

OCTOBER 4

Money Often Costs too Much

Reconsidering forest practices in Nova Scotia



Andy Kekacs Executive Director, Nova Scotia Woodlot Owners & Operators Association (NSWOOA)

For 50 years, Nova Scotia embraced an industrial model of forest management, which emphasized the growth and harvesting of small-diameter softwood trees for commodity products such as wood pulp and small dimensional lumber.

Andy Kekacs discusses the impacts of that strategy on Nova Scotia's forest: the growing discontent among woodland owners: foundations of our current interest in ecological forestry; and following the path toward holistic forest management.

NOVEMBER 1

Making the Transition to Low-Carbon Energy in Atlantic Canada: How Will We Get There?



Dr. Wayne Groszko Professor, Nova Scotia Community College (NSCC)

The transition to clean, renewable energy to reduce carbon dioxide emissions and address climate change is now proceeding rapidly around the alobe.

What might that transition look like in Atlantic Canada? In this talk Dr. Wayne Groszko will explore pathways to a low carbon global society and the options and progress ahead for our region, with examples from the applied energy research being conducted at the Nova Scotia Community College.

Access the Zoom link on the NSIS Public Lectures page one hour before lecture start.

DECEMBER 6

COVID-19 Student Research in Nova Scotia



Kaleigh McLeod Saint Mary's University

Sumaiya Amin St. Francis Xavier University

Hillary Fry Mount Saint Vincent University

Dalhousie University

Student Showcase Topics

- An exploration of NS Thermomechanical Wood Pulp for Mask Production
- A genetic programming approach to find an effective vaccination strategy
- Infant Feeding during COVID-19 in Nova Scotia
- COVID-19 and the Nervous System: The role of inflammation and the blood-brain barrier

Mi'kmaw Knowledge Holders,

Basque and Marshall, and CBU's Beresford, have worked together on the restoration

of the Bras d'Or Lake oyster

and will share the stories of

industry for the past 15 years

Last year, Basque, Beresford,

JANUARY 3

Traditional Ecological Knowledge and Molecular Biology Side by Side

Engaging students, communities, and industry



Rod Beresford Cape Breton University





Lindsay Marshall Potlotek First Nation Cape Breton University



their shared journey



Potlotek First

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FEBRUARY 7

Tidal Wetland Restoration & Ecosystem Services in the Bay of Fundy Dykelands



Dr. Jeremy Lundholm Saint Mary's University

Dr. Alana Pindar Cape Breton University

Dr. Danika Van Proosdij Saint Mary's University

Dr. Kate Sherren Dalhousie University The Fundy Dykelands are a dynamic, working landscape threatened by sea level rise.

Communities are faced with deciding whether to shore up dykes to protect agricultural land, or move dykes back, allowing for tidal wetland restoration. Understanding these issues requires input from the physical, biological and social sciences.

This interdisciplinary panel will discuss how scientists are working with local communities to help restore resilience to our coastlines.

MARCH 7

Tiny Materials for Big Challenges Designing Next Generation Nanomaterials



Department of Chemistry, Dalhousie University

Nanomaterials can be up to 10,000 times smaller than the width of a human hair and yet they possess great potential to address some of the big challenges humanity faces today.

They have already been applied in food, cosmetics, electronic devices, medical diagnosis and treatment, and environmental remediation. just to name a few. Dr. Dasog discusses nanomaterials that can harvest sunlight and use it to generate chemical fuels, electricity, and potable water.

APRIL 4

Tick Talk: Small Pest, Big Problem



Dr. Nicoletta Faraone Department of Chemistry, Acadia University

Ticks vector the widest array of disease-causing organisms of all blood-feeding arthropods and are second only to mosquitoes in their capacity to transmit disease agents of importance to human and veterinary health.

Being almost totally blind, ticks rely on chemosensation to identify and locate hosts for a successful blood meal.

Understanding the mechanism behind attraction and repellency induced by certain chemicals in ticks is pivotal to develop effective tick repellent products and avoid the transmission of pathogens that vector diseases, like Lyme disease.

MAY 2 | AGM 2022

Public Health Systems in Canada Pandemics, Plagues, and the Power of Prevention



Dr. Gaynor Watson-Creed Assistant Dean of Serving and Engaging Society, Faculty of Medicine, Dalhousie University

Dr. Watson-Creed will review and comment on how public health in Canada really works, from an insider's point of view, including during pandemics like the COVID pandemic of the past two years.

Access the Zoom link on the NSIS Public Lectures page one hour before lecture start.