

# OERA Energy Update

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Keeping you in the loop on OERA's active RFPs and upcoming webinars, as well as noteworthy energy news happening close to home and around the world.

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## Funding Opportunities

We're currently inviting proposals for the following:



### **RFP - Paleogeography-to-Petroleum Systems: Research Innovations for Offshore Nova Scotia (PaGeo2)**

- **Deadline: Friday August 28, 2020; 4:00 pm (Atlantic Time)**

OERA, in collaboration with the Nova Scotia Department of Energy and Mines, is seeking proposals from service companies, academic groups, or collaborative combinations thereof to provide fundamental advances and insights on the general geological factors that impact Nova Scotia's offshore petroleum resources through a reassessment of basic basin-forming and petroleum system-forming constraints and processes.

PaGeo2 projects will address the basic boundary conditions for basin formation and petroleum system evolution in offshore Nova Scotia. Proposals should emphasize how increased rigour, increased breadth, increased focus, or increased innovation have the potential to significantly advance the analysis of Nova Scotia's offshore hydrocarbon potential beyond that available in present models.

This RFP will close on August 28, 2020 at 4 p.m. ADT. Full information on the Request for

Proposals and how to apply is available [here](#).

*Please note, OERA may, at its sole discretion, reject any and all, or parts of any and all, proposals; postpone or cancel at any time this RFP process; waive any minor irregularities in the RFP or the responses received as a result of this RFP.*

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## Building Knowledge and Capacity

Our focus at OERA is on empowering impactful energy research and sustainable resource and economic development in Nova Scotia. On an ongoing basis, the research teams we collaborate with are building and sharing intellectual property around renewable energy technologies, cleantech initiatives and geoscience. Here are some of the most recent outcomes of work we support:



- [Advancements in technologies and techniques for tidal energy development](#)
- [Quantifying Fish-Turbine Interactions Using New VEMCO Tagging Technology](#)

- [Seismic Reconstruction and Petroleum Systems Modeling of the Nova Scotia-Morocco Conjugate Margin](#)
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## Free Online Education

We work to create opportunities for researchers, people working with industry and government and students to connect, share knowledge and information and learn. Everyone is welcome to attend our live webinars, and new sessions are offered each month. Here's what's coming up next:

### **Tethers Redefined: Hybrid ROVs and New Applications in Open Water and Under Ice**

*Andrew Bowen, Principal Engineer & Dr. Mike Jakuba, Senior Engineer, Woods Hole Oceanographic Institution*

August 20, 2020, 1:00 - 2:00 p.m. ADT

This webinar will feature research involving the NUI vehicle, a hybrid ROV intended to provide open-water ROV-like capability beneath ice. The session will include a discussion about the design and operation of the NUI's unarmored micro-tether, the hybrid control methodology that enables operating the vehicle directly or semi-autonomously and handles forced transitions between modes in case of tether loss, the use of acoustics for communication and navigation, and recent upgrades. Included in the webinar will be an overview of field results and lessons learned.

*"Tethers Redefined: Hybrid ROVs and New Applications in Open Water and Under Ice"*



**oera**  
webinar  
series

Andrew Bowen, Principal Engineer  
Dr. Mike Jakuba, Senior Engineer  
Woods Hole Oceanographic Institution  
Thursday August 20 | 1:00PM AST

Woods Hole  
Oceanographic  
INSTITUTION  
**OERA**  
REGISTER AT  
[oera.ca/outreach](http://oera.ca/outreach)

[Register here for webinar](#)

[Past webinars available online](#)

You can also check out our library of past webinars. Watch any of them here, on demand anytime. In case you missed it, a recording of **"Oil & Gas 101"** featuring Natasha Morrison of Nova Scotia Department of Energy & Mines is available [here](#).

[Watch Here](#)

## Researcher Spotlight



**Dr. Georgia Pe-Piper, Professor Emerita, Department of Geology, Saint Mary's University**

[Dr. Georgia Pe-Piper](#)'s training and early experience as a geologist involved the mineralogy and geochemistry of volcanic rocks and broadened into interests in granites and the relationship of tectonics to the formation of igneous rocks.

"But at the beginning of the 21st century, I realised that there were more opportunities for employment of students in petroleum geology than in mineral exploration, where many of my earlier students had found work," she says. "So, I took on the new challenge of applying my skills in mineralogy and geochemistry to the understanding of the Scotian Basin, offshore Nova Scotia."

Dr. Pe-Piper says she had support as she made the shift from one area of geological focus to another. "I was helped in this transformation by David Brown of the Canada-Nova Scotia Offshore Petroleum Board, who saw the practical value of the type of work that I could do."



She adds that, “As I come nearer the end of my geological career, I want more than ever to pass on my skills and experience to the next generation.”

*Learn more about Dr. Pe-Piper’s work when she presents her webinar: ‘The use of titania polymorphs as indicators of hydrocarbon migration in sedimentary basins’.*

*September 24, 2020, 1 p.m. – 2 p.m. ADT*

[Register here for webinar](#)

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## In the News

We track energy and research news on an ongoing basis. Here are some noteworthy items published in recent weeks:

- [Seismic surveying off N.L. cause for concern for fish harvesters, researcher says](#)
- [First shipment of Alberta oil arrives in Saint John after journey through Panama Canal](#)
- [Research finds fishing gear a major source of ocean microplastics in Atlantic Canada](#)
- [Janet Mills signs deal with Hydro-Quebec to provide corridor electricity to Maine](#)
- [New England energy transition could require 71 GW of new clean energy capacity](#)
- [Energy major announces plans to produce hydrogen from ‘largest plant of its kind’](#)

*Note that subscriptions may be required to access some publications.*

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## OERA Online Exchange

This online event offers an opportunity to gather for a facilitated discussion featuring energy thought leaders. We’re taking a short summer break but watch for our next OERA Online Exchange in fall 2020. Please stay tuned for further details.

In the meantime, if you missed our live sessions, catch up on some of the great conversations we’ve had in recent months by tuning in to the recordings below.

## **Energy Transition: What's the role of innovation in the shift to a greener economy?**

Featuring special guests:

- Dr. Richard Florizone, International Institute of Sustainable Development
- Helen Mountford, World Resources Institute

[Listen Here](#)

## **How will COVID-19 change our energy future? Perspectives on challenges and opportunities for renewables**

Featuring special guest:

- Julia Attwood, Head of Advanced Materials, Bloomberg NEF.

[Listen Here](#)

## **How will COVID-19 change our energy future: A perspective on what's next for oil & gas**

Featuring special guest:

- Dr. Brad Hayes, President, Petrel Robertson Consulting Ltd.; Adjunct Professor - Earth and Atmospheric Sciences, University of Alberta; Director, Canadian Society for Unconventional Resources

[Listen Here](#)

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## **Who we are**

At OERA, our focus is on ensuring a sustainable energy future for Nova Scotia. To help achieve that, we facilitate research into renewable energy technologies, cleantech initiatives and geoscience. We help meet energy sector research needs by facilitating

collaborative, made-to-order teams of experts.

[Contact us](#) to find out more.

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## Comments?

We'd appreciate hearing from you at [nperry@oera.ca](mailto:nperry@oera.ca).



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