



NSIS 2022-2023 LECTURE SERIES NSIS1862.CA

October 3

How the black soldier fly can help turn the global protein crisis around



Dr. Greg Wanger
Oberland
Agriscience

Insect farming is a growing industry whose goal is to help address the protein crisis.

Dr. Wanger will discuss the black soldier fly, which can bio convert our food waste into a high-protein insect meal.

November 7

Drawing on Science: Mastodons of Nova Scotia



Dr. Tim Fedak
Curator of Geology,
Nova Scotia
Museum

The new NS Museum exhibit Age of the Mastodons shares some of the exciting new research of **Mastodons** from Nova Scotia.

Dr. Fedak will summarize recent mastodon discoveries from both latest field discoveries, as well as from new research of mastodon fossils found almost two hundred years ago.

December 5

New lessons from old mountains; what are our rocks trying to tell us?



Dr. Deanne van Rooyen
Associate Professor,
Acadia University

The Appalachian Mountains in Canada's Atlantic Provinces have a long history of study.

This talk will take you behind the scenes of geological research and illustrate how the **geology** of where we live influences every part of our history and informs decisions we make in the present.

January 9

Getting Nova Scotia Off Oil, Off Coal, and Off Gas



Dr. Kathlyne Nelson
NS Department of
Natural Resources
and Renewables

Nova Scotia has set ambitious climate change goals.

Dr. Nelson will share her work on **energy efficiency** and **renewable energy** in the province with a focus on helping the most vulnerable Nova Scotians.

All lectures will be hybrid events held at St. Mary's University (Stephanie MacDonald Lecture Theatre, SMU Atrium 101) and on line via Zoom links that will be posted one week before each seminar on the NSIS Public Lectures webpage .

1ST MONDAY OF EVERY MONTH 7:30 PM

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February 6

Student Symposium: Climate Science in NS



Join us as we discover the latest research findings of **student scientists** working at nearby NS research institutions, who are studying topics related to climate change in the province of Nova Scotia.

March 6

Accelerating natural ocean CO₂ sequestration as a climate change solution? Testing the safety and viability of Ocean Alkalinity Enhancement



Dr. William Burt
Planetary
Technologies

Dr. Burt's talk will outline a process called **Ocean Alkalinity Enhancement** (OAE) that has the potential to remove CO₂ from the atmosphere while de-acidifying our oceans. The premise of OAE will be discussed, as well as the research being done into it's viability and safety, and the role Halifax is playing in this exciting new field.

April 3

How to Stop Global Warming



Dr. Andrew MacDougall
Associate Professor,
St. Francis Xavier
University

For the past 15-yrs **climate science** has focused on how long carbon sinks can continue to absorb carbon before they become saturated and potentially transition to carbon sources.

This talk will focus on the findings of this research including climate-carbon feedbacks loops, the extraordinarily long lifetime of global warming, and the need to reduce emission to zero to stabilize global temperature.

May 1

Winter: A Bug's-Eye View



Dr. Jantina Toxopeus
Assistant Professor,
St. Francis Xavier
University

Understanding how animals interact with and survive low temperatures is important, especially as our winters become less predictable due to climate change.

This talk will focus on the **over-wintering biology of insects**, and what these chilly critters can teach us about surviving in the frozen state!

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