

AGENDA

FEDERAL PLASTICS SCIENCE KNOWLEDGE MOBILIZATION WORKSHOP

DAY 1- Wednesday, November 30, 2022

- 11:00 EST **Kick-off**
- 11:10 **Welcome remarks**
*Marc D'lorio, Assistant Deputy Minister of Environment and Climate Change
Canada's Science and Technology Branch*
- Fate and Transport**
- 11:15 **"Plastic pollution in biota in the Arctic"**
Jennifer Provencher, Environment and Climate Change Canada
- 11:30 **"Microplastics and Plastic Associated Contaminants in the Snow Deposition in the Canadian Arctic"**
Ingrid Granados-Galvan, L'Université du Québec à Rimouski
- 11:45 **"pELAsTic Part I: Measuring the fate and effects of microplastics via littoral and pelagic in-lake mesocosm experiments at IISD-ELA"**
Chelsea Rochman, University of Toronto
- 12:00 – 12:30 Break**
- 12:30 **"Fate and transport of microplastics on shorelines"**
Chunjiang An, Concordia University
- 12:45 **"Quantifying and characterizing microplastics in water and zooplankton from eight lakes in British Columbia, Canada"**
Natasha Klasios, University of British Columbia
- 1:00 **"Microplastic composition and concentration in Canadian biosolids and agricultural biosolid applications"**
Jesse Vermaire, Carleton University
- 1:15 **"Source-specific identification, characterization and control of microplastics across a remote, rural and urban gradient"**
Miriam Diamond, University of Toronto
- 1:30 – 2:00 Break**

2:00 **“Lagrangian tracking of Virtual Fibers in the Strait of Georgia”**

Jose Valenti, University of British Columbia

2:15 **“Degradation of consumer plastics into microplastics and nanoplastics”**

Nariman Yousefi, Toronto Metropolitan University

Microplastics as Vectors

2:30 **“Micro- and nanoplastics as vectors for organic contaminants”**

Jeff Farner, University of Alberta

2:45 **“What drives microplastic toxicity?: Distinguishing the effects of plastic microparticles from their additives”**

Ludovic Hermabessiere, University of Toronto

3:00 – 3:15 Closing remarks - day 1

DAY 2 – Thursday, December 1, 2022

11:00 **Welcome**

Microplastics as Vectors

11:05 **“Can Biofilm Present on Microplastics Impact Drinking Water Consumers?”**

Robert Andrews and Husein Almuhtaram, University of Toronto

11:20 **“Long-term impacts of common microplastic polymers and plastic additives on the behaviour and proteome of juvenile Lake Trout (*Salvelinus namaycush*)”**

Haley Macleod, Lakehead University

Toxicology and Environmental Impacts

11:35 **“The pELAstic Project, Part II: Evidence for the ecological effects of microplastic pollution through ecosystem-based experimentation”**

Diane Orihel, Queen’s University

11:50 **“Characterizing the exposure and effect of microplastics to freshwater and terrestrial biota”**

Ryan Prosser, University of Guelph

12:05 – 12:30 Break

- 12:30 **“Investigating microplastics as an interference agent in root-soil-microbial interactions”**
Cameron Proctor, University of Windsor
- 12:45 **“Effects of sub-chronic exposure of mice to nanoplastics on male reproductive tissues”**
Daniel Cyr, Institut national de la recherche scientifique
- 1:00 **“Microcosm study of the effects of polyester microfibre on indigenous marine amphipods: the implication for the Strait of Georgia ecosystem”**
Oladimeji Iwalaye, University of British Columbia and Oceanwise
- 1:15 **“Polyethylene microplastic beads are pulverized in the digestive system of a cricket, but with little impact on insect growth rates”**
Heath MacMillan, Carleton University
- 1:30 **“Occurrence and Ecotoxicological Effects of Micro/Nanoplastics in Saskatchewan Watersheds”**
Yao Yao, University of Regina
- 1:45 **“Plastic degradation at sea and in the laboratory”**
Emilien Pelletier, L'Université du Québec à Rimouski

Analytical Methods

- 2:00 **“Novel Approaches to Detect and Image the Smallest Plastics”**
Nathalie Tufenkji, McGill University

2:15 – 2:30 Break

2:30- 3:30 Federal Interdepartmental Panel on Plastic Science
Environment and Climate Change Canada, Health Canada, Crown-Indigenous Relations and Northern Affairs Canada, National Research Council Canada, Fisheries and Oceans Canada, Agriculture and Agri-Food Canada

- 3:30 – 3:45 **Closing remarks**
Matt Cloutier, Director General of Environment and Climate Change Canada’s Science and Technology Strategies Directorate, Science and Technology Branch, Environment and Climate Change Canada