



NRESi WEEKLY NEWS

March 10-14, 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,

As we continue to plan for our upcoming NRESi events, I have summarized each below and the opportunities to get involved:

1. **Call for Nominations** for Distinguished Scholar and Lifetime Achievement Awards: members are invited to nominate their peers - **Deadline for submissions: Friday, March 21st**
2. **Peace Fish & Wildlife Compensation Program Special Lecture:** Friday, March 28th at 3:30pm
 - NRESi members interested in **meeting with Steve McCormick** during the day of the presentation are invited to sign-up on the list at Brenda Janzen's desk – 30 minute timeslots from 10:00am-12:00pm, 1:30pm-3:00pm
 - NRES **graduate students interested in a lunch discussion** with Steve should RSVP to me by: **Friday, March 21st**
3. **NRESi's Annual Lecture:** Thursday, April 3rd at 7pm
 - **NRESi members and graduate students interested in presenting a poster** on Thursday evening are asked to email me by: **Friday, March 28th**
 - NRESi members interested in **meeting with Al Gorley** during the afternoon of Friday, April 4th are invited to sign-up on the list at Brenda Janzen's desk – 20 minute timeslots from 1:30pm-3:10pm
 - NRES **graduate students interested in a lunch discussion** with Al should RSVP to me by: **Monday, March 24th**
 - A second presentation will be made by Al at NRESi's weekly colloquium at 3:30pm on Friday, April 4th
4. **Undergraduate Thesis Presentation Day:** Tuesday, April 8th, starting at 9am
 - **Supervisors of undergraduate thesis projects** that fall under NRESi (NRES, ENPL, ENSC, and GEOG 430 & 422) are asked to **email me your student's name, project title, course, second reader's name, and your interest in participating in a presentation day as soon as possible**

NRESi is also building a proposal to submit to UNBC's 25th Anniversary Call for Proposals. We are suggesting three initiatives to celebrate this milestone:

- **Planting of 16,000 trees** in honour of each of the individuals who signed a petition in support of UNBC's development. They would be planted on UNBC campuses, research forests, and properties in the spring of 2015. This initiative is to not only recognize this important contribution, but also create a legacy within the UNBC community for the future.
- **Ceremonial tree planting** at the beginning of September 2014 of a 25-year old tree to recognize the past and be a reminder of this important milestone. This tree will also represent and have a plaque describing how it is one of 16,000 trees that will be planted the following spring.
- **Host a special 25th Anniversary Colloquium** event with speakers who have been involved since the early days and/or others who have had significant contributions to NRESi, to celebrate the history and past achievements. These presentations will be followed by a panel discussion with various community stakeholders, talking about the value and benefit of research in northern British Columbia and how NRESi has and could further contribute. This will be a forward looking discussion to identify opportunities to inform and support the direction and work of NRESi in the future.

Happy Friday!

Leanne Elliott, NRESi Research Manager

REMINDER: Share your information about recent publications, grants, and/or other honors 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. Ignacio Barbeito

**French National Institute for Agricultural Research (INRA)
Laboratoire d'Etude des Ressources Forêt-Bois**



**From Pattern to Process to Management: Understanding Species Interactions
in the Face of Global Change**

My general interests broadly lie in applied ecology and conservation. However, I am particularly interested in the environmental and biological mechanisms driving patterns of regeneration, mortality and growth of forests at multiple spatial and temporal scales. My research focuses on the interaction between competition and the response to climate along large ecological gradients. I'm also contributing to study the growth and morphological adaptations of various coexisting shade tolerant species over gradients of light and tree density in temperate deciduous forests. My research combines extensive field studies with a variety of quantitative techniques to try to achieve the best inference from the ecological data we collect.

Friday, MARCH 14, 2014

3:30 pm - 4:30 pm

Room: 8-166

COMING EVENTS

NRESI RESEARCH COLLOQUIUM SERIES

Dr. Francois Teste

Mixedwood Ecology Chair Candidate

We will be welcoming Dr. Francois Teste, candidate for the UNBC Mixedwood Ecology Chair, to present during NRESI's weekly Colloquium. His talk is titled, 'Belowground plant interactions: can lessons learned from conifer forests and biodiversity hotspots help to successfully manage mixedwoods?'. Please watch for more details next week.

Friday, MARCH 21, 2014

3:30 pm - 4:30 pm

Room: 8-166

COMING EVENTS

NRESI ANNUAL PWFCP LECTURE

**Peace Fish and Wildlife
Compensation Program Presents:**



Dr. Stephen McCormick
**USGS, Conte Anadromous Fish Research Center
Turners Falls, MA**



**Taking it With You When You Go: How the Freshwater
Environment Affects Seawater Performance of Salmon**

Juvenile undergo morphological, physiological and behavioral changes that are preparatory and adaptive for seawater entry and are collectively known as the parr-smolt transformation. Smolt development is regulated by environmental factors such as photoperiod and temperature and mediated by the neuroendocrine system. A variety of anthropogenic factors can influence smolt development and affect marine survival. Hatchery rearing can affect the size of smolts and the extent and timing of smolt development. Smolt development is reversible, and the period of peak physiological preparedness in salmon smolts is limited by time and temperature. By influencing temperature and the duration of the migratory period, climate change and dams will have negative effects on smolt survival beyond direct lethal impacts. Contaminants acting on developmental physiology or underlying endocrine control mechanisms can also reduce marine survival. Exposure to estrogenic compounds prior to or during smolt development can reduce seawater tolerance and preference. Acid and aluminum exposure can reverse the development of seawater tolerance and reduce adult return rates. These studies indicate that environmental conditions in freshwater can affect physiological development, estuarine and ocean behavior, early seawater survival, and long-term seawater growth and homing, thus having influences on adult returns and long-term population sustainability of salmon.

Friday, MARCH 28, 2014

3:30 pm - 4:30 pm

Room 8-166

RECEPTION TO FOLLOW

REMINDER: Share your information about recent publications, grants, and/or other honors 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 ANNUAL LECTURE



Al Gorley
President, Triangle Resources Inc.
& Former Chair, B.C. Forest
Practices Board



Area Based Tenure: If Not TFLs, Then What?

After 100 years of debate, distraction, and disagreement, it's time for a new look at management in BC's forests

In 2013, the British Columbia government introduced legislation to allow conversion of forest licences to tree farm licences. The proposal sparked a negative reaction in the public and the legislation was subsequently withdrawn. This is just the latest episode in a long-standing disagreement about the extent to which public forests should be managed by private companies.

The presentation explores why the province seems to be at an impasse on: forest tenure policy; the potential consequences of inaction; and, the options for change. The presenter proposes development of a new form of forest stewardship agreement that would allow the province to assign rights and delegate responsibilities in a manner that better meets the public's long term sustainability objectives.

THURSDAY, APRIL 3, 2014

7:00 pm - 8:00 pm Canfor Theatre

RECEPTION TO FOLLOW

COMING EVENTS

NRESI RESEARCH COLLOQUIUM SERIES



Al Gorley
President, Triangle Resources Inc. &
Former Chair, B.C. Forest
Practices Board



Why Have a One-Eyed Watchdog?

How independent oversight can improve industries' social licence

Social licence is a term used to describe the general approval society gives to industries operating on public lands. The extent to which it exists depends upon the public's confidence that industries will follow rules, act responsibly, and generate more public benefit than harm.

British Columbia's Forest Practices Board has been reporting publically on companies' compliance with forest practices laws and on government enforcement for nearly two decades. The board's work has helped to maintain public acceptance and marketplace assurance for the forest industry. However, there is no similar independent watchdog for other industries operating on public land. The presenter suggests it may be time for this type of oversight to be applied to all resource sectors.

Friday, APRIL 4, 2014

3:30 pm - 4:30 pm

Room: 8-166

OTHER EVENTS ON CAMPUS

GLOBAL FRIDAYS
ROOM 5-183
12:00 - 1:30 pm

"Keynes Resurrected? Saving Civilization Again and Again"

Dr. Geoff Mann, Simon Fraser University
March 14, 2014

All Global Friday presentations will be available to remote participants on Elluminate at:
<http://bit.ly/unbc-globalfriday>

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

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

OTHER EVENTS ON CAMPUS

Northern Economics Student Society **2014 SYMPOSIUM**

Date: March 21, 2014

Time: 11:00 am – 4:00 pm

Location: 6-205/ 211 (Conference Centre)

Light refreshments will be served

WHAT SHOULD B.C. DO WITH ITS NATURAL GAS?

11:00 – 11:45am – Global Markets, Local Issues

Joshua Mann, Deng Manyang, Claire Stechishin, Adam Vickers
Presentation of studies by 4 senior Economics undergraduate students

12:00 – 1:30pm – Keynote Speaker



“LNG In British Columbia: A Viable Option or a Hail Mary Pass?”

Professor Michal Moore, School of Public Policy,
Professor of Energy Economics, University of Calgary

2:00 – 4:00pm – Roundtable:

What Should BC do with its Natural Gas?

Kelly Hawes, President of Cold Star Freight; Marc Lee, Senior Economist,
Canadian Centre for Policy Alternatives; Karyn Sharp, Carrier Sekani Tribal
Council, Traditional Knowledge Coordinator

Illuminate: <http://bit.ly/unbc-globalfriday>  @NESS_UNBC  NESS UNBC

Funding from Fortis BC is Gratefully Acknowledged

NRESi WEBSITE UPDATE

Thanks to some hard work from Philippe Henry, together with other UNBC website and AV collaborators, past colloquium Elluminate presentations are now archived on NRESi's website. Some of our presentations over the past few months are now posted at: <http://www.unbc.ca/nres-institute/colloquium-series/archived-colloquium-series>. This site will continue to be updated with our upcoming lectures, so feel free to check back often.

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

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

MEMBER UPDATES

Phil Owens and Ellen Petticrew recently returned from their sabbatical at the Bren School of Environmental Science and Management at the University of California - Santa Barbara (UCSB); and yes, it was a shock to adjust to the Prince George winter. They had an enjoyable and productive time interacting with faculty and students at UCSB. The Bren School is built around a professional Master's degree in environmental science and management (with a cohort of 60-80 students) that is aimed to be a terminal degree, with students then moving on to careers in government, companies etc. Courses at Bren include policy, law and communication, as well as those addressing science. Similar to the environmental engineering program at UNBC, the students complete a large project based on suggestions from local communities and companies, and students then present findings back to these organizations. Faculty at Bren primarily teach into the master's program but most also have active research programs and PhD students. Ellen and Phil gave research presentations at the Bren School and at the Scripps Institute of Oceanography at UC-San Diego (UCSD). They plan to develop further these collaborations with UCSB and UCSD faculty, including an application to the European Union for an EU-North America exchange on the development and application of Bayesian mixing models for tracing inorganic and organic sediment in the environment.

RECENT EVENTS

Jim Windsor led another successful UNBC trip to the Annual Meeting of the Western Division of the Canadian Association of Geographers (WDCAG) last weekend, to the University of Victoria. The UNBC contingent included 4 faculty members (Zoë Meletis, Catherine Nolin, Roger Wheate, and Jim Windsor), 4 graduate students, 9 undergraduate students, and 1 alumnus. Undergraduate student Blake Hawkins presented the paper "This is My Piece of Heaven: Using Content Analysis to Understand Concerns over a Proposed Women's Recovery Centre", and co-organized a salon style session called "Engaging in feminist geography", with Pamela Moss from UVic. Catherine Nolin presented a paper co-authored with UNBC student Ysler GiullianaTamblyn (MA, International Studies): "Is Resource Extraction a Curse or Bonanza for Local Communities? A Case Study: Quiruvilca, Peru". MNRES graduate students presented the following papers: Talaat Baakri (Peter Jackson) presented "Synoptic-scale Analysis for Number of Gap Winds in the Coast of British Columbia", Tony (Tejinder) Dhaliwal (Zoë Meletis) presented "Thinking outside of the blue box: Considering Sikh participation in and perceptions of recycling in Abbotsford, BC", and Cherise Chrispen (Zoë Meletis) presented "Thinking closer to home: Considering consumption-related beliefs and behaviours of North American sea turtle conservation practitioners". **Cherise won the Ineke Dijks Award for the Best MA/MSc Oral Presentation. Congrats Cherise!**



PUBLICATIONS

Fox, M.D., L.E. Tackaberry, P. Drouin, Y. Bergeron, R. Bradley, **H.B. Massicotte**, and H.Y.H. Chen. 2013. Microbial community structure of soils under four productivity classes of aspen forests in Northern British Columbia. *Ecoscience* 20: 264-275.

Filotas, E., L. Parrott, **P. J. Burton**, R. L. Chazdon, K. D. Coates, L. Coll, S. Haeussler, K. Martin, S. Nocentini, K. J. Puettmann, F. E. Putz, S. W. Simard, and C. Messier. 2014. [Viewing forests through the lens of complex systems science](#). *Ecosphere* 5(1):1.

Clark, E.L., Pitt, C., **Carroll, A.L., Lindgren, B.S., Huber, D.P.W.** 201X. Comparison of lodgepole and jack pine resin chemistry: implications for range expansion by the mountain pine beetle, *Dendroctonus ponderosae* (Coleoptera: Curculionidae). *PeerJ* 2:e240. OPEN ACCESS

Clark, E.L., Isitt, R., Plettner, E., Fields, P.G., **Huber, D.P.W.** 2014. An inexpensive feeding bioassay technique for stored-product insects. *Journal of Economic Entomology* 107:455-461. OPEN ACCESS

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

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