



NRESi WEEKLY NEWS

January 5 - 9, 2015

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,

Happy New Year! I hope you all had a fun and relaxing break, with new opportunities ahead for 2015!

Our winter term of the colloquium will be kicking off today with Dr. Roy Rea talking about his moose-vehicle collision research. We are in the Weldwood Theatre (7-238) again this semester at the usual time, 3:30pm. Not having classes before and after the presentation like last term, we are able to again offer both Livestream and Collaborate to our remote participants. They can be accessed here: <http://www.unbc.ca/nres-institute/colloquium-webcasts>



NRESi, in partnership with the Community Development Institute, the Health Research Institute and the Pacific Institute for Climate Solutions, are excited to share their Cumulative and Community Impacts Research Consortium (CCIRC) initiative! This is built up from the success of the *Cumulative Environmental, Community and Health Effects of Multiple Natural Resource Developments in Northern BC* workshop that was held at UNBC in January 2014. Missed out on the event or wish to review the presentations again? All the documents can be found posted [here](#).

CCIRC is an open, central venue for dialogue and discussion about issues that matter to people, communities, First Nations, organizations, businesses, industry, researchers, and governments. There are three main objectives of the CCIRC: (1) foster integrative understandings of the increasingly intense challenge of cumulative impacts; (2) to conduct research in support of policy options for community development that local, regional, and provincial authorities can consider and potentially adopt; and, (3) to provide a platform for community engagement and dissemination of knowledge that will assist in understanding issues and options.

PLEASE SHARE: CCIRC is hiring a Research Associate to help move forward its work. The position would be well-suited to someone with a research-based graduate degree (i.e. at the postdoctoral level or Masters + experience), with a strong interest in the cumulative environmental, community, and health impacts of natural resource development, especially in northern Canada. **The application deadline is January 18th, 2015.** The job description and how to apply can be found [here](#) or on NRESi's website under *Graduate Positions*.

Have a great week!

Leanne Elliott, NRESi Research Manager

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

We're on the web at : www.unbc.ca/nres-institute/newsletter

COMING EVENTS

NRESI RESEARCH COLLOQUIUM SERIES

Dr. Roy Rea
Ecosystem Science & Management
University of Northern British Columbia



Moose-Vehicle Collisions: Some Definitions, Circumpolar Trends, Causes and Countermeasures

Moose-vehicle collisions occur wherever roads bisect moose habitat. Here, I use imagery, anecdote and literature to define what a moose-vehicle collision is, identify circumpolar diurnal and seasonal trends, describe what we know about root causes and explore countermeasures used to mitigate these collisions. Come see why such collisions are something you will want to avoid!

Friday, JAN 9th, 2015

3:30 pm - 4:30 pm **Room: Weldwood Theatre (7-238)**
To participate remotely: http://www.unbc.ca/nres/nresi_webcast.html

COMING EVENTS

NRESi - OFFICE OF RESEARCH SPECIAL LECTURE

Dr. Renfei Feng
Physicist
VESPERs Beam Line
Canadian Light Source



Synchrotron Radiation Source & Related Applications

Synchrotron radiation source is an accelerator based, extremely bright light source with some very unique properties. It enables the researches and applications which are not possible in the regular laboratories. This presentation will give an overview on the synchrotron radiation and its applications, which includes the principal, history, machine concept, and general applications in materials science, environmental science, agriculture, mineral, medical imaging, micromachining, etc. As an example of research facilities, Canadian Light Source will be briefly introduced. A few detailed research examples will be presented to show the capabilities of X-ray fluorescence spectroscopy, X-ray absorption spectroscopy and X-ray diffraction.

Thursday, JAN 15th, 2015

11:00 am - 12:00 pm

Room: 7-152

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OTHER UNBC EVENTS

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

Getting from Good to Great: Place-Making for Sustainability in Terrace, BC

Dr. Bob Patrick
PhD, MCIP, RPP, University of Saskatchewan
January 14th, 2015

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

Place-making is the art and science of creating good urbanism. The formula for place-making is rather simple, yet often difficult to achieve and requires attention to four essential ingredients: intensity, connectivity, diversity and density. Whether in Toronto or Terrace the formula is unchanging. Getting the right balance of these ingredients will depend on local context, natural features and built form. This talk will describe the art and science of place-making, as well as provide some insight into place-making for good urbanism and sustainability in Terrace, BC.

OTHER UNBC EVENTS

**GLOBAL FRIDAYS
SPECIAL
PRESENTATION**
7:00pm - 8:30pm
7-158

Natural Resource Exports: Curse or Blessing?

Dr. Daniel Drache
Associate Director, Roberts Centre for the Study of Canada, York University, Toronto
January 15th, 2015

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

There are many kinds of curses. Peak oil prices is the curse of short termism. Too much access is another curse. Mexico's GDP growth is one of the lowest in Latin America at around 3 percent Annually, despite having more access to the US market than any other country! Overspecialization can be a game changer. Under-regulation like over-regulation poses many dangers to a well-functioning economy. Can Canada be both blessed and cursed at the same time by its resource bounty, but with very different consequences? This is the burden of my talk at UNBC.

Is Canada's social market now a victim of 'too much of a good thing'? If we are to be forward-looking, the challenge of the 'Staples Trap' is to find an exit strategy for a sustainable economic future. Canada's developmental crisis has been shaped by a long list of game changers such as de-industrialization, neo-liberal market fundamentalism, a weak notion of resource stewardship and no strategic vision for sustainable resource development.

With the collapse of global oil prices and the shale oil revolution in the United States at full throttle, examining Canada's resource curse against the backdrop of the post 2008 global financial and energy crisis, I will argue that new policy options and practices are not only possible for Canada, but unavoidable.

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OTHER UNBC EVENTS

GLOBAL FRIDAY
12:00pm - 1:30pm
5-183

The Paradox of Bone-Rattling Structural Change

Dr. Daniel Drache
Professor of Political Science, York University
January 16th, 2015

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

The shockwaves from globalization continue to amaze and puzzle critics and proponents alike by its sheer complexity. The purpose of the talk is to investigate and reflect on the magnetic power of interdependency and the reasons why the global order remains so volatile, unstable, dangerous and unpredictable. To take stock and to gain perspective on the nature of transformative change requires new tools and concepts. Globalization is a paradoxical phenomenon on many levels. A paradox is defined as oppositions that coexist uneasily within a social order and are not readily resolved. They always require analysis and watching, because sometimes these exceptional differences intensify and the world shifts on its axis.

As we will come to see, the best theoretical efforts are increasingly a poor guide to reality. Analysts and students of globalization are right to ask a series of probing questions:

1. Is equilibrium possible between globalization and markets or between states and mega-markets? Can transformative change be tamed and re-directed?
2. The second probing issue is to discover whether we have reached the limit to global integration, or whether there is a limit?
3. Thirdly, is there a learning curve to neoliberalism enabling states to become more sophisticated managers of transnational global governance?
4. Fourthly, at this time of financial reform such as the Dodd-Frank Bill, Basel III and the Bank of England's recent efforts to prevent another financial meltdown, will the global capitalist system remain at its core neoliberal?
5. And finally, as for the international order, are we entering a world where every nation is for itself, every corporation for itself, and every social actor is looking to maximize their impact? What is the emerging vision?

As we will discover better answers are possible and needed.

THESIS DEFENSE NOTICE

GRADUATE THESIS DEFENCE

Ms. Alice McCulley is a candidate for the degree:

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

Ms. McCulley will be defending her thesis entitled:

“Habitat Use and Selection by Male and Female Moose (Alces Alces) in the Boreal Landscape”

Supervisor: **Dr. Katherine Parker**

Date: **January 12, 2015** Time: 1:00pm Room: Senate Chambers (PG Campus)

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IN THE NEWS

The news is from NRESi's social media connections to UNBC and others. See the original posts and hear the latest first by [following us!](#)

UNBC announces their new Vice President Academic and Provost, Dr. William (Bill) Krane, who come to us from SFU. Read the press release [here](#).

UNBC 2014 year in review - have a read of some of the highlights [here](#).

Article on the Site C dam, with insights to potential impacts on fish from Mark Shrimpton can be found [here](#).

Marla Schwarzfeld was on CBC Daybreak North discussing naming parasitic wasps. You may listen to the audio of the interview [here](#).

The Prince George Citizen interviewed Roy Rea ahead of his NRESi colloquium talk about his moose-vehicle collision research. The article can be found [here](#).

PUBLICATIONS

Schwarzfeld, M. D., Sperling, F.A.H. 2014. Species delimitation using morphology, morphometrics, and molecules: definition of the *Ophion scutellaris* Thomson species group, with descriptions of six new species (Hymenoptera, Ichneumonidae). *ZooKeys* 462: 59-114. doi: 10.3897/zookeys.462.8229 [available online: <http://zookeys.pensoft.net/articles.php?id=4314>]

OPPORTUNITY TO SUPPORT NRES ALUM PROJECT



Two former NRES graduates, Drs. Thibault and Angelique Grava (NRES PhD 2012), have just started a new venture back home in France. They are in the process of founding an organic dairy farm, which they are aiming to turn into an education centre on sustainable agriculture. Thibault is also continuing in animal behavior research by starting projects around apiculture as part of this initiative and Angelique will be leading the educational aspects of this program. This had been a plan they initially established while at UNBC, with their ultimate goal to eventually build this into an independent research station that students from the neighbouring Universities/Colleges could conduct field projects.

They have established a crowd-funding drive to help with initial financing and they have already collected more than 50% of their goal. They have just under a month to meet their target and are trying to spread the word for people who would like to support the initiative. To learn about the project or to contribute to the fund raising, visit their official site on [KissBank – a French crowd-funding site](#).

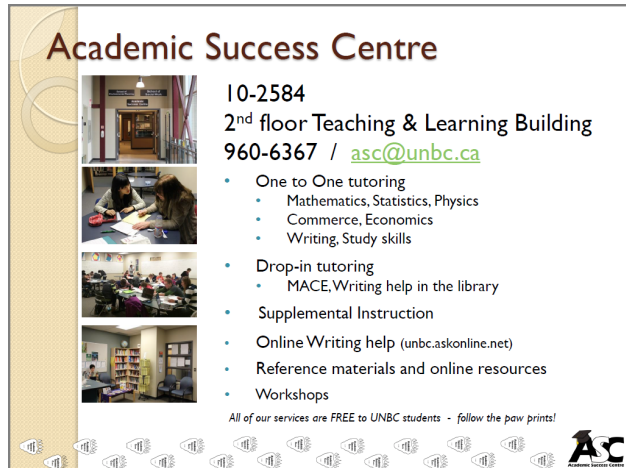
And they have figured out how to send their cheeses to donors in Canada! Contact them for more details.

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INFO FOR STUDENTS & INSTRUCTORS

Below is some information about support to UNBC students. Instructors, please pass this information onto your students, so they are aware of the services available and how they can access them. ASC's website: <http://www.unbc.ca/academic-success-centre>



Academic Success Centre

10-2584
2nd floor Teaching & Learning Building
960-6367 / asc@unbc.ca

- One to One tutoring
 - Mathematics, Statistics, Physics
 - Commerce, Economics
 - Writing, Study skills
- Drop-in tutoring
 - MACE, Writing help in the library
- Supplemental Instruction
- Online Writing help (unbc.askonline.net)
- Reference materials and online resources
- Workshops

All of our services are FREE to UNBC students - follow the paw prints!

ASC
Academic Success Centre

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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