

Agenda – 1st Virtual CAWQ conference (July 23-24, 2020)

Day 1: Thursday, July 23, 2020

Time	Activity	Title	Speakers	Moderator
10:00 am – 12:00 pm	Webinar (1)	Community-based water monitoring	Alex Webb Emma Wattie	Alex Webb Emma Wattie
1:00 pm – 2:00 pm	Webinar (2)	River-ice jams and its impact on the ecosystem	Sanyal Palash	Salomeh Chegini
3:00 pm – 4:00 pm	Panel Discussion	Globalization empowered by digitalization	Dr. Art Umble Dr. Mehran Andalib Dr. Domenico Santoro Dr. Peter Vanrolleghem	Farokh laqa Kakar

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Day 2: Friday, July 24, 2020

9:30 am - 9:55 am	Welcome Address		
10:00 am - 10:40 am	Keynote Speaker “New” Resource Recovery from Wastewater through Advancement of Bioelectrochemical Systems Prof. Zhen (Jason) He, Washington University in St. Louis, USA		
Time	Session (1): Water Quality and Treatment Chair: Dr. Nicolás Peleato; Co-Chair: Shaghayegh Goudarzi	Session (2): Emerging Contaminants Chair: Dr. Heather L. Buckley Co-Chair: Shabir Razavi	Session (3): Wastewater Treatment Chair: Dr. Ahmed Eldyasti Co-Chair: Ehssan Koupaie
10:45 am - 11:05 am	Invited Speaker Release of Chloride in permeable pavement effluent from winter deicers: Concentrations, duration and opportunities to reduce our usage of road salt (Dr. Jennifer Drake, University of Toronto)	Invited Speaker Degradation of a broad spectrum of emerging contaminants by an enzymatic membrane bioreactor: Complementary role of membrane retention and enzymatic degradation (Dr. Faisal Hai, University of Wollongong)	Dried aerobic granules for fast start-up of aerobic granular sludge reactors, (Dr. Rania Hamza, Ryerson University)
11:10 am - 11:25 am	Model Transfer for Cross-Source Rapid Detection of Polycyclic Aromatic Hydrocarbons and Pesticides using Fluorescence Spectroscopy (Ziyu Li, University of British Columbia)	Conventional and Biological Treatment for the Removal of Microplastics from Drinking Water (Michael Mckie, University of Toronto)	Aerobic Granular Sludge (AGS) for the Treatment of Industrial Wastewater (Victoria Onyedibe, Ryerson University)
11:30 am - 11:45 am	High priority unregulated disinfection byproducts characterization for wastewater reuse: nanogram per litre level quantification for treated wastewater matrices (Alejandro Ortega-Hernandez, University of Calgary)	Selective and user-friendly devices to monitor water for emerging contaminants (Fereshteh Shahhoseini, Memorial University)	Electroless nickel plating wastewater is a major source of soluble non-reactive phosphorus (sNRP) to the St. Paul, MN, Metropolitan WWTP (Walter Atkins, Metropolitan Council Environmental Services)
11:45 am - 12:00 pm	A low-cost household graphitized sand filter to produce Microcystin-LR free water (Pratik Kumar, Universite du Quebec)	Early detection and monitoring of potentially toxic Cyanobacteria using derivative spectrophotometry (Amitesh Malhotra, Carleton University)	Mechanistic and kinetic study on greywater treatment using biologically active granular activated carbon (Ahmed Sharaf, University of Alberta)
12:05 pm - 12:20 pm	Fabricated superhydrophobic and superoleophilic membrane, a useful strategy for separating oil from water (Seyedabbas Rasouli, Memorial University)	Heteroaggregation of MoS ₂ nanosheets with naturally occurring clay colloids in aqueous environments: probing the influence of dimensionality and electrostatics (Indu Venu Sabaraya, University of Texas)	Ammonia Separation from Wastewater Using Bipolar Membrane Electrodialysis (Mariam Mohammadi, McMaster University)
12:20 pm - 12:50 pm	Lunch break		

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	Session (4): Water Quality and Treatment Chair: Dr. Baiyu (Helen) Zhang Co-Chair: Weiyun Lin	Session (5): Emerging Contaminants Chair: Dr. Bing Chen Co-Chair: Basem Reda	Session (6): Wastewater Treatment Chair: Ehssan Koupaie Co-Chair: Dr. Rania Hamza
12:50 pm - 1:10 pm	Invited Speaker Synergy between Microwave Radiation and Silver for Inactivation of Legionella pneumophila (Dr. Navid Saleh, University of Texas at Austin)	Invited Speaker Cyanotoxins: Trailing Treatments (Prof. Satinder K. Brar, York University)	Removal of pharmaceutical drugs from wastewater in a batch aerobic suspended-growth bioreactor (Dr. Mohamad Hamoda, Kuwait University)
1:15 pm - 1:30 pm	Water Sensor for Testing Fluoride Concentrations in Groundwater to Improve Drinking Water Quality in Developing Countries (Caitlin Vail, University of Victoria)	Estrogen biosensor and self-assembling catalytic biofilms for detection and removal of emerging contaminants from wastewater (Daniel Nucifora, Western University)	The Effect of Microplastic Properties on Membrane Filtration Performance in Municipal Wastewater Treatment (Ryan Larue, McMaster University)
1:35 pm - 1:50 pm	Green technology: At the cutting edge of drinking water security for Rural, Remote, and Marginalized (RRM) communities (Emma A J Blackburn, University of Waterloo)	Gene expression of Pseudomonas strains triggered by p-xylene spill in groundwater (Saba Miri, York University)	Microbial Population Dynamics of Anammox Micro-Granular Consortium (Parin Izadi, York University)
1:55 pm - 2:10 pm	Python Script to Optimize Sensor for Detection of Fluoride Concentrations in Groundwater (Sydney M. Hoffman, University of Victoria)	A novel hybrid (AO/MEBR) system to remove emerging contaminants and organic matter from water and effluent (Sasan Fazeli, Concordia University)	Assessment of the effective width of riparian buffer strips to reduce suspended sediment in an agricultural landscape using ANFIS and SWAT models (Andre St-Hilaire, Universite du Quebec)
2:15 pm - 2:30 pm	Average log-reduction isn't all that average: Correcting the mistake of averaging log-reduction values in drinking water treatment decisions and risk analysis (Philip J. Schmidt, University of Waterloo)	Water Quality and Copper Pinhole Leaks (John Gibson, University of Toronto)	Importance of controlling phosphate concentration in nitrification–anammox reactor operation (Sen Yang, University of Alberta)
2:30 pm - 2:45 pm	Break (1)		

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	Session (7): Water Quality and Treatment Chair: Dr. Banu Ormeci Co-Chair: Basem Reda	Session (8): Water Quality and Treatment Chair: Mr. Lywood, Mike Co-Chair: Anum Khan	Session (9): Anaerobic Digestion Chair: Dr. Rania Hamza Co-Chair: Basem Haroun
2:45 pm - 3:00 pm	The Evaluation of Polarity Reversal as a Means of Mitigating Fouling in Electrocoagulation (Heline Chow, University of Waterloo)	Protecting Canada's Fresh Water: Creating a Canada Water Agency (Michael Goffin, Environment and Climate Change Canada in Ontario)	Assessment of various sludge digester processes for organic matter, trace contaminants of emerging concern, and recalcitrant nutrient removals (Timothy Abbott, UBC)
3:05 pm - 3:20 pm	Investigation of microbial load and antibiotic resistance genes in water from source to different water distribution systems in First Nation communities, Manitoba, Canada (Sabrin Bashar, University of Manitoba)	Mitigating Biofouling on Reverse Osmosis Membranes via Greener Preservatives (Anna Curtin, University of Victoria)	The Effect of pH and Hydraulic Retention Time on Production of Volatile Fatty Acids from Primary Sludge Anaerobic Fermentation (Umme Hyder, Ryerson University)
3:25 pm - 3:40 pm	Young water and governance professionals: challenges of the digital age (Ana Hafemann, AGIR Water Supply and Sanitation Regulatory Agency and Regulatory Agency for Water)	Evaluation of Coagulant/Disinfectant Water Treatment Products (Leigh Borrett, University of Victoria)	Technoeconomic evaluation of the integration of primary sludge fermentation and anaerobic digestion of residual solids (Gholamreza Bahreini, Western University)
3:45 pm - 4:00 pm	Real-time prediction of microbial water quality using Bayesian Belief Network (Atefeh Aliashrafi, UBC)	Scaling Problems in Electrodialysis Fed with Liquid Digestate (Hui Guo, McMaster University)	Improving production of methane from thickened waste activated sludge using FNA-heat pre-treatment (Salomeh Chegini, Ryerson University)
4:00 pm - 4:15 pm	Break (2)		

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One Slide 3 min presentations Chair: Dr. Bipro Dhar, Co-Chair: Basem Reda	
4:15 pm - 5:25 pm	Microplastic Pollution in Wastewater Treatment Plants (Victoria Onyedibe, Ryerson University)
	Occurrences and Effects of Perfluoroalkyl Substances in Wastewater Effluents (Malik Abamecha, Ryerson University)
	Evaluation of the impacts of pharmaceuticals in wastewater (Oluwatosin Aladekoyi, Ryerson University)
	Effect of Chemically Enhanced Primary Treatment (CEPT) technique using lime/bittern on Tannery Wastewater (Abir Hamze, Ryerson University)
	Removal of Carcinogenic Aromatic Amines Through Decolorization of Real Textile Wastewater under Anoxic-Aerobic Membrane Bioreactor (Ahmed Albahnasawi, Gebze Technical University)
	Effect of Substrates Concentrations on Aerobic Biotransformation of 6:2 Fluorotelomer Sulfonate (6:2 FTS) in Landfill Leachate (Hanna Hamid, University of British Columbia)
	Biomethane recovery in high rate co-digestion of blackwater and food waste (Mengjiao Gao, University of Alberta)
	Impacts of Lignin Addition on Methane Emissions from Oil Sands Tailings Pond (Nesma M. E. Allam, University of Alberta)
	Investigating the feasibility of biomethane production from aquaponics-derived fish sludge (Amir Abbas Bazyar, Ryerson University)
	Evaluation of Biomethane Production by Anaerobic Co-digestion of Thickened Waste Activated Sludge with Source Separated Organics and Manure (Anahita Rabii, Ryerson University)
	Free Nitrous Acid Pretreatment Impact on Anaerobic Digestion of TWAS (Frances Okoye, Ryerson University)
	Treatability of Greywater in Microbial Electrochemical Cells (Mayank Dhadwal, University of Alberta)
	Biofilm Growth models towards anti-fouling desalination membranes (Andrew Philip Freiburger, University of Victoria)
	Drinking Water Intake Vulnerability Index: A Case Study of a highly urbanized River Basin Located in Greater Montreal Area (Raja Kammoun, École Polytechnique de Montréal)
	Surveillance of Drinking Water in First Nation Communities: Resistome Occurrence of Bacteria and Antibiotic Resistance Genes (Anita Murdock, University of Manitoba)
	Biofilm Removal, a Green Solution: Alternative Chemical Agents for Treating Reverse Osmosis Membranes (Matthew Thibodeau, University of Victoria)
Assessment of Atrazine and Arsenic Levels in Drinking Water Sources of Nova Scotia Southwestern Region, Canada (Nora Benachour, Université Sainte-Anne)	
Optimization and Resource Recovery at the Chatham Water Pollution Control Plant (Emmanuelle Caws, University of Victoria)	
In-situ microbiological challenge testing of point-of-use water treatment devices: yeast as a protozoan surrogate (Camille Zimmer, University of Victoria)	
Optimization of Electronic Hardware in Development of a Handheld Water Sensor for Testing Fluoride Concentrations (Ethan Chan, University of Victoria)	
5:25 pm - 5:35 pm	Break (3)
5:35 pm - 6:00 pm	Closing remarks, Lucky draw, and Awards' recipient's announcement