



GREAT LAKES NEARSHORE WEBINAR SERIES

Background

The nearshore is where the land meets the water. The Canadian side of the Great Lakes includes over 8,500 km of shoreline, with a variety of nearshore ecosystems including wetlands, bluffs, cliffs, and river mouths. Nearshore waters are a key priority for restoration and protection because they are the source of drinking water for most communities within the basin, are the areas of the lakes where most human recreation (e.g., swimming, boating, fishing, wildlife viewing) occurs, and are the critical ecological link between watersheds and the open waters of the Great Lakes. However, nuisance and harmful algae, harmful chemicals, bacterial contamination of beaches and impediments to coastal processes are impacting water quality and ecosystem health in the nearshore. Environment and Climate Change Canada (ECCC) has conducted the first cumulative assessment of the Canadian portion of the Great Lakes nearshore waters to better understand what stretches of shoreline are under stress and why. The Great Lakes community is invited to learn about the findings of this assessment, as well as hear from additional speakers showcasing some methods for better understanding these stresses or approaches to address the threats causing them.

Registering for the Series

This series is open to members of the public. We have invited speakers from across the Great Lakes basin to share their work and projects to help improve the health of the nearshore waters. There will be opportunities to ask questions and engage with the speakers and ECCC team.

We welcome you to share this invitation with your networks. **Please ensure that you register to each individual event.** Your registration link is unique to you and cannot be shared with others, so please encourage others to register for the event using the links provided.



Series Sessions and Registration Links

<p>Session 1: Out of sight, but not out of mind - Contaminants in Water, Sediment and Fish</p>	<p>Session 2: 8,500 km of Great Lakes shoreline: Coastal Processes</p>	<p>Session 3: With Great Lakes, comes Great Responsibility: Areas of High Ecological Value</p>	<p>Session 4: Nutrients, too much of a good thing - Nuisance & Harmful Algae</p>
<p>November 23, 2021</p>	<p>December 2, 2021</p>	<p>December 7, 2021</p>	<p>January 13, 2022</p>
<p>5:30 – 7:30 pm EST</p>	<p>5:30 – 7:30 pm EST</p>	<p>5:30 – 7:30 pm EST</p>	<p>5:30 – 7:30 pm EST</p>
<p>Registration Link</p>	<p>Registration Link</p>	<p>Registration Link</p>	<p>Registration Link</p>





Session 1: Nov.23,2021

Out of sight, but not out of mind - Contaminants in Water, Sediment and Fish

- 5:30 – 5:40 Welcome
- 5:40 – 6:10 Environment and Climate Change Canada Presentation
 - Assessing Cumulative Stress in the Canadian Great Lakes Nearshore
- 6:10 – 7:10 Guest Speakers
 - **Satyendra Bhavsar**, PhD
Ontario Ministry of the Environment, Conservation and Parks
Great Lakes Fish Contaminants: Levels, Trends, Assessments
 - **Gregary Ford**, Great Lakes Water Monitoring Manager
Swim Drink Fish Canada
Citizen science beach water quality monitoring
 - **Tom Edge**, PhD, Adjunct Professor
McMaster University
Tracking bacterial contamination of nearshore waters
- 7:10 – 7:25 Questions and Discussion
 - Audience members are invited to participate in an open discussion
- 7:25 – 7:30 Closing Remarks
 - Closing remarks and next steps

Session 2: Dec.2,2021

8,500 km of Great Lakes shoreline: Coastal Processes

- 5:30 – 5:40 Welcome
- 5:40 – 6:10 Environment and Climate Change Canada Presentation
 - Assessing Cumulative Stress in the Canadian Great Lakes Nearshore
- 6:10 – 7:10 Guest Speakers
 - **Peter Zuzek**, Coastal Geoscientist and President
Zuzek Inc.
Coastal processes in the Great Lakes nearshore
 - **D.G. Blair**, Executive Director
Stewardship Centre for British Columbia
Green Shores, a model for coastal resiliency action
 - **Cory Harris**, Watershed Services Coordinator
Ganaraska Region Conservation Authority
Shoreline management planning beyond hazards
- 7:10 – 7:25 Questions and Discussion
 - Audience members are invited to participate in an open discussion
- 7:25 – 7:30 Closing Remarks and next steps
 - Closing remarks and next steps





Session 3: Dec.7 ,2021

With Great Lakes, Comes Great Responsibility: Areas of High Ecological Value

- 5:30 – 5:40 Welcome
- 5:40 – 6:10 Environment and Climate Change Canada Presentation
 - Assessing Cumulative Stress in the Canadian Great Lakes Nearshore
- 6:10 – 7:10 Guest Speakers
 - **Isobel Heathcote**, PhD, President of Wyndham Research Inc.
Wyndham Research Inc.
Areas of High Ecological Value
 - **Scott Parker**, PhD, Ecosystem Scientist & Great Lakes Coordinator
Parks Canada
Great Lakes Protected and Conserved Areas
 - **Patrick Rivers**, Great Lakes Program Officer
Environment and Climate Change Canada
Assessing and enhancing the resiliency of Great Lakes coastal wetlands
- 7:10 – 7:25 Questions and Discussion
 - Audience members are invited to participate in an open discussion
- 7:25 – 7:30 Closing Remarks
 - Closing remarks and next steps

Session 4: Jan. 13, 2022

Nutrients, Too Much of a Good Thing:
Nuisance and Harmful Algae in the Great Lakes Nearshore

- 5:30 – 5:40 Welcome
- 5:40 – 6:10 Environment and Climate Change Canada Presentation
 - Assessing Cumulative Stress in the Canadian Great Lakes Nearshore
- 6:10 – 7:10 Guest Speakers
 - **Sandra George**
Environment and Climate Change Canada
Nutrient reduction strategy in Lake Erie
 - **Dave Depew**, PhD, Research Scientist, Nutrients
Environment and Climate Change Canada
Current science of nuisance algae
 - **Peter Esselman**, PhD, Research Fisheries Biologist
United States Geological Survey
Innovative approaches to algae mapping
- 7:10 – 7:25 Questions and Discussion
 - Audience members are invited to participate in an open discussion
- 7:25 – 7:30 Closing Remarks
 - Closing remarks and next steps

