



## Call for Papers

### Breaking down barriers between statistics and environmental science

The International Environmetrics Society (TIES) and Trent University's School of the Environment are co-organizing the **2023 TIES Regional Meeting**, which will take place **from the 24<sup>th</sup> to 29<sup>th</sup> July, 2023 in Peterborough, Ontario, Canada**.

Trent University is situated on the treaty and traditional territory of the Mississauga (Michi Saagiig) Anishnaabeg, which includes Curve Lake First Nation, Alderville First Nation, Hiawatha First Nation, and the Mississaugas of Scugog Island First Nation, along the beautiful Otonabee River and centered in 1400 acres of the environmentally protected Trent Symons Campus Lands. Trent is a leader in Indigenous studies - the first university in Canada, and only second in North America to establish an academic department dedicated to the study of Indigenous peoples and Indigenous knowledge. An interactive map of the campus is available here: <https://www.trentu.ca/map/>

The TIES 2023 Regional Meeting will be offered in a **hybrid format** to welcome both online delegates and those participating in-person. The meeting's program will be a mixture of plenary talks, invited and contributed session paper presentations, and speed-talks by graduate students.

This meeting will provide an excellent opportunity for you to:

- receive feedback on your latest work, engage in debates, and refine your ideas
- network with others in environmetrics and its interdisciplinary fields that includes statistics, environmental science, and data science
- advance your career by forging new interdisciplinary collaboration, publishing your work in several special journal issues
- learn about the very latest news and research
- improve your presentation and communication skills
- meet your academic heroes
- attend fun social events, visit and learn about a special place, and interact with nature

Journal special issues will also be launched, welcoming submissions linked with papers presented at this meeting, namely: *The International Journal of Environmental Research and Public Health* (MDPI) and *Modeling Earth Systems and Environment* (MESE) (Springer).

The Scientific Committee is now accepting submissions for contributions in the form of papers that align with the conference theme, ***Breaking Down Barriers between Statistics and Environmental Science***. We encourage submissions focusing on the application of statistical methods to real-life problems and showing impact in other disciplines that address one of the following topic areas:

- *Climate, climate change, and climate systems*
  - *Integrative data analysis*
  - *Spatial and spatio-temporal modeling, statistics, and data governance*
  - *Ecological modeling*
  - *Air pollution measurement, monitoring, modeling and impact*
  - *Environmental data science*
- 
- **Topic 1: Climate, climate change, and climate systems**  
Climate change is an ever-present topic at our meetings. In addition, a broad cross-section of environmental science is interested in problems connecting to climate systems and climate change.
  - **Topic 2: Integrative data analysis**  
Integrative data analysis is the pooling of two or more independent data sets for analysis. Ecological and environmental data are often recorded at wildly differing temporal and spatial scales, and the tools and methods for working with these data types are complex and multifaceted. We hope to see talks in this topic from both the side of the environmental data *gatherers*, and from the environmental data *modelers*.
  - **Topic 3: Spatial and spatio-temporal modeling, statistics, and data governance**  
Spatial data, spatio-temporal data, and the mathematical and statistical models that deal with their complexities. Also issues of data governance at large scales, to deal with the massive data sets that can result.
  - **Topic 4: Ecological modeling**  
Ecological data and modeling, from surface to sea depths. Models for animal population movement, fisheries stocks, and other connected areas. Ecological transport models and habitat.
  - **Topic 5: Air Pollution Measuring, Monitoring, Modeling and Impacts**  
Air pollution in its multitudinous forms, from particulate matter to carbon dioxide. Connections with remote sensing, and integrative data analysis. Questions of policy, from monitoring to impact measurement, including epidemiological applications.
  - **Topic 6: Environmental data science**  
Tool building, software development, workflow, processes for building, analyzing and integrating data.

Submit your paper's talk abstract (250-300 words) **by 17 March, 2023** through EasyChair:  
<https://easychair.org/cfp/TIES2023>

Submit a session proposal (3-5 talks) **by 17 March, 2023** by emailing the organizers directly at:  
[ties.meeting.2023@gmail.com](mailto:ties.meeting.2023@gmail.com).

Please visit the conference website for more information and updates:  
<https://www.environmetrics.xyz/TIES2023>

### **Key Dates (2023)**

**25 January** - Proposed contributed session abstract submission period opens

**17 March** – "EOD" Deadline to submit abstracts and session proposals (invited or contributed)  
(EOD is the conclusion of the calendar day relative to a sender's time zone)

**7 April** - Notification of abstract acceptance (anticipated)

**1 July** - Refereed paper submission opens

**15 September** - Refereed proceedings paper submissions close