38th EASTERN CANADIAN SYMPOSIUM on Water Quality Research

Concordia University, Montreal

October 16
IWA YWP Canada Workshop (1 PM to 5 PM)
October 17
Symposium (Full Day)

VENUE
Concordia University – EV Building,
1515 Saint-Catherine Street West,
Montreal, Quebec H3G 2W1

SYMPOSIUM THEMES
Water Quality and Pollution
Water and Wastewater Treatment
Aquatic Environments
Water Resources Management
Water Facing Climate Change
Water Policy, Governance, Health

Official Website

Program & Abstract Book

cawqconcordia2025.ca

Welcome Message

Dear Colleagues,

We are delighted to welcome you to the Canadian Association on Water Quality (CAWQ) 38th Eastern Canadian Symposium on Water Quality Research, taking place on October 16–17, 2025, in Montreal, Canada. The symposium is co-hosted by the Canadian Association on Water Quality (CAWQ), Concordia University, and the International Water Association Young Water Professionals (IWA-YWP) Canada.

This symposium brings together professionals from across the water quality research and management community to share the latest advancements and innovations in science, engineering, and policy. Our goal is to promote the exchange of knowledge for the public good in Canada while fostering collaboration among universities, consultants, industry, and government agencies.

We look forward to seeing you at Concordia in Montreal this October!

Chunjiang An (Symposium Co-Chair)
Associate Professor, Ph.D., P.Eng.
Concordia Research Chair
Department of Building, Civil, and Environmental Engineering
Concordia University, Canada

Maria Elektorowicz (Symposium Co-Chair)
Professor, Ph.D., ing., FCSCE
Department of Building, Civil, and Environmental Engineering
Concordia University, Canada

Concordia University

Concordia

We're a next-generation university, continually reimagining the future of higher education. Located in the vibrant and multicultural city of Montreal, Concordia is the top-ranked university in North America founded within the last 50 years and annually registers some 51,000 students through its innovative approach to experiential learning and cross-functional research.


UNIVERSITÉ
Concordia
UNIVERSITY
GINA CODY
SCHOOL OF ENGINEERING
AND COMPUTER SCIENCE
GINA CODY SCHOOL OF ENGINEERING
AND COMPUTER SCIENCE
ÉCOLE DE GÉNIE
ET D'INFORMATIQUE
GINA-CODY
Discovery starts here
La découverte commence ici

CAWQ
ACQE

Canadian Association on Water Quality

Our missions

- Promote research on the scientific, technological, legal, economic, and policy aspects of water quality and of the control and treatment of water pollution
- Further the exchange of information and practical application of such research for the public benefit
- Promote the goals and objectives of the International Water Association (IWA) in Canada

Dr. Baiyu (Helen) Zhang
PRESIDENT

More information

I highly recommend that students in the field of water consider joining this amazing group. Doing so can help them build a robust network of professionals. Attending events and gaining more knowledge about the industry can significantly contribute to the development of a successful career in the future.

Young Canadian Water Leaders

IWA YOUNG WATER PROFESSIONALS CANADA

IWA-YWP Canada has played a pivotal role in enriching my YWP journey. The organization not only provided a platform to collaborate with leaders but also fostered an environment of continuous learning. More importantly, the connections made within the team and during events have evolved into lasting friendships.

Who We Are?

We are an inclusive, forward-thinking, and supportive community for all early-career professionals, researchers, and students in Canada focusing on fields related to water and working in the water sector.

Website
www.iwa-ywp.ca

LinkedIn
IWA-YWP Canada

Instagram
ywp_canada

WHY JOIN IWA YWP CANADA?

GROW YOUR NETWORK

Establish, grow, and maintain a strong, highquality & multi-disciplinary network with IWA Young Water Professionals!

PROFESSIONAL DEVELOPMENT

Get the opportunities, join IWA YWP events and reach many resources to improve your professional development!

JOIN EVENTS & ACTIVITIES

Join conferences, seminars, webinars and workshops organized by IWA & IWA YWP Canada!

WOULD YOU LIKE TO JOIN OUR VOLUNTEER TEAM?

IWA YWP Canada is run by volunteers from across Canada.

Provide your motivations and goals to join the YWP Canada Chapter and **apply now!**

Keynote Speakers

Dr. Caterina Valeo

Fellow of Engineers Canada; PEng;
Professor, Department of Mechanical Engineering, University of Victoria

Keynote Speech
Oct. 17 / 09:15 EDT / 2nd floor- Room EV 2.260

Climate Change Impacts on Water Quality of Inland Waters: Role of Hydraulic Retention Time

Abstract: The impact of climate change on the quality of inland water bodies is well documented in the literature. Many inland water bodies such as small stormwater retention ponds or large lakes receive water from precipitation induced surface runoff, subsurface interflow, and seepage from groundwater systems. All these sources of water are directly affected by changes in weather patterns and these impacts lead to the diurnal and seasonal water quality observed in small lakes and ponds. Models of water quality range from simple first order kinetics of fully-mixed reactors to sophisticated three-dimensional models integrating hydrology, hydrodynamics and environmental chemistry in three-dimensional CFD models predicting pollutant distribution in time and space. A concept common to all these models and considered a key factor in observed water quality for small water bodies is the hydraulic retention time. Effectively, the average amount of time fluid remains in the water body, it directly impacts the exposure time available for treatment. Affected by physical dimensions, as well as the chemical, biological and hydrological nature of the pollutant and fluid sources, it is often treated as a fundamental and static characteristic of the water body. This work will present the most recent research on how hydraulic retention time is impacted by climate change for small, inland water bodies whose sources are dominated by surface runoff or subsurface interflow (groundwater is neglected). In addition, the results of a long-term study on the water quality of a large stormwater retention pond being used as irrigation water are presented to show the impacts of climate and weather on water quality. Two separate studies approximately 10 years apart explored the chemical and biological water quality of the Inverness Stormwater Pond in southeast Calgary, Alberta, which is primarily sourced by stormwater. Over several summers, water quality data were collected in situ at various depths and locations throughout the pond. These data together with an integrated hydrological-hydrodynamic-microbial CFD model, clearly demonstrate the impact of climate on the pond's diurnal and seasonal water quality, as well as the changing role of hydraulic retention time.

Dr. Caterina Valeo is a Professor in Mechanical Engineering at the University of Victoria and a Professional Engineer in the Province of British Columbia. She has a BSc in Physics, a BASc in civil engineering (both from the University of Toronto), and a Masters and PhD from McMaster University in the area of water resources engineering. She worked as an academic at the University of Manitoba and the University of Calgary in the areas of Geomatics Engineering and Civil Engineering, and then moved to Mechanical Engineering at the University of Victoria in 2011 to continue her interdisciplinary research in environmental science, engineering and informatics. She has over 200 publications including 3 co-authored books on the topics of environmental hydraulics, digital terrain modelling and hydrology, but currently focuses on the impacts of climate change on

stormwater management, nature-based solutions for mitigating floods and pollutants, pollutant dispersion modelling in water bodies, and improving measurement and prediction in the environment with data driven methods. She received the 2014 Distinguished Scientist Award from the International Society for Environmental Information Sciences and is a Fellow of Engineers Canada.

Mr. Richard Painchaud

President
Kourant Technologies inc.

Keynote Speech
Oct. 17 / 09:45 EDT / 2nd floor-Room EV 2.260

From Breakthrough to Business: Unlocking the Commercial Potential of Innovation

Description: Kourant Technologies Inc. is the latest venture led by Mr. Painchaud—a cleantech start-up advancing a patented wastewater treatment technology developed at Concordia University in Montreal. In this talk, Mr. Painchaud will share the key success factors for transforming a breakthrough invention into a viable commercial solution. Drawing from real-world experience, he will outline the strategic, technical, and market conditions that must align to unlock full commercial potential in the cleantech space and beyond.

Mr. Richard Painchaud is a seasoned executive with a deep understanding of emerging technologies and their commercial applications. An accomplished problem-solver, he brings a unique blend of technical insight and business acumen to the development of effective strategies for market entry and growth. His expertise lies in positioning cutting-edge technologies for successful commercialization, always with a focus on financial sustainability and long-term impact.

Committee Members

Dr. Baiyu (Helen) Zhang
President of CAWQ, Professor
Memorial University

Dr. Yves Comeau
Professor
Polytechnique Montréal

Dr. Elsayed Elbeshbishy
Professor
Toronto Metropolitan University

Dr. Peter Vanrolleghem
Professor
Université Laval

Dr. S. Samuel Li
Professor
Concordia University

Dr. Dwight Houweling
Associate Professor
Polytechnique Montréal

Dr. Zhi Chen
Professor
Concordia University

Dr. Sasan Fazeli
Postdoctoral Fellow
Concordia University

Dr. Xiaying Xin
Assistant Professor
Queen's University

Dr. Zhikun Chen
Postdoctoral Fellow
Queen's University

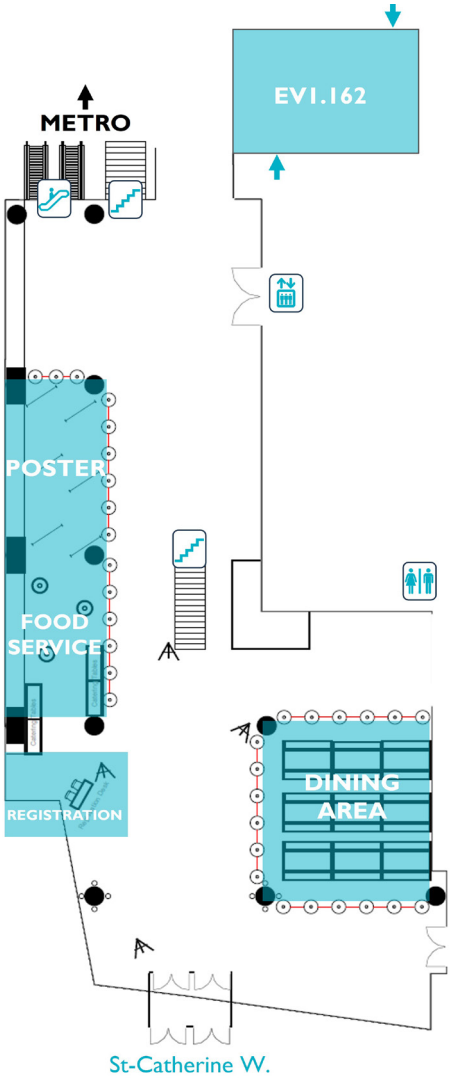
Xiaohan Yang
Secretariat
Ph.D. Candidate
Concordia University

Zahra Salehí
Event Coordinator
Graduate Research Assistant
Concordia University

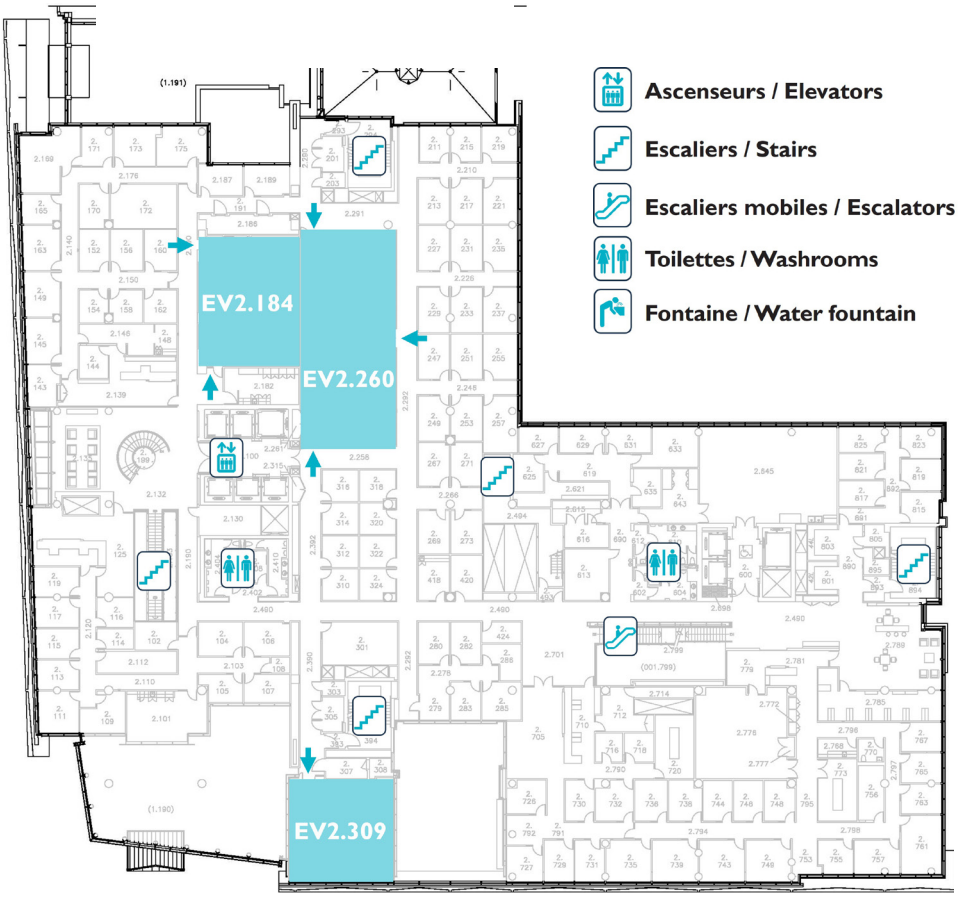
Shuyan Wan
Graphic Designer
Ph.D. Candidate
Concordia University

Venue Floorplans

EV 1 ATRIUM



EV 2



Events / activities

- IWA YWP Canada Workshop (day 1, EV 2.260)
- Opening Ceremony (day 2, EV 2.260)
- Keynote Session (day 2, EV 2.260)
- Technical Sessions (day 2, see agenda)
- Poster Sessions (day 2, EV Atrium)
- Awards and Closing Remarks (day 2, EV 2.260)
- Lunch & Coffee Breaks (day 2, EV Atrium)

EVENT LOCATION

Concordia University - Engineering, Computer Science and Visual Arts (EV) Building
1515 Saint-Catherine Street West, Montreal, Quebec H3G 2W1, Canada

Contact

REGISTRATION DESK (1st floor)
CAWQ2025concordia@concordia.ca

IWA YWP Canada Workshop

October 16, 2025

IWA YWP Canada aims to be an inclusive, forward-thinking, and supportive community for all early-career Canadians working in the water sector. Our goal is to gather together early career professionals working in our country's water sector to network, provide opportunities, collaborate, empower, and support them.

Our goal is to bring early career professionals working in our country's water sector together by:

- Establishing, growing, and maintaining a strong, high quality, professional, and multi-disciplinary network for IWA Young Water Professionals in Canada.
- Delivering opportunities for professional development
- Collaborating with other IWA YWP chapters
- Contributing and advocating IWA's vision
- Advocating and empowering IWA YWPs in Canada and globally
- Nurturing a culture of open, supportive, and respectful knowledge exchange

IWA YWP Canada is part of the IWA global network.

Activity Agenda

Thursday / Oct. 16
2nd floor - EV 2.260

13:00-13:20	Opening Remarks
13:20-13:50	Icebreaker
13:50-14:35	Panel Discussion
14:35-14:45	Coffee Break
14:45-15:30	Panel Discussion
15:30-16:10	Kahoot Session
16:10-16:30	Closing Remarks and Awards
16:30-17:00	Networking

Conference Agenda

October 17, 2025

Time Zone: Eastern Daylight Time (GMT-4)

Technical Keynote Speaker

Student Presentation Award Competition

Rooms at a glance

1st floor: 1.162 (Technical Session), Atrium (Poster)

2nd floor: 2.260 (Workshop, Openning, Technical Session), 2.184 (Technical Session), 2.309 (Technical Session)

Floor plans: page 09

In-person schedule: page 11-14

Poster presentation: page 15

Format

Event
[Location]
Presentation Title
Presenter
Affiliation

Presentation Agenda (Page 1)

Friday / Oct. 17

2nd floor - EV 1.162, 2.184, 2.260, 2.309

08:00-09:00	Checkin (1st floor)			
09:00-09:15	**Opening Ceremony and Grouup Photo** [EV 2.260]			
09:15-09:45	**Keynote Presentation** [EV 2.260] *Climate Change Impacts on Water Quality of Inland Waters: Role of Hydraulic Retention Time* **Caterina Valeo** University of Victoria			
09:45-10:15	**Keynote Presentation** [EV 2.260] *From Breakthrough to Business: Unlocking the Commercial Potential of Innovation* **Richard Painchaud** Kourant Technologies inc.			
10:15-10:45	**Coffee break & Poster** [EV Artrium]			
	[EV 2.260]	[EV 2.184]	[EV 2.309]	[EV 1.162]
	Session 1A **Integrated Water Quality Monitoring and Management**	**Session 1B** **Advances in Biological Wastewater Treatment**	**Session 1C** **Microplastic Behavior and Removal**	**Session 1D** **Emerging Technologies for Water Treatment**
10:45-11:00	*Passive sampling of pathogens in water* **David McCarthy** University of Guelph	*Improving denitrification process in a wastewater treatment plant by using methanol produced in-situ from greenhouse gas* **Soodeh Abedini & Fereshteh Khani** Concordia University	*Microplastic Release and Morphological Changes of Reusable Face Masks under Various Conditions* **Xinyu Xu** Concordia University	*Experimental evaluation of salinity gradient energy generation from mine water using pressure-retarded osmosis* **Giti Nouri** Concordia University
11:00-11:15	*Integrated Surveillance of Antimicrobial Resistance Genes across One Health Reservoirs: surface water, municipal and hospital wastewater, and farm animal manures* **Dominic Frigon** McGill University	*Shock strategies for nitrite oxidising bacteria (NOB) suppression in membrane aerated biofilm reactors (MABR) to enhance partial nitrification-anammox (PN/A) performance* **Ijaj Mahmud Chowdhury** McMaster University	*Evaluating Granular Activated Carbon (GAC) and Biochar for Microplastic Filtration in Drinking Water: Role of Flow Regime, Particle Size, and Organic Matter* **S. Abbas Rasouli** Carleton University	*Ensuring mineral quality of the water in a sorbent-based atmospheric water harvesting device* **Andres Felipe Sanchez Rendon** Polytechnique Montréal

Presentation Agenda (Page 2)

Friday / Oct. 17

	[EV 2.260]	[EV 2.184]	[EV 2.309]	[EV 1.162]
	Session 1A	**Session 1B**	**Session 1C**	**Session 1D**
	Integrated Water Quality Monitoring and Management	**Advances in Biological Wastewater Treatment**	**Microplastic Behavior and Removal**	**Emerging Technologies for Water Treatment**
11:15-11:30	*An Ontology-Driven Multi-Agent Framework for Decentralized Water Management* **Athanasios Latinis** Université Laval	*Anaerobic Fermentation of TWAS: Effects of Physical, Chemical, Biological and Thermal Pretreatments on Solubilization Efficiency* **Maha Dassouki Dit Tahan** Toronto Metropolitan University	*Microplastics in freshwater food chains: Priority list based on identification of oxidative stress response characteristic* **Yuhan Cui** North China Electric Power University	*A Diffusivity-Driven Approach to Lithium Separation using Shock Electrodialysis* **Sandali Panagoda** McMaster University
11:30-11:45	*Assessing coastal urban water metabolism based on the water mass balance framework across periods* **Ziyu Wang** Concordia University	*Enhancing Methane Production from Thickened Waste-Activated Sludge: A Comprehensive Comparison of Pretreatment Methods* **Meagan Morrow** Toronto Metropolitan University	*Innovative Nanobubble Disruption of Microplastic-Associated Biofilms in a Simulated Drinking Water Reactor* **Ahamed Ashiq Abdul Rahiman** Queen's University	*A Trimodal Tablet-Based Sensor System for Rapid, Equipment-Free Water Hardness analysisAnalysis* **Chinonso Ezeoke** Concordia University
11:45-12:00	*Maintenance Matters: Effects on rainwater harvesting systems performance and water quality* **Niloufar Naserisafavi** Polytechnique Montréal	*Wastewater Surveillance of Antimicrobial Resistance: A One Health Approach* **Rhiannon Punch** Queen's University	*Improving removal of microplastics and nanoplastics in wastewater treatment plants under challenging environmental conditions* **Qi Feng** McGill University	*Assessment of the impact of point-of-use filters on water quality* **Andres Felipe Sanchez Rendon** Polytechnique Montréal
12:00-13:00	Lunch break & Poster [EV Artrium]			
	[EV 2.260]	[EV 2.184]	[EV 2.309]	[EV 1.162]
	Session 2A	**Session 2B**	**Session 2C**	**Session 2D**
	Advanced Treatment of Emerging Contaminants	**Innovations in Bio-Based Wastewater Treatment**	**AI and Modeling in Water Management**	**Water Quality and Ecosystem Restoration**
13:00-13:15	*Comparative evaluation of microgranular, granular, and powdered activated carbons for PFAS removal in drinking water treatment* **Hamidreza Farimaniraad** Polytechnique Montréal	*Modification of cellulose fibers as a method to reduce bridging agent and co-agent demand in wastewater coagulation-flocculation* **Emilia Tognetty** École de technologie supérieure	*Modélisation intégrée basée sur la dynamique des systèmes pour évaluer l'impact anthropogénique sur la qualité des lacs* **Carmen Iulia Oniga** Polytechnique Montréal	*Shallow Lake Phosphorus Attenuation Practices for Water Column and Sediment Using Geotextile Filtration* **Antonio Cavalcante Pereira** Concordia University
13:15-13:30	*Risk assessment of horizontal transfer of antibiotic resistance genes among bacteria under environmental exposure to microplastics and per/polyfluoroalkyl substances* **Qikun Pu** North China Electric Power University	*Kinetic Study of Euglena gracilis Growth and Paramylon Accumulation with Amino Acid-based Nitrogen Sources* **Natalia Shiu** McMaster University	*Artificial Intelligence in Anaerobic Digestion: A Review of Machine Learning Applications for Process Monitoring, Control, and Forecasting* **Nesma Ahmed** Toronto Metropolitan University	*Phytoplankton Community Structure and Biovolume for Canadian Lake Trophic State Assessment* **Antonio Cavalcante Pereira** Concordia University
13:30-13:45	*Behavior of perfluoroalkyl substances (PFASs) in sewage sludge under electrokinetic phenomena* **Mahdieh Ghiyasi Faramarz** Concordia University	*Anaerobic biodegradability of thermal hydrolyzed waste activated sludge and food waste* **Amr Ismail** Toronto Metropolitan University	*Deep Learning for Filamentous Cyanobacteria Identification Using Confocal Laser Scanning Microscopy* **Sara Hemmati** McMaster University	*Quantifying Microbial Contamination and Hydraulic Dynamics in a Multifunctional Resilient Park* **Denise Brunoro B.M.** Polytechnique Montréal
13:45-14:00	*Visible light-driven photocatalytic degradation of TCPP by PPy-g-C3N4-MIL88B photo-catalyst with Z-scheme heterojunction* **Mahsa Motamedi** Concordia University	*Investigating the efficiency of Immobilized Beads using Sodium Alginate compared to self-aggregated granules in Algal Bacterial Granular Sludge* **Nada Hosni** Toronto Metropolitan University	*Integrating Landscape and Stormwater Management: A New Optimization Tool for the Sponge City Projects* **Shuyan Wan** Concordia University	*Characterization of source water quality in Nunavik (northern Quebec)* **Anna Covey** Université Laval

Presentation Agenda (Page 3)

Friday / Oct. 17

	[EV 2.260]	[EV 2.184]	[EV 2.309]	[EV 1.162]
	Session 2A	**Session 2B**	**Session 2C**	**Session 2D**
	Advanced Treatment of Emerging Contaminants	**Innovations in Bio-Based Wastewater Treatment**	**AI and Modeling in Water Management**	**Water Quality and Ecosystem Restoration**
14:00-14:15	*Synthetic Accessibility Evaluation of Environmentally Friendly PAEs Substitutes by Machine Learning* **Hao Yang** North China Electric Power University	*Biofiltration combinée du phosphore et des nitrates des eaux usées à l'aide du procédé Techno-P à base de sous-produits de bois activés à l'hydroxyde de fer* **Soureyatou Hamidou** Université Laval	*Multi-parameter optimization of air gap membrane distillation for brine desalination using artificial neural networks* **Elaf Seif** The American University in Cairo	*Protecting Groundwater Quality from Petroleum Pollution Using Eggshell–Clay Adsorptive Barriers* **Elnaz Rajaei** Concordia University
14:15-14:30	*The Characterization of Defected Hexagonal Boron Nitride and Its Photocatalytic Effect on PFAS Removal in Drinking Water* **Megan Ethier** McGill University	*Biological Pretreatment of Manure for Enhancing Hydrolysis and Fermentation of Manure in Anaerobic Digestion* **Maha Dassouki Dit Tahan** Toronto Metropolitan University	*Potential of unmaintained sensors for continuous monitoring of aerated lagoons* **Laleh Razeh** Université Laval	*Strategic use of rainwater harvesting systems in the agricultural field* **Margot DIDELET** Polytechnique Montréal
14:30-14:50	**Coffee break & Poster** [EV Artrium]			
	[EV 2.260]	[EV 2.184]	[EV 2.309]	[EV 1.162]
	Session 3A	**Session 3B**	**Session 3C**	**Session 3D**
	Climate Change and Water Management	**Advanced Water and Wastewater Treatment**	**Emerging Contaminants in Aquatic Environments**	**Innovative Water Treatment Technologies**
14:50-15:05	*Assessing Willingness to Pay for Solar Desalination Technologies as a Climate Change Adaptation: A Socioeconomic Study* **Wen Ma** University of Sherbrooke	*A novel electrochemical converter for integrated biogas valorization and wastewater pollutant removal* **Soodeh Abedini** Concordia University	*Important Factors Governing Source Emissions and Aquatic Loadings of Chemical Additives Used in Vehicle Tires: Insights from Environmental Monitoring And Computational Modeling for Urban Environment* **Xianming Zhang** Concordia University	*Synergistic nitrogen fate control via integrated biofilm management and in-situ sludge settling in a novel hybrid airlift bioreactor for water quality enhancement* **Hossein Bonakdari** University of Ottawa
15:05-15:20	*Full-Scale Venturi Air Stripping for H_2S Removal from Landfill Leachate: Preliminary Results and Future Abatement* **Patrick M. D Aoust** Polytechnique Montréal	*Impact of Chemical and Microbial Iron Oxidation on Standing Column Well Performance: A Case Study in Montreal* **Saman Malekahmadi** Polytechnique Montréal	*Rapid Detection of Antibiotic Resistance in Escherichia coli in the Presence of Ampicillin and Carbapenem Using Advanced Quantitative Culture Methods* **Rayane Azani** Queen's University	*Aluminum Nanoparticle Enhanced TiO_2 Photocatalysis of Organic Pollutants under Solar Irradiation* **Saadia Wasim** McGill University
15:20-15:35	*More is less: On Changes in Snow Water Availability in Northern North America* **Ali Nazemi** Concordia University	*Coupling Partial Nitrification and Anammox for Nitrogen Removal in Saline Mine Wastewater* **Mohammad Shariq** Concordia University	*Degradation of xanthate vs two alternative flotation collectors in aqueous solutions* **Fatima AKFAS** Université du Québec en Abitibi-Témiscamingue	*Performance of Electrokinetic Systems for Oil and Grease Removal in Produced Water* **Emmanuel Mbah** Concordia University
15:35-15:50	*Leveraging Floating Photobioreactors for Marine Carbon Dioxide Reduction in the Context of Climate Change* **Zheng Wang** Memorial University	*Optimizing Chemical Backwashing of Anthracite–Sand Filter Media from Laboratory Screening to Pilot-Scale Application* **Abbas Khursheed** Carleton University	*Assessing the Risk of Emerging Contaminants in Canadian Waters with the HydroFATE Contaminant Fate Model* **Heloisa Ehalt Macedo** McGill University	*Evaluation of Encapsulated Capping Materials with Non-Woven Geotextiles for Phosphorus Attenuation in Lake Sediment Capping* **Lois Konadu Appiah** Concordia University

Presentation Agenda (Page 4)

Friday / Oct. 17

	[EV 2.260]	[EV 2.184]	[EV 2.309]	[EV 1.162]
	Session 3A	**Session 3B**	**Session 3C**	**Session 3D**
	Climate Change and Water Management	**Advanced Water and Wastewater Treatment**	**Emerging Contaminants in Aquatic Environments**	**Innovative Water Treatment Technologies**
15:50-16:05	*Best Management Practices under Climate Change: A Call for Better Observation and Modeling* **Elmira Hassanzadeh** Polytechnique Montréal & United Nations University Institute for Wate	*Treatment of high-strength liquid waste stream using the bioelectrochemically enhanced anaerobic digestion process* **Virender Singh** Carleton University	*Acting against growing presence of pharmaceuticals in water resources – a global problem* **Mehrab Malekshahi Nejad** Concordia University	*Cryopurification for water treatment: from lab to pilot-scale testing in Yukon, Canada* **Daria Popugaeva** Western University & Core Geoscience Services Inc.
16:05-16:20	*Dynamic modelling of ion exchange for a smart and resource-efficient operation* **Daniel Illana González** Ghent University	*Design and Testing of a Phosphorus Removal Structure for Mitigating Phosphorus Losses from Intensively Cultivated Organic Soils* **Harmanpreet Singh Grewal** McGill University	*Comparaison de l'élimination de plus de 300 Contaminants d'Intérêt Émergent (CIE) dans 25 stations de récupération des ressources en eau (StaRRE) québécoises* **Coline Milhau** Université Laval	*Experiential Learning through Optimization of Jar Tests with Coagulation and Flocculation* **Alicia Allen** Carleton University
16:30-17:00	**Award and Closing Remarks** [EV 2.260]			

Poster Session

October 17, 2025

Friday / Oct. 17

1st floor - EV Atrium

Occurrence of Microplastics in a Wastewater Treatment Plant in the Greater Montreal Area	**Elvis Wireko Boampong**  Polytechnique Montréal
Corner Turbulence in Open Channels: Implications for Sediment Mixing and Water Quality	**Bowen Xu**  Concordia University
Removal of Antibiotics from Hospital Wastewater Using Synergistic Effects of MXene and TiO_2 in a Binary Heterostructured Membrane	**Dana Kadadou**  McGill University
Addressing Long-Term Durability Challenges of TiO_2-Based Photocatalysts for Sustainable Textile Wastewater Treatment Applications	**Mahmudul Neon** McGill University
Impact of Iron & Manganese on PFAS Removal using Ion Exchange Resins	**Alexandra Jacobson** Polytechnique Montréal
Analysis of Filter Materials for Phosphorus Reduction from Agricultural Drainage Effluent	**Tahmina Nasir Bushra** McGill University
Predicting Clean-in-place Performance in Full-scale Membrane-based Water Treatment Plants	**Fuwei Rao** McMaster University
A Methodological Approach for a Comparative Life Cycle Assessment of Phosphorus Adsorption Materials To Treat Drainage Runoff	**Erik Barrett** McGill University
Integrating Passive Sampling and Transcriptomic Bioassays to Enhance Water Quality Monitoring	**Sophie Emberley-Korkmaz**  McGill University
FEEM Spectroscopy as a Rapid Screening Tool for Sewage Contamination: Correlation with Viral and Bacterial Indicators	**Michelle Pelletier** McGill University
Self-Sustained Energy in Remotely Located Toilets	**Connor Lynch-Staunton** Concordia University
Interactions in Combined Fouling, Their Impact on Salinity Treatment Performance and Membrane Cleaning Strategies in Reverse vs Forward Osmosis	**FATIMA EZZAHRA RAFI** Mohammed VI Polytechnic University (UM6P)
Effects of Biochar and Vegetation on Leachate Quality from Bioretention Systems	**Thalia Azadian** McGill University
Floods and Green Infrastructure: How Much Phosphorus Could Be Lost in Community Gardens and Stormwater Management Ponds?	**Aviva Fournie** Univeristy of Western Ontario
Characterization of the Quality of Natural Sources of Water in a Northern Village of Nunavik	**Andrée-Ann Bolduc** Université Laval
Characterization of Microbial Water Quality in Nunavik Home Tanks and Influence of Cleaning Strategies	**Mathilde Duval** Université Laval
Assessment of Direct Injection in LC-QTOF-MS for the Suspect or Non-targeted Screening of Emerging Contaminants in Different Types of Water	**Rheina Hawabhay**  McGill University
Numerical Simulation of Microplastic Fate and Transport in the St. Lawrence River Using the 2D Horizontal Modeling Approach	**Poune Malekiazar** Concordia University

Getting to the Conference Venue

From the Airport

Montreal-Pierre Elliott Trudeau International Airport: 16 km to conference site. You have several options for ground transportation services at curbside just outside the arrivals area. For general information call the Société de transport de Montreal at +1 514-786-4636.

Montreal 747 Express bus: The 747 bus runs 24 hours a day between Montreal Trudeau Airport and the Berri-UQAM metro station near downtown Montreal. One-way cash fare is $11.25 payable in Canadian coins only no bills. If you don't have any Canadian coins to pay the fare on the bus directly, you can buy a fare card at the airport (International Arrival level).

Take a taxi: Taxi fares to downtown will be about $41. Other taxi services, such an Uber, may have different rates.

From the VIA Rail Train Station

If you're travelling to Montreal from Ottawa, Toronto or beyond, consider taking the train. You'll arrive in Montreal at Gare Centrale, which is within walking distance from conference site, or an eight-minute cab ride.

From the Intercity Bus Station

The Intercity Bus Station is at Berri, east of where Concordia is located. To get to conference site from there, you may either take the metro or bus. For metro, you can take a Green Line then disembark at the station named "Guy-Concordia", exit the metro station and proceed to the entrance in "Guy St.". The EV building can be directly accessed through underground tunnel within metro station.

For bus, there are several bus lines within one or two blocks from Berri (Gare d'Autocars de Montreal) to choose from to reach the conference site, for example, you can take the Bus 24 that runs along Sherbrooke, going west.

From Self-driving

Parking: If you drive to the conference site, there are several parking options available. On-campus parking: The LB building indoor garage is accessible via 1453 Mackay Street and directly connected to the library building. The FB building indoor garage is accessible via 1230 Guy Street and directly linked to the Faubourg building. Street parking: There are metered parking spaces available on streets surrounding the John Molson Building. Be sure to check parking signs carefully for restrictions and time limits. There are several public parking lots in the area, including 2140 Rue Guy Parking and 1432 Crescent St Garage. Rates and availability may vary.

From Metro

The green line of the metro runs directly below the Sir George Williams Campus downtown, stopping at Station Guy-Concordia. A network of tunnels connects most buildings on campus to the metro. Exit the metro station and proceed to the entrance in "Guy St.". The EV building can be directly accessed through underground tunnel within metro station.

From Local Bus

There are several bus lines that run near EV building. Bus station Guy-Concordia (Stop ID 52147 & 52146) near EV building for Bus 66, Bus 166 and Bus 15. Bus station Guy-Concordia (Stop ID 52201) for Bus 165, Bus 369 and Bus 465. For more information about detailed information on bus routes, schedules, and fares in Montreal, please visit www.stm.info.

Engineering, Computer Science and Visual Arts (EV) Building
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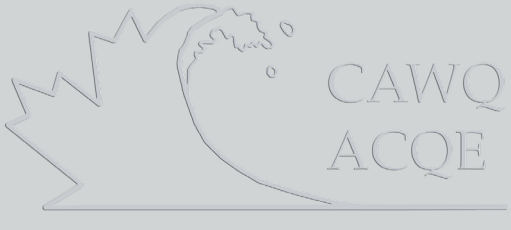
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