

Agenda – 56th Virtual Central CAWQ conference (March 24-25, 2021)

Day 1: Wednesday, March 24, 2021

Time	Activity	Title	Speakers	Moderator
10:00 am – 12:00 pm	Webinar	Harnessing Membrane Aerated Biofilm Technology: Conventional Wastewater Plant Retrofit vs New Process Development	Dr. Martha Dagnev	Ahmed Shabir
2:00 pm – 4:00 pm	Panel Discussion	Pandemic & Wastewater Facilities	Nitti Subramamiam Christine Hill Kirby Oudekerk	Farokh laqa Kakar, Sylvie Spraakman
4:30 pm – 5:30 pm	CAWQ Annual General Meeting (AGM) (Everyone is invited)			

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Day 2: Thursday, March 25, 2021

9:30 am - 9:55 am	Welcome Address		
10:00 am - 10:40 am	Keynote Speaker 1 Enhancing wastewater sludge management by advanced digestion Dr. Zhiguo Yuan, University of Queensland		
Time	Session 1: Water Quality and Treatment Chair: Stephanie Gora Co-chair: Shaghayegh (Shaya) Goudarzi	Session 2: Wastewater Treatment Chair: Rasha Maal-Bared Co-chair: Ahmad Shabir Razavi	Session 3: Energy Chair: Ahmed Eldyasti Co-chair: Victoria Onyedibe
10:45 am - 11:05 am	Invited Speaker 1 Machine Learning for Water Management DR. DEWEY DUNNINGTON <i>Department of Fisheries and Oceans</i>	Performance of an industrial wastewater treatment plant receiving wastewaters from various sources Dr. Mohammad HAMODA <i>Kuwait University</i>	Invited Speaker 2 Psychrophilic Anaerobic Digestion of Complex Substrates: Insight into the Start-up Dr. Noori Saady <i>Memorial University of Newfoundland</i>
11:10 am - 11:25 am	Polar organic chemical integrative sampler for compound specific isotope analysis of substituted chlorobenzenes (S. SUCHANA, <i>University of Toronto</i>)	The Effects of Lime/Bittern Coagulation on treating Tannery Wastewater (Abir Hamze, <i>Ryerson University</i>)	Modeling Ammonia and Acetic Acid inhibition in Anaerobic Digestion (H. GUO, <i>McMaster University</i>)
11:30 am - 11:45 am	Recovery of Rare Earth Elements from Aqueous Solution Using Algal Biomass (N. CARUNUNGAN, <i>University of Toronto</i>)	Laboratory and field scale biodegradability assessment of biocomposite cellphone cases for end of life management (H. DILAWAR, <i>University of British Columbia</i>)	Biomethane Recovery Potential from Anaerobic Digestion of Industrial Organic Wastes: Effect of Substrate Type and Substrate to Inoculum Ratio (Ahmed EL SAYED, <i>Ryerson University</i>)
11:50 am - 12:05 pm	Whole Cell Biofilm Model of Photodynamic Inactivation (A. FREIBURGER, <i>University of Victoria</i>)	Emerging Contaminant PFAS in Municipal Landfill Leachate (M. HASNINE, <i>University of Manitoba</i>)	Effect of acid pretreated carbon cloth on anaerobic digestion of municipal sludge (V. KUMAR, <i>University of British Columbia</i>)
12:10 pm - 12:25 pm	UV/chlorine and UV/H ₂ O ₂ comparison: insights into the path length factor (T. CHEN, <i>University of Toronto</i>)	Fate of five pharmaceuticals and personal care products (PPCPs) in municipal biosolids before and after alkaline and thermal hydrolysis treatment (J. Li, <i>Western University</i>)	Effects of food to microorganism ratio and percolate recirculation time on high-solids anaerobic digestion of organic solid waste (Wafa Dastyar, <i>University of Alberta</i>)
12:25 pm - 12:50 pm	Lunch Break		

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	Session 4: Wastewater Treatment Chair: Zhiwen Zhu Co-chair: Palash Ranjan Sanyal	Session 5: Wastewater Treatment Chair: Latif Abdalrhman Co-chair: Abir Hamze	Session 6: Wastewater Treatment Chair: Bipro Dhar Co-chair: Salomeh Chegini
12:50pm - 1:05pm	Electrolytic treatment of textile bio-refractory wastewater: Optimization using response surface methodology (A. ASSÉMIAN, <i>Institut National Polytechnique Houphouët-Boigny (INP-HB)</i>)	Quantifying the Effect of Membrane Pore Size on the Filtration of Municipal Wastewater Containing Microplastic Particles (R. LARUE, <i>McMaster University</i>)	Wastewater carbon management using Alternating Activated Adsorption (AAA) system (Ahmed Alsayed, <i>York University</i>)
1:10 pm - 1:25 pm	Life Cycle Assessment of a Community-Based Wastewater Treatment and Resource Recovery System: Sewage Heat Recovery and MBR for Water Reuse (Ludwig Paul B. Cabling, <i>University of Alberta</i>)	Simultaneous Nutrients Biological Removal Biotechnology Using Intermittent Aeration Mechanism (P. IZADI, <i>York University</i>)	Development of partial nitrification using ultra-low dissolved oxygen concentrations (Momen Soliman, <i>York University</i>)
1:30 pm - 1:45 pm	Comprehensive model study on the competition between PHA-accumulators and non PHA-accumulators during the feast-famine enrichment (A. AMER, <i>McMaster University</i>)	Secondary treatment of landfill leachate by vertical treatment wetlands (E. Shively, <i>Polytechnique Montréal</i>)	Effect of Thermochemical Pre-treatment on solubilization and methane production from TWAS (Salomeh Chegini, <i>Ryerson University</i>)
1:45 pm - 2:00 pm	Break 1		

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2:00 pm - 2:40 pm	Keynote Speaker (2) Emerging DBPs: New discoveries, potential risks, and promising solutions Dr. Susan Richardson, University of South Carolina		
	Session 7: Water Quality and Microplastics Chair: Livia Li Co-chair: Basem Zakaria	Session 8: Water Quality and Treatment Chair: Langping Wu Co-chair: Shaghayegh (Shaya) Goudarzi	Session 9: Wastewater Treatment Chair: Claire Oswald Co-chair: Sadaf Mehrabi
2:45 pm - 3:05 pm	Invited Speaker 3 Plastic contaminants in northern fulmars (Fulmarus glacialis) and black-legged kittiwakes (Rissa tridactyla) from the Canadian High Arctic DR. ROXANA SÜHRING <i>Ryerson University</i>	Invited Speaker 4 Is Granular Filtration System a Way Forward for a Sustainable Drinking Water Treatment Plant? SATINDER K. BRAR AND PRATIK KUMAR <i>York University</i>	Invited Speaker 5 Too Much of a Good Thing: Operational Experience with Digester Failure and Recovery DAVE D. ELLIS <i>Azura Associates International Waterloo</i>
3:05 pm - 3:20 pm	Microplastics degradation using hydrolytic enzymes (A. ELSAYED, <i>McMaster University</i>)	Long-term trends of flows and total phosphorus levels of tributaries in the region of the Lake Simcoe watershed. (E. O'CONNOR, <i>LSRCA</i>)	Investigating the effect of anaerobic digestion on dewatering of pulp and paper mill biosludge with Crown-Press dry solids and water-binding strength estimation (Sergio Luna Nino, <i>University of Toronto</i>)
3:25 pm - 3:40 pm	Efficiency of a bioretention cell for microplastics removal from stormwater (K. SMYTH, <i>University of Toronto</i>)	Potential Climate Change Impacts on Boil Water Advisories in Canada (S. MOGHADDAM-GHADIMI, <i>York University</i>)	Experience with seasonal characteristics and resource recovery of source-separated organics (SSO) from the city of Toronto (Amir Lakeh, <i>Ryerson University</i>)
3:45 pm - 4:00 pm	New Iodine-based Electrochemical Advanced Oxidation System for Water Disinfection: Are Disinfection By-products a Concern? (C. VERWOLD, <i>University of Calgary</i>)	Improving Water Treatment and Supply Through Ontology-Supported Asset Management (M. KATSUMI, <i>University of Toronto</i>)	Co-Digestion of Thermally Pretreated Thickened Waste Activated Sludge and Food Waste (Amr Ismail, <i>Western University</i>)
4:00 pm - 4:15 pm	Break 2		

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One Slide 3 Minute Presentations	
Chair: Rania Hamza, Co-chair: Sylvie Spraakman	
4:15 pm - 5:00 pm	Adsorption of pyrene and trihalomethanes on polyethylene microplastics in aqueous solution Y. LI, University of Toronto
	Predicting Drinking Water Advisories in First Nations Communities Using Artificial Neural Networks C. LARSON, York University
	Combined chemical conditioning anaerobically digested sludge for improvement of dewatering Umme Hyder, Ryerson University
	Biological dephosphatation for the recovery of phosphorus from agro-food wastewater by the aerobic granular sludge process M. MORA GUERRERO, <i>École Polytechnique de Montréal</i>
	Comparison of Anoxic/Aerobic and Aerobic Sequential Bath Reactors in Textile Wastewater Treatment A. ALBAHNASAWI, <i>Gebze Technical University, Turkey</i>
	Removal of Metformin from Water by Adsorption M. EYVAZ, <i>Gebze Technical University, Turkey</i>
	Investigation of the phototransformation mechanisms of benzotriazole in surface waters using compound-specific isotope analysis L. WU, <i>University of Toronto</i>
	Removal of Per- and polyfluoroalkyl substances during wastewater treatment Z ILIEVA, <i>Ryerson University</i>
	Development of multilayers Membrane Bioreactors using Carbon Nanotube Blended Nanofibrous via Electrospinning Process E JAHAN, <i>York University</i>
	Contribution of Hydroxylamine on the Anammox Micro-Granular Bioreactor P IZADI, <i>York University</i>
Identification and Classification of Microplastic Particles Using Machine Learning Algorithms S. TAN, <i>University of Toronto</i>	
5:00 pm - 5:20 pm	Break 3
5:20 pm - 5:40 pm	Closing remarks, lucky draw, and awards recipients announcement