

Monday, April 4, 2022 (Agenda)

Registration and Breakfast (8:00 am – 8:45 am) ELC Schulich Private Dining Room			
8:45 am - 9:10 am	Welcome Address	Dr. Ahmed Eldyasti, Conference Chair, Dr. Dan Palermo, Chair, Department of Civil Engineering, York University Mr. Mike Lywood, CAWQ president Mrs. Farokh L. Kakar, IWA YWP President	
Opening Activity and Keynote Speaker - ELC X106			
9:15 am – 10:15 am	<p>Dr. Stephanie Gora INTERACTIVE WATER SAFETY ACTIVITY WITH THE AUDIENCE</p> <p>Dr. Syed Imran Ali (Dahdaleh Institute of Global Health Research) UNLOCKING LIFE-PRESERVING INFORMATION FROM ROUTINE WATER QUALITY MONITORING</p>		
Break (10:15 am – 10:30 am)			
Time	Session (1): Wastewater Technology I ELC X106 Co-chairs: Dr. Parnian Izadi and Shabir Razavi	Session (2): Wastewater Technology II ELC X211 Co-chairs: Dr. Ahmed Eldyasti and Rama Pulicharla	Session (3): Water Quality and Treatment ELC Schulich Private Dining Room Co-chairs: Dr. Stephanie Gora and Md Annadduzaman
10:30 - 10:45 am	<p>AN INTERMITTENT ENERGIZATION STRATEGY FOR IMPROVEMENT OF DIRECT INTERSPECIES ELECTRON TRANSFER IN A MICROBIAL ELECTROLYSIS CELL ASSISTED ANAEROBIC DIGESTER</p> <p>Basem Zakaria, Bipro Dhar</p>	<p>TREATMENT OF GREYWATER BY OXYGEN BASED MEMBRANE BIOFILM BIOREACTOR: EXPERIMENTAL AND MODELING STUDY</p> <p>Mostafa Khalil, Yang Liu, Peter Vanrolleghem, Yun Zhou</p>	<p>BIOCHAR TYPE, PARTICLE SIZE, AND VEGETATION INFLUENCE LEACHATE WATER QUALITY FROM A GREEN ROOF SUBSTRATE</p> <p>Wenxi Liao, Jennifer Drake, Sean C. Thomas</p>

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10:45 - 11:00 am	<p>CORRELATION BETWEEN DEVELOPMENT AND CALIBRATION OF A BIOWIN PROCESS MODEL TO EVALUATE TREATMENT ALTERNATIVES FOR PROCESS INTENSIFICATION</p> <p>Fatima-zahra Ezzahraoui, Rania Hamza</p>	<p>IMPACT OF NANOSCALE ZERO-VALENT IRON AND NANO-IRON POWDER ON THE VOLATILE FATTY ACIDS RECOVERY THROUGH DARK FERMENTATION</p> <p>Abir Hamze, Bipro Dhar, Elsayed Elbeshbishy</p>	<p>MULTI-ELEMENT COMPOUND SPECIFIC ISOTOPE ANALYSIS REVEALS AEROBIC BIODEGRADATION OF 2,3-DICHLOROANILINE AT A COMPLEX SITE</p> <p>Shamsunnahar Suchana, Elodie Passeport</p>
11:00 - 11:15 am	<p>MODELLING ANAEROBIC DIGESTION MICROBIAL COMMUNITY GROWTH RATE USING COBRAPY TOOLBOX</p> <p>Maryam Ghazizade Fard, Sonia Battista, Ehssan Koupaie</p>	<p>METHANE YIELD IN A SEMI CONTINUOUS STUDY FOR CO-DIGESTED PRIMARY SLUDGE AND THICKENED WASTE ACTIVATED SLUDGE IN A MUNICIPAL WASTEWATER PLANT</p> <p>Hassan Mahdi, Elsayed Elbeshbishy</p>	<p>NUTRIENT CONTENT OF GREEN ROOF SUBSTRATE AS AFFECTED BY BIOCHAR AND VEGETATION</p> <p>Virinder Sidhu, Wenxi Liao, Liat Margolis, Marney Isaac, Sean Thomas, Jennifer Drake</p>
11:15 – 11:30 am	<p>EFFECT OF COMBINED CHEMICALS CONDITIONING ON ANAEROBIC DIGESTATE DEWATERABILITY</p> <p>Umme Sharmeen Hyder, Elsayed Elbeshbishy</p>	<p>SONOLYSIS OF MUNICIPAL SOLID WASTES BY LOW-FREQUENCY ULTRASOUND AS PRETREATMENT FOR ENHANCED BIOMETHANE PRODUCTION</p> <p>Arshad Hashmi, Farokh Laqa Kakar, Amir Bazyar, Elsayed Elbeshbishy</p>	<p>DESIGN OF EXPERIMENT FOR LAB-SCALE OILY WATER FITRATION SYSTEM USING SURFACE ENGINEERED FOAMS</p> <p>Jordan Bouchard and Amy Bilton</p>

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11:30 – 11:45 am	A REVIEW OF RECENT ADVANCES ON FATE OF CORONAVIRUSES IN WASTEWATER AND WASTEWATER TREATMENT PLANT Kaiyu Zhang, Ehssan	PROCESS OPTIMIZATION OF COMBINED PRE-TREATMENT OF THICKENED WASTE ACTIVATED SLUDGE TO INCREASE BIOGAS PRODUCTION Salomeh Chegini, Elsayed Elbeshbishy	COMPARATIVE ASSESSMENT OF RIGHT-OF-WAY STORMWATER MANAGEMENT PRACTICES Keval Vejani, Darko Joksimovic
11:45 – 12:00 pm	IMULATING WASTEWATER TREATMENT PLANTS USING ARTIFICIAL INTELLIGENCE Mohamed Sherif Zaghoul, Gopal Achari	COMPARING SAMPLING METHODS FOR WASTEWATER MONITORING OF SARS-COV-2 AND VARIANTS OF CONCERN Alexandra Tsitouras	ASSESSMENT OF GRANULAR ACTIVATED CARBON FILTER ADSORBERS TO REDUCE PFAS EMISSIONS FROM MUNICIPAL WASTEWATER TREATMENT PLANTS Soroosh Mortazavian and Ron Hofmann
12:00 – 12:15 pm	INVESTIGATING THE EFFECT OF TRACE METAL SALTS IN WOOD HYDROLYSATE ON LIPID ACCUMULATION ABILITY OF RHODOSPORIDIUM TORULOIDES-1588 Rahul Saini, Carlos Gonzalez, Krishnamoorthy Hegde, Satinder Brar, Pierre Vezina	EXTRACELLULAR POLYMERIC SUBSTANCES AND ANTIBIOTICS RESISTANCE GENES IN ANAEROBIC DIGESTION OF THERMALLY HYDROLYZED SEWAGE SLUDGE Nervana Haffiez, S.M. Mirsoleimani Azizi, B.S. Zakaria, B.R. Dhar	

Monday, April 4, 2022 (Agenda)

Lunch (12:15 pm – 1:30 pm) – ELC Main Dining Room	
12:30 – 1:30 pm	Annual General Meeting for CAWQ (ELC Schulich Private Dining Room)
Keynote Speaker 2 – ELC X106	
1:30– 2:00 pm	Linda Li, MSc, PEng: Dillon Consulting Limited Contributing to World Water Development as a Canadian Consulting Young Professional
Panel Discussion – ELC X106	
2:00– 3:30 pm	Dr. Kati Bell: Vice President And Director of Water Strategy for Brown and Caldwell Dr. Howie Honeyman: Chief Executive Officer & President, Forward Water Technologies Dr. Satinder K. Brar: Professor and James and Joanne Love Chair in Environmental Engineering, York University Mike Lywood: President of CAWQ, Principal Water Services Engineer. Wood Environment & Infrastructure Solutions Farokh Laqa Kakar: PhD Candidate at Ryerson University (Host)
Break (3:30 pm – 4:00 pm)	

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3MT Competition (4:00 – 5:00 pm) ELC X106 (Co-chairs Ahmed Eldyasti and Hayat Reza)	
ELECTRO-MEMBRANE BIOREACTOR FOR THE TREATMENT OF LANDFILL LEACHATE	Oumaima El-hachimi, Jean-François Blais, Patrick Drogui, Dany Alphard
FOULING CONTROL IN ULTRAFILTRATION OF SKIMMED MILK SOLUTION USING IN-SITU ULTRASONIC SURFACE CLEANING	Masoume Ehsani, Ning Zhu, Huu Doan
EFFICIENT CARBON MANAGEMENT USING THE ALTERNATING ACTIVATED ADSORPTION (AAA) SYSTEM	Ahmed Mahmoud, Moomen Soliman, Ahmed Eldyasti
Monitoring green roof performance using low-cost image sensor	Afsana Alam Akhie, Darko Joksimovic
NOVEL NOB OUT-SELECTION USING A KINETIC-BASED ADAPTATION STRATEGY	Moomen Soliman, Ahmed Mahmoud, Ahmed Eldyasti
THE EFFECTS OF EXTERNAL CONDUCTIVE MATTERS ON THE MICROBIAL COMMUNITIES OF THE ANAEROBIC DIGESTION PROCESS	Julia O'Reilly, Ehssan Koupaie
PERSISTENT, MOBILE, AND TOXIC PLASTIC ADDITIVES IN CANADA: PROPERTIES AND PRIORITIZATION	Eric Fries, Tanjot Grewal, Dr. Roxana Sühning
EFFECT OF FREE NITROUS ACID PRE-TREATMENT ON BIOGAS PRODUCTION AT LOW EXPOSURE TIMES	Salomeh Chegini, Elsayed Elbeshbishy
ENERGY AND RELIABILITY ANALYSIS OF WASTEWATER TREATMENT PLANTS IN SMALL COMMUNITIES IN ONTARIO	Mohammad Elassar, Mohamed Hamoda, Rania Hamza
Isolation, identification and characterisation of thermophilic and thermotolerant PHA producing bacteria using waste feedstocks: an insight into the extremophiles	Shraddha Chavan, Bhoomika Yadav, R.D. Tyagi, Patrick Drogui
EPS production and application for landfill leachate treatment (combining with electrochemical treatment)	R. TYAGI, P. DROGUI, A. ATMAKURI
Closing Remarks and Student Awards (5:00 - 5:30 pm) ELC X106	
Social/Networking (7:00 - 9:30 pm) ELC Schulich Private Dining Room	

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