPTATION APPROACHES
Room Moi 1:30 pm	ontréal 3	Montréal 6	Montréal 5	Montréal 4	St-Laurent 5/6

3:00 pm	Moderator: Laurent Laroche, Ville de Montreal Microbiology Laboratories: Tips for Successful Audits Patsy Root, IDEXX Microbial Non-Detects: How they Should be Reported and Why it Matters Alex Ho Shing Chik, University of Waterloo (eligible Phillip H. Jones Award) Flow Cytometric Virus Enumeration: Simple, Or is it? Elena Dlusskaya, University of Alberta Mitigating Risk to your Water Utility with ISO/IEC 17025:2017 Andrew Adams, Canadian Association for Laboratory Accreditation Refreshment Break (St-Laure	Moderator: Qing Zhang, EPCOR Measuring the Resilience of Canadian Water Systems Rebecca Dziedzic, AECOM Case Study: Modelling Transients Using InfoSurge Emma Thompson, C3 Water Inc (eligible Phillip H. Jones Award) The Economics of Water Loss Dewi Rogers, iWED Ltd.	Moderator: Clayton Tiedemann, EPCOR How Critical are your Pipes? Sam Ziemann, C3 Water The Future of a Sustainable Water Infrastructure: Utilizing Life Cycle Assessment for a Comparative Analysis of Pipe Materials Tad Radzinski, Sustainable Solutions Corporation An Overview of a Pipeline Condition Assessment Program, From Program Inception to First Results: City of Saskatoon Mike Garaci, Pure Technologies and Stephen Wood, City of Saskatoon	Moderator: Benoit Barbeau, École Polytechnique du Montréal How to Excel in Water Utilities Operation? Results from 15 Years of Optimization Alain Lalumière, Réseau Environnement Facility Performance and Resiliency through Optimization Sangeeta Chopra, Ontario Clean Water Agency Drinking Water Network Optimization of Montreal Jean Lamarre, Ville de Montréal	Moderator: Susan Ancel, Epcor Risk and Return on Investment Tool for Water Infrastructure Amna Tariq, Credit Valley Conservation Authority and Emma Hartnett, Risk Sciences International Bridging the Gap between Asset Management and Climate Change Aman Singh and Akeel Ali, GHD A City-wide Flood Risk Profile Bradley Cooper and Hiran Sandanayake City of Ottawa
2	G1 - STANDARDS	G2 - WATER	G3 - WATER	G4 - FACILITY	G5 - CYBER SECURITY
	31 31/11/D/11/D3	TREATMENT	CONSERVATION	OPTIMIZATION	S SIBERISESSIAITI
		RESEARCH	PROGRAMS		
Room	Montréal 3	Montréal 6	Montréal 5	Montréal 4	St-Laurent 5/6
3:30 pm		<u>Moderator</u> : Mathieu Laneuville, Ministère des	Moderator: Aaron Boulton- Chaykowski, City of Calgary	Moderator: Vicki Campbell, Epcor	Cyber Security and the Water Sector

Moderator: Roland Richard, Atlantic Canada Water Works Association

Is There Value in Creating and Establishing a Municipal Wastewater and Stormwater Environmental Management Standard? Edgar Tovilla and Kernaghan Webb, Ryerson University

Environmental Technology Verification (ETV): Protecting Canadians, our Resources and the Environment Through Innovation

Christine Scott, Standards Council of Canada

Non-Sewered Sanitation
Devices: A New ISO
Standard for the
Reinvented Toilet
Edward Osann, Natural
Resources Defense Council
and Roland Richard,
CWWA

Facility Classification Models: An Update from BC Kalpna Solanki, Christine

Scott, Standards Council of

Affaires municipales et de l'Occupation du territoire (Québec)

A System-Specific, Critical Control Point-Based Approach for Managing the Risk of Pathogen Passage Through Chemically-Assisted Filtration Processes in Toronto Kristina M. Lee, University of Waterloo

A Longitudinal Look at a
Sustainable Disinfection
Technology Using Stabilized
Hydrogen Peroxide for
Aging Drinking Water
Infrastructure
Yamuna Vadasarukkai,
SanEcoTec Ltd
(eligible Phillip H. Jones
Award)

Assessing the Risks of Pipeline Spills on Drinking Water Intakes: The Case Study of 27 Canadian Drinking Water Intakes Michèle Prevost, Polytechnique Montreal The Beginning of an Ontario Municipality's Evolution to Water Loss Management

Fabian Papa and Deepak Panjwani, HydraTek & Associates

Water for the New Normal: Water Use Restrictions and Climate-sensitive Water Demand Trajectories in Canadian Cities Sara Finley, University of Waterloo

Water Conservation on the "Wet" Coast: An Innovative and Collaborative Approach to Updating Metro Vancouver's Watering Restrictions Colwyn Sunderland, KERR WOOD LEIDAL, Nermine Tawfik and Nimet Alibhai, Metro Vancouver

Right-Sizing Edmonton's Design Standards due to Declining Water Demands Heather Zarski, Epcor Transforming Water
Infrastructure Through
Actionable "Smart" Insights
R. Mark Palmer and Eric
Palmer, GREENLAND
International - Consulting
Engineers

Smart Utility 2.0: Application of Real Time Control to Optimize Your System

Diana Qing Tao, Tetra Tech

Optimization of Capital Program Delivery

Nancy Koudusek, Regional Municipality of Waterloo and Sandra MacGillvary, Valency Inc. Mark Fabro. LoftyPerch

TABLE TOP EXERCISE

An interactive facilitated discussion hosted by Public Safety Canada to explore the collaborative GC/CI response to a cyber security incident affecting the water sector Robert Pitcher. Public Safety Canada

7:00 pm Fun Night

Canada

Fun Night at Times Supper Club! Join us for a fun evening of networking Montreal style! From Montreal cuisine, including hors d'oeuvres to smoked meat and poutine to the most amazing entertainment by Quebec's renowned Painchaud Family, this will be a night to remember! The show itself starts at 9:00 p.m., so be sure to stay to see their amazing talent. Dress is comfortable casual. Located just 3 blocks away at 887 St. Jacques St., it is an easy 5 minute walk. Please see the conference app for directions.

SPONSORED BY GRANDE WATER MANAGEMENT SYSTEMS AND TETRA TECH

WEDNESDAY, NOVEMBER 7

VVEDIVI	WEDNESDAY, NOVEMBER /						
7:30 am	Registration (Foyer) and Brea	akfast (St-Laurent 2)					
	H1 - LEGIONELLA AND	H2 - WATER	H3 - STORMWATER	H4 -			
	COOLING TOWERS	RESEARCH	MANAGEMENT	COMMUNICATING TO			
	COOLING TOWERS	RESEARCH	MANAGEMENT				
				THE PUBLIC			
Room	Montréal 3	Montréal 6	St-Laurent 5/6	Montréal 4/5			
8:30 am	Wiontrears	Wiontreard	St Eddient 3/ 0	Wiontical 4/3			
0.50 am	Moderator: Patsy Root,	Moderator: Viviane	Moderator: Ed von Euw,	Moderator – Todd Latham,			
	Idexx	Yargeau, McGill University	Metro Vancouver	Publisher, Water Canada			
				magazine			
	Effective Routine	Hybrid Hollow Fibre NF-	Smart Blue Roof				
	Monitoring to Manage	Calcite Contactor as a Point	Applicability in the IC&I	Panelists:			
	Legionnaires' Disease	of Entry Treatment Method	Sector for Climate Change				
	Reduction	to Remove Mn, Fe,	Adaptation	Adam Krantz, National			
	Patsy Root, IDEXX	Hardness and NOM from	Bernadeta Szmudrowska,	Association of Clean Water			
		Domestic Groundwater	Credit Valley Conservation	Agencies			
	Metagenome Sequencing	Supplies	Authority				
	Reveals a Cooling Tower's	Benoit Barbeau,	(eligible Phillip H. Jones	Liana Kreamer, Canadian			
	Microbiota Restricting the	Polytechnique de Montréal	Award)	Water Network			
	Growth of Legionella						
	pneumophila	Photocatalytic degradation	Eastgate Park Underground	Evan Pilkington, BlueW			
	Sebastien Faucher, McGill	using functionalized TiO2	Stormwater Management				
	University	nanoparticles with	Facility	Pierre Béland, Aqua			
		Graphene under UV-LED	Mark Bassingthwaite, Cole	Hacking			
	Legionella pneumophila	illumination: Optimization	Engineering Group Ltd and				
	and the Microbial	using response surface	Vivek Sharma, ADS Pipe				
	Composition of Cooling	methodology	Canada				
	Towers in Quebec, Canada	Azar Fattahi, University of					
	Kiran Paranjape, McGill	Waterloo	Biogenic Sulfide Production				
	University		in Stormwater Retention				

	(eligible Phillip H. Jones Award)	(eligible Phillip H. Jones Award) Water Conservation and Pipe Materials Type Influence DBP Formation, Corrosion and Disinfectant Decay Sheldon Masters, Corona Environmental Consulting & ESPRI (eligible Phillip H. Jones Award)	Ponds: Causes, Effects and Remediation Options Patrick D'Aoust, University of Ottawa (eligible Phillip H. Jones Award)		
10:00 am	Refreshment Break (St-Laure	nt 2)			
	I1 - LEGIONELLA AND COOLING TOWERS	I2 - WASTEWATER TREATMENT RESEARCH	I3 - WASTEWATER MANAGEMENT	I4 - SUSTAINABILITY AND PRICING	
Room	Montréal 3	Montréal 6	St-Laurent 5/6	Montréal 4/5	
	Moderator: Patsy Root, Idexx Impact of Premise	Moderator: Qing Zhang, EPCOR Characterization of	Moderator: Paul Drca, City of Windsor Bridging the Gaps between	Moderator: Colwyn Sunderland, Kerr Wood Leidal	
	Plumbing Commissioning	Extracellular Polymeric	Design and Operation of	Only the Pipes Should be	
	Procedure on Microbial and Chemical Water	Substances (EPS) in a Submerged Aerobic	Wastewater Treatment Plants for Effective	Hidden Jonathon Arnold, Ecofiscal	
	Quality in Large Buildings	Granular Sludge Membrane	Nitrogen Removal	Commission	
	Emilie Bédard, École Polytechnique Montréal	Bioreactor (AGMBR) Oliver Iorhemen, University	Jianping(John) Zhang, Ontario Clean Water	(eligible Phillip H. Jones Award)	
	1 Styteethingue Worthean	of Calgary	Agency	, wara j	
	Study of the Dynamics of L.			Balancing the Books:	
	pneumophila Colonization of a Model Cooling Towers	Integrating Ozonation with Lagoon Treatment to	Integrating a Fault Detection Method in a	Financial Sustainability for Canadian Water Systems	
	in Relationship with	Improve Wastewater	Monitoring System for	Bu Lam, Canadian Water	
	Resident Microbiota	Quality	Wastewater Quality	Network	

		Adriana Torres Paniagua, McGill University (eligible Phillip H. Jones Award) A Comparison Study of the Growth of Opportunistic Pathogens in Two Drinking Water Systems Jennifer Clancy, ESPRI	Beauregard Schlageter, McGill University (eligible Phillip H. Jones Award) Control Implementation Matters: Discovery and Correction of Poorly Implemented DO Control Leads to Greater Process Stability and Less Risk John Copp, Primodal Inc	Romain Philippe, Université Laval/modelEAU (eligible Phillip H. Jones Award) Small Wastewater Plant with no Redundancy: What Do You Do? Case Study: The Azilda WWTP Chris George, R.V. Anderson Associates Limited and Akli Ben- Anteur, Greater Sudbury	Using Better Data to Address Climate Change Infrastructure Vulnerabilities Tyler Sutton, Public Sector Digest (eligible Phillip H. Jones Award) It's Not Just Math: How Water Rates Drive Policy and Shape Your Community's Future Kirk Stinchcombe, Econics Panel Discussion	
12:00 pm Lunch (Montréal 4/5)	12:00 pm	Lunch (Montréal 4/5)				

Carl Yates, General Manager, Halifax Water

David Duckworth, General Manager, Calgary Water

Annette Kopec, Manager, Capital Programming & Facility Asset Planning, Toronto Water