



NRESi WEEKLY NEWS

December 1 - 5, 2014

A newsletter for faculty, staff and students
who participate in the
Natural Resources & Environmental Studies Institute
and NRES Graduate Programs

NRESi NOTES

FROM THE DIRECTOR & RESEARCH MANAGER

Hello everyone,

Today we are excited to be able to announce details for NRESi's 2015 Annual Lecture! This year we will be welcoming David Hughes on Thursday, April 16th for the public lecture, starting at 7pm. David has also agreed to be part of our winter colloquium series, speaking again on Friday, April 17th. Mark your calendars!

David is a BC resident living in the northern Gulf Islands, where he recently retired after over 30 years at the Geological Survey of Canada. His role was studying fossil fuel supply forecasting and since retiring, he has continued to engage in this area by using factual evidence to shine a light on the often optimistic estimates of oil and gas reserves available from unconventional sources, as well as the prospects for LNG development in BC. He is a Fellow in the [Post Carbon Institute](#) and remains active by continuing to explore the opportunities and issues of LNG and other energy resources. For our talk, we will hear David look at the LNG industry and BC's natural gas supply, including facts and perspectives from his experience. We look forward to having the university and wider community involved in what promises to be interesting presentations!

If you wish to read more about David's work, have a look at the below links to some of his reports and media:

- Background & publication links, on the [Post Carbon website](#)
- [Globe and Mail article](#)
- Publication: Hughes, D.J. (2013). Energy: A reality check on the shale revolution. *Nature* 494, 307–308. (article [here](#))
- Article in [The Walrus](#)

Have a great weekend!

Leanne Elliott
NRESi Research Manager

A beautiful photo of a frozen Shane lake, before the snow arrived...

Photo: Hugues Massicotte



REMINDER: Share your information about recent publications, grants, and/or other honours you may have received with others interested in future NRESi issues.

PLEASE EMAIL ALL INFORMATION AND MATERIAL TO: leanne.elliott@unbc.ca

COMING EVENTS

NRESI RESEARCH COLLOQUIUM SERIES

Robert Hodgkinson
Forest Entomologist, Omineca & Northeast Regions
BC Ministry of Forests, Lands and Natural Resource Operations



Application of Bacillus Thuringiensis Against 2-Cycle Budworm at Mt. Tom in 2012

The biological insecticide *Bacillus thuringiensis* var *kurstaki* has been used for many years against major forest insect defoliators in North America. For the first time, it was decided to try it against the 2-cycle budworm in stands of Engelmann spruce and subalpine fir in the higher elevation Mt. Tom research forest east of Quesnel. A total of 890 ha were aerially treated at a rate of 2.4 litres per ha in early July 2012. Applications were made with a Hiller 12ET helicopter equipped with 4 Beecomist 361A ultra low volume hydraulic sprayers under good spray weather conditions. Efficacy sampling revealed significant population reductions due to treatment of 75-95% on subalpine fir but none on Engelmann spruce. Defoliation was significantly lower on all the treated subalpine fir, but not on the Engelmann spruce. The treatment also significantly reduced moth egg mass deposition by 85-88%. I will discuss some of the challenges of treating this insect and suggest some possible improvements for future work.

Friday, DEC 5th, 2014

3:30 pm - 4:30 pm

Room: Weldwood Theatre (7-238)

To participate remotely: http://www.unbc.ca/nres/nresi_webcast.html

OTHER UNBC EVENTS

**TERRACE LECTURE
SERIES**
**4837 Keith Avenue,
Terrace, BC**
12:00pm - 1:00pm

Local and Global Insights into the Future of Northern Mixedwood Forest Ecosystems

Dr. Ché Elkin

FRBC-Slocan Mixedwood Ecology and Management Chair, UNBC Associate Professor, Ecosystem Science and Management

December 18, 2014

This presentation will also be available to remote participants by following on [Livestream](#).

Abstract: Northern mixedwood forests provide a range of ecosystem services, including timber production, carbon storage, the maintenance of biodiversity and recreational opportunities. Regional climate drivers, along with forest disturbances and forest management practices, are some of the main factors which influence how these ecological systems will change through time. Using local and global examples, I will overview how interactions between these factors are projected to influence the future ecological and economic resilience of mixedwood systems, and highlight some of the challenges that we face with regard to future mixedwood forest management.

PUBLICATIONS

Rex, J.F., Petticrew, E.L., Albers, S.J. and Williams, N.D. (2014). The influence of Pacific salmon decay products on near-field stream bed sediment and organic matter dynamics: A flume simulation. *Earth Surface Process and Landforms*. 39: 1378–1385. doi: 10.1002/esp.3591

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THESIS DEFENSE NOTICE

GRADUATE THESIS DEFENCE

Mr. Som Pun is a candidate for the degree:

Masters of Natural Resources and Environmental Studies

Mr. Pun will be defending his thesis entitled:

"The Opportunities and Limitations of First Nations Forestry Agreements in British Columbia: Collective Experience of the Tl'azt'en Nation & the Future Need for Community-Based Resource Management & Decision-Making"

Supervisor: **Dr. Greg Halseth**

Date: **December 8, 2014** Time: 9:00am Room: Senate Chambers (PG Campus)

SUSAN STEVENSON SCHOLARSHIP FUND

As its first project of this kind, the Natural Resources and Environmental Studies Institute (NRESi) is building a fund to support a scholarship in memory of wildlife ecologist and NRESi member Susan Stevenson. During a 35-year career built primarily in the BC central interior, Susan designed and implemented important research and inventory projects related to mountain caribou habitat, lichen biology, and silvicultural systems, collaborating with a diverse range of researchers, and gave generously of her expertise to the next generation of scientists. Susan exemplified the Institute's values of interdisciplinary curiosity and unselfish collaboration, and enriched the lives of all those who worked and studied with her. The Institute invites you to join it in supporting the Susan Stevenson Scholarship Fund:

1. Visit UNBC Development Office's website: www.unbc.ca/giving
2. Click on the grey **Make a Gift** button
3. Enter the information requested
4. When you reach the question of **Please direct my donation to:** select **Other**
5. **Important** - In the **Comments** area, add that you would like your gift to be contributed to the **Susan Stevenson Scholarship Fund**

SHARE YOUR PHOTOS & STORIES

Do you have a favourite photo, story or update from your research that you would like to share with your fellow members and the broader NRESi community in the newsletter? Send them to Leanne to include in an upcoming edition!

COLLOQUIUM ARCHIVE

Did you miss a colloquium or special lecture? Visit NRESi's webcast archive to catch up! This can be found through the following link: <http://www.unbc.ca/nres-institute/colloquium-series/archived-colloquium-series>

ARCHIVE OF PAST EVENTS

Information, links, proceedings, and other information from past NRESi hosted and co-led events can be found at: <http://www.unbc.ca/nres-institute/special-events>. This site currently includes information about the Forest Tenure events (Annual Lecture and workshop) and a link to the Cumulative Effects Workshop site.

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