



# NRESi WEEKLY NEWS

## July 6 - 31, 2015

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

### NRESi NOTES

### FROM THE DIRECTOR & RESEARCH MANAGER

Hi everyone,

I hope you're having a great summer!

A couple of UNBC projects involving NRESi members have been getting a lot of attention the past few weeks. A UNBC team, including NRESi members Keith Egger and Hugues Massicotte, have recently received funding from Genome British Columbia and matched by UNBC's Office of Research to explore cancer-fighting properties of mushrooms. Also, Darwyn Coxson, together with other partners, have been working to move the process forward towards establishing the Ancient Forest as a park. There was media coverage on a recent announcement surrounding the beginning of the public and stakeholder consultation phase. Links to the press releases and media for both projects can be found on page 3 of the newsletter.



A beautiful shot of a longhorn beetle, part of the Cerambycidae family, hanging out on some goat's beard!  
Photo credit: Hugues Massicotte

Wishing you all a safe and relaxing long weekend!

Leanne Elliott  
NRESi Research Manager



Mushrooms can appear anywhere, including in the backyard (left) and as company to your potted plants!

Left: *Leccinum boletes*  
Right: *Leucocoprinus luteus*

Photos submitted by: 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](mailto:leanne.elliott@unbc.ca)**

**We're on the web at : [www.unbc.ca/nres-institute/newsletter](http://www.unbc.ca/nres-institute/newsletter)**

## DISSERTATION DEFENSE NOTICE

### GRADUATE DISSERTATION DEFENCE

Ms. Marley Bassett is a candidate for the degree:

**Master of Science in Natural Resources and Environmental Studies (Biology)**

Ms. Bassett will be defending her thesis entitled:

**“Temporal and Spatial Differences in Smolting Among Sockeye Salmon (*ONCORHYNCHUS NERKA*) Populations Throughout Fresh- and Seawater Migration and the Effect of Water Temperature on the Smolt Window”**

Supervisor: **Dr. Mark Shrimpton**

Date: **August 11, 2015** Time: 11:00am Room: Room 6-205/211 (PG Campus)

## PUBLICATIONS

**Connell, David J.**, Jessica Shapiro, and **Loraine Lavallee** (2015). Held Forest Values of the Ancient Cedars of British Columbia. *Society and Natural Resources: An International Journal*, [on-line] DOI: 10.1080/08941920.2015.1041660 (Jessica Shapiro is also a NRES MA graduate.)

Higgins, R. J., **Lindgren, B.S.** 2015. Seral changes in ant (Hymenoptera: Formicidae) assemblages in the sub-boreal forests of British Columbia *Insect Conservation and Diversity* 8: 337–347. Article first published online: 27 JAN 2015 DOI: 10.1111/icad.12112. Available online [here](#).

Kissinger, B.C., **Gantner, N.**, Anderson, W.G., Gillis, D.M., Haldena, N.M., Harwood, L.A., Reist, J.D. 2015. Brackish-water residency and semi-anadromy in Arctic lake trout (*Salvelinus namaycush*) inferred from otolith microchemistry. *Journal of Great Lakes Research* In press. doi:10.1016/j.jglr.2015.05.016. Available online [here](#).

Klaczek, M.R., **Johnson, C.J.**, and Cluff H.D. 2015. Den site selection of wolves (*Canis lupus*) in response to declining caribou (*Rangifer tarandus groenlandicus*) density in the central Canadian Arctic. *Polar Biology*. DOI 10.1007/s00300-015-1759-z

**Lautensach, A.K.** 2015. Mobilising Curriculum Towards Human Security: The Importance Of Biology. EDULEARN15: 7<sup>th</sup> International Conference on Education and New Learning Technologies. 6-8 July 2015, Barcelona, Spain. (virtual presentation; proceedings forthcoming). See more [here](#).

Manson, D., Markey, S., Ryser, L., **Halseth, G.** 2015. Recession response: cyclical problems and local solutions in northern British Columbia. *Journal of Economic and Social Geography* In press. DOI: 10.1111/tesg.12153. Available online [here](#).

Musotto, L.L., Borromei, A.M., Coronato, A., **Menounos, B.**, Osborn, G., Robert Marr, R. 2015. Late Pleistocene and Holocene palaeoenvironmental changes in central Tierra del Fuego (~54°S) inferred from pollen analysis. *Vegetation History and Archaeobotany*. Available online [here](#).

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## PUBLICATIONS (continued)

Ramsay, S. M., **Otter, K.A.** 2015. Geographic variation in White-throated Sparrow song may arise through cultural drift. *Journal of Ornithology* 156 (3): 763-773. DOI 10.1007/s10336-015-1183-8. Available online [here](#).

Skinner, M., **Hanlon, N.** (Eds.) (2015). Ageing resource communities: new frontiers of rural population change, community development and voluntarism. Oxford, UK: Taylor & Francis Group Ltd. (Available for pre-order now. More info [here](#).)

Zirul, C., **Halseth, G.**, Markey, S., Ryser, L. 2015. Struggling with new regionalism: government trumps governance in Northern British Columbia, Canada. *Journal of Rural and Community Development* 10(2). Available online [here](#).

## TRAVEL & CONFERENCES

**Rebecca Bowler** (MSc candidate), **Art Fredeen** (ESM), **Hugues Massicotte** (ESM) and Linda Tackaberry (Research Associate) attended the Joint Plant Canada-Botanical Society of America Congress from July 25-29 in Edmonton. Rebecca presented a summary of her thesis, Assessing photosynthesis, natural abundance of stable C and N isotopes, and populations following disturbance in putative partial myco-heterotrophic Pyroleae species in central British Columbia, co-authored with Art and Hugues. The abstract for Rebecca's presentation can be found [here](#).

**Paul Sanborn** and new adjunct **Barbara Cade-Menun** (Research Scientist, Agriculture & Agri-Food Canada, Swift Current, SK) are spending the last week of July at Calvert Island with their co-supervised MSc student, Lee-Ann Bauman. They are evaluating potential research sites for Lee-Ann's research project on organic phosphorus in a 10,000-year chronosequence of soils formed in dune and beach sands.

## IN THE NEWS

Kitimat research project involving NRESi member **Allan Costello** (ESM) and **NRES grad student, Eric Vogt**, was recently featured on the BC Habitat Conservation Trust Fund (HCTF) blog. Check it out [here](#).

A recent study on song dialect differences between white-throated sparrows in north central BC and those on the other side of the Rockies published by Scott Ramsay and **Ken Otter** in the *Journal of Ornithology*, was chosen as a highlight article for the current issue. See the Facebook link and scroll down to July 2 by clicking [here](#).

In an article about mining effects on Alaskan fish, a UNBC team including NRESi members **Philip Owens** and **Ellen Petticrew** fed in some of their thoughts, as a result of ongoing research after the Mount Polley tailings pond disaster. Read it [here](#).

The move to begin active discussions about making the Ancient Forest east of Prince George received a lot of media attention. **Darwyn Coxson** has been actively involved helping the partners to get to this point. He's featured in a number of media, including: [250 News](#), [CKPG News](#), [Rocky Mountain Goat News](#). See the news release from the BC Government [here](#).

A UNBC team, including NRESi members **Hugues Massicotte** and **Keith Egger**, has received a contract from Genome British Columbia and matched with UNBC's Office of Research to investigate cancer-fighting properties of mushrooms from northern BC. Read the UNBC press release [here](#). This new project has received a lot of media attention, including: [250 News](#), [PG Citizen](#), [CKPG News](#), [CBC BC News](#), and [Northern View](#).

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## IN THE NEWS (continued)

Keith Egger, outside of his UNBC role, is also an astrophotographer. The CBC wrote an article about his beautiful photos, where you can also see a few by clicking [here](#). There's an event on Friday, July 31st at Artspace in Prince George if you want to see and hear more - details [here](#).

## CUMULATIVE IMPACTS RESEARCH CONSORTIUM

The **Cumulative Impacts Research Consortium (CIRC)** is pleased to invite you to its upcoming launch event being held on **October 2-3, 2015 at the UNBC Campus in Prince George, BC.**

CIRC was created in the wake of a January 2014 forum hosted by the Community Development Institute, the Health Research Institute and the Natural Resources and Environmental Studies Institute at UNBC. The forum explored how to tackle the cumulative impacts of resource development across BC's northern regions. To continue fostering these conversations through dedicated research and community engagement, CIRC will investigate environmental, community and health impacts associated with resource development. For more information on CIRC, please visit [www.unbc.ca/cumulative-impacts](http://www.unbc.ca/cumulative-impacts).

The October launch event will: introduce CIRC's vision, academic leads, and advisory committee; share and discuss examples of research and practice on cumulative impacts across northern BC; and, provide opportunities for participants to share their concerns and help shape CIRC's future research and public engagement activities. We will also be launching a new book produced by UNBC researchers and northern community partners resulting from the January 2014 forum entitled: *The Integration Imperative: Cumulative Environmental, Community and Health Impacts of Multiple Natural Resource Developments*.

This event is open to the public and will take place on the evening of Friday October 2nd (6:30-9:00PM) and Saturday October 3rd (8:00AM-4:00PM). Light refreshments will be provided on Friday evening, with coffee and lunch provided to registered participants on Saturday. **We encourage you to RSVP (for attendance in person, or online for the Friday evening event) to help us plan accordingly.** A full schedule will be made available closer to the date of the event. For more information and to RSVP, please contact Chris Buse at: email - [chris.buse@unbc.ca](mailto:chris.buse@unbc.ca), 250.960.5778 (office) or 1.778.349.4242 (cell)

## 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 in supporting the Susan Stevenson Scholarship Fund:

1. Visit UNBC Development Office's website: [www.unbc.ca/giving](http://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**

## COLLOQUIUM ARCHIVE

Did you miss a colloquium or special lecture? Visit NRESi's webcast archive to catch up! They can be found [here](#).

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