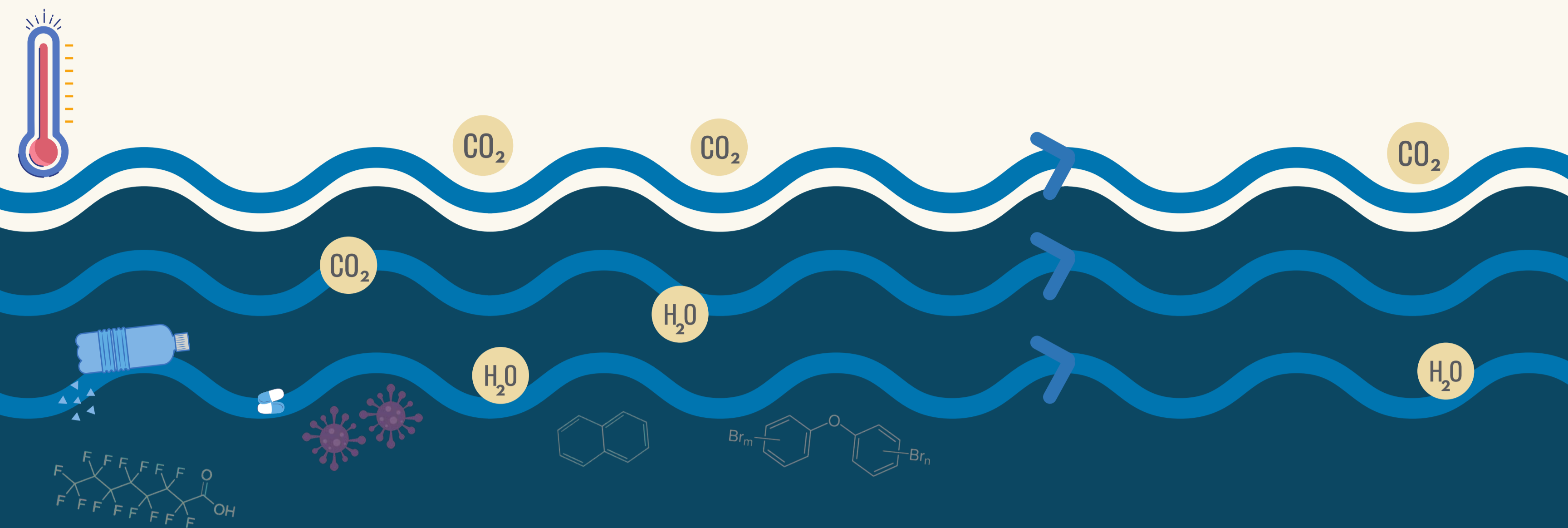


# CALL FOR ABSTRACTS



# PEOPLE 2022

International Conference on  
Persistent, Emerging, and Organic  
Pollution in the Environment  
– Challenges and Solutions under  
Climate Change

August 23-26, 2022  
Charlottetown, Prince Edward Island, Canada  
Hybrid Event

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Submit abstracts before March 31, 2022  
<http://www.people-network.ca/>  
<https://sigma.academy/people2022/>

## Welcome Message

We warmly welcome you to the PEOPLE 2022 International Conference on Persistent, Emerging, and Organic Pollution in the Environment – Challenges and Solutions under Climate Change on August 23-26, 2022, in Charlottetown, Prince Edward Island, Canada. This is a hybrid event co-organized by the **PEOPLE Network** (Memorial University), the **Canadian Centre for Climate Change and Adaptation** (University of Prince Edward Island), the **Sigma Academy, Center for Catastrophic Risk Management** (University of California, Berkeley), the **Canadian Association on Water Quality Atlantic Region**, and the **Journal of Environmental Systems Research** (Springer). This is also an annual conference of the Network on the Persistent, Emerging, and Organic Pollution in the Environment (PEOPLE Network), funded by the Natural Sciences and Engineering Research Council of Canada (NSERC).

Innovation in chemistry and materials has improved quality of life but has also led to significant health and environmental challenges - with over 250 billion tonnes of over 144,000 different chemicals being emitted worldwide. These emissions tend to outpace scientific and regulatory processes, which present a substantial global issue with cumulative threats to human health and environmental sustainability. How to manage the use, reduce the emission, and understand/mitigate the impact have been the main tasks for researchers, engineers, managers, and policy makers.

Among those chemicals, persistent, emerging, and organic pollutants have been given significant attention due to their toxic, carcinogenic, and/or bio-accumulative properties and associated long-term ecological and health risks, especially under a changing climate. Such pollutants include petroleum hydrocarbons, pesticides, micro/nano-plastics, pharmaceutical and personal care products or PPCPs, disinfection by-products or DBPs, fire retardants, chemical surfactants, engineered nanomaterial, etc. Many are not regulated or legislated, mainly due to the lack of in-depth knowledge about their fate, transport, impact, or corresponding lack of effective management and mitigation. These pollutants are found in air, surface water, groundwater, ice caps, oceans, soils, and sediments, and there is increasing evidence of their toxicity at all trophic levels, highlighting an urgent need for effective management and mitigation approaches globally.

The changing climate can alter their usage, fate and transport with largely unknown impacts in terms of magnitude, mechanisms, and direction, and cause multifold effects on society and ecosystems with a high level of uncertainties and complexity of associated environmental and health issues. These further challenge our research, practice and policy making in managing these chemicals and prevent and reduce negative impacts.

The goal of this conference is to provide an international venue (in-person and virtual) and bring together researchers and professionals from diverse sectors and disciplines in natural science, engineering, social science, and medicine, to present their achievements and innovations, exchange ideas, share information, grow connections, and explore opportunities. This event will offer some interesting keynote speeches, technical presentations, short courses/workshops, field trips, and social events. The key topics include but not limit to:

- Water Quality Management
- Water and Wastewater Treatment
- Drinking Water Safety
- COVID-19 Monitoring and Testing in the Environment
- Sludge Treatment and Management
- Waste Management and Minimization
- Air Pollution and Control (Outdoor and Indoor)
- Inland and Marine Oil Spill Response
- Emerging Contaminants - Fate, Transport, and Effect
- Site Assessment and Remediation
- Resource Recovery and Management
- Environmental Biotechnology and Nanotechnology
- Human Health and Ecotoxicology
- Environmental Impact Assessment and Risk Analysis
- Environmental Sustainability for Indigenous and Remote Communities
- Environmental Modeling and Decision Making
- Climate Change Modeling and Impact Assessment
- Climate Change Adaptation and Planning
- Carbon Emission Estimation, Reduction, and Trading
- Urban Flooding and Stormwater Management
- Water Resources and Watershed Management
- Coastal Erosion and Protection
- Marine and Coastal Environmental Protection
- Emergency Response Management
- Environmental Restoration and Ecological Engineering
- Environmental Policy and Regulations
- Environmental Aspects of Sustainable Infrastructure and Smart Cities

This conference will be a hybrid event with both virtual and live platforms that would enable interpersonal interactions for participants on site or online. We aim to provide a platform for researchers, students, professionals, and stakeholders from academia, industry, government, and community groups to learn, share, network, and enjoy. Welcome you all to join us for an exciting four days at PEOPLE 2022!

Sincerely,  
PEOPLE 2022

## Conference Chairs and Keynote Speakers

### Conference Chair



**Dr. Bing Chen**

Director, PEOPLE Network  
 Professor and UArctic Research Chair  
 Associate Dean, Graduate Studies (Acting)  
 Faculty of Engineering and Applied Science  
 Memorial University

### Conference Co-Chairs



**Dr. Xander Wang**

President, Sigma Academy  
 Associate Professor, Canadian Center for Climate Change and Adaptation  
 University of Prince Edward Island (UPEI)



**Dr. Rune Storesund**

Executive Director, Center for Catastrophic Risk Management  
 University of California Berkeley

### Keynote Speakers



**Dr. Lisa Alvarez-Cohen**

Vice Provost for Academic Planning, Fred and Claire Sauer Professor  
 Civil and Environmental Engineering  
 University of California Berkeley



**Dr. Ruby Leung**

Battelle Fellow, Earth Science  
 Pacific Northwest National Laboratory



**Dr. Jingxu (Jesse) Zhu**

Canada Research Chair (Tier 1) and Distinguished Professor  
 Department of Chemical and Biochemical Engineering  
 University of Western Ontario



**Dr. Vijaya Raghavan**

James McGill Professor  
 Department of Bioresource Engineering  
 McGill University

**Technical sessions keynote speakers to be announced**

## Organizing Committee



**Dr. Nola Etkin**, Professor & Dean, Faculty of Science, UPEI (**Committee Co-Chair**)



**Dr. Xander Wang**, President, Sigma Academy; Associate Professor, Canadian Center for Climate Change and Adaptation, UPEI (**Committee Co-Chair**)

**Dr. Carlos Bazan**, Assistant Professor, Faculty of Engineering and Applied Science, Memorial University

**Dr. Bing Chen**, Professor, Faculty of Engineering and Applied Science, Memorial University

**Dr. Sabine Dietz**, Executive Director, CLIMAtlantic Inc.

**Ross Dwyer**, Manager of Research Partnerships, Canadian Center for Climate Change and Adaptation, UPEI

**Dr. Aitazaz Farooque**, Associate Professor, Faculty of Sustainable Design Engineering, UPEI

**Dr. Adam Fenech**, Associate Professor, Canadian Center for Climate Change and Adaptation, UPEI

**Dr. Yulin Hu**, Assistant Professor, Faculty of Sustainable Design Engineering, UPEI

**Don Jardine**, Climate Research Lab, UPEI

**Dr. Suqi Liu**, Research Scientist, Department of Agriculture and Land, Government of PEI

**Garrett Mombourquette**, Resource Conservation Manager (Acting), Prince Edward Island National Park, Parks Canada

**Alistair Ozon**, Water Coordinator, City of Charlottetown, PEI

**Dr. Karlene Roberts**, Professor Emeritus, Haas School of Business, UC Berkeley

**Dr. Mohammad Aminur Shah**, Postdoc Fellow, Canadian Center for Climate Change and Adaptation, UPEI

**Dr. Kripa S. Singh**, Professor, Civil Engineering, University of New Brunswick (CAWQ Regional Director - Atlantic)

**Dr. Stanislav Stoyanov**, Research Scientist, CanmetENERGY-Devon, Natural Resources Canada

**Dr. Rune Storesund**, Executive Director, Center for Catastrophic Risk Management, UC Berkeley

## Conference Secretariats

**Dr. Weiyun Lin**, Program Coordinator, NSERC PEOPLE CREATE; Faculty of Engineering and Applied Science, Memorial University

**Dr. Mohammad Aminur Shah**, Postdoc Fellow, Canadian Center for Climate Change and Adaptation, UPEI

## Conference Agenda

### Day 1: August 23, 2022, Tuesday

10:00 - 17:30 Conference Registration and Participant Package Collection

10:00 - 17:30 Workshops and Short Courses

### Day 2: August 24, 2022, Wednesday

08:00 - 09:00 Conference Registration

09:00 - 10:20 Opening Ceremony & Keynote Presentation

10:45 - 12:00 Technical Sessions

12:00 - 13:30 Lunch

13:30 - 14:00 Keynote Presentation

14:00 - 17:30 Technical Sessions

### Day 3: August 25, 2022, Thursday

08:00 - 09:00 Conference Registration

09:00 - 09:30 Keynote Presentation

09:30 - 12:00 Technical Sessions

12:00 - 13:30 Lunch

13:30 - 14:00 Keynote Presentation

14:00 - 17:30 Technical Sessions

18:30 - 21:30 Awards Ceremony with Dinner

### Day 4: August 26, 2022, Friday

09:00 - 17:30 Guided Field Trips across PEI

## Scientific Committee



**Dr. Kenneth Lee**, National Senior Science Advisor, Fisheries and Oceans Canada (**Committee Co-Chair**)



**Dr. Helen Zhang**, Canada Research Chair (Tier 2), Professor, Faculty of Engineering and Applied Science, Memorial University (**Committee Co-Chair**)

**Dr. Chunjiang An**, Assistant Professor, Concordia Research Chair, Building, Civil, and Environmental Engineering, Concordia University

**Dr. Lindsay J. Hounjet**, Research Scientist, CanmetENERGY-Devon, Natural Resources Canada

**Dr. Wendy Huang**, Assistant Professor, Schulich School of Engineering, University of Calgary

**Dr. Tahir Husain**, Professor, Faculty of Engineering and Applied Science, Memorial University

**Dr. Jason Li**, Professor, Environmental Engineering Program, University of Northern British Columbia

**Dr. Paul Li**, Associate Professor, School of Marine Sciences, Sun Yat-sen University, China

**Dr. Zeo Li**, Associate Professor, Department of Civil Engineering, McMaster University

**Dr. Lei Liu**, Professor, Department of Civil and Resource Engineering, Dalhousie University

**Dr. Yong Liu**, Professor and Associate Dean, College of Environmental Sciences and Engineering, Peking University, China

**Dr. Catherine Mulligan**, Professor, Concordia Research Chair (Tier 1), Building, Civil, and Environmental Engineering, Concordia University

**Dr. Olívia Maria Cordeiro de Oliveira**, Professor, Federal University of Bahia, Director of Geosciences Institute, Brazil

**Dr. Xiaosheng Qin**, Associate Professor, School of Civil and Environmental Engineering, Nanyang Technological University, Singapore

**Dr. Atanu Sarkar**, Associate Professor, Faculty of Medicine, Memorial University

**Dr. Shuguang Wang**, Professor, College of Environmental Science and Engineering, Shandong University, China

**Dr. Viviane Yargeau**, Professor and Chair, Chemical Engineering, McGill University

**Dr. Ganning Zeng**, Associate Professor, College of Environment, Zhejiang University of Technology, China

## Abstract submission now open!

### Technical Sessions:

- Monitoring and Analysis
- Water and Wastewater
- Waste Management
- Emerging Contaminants
- Air Pollution and Control
- Oil Spill Response and Cleanup
- Human Health and Ecotoxicology
- Climate Change and Sustainability
- Environmental Modeling and Decision Making
- Marine and Coastal Protection
- Others

Abstract submission deadline: **March 31, 2022**

Selected abstracts will be invited for journal **special issues**

[Submit an Abstract](#)

Visit [conference website](#) for registration information and sponsorship opportunities.



We welcome you to join us at PEOPLE 2022 in  
Charlottetown, Prince Edward Island!



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