



NRES WEEKLY NEWS

March 4 - 8, 2013

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

COMING EVENTS

NRESI RESEARCH COLLOQUIUM SERIES

For Elluminate information and link to the webcast: http://www.unbc.ca/nres/nresi_webcast.html



Dr. Hugo Asselin

Canada Research Chair in Aboriginal Forestry
Université du Québec en Abitibi-Témiscamingue



Links between biological and cultural diversity in the Canadian boreal forest

Indigenous cultures around the world are tightly linked to the land and subsistence activities based on natural resources still play an important role in the everyday life of several communities. This connection between biological and cultural diversity is, however, threatened by increasing resource extraction in response to an ever-growing global demand. According to the United Nations, 90% of the world's languages are likely to become extinct or threatened with extinction by the end of the 21st century. In Canada, all but a few of the more than 60 aboriginal languages are endangered. The circumboreal forest — 40% of which is in Canada — is the most extensive terrestrial biome in the world. Ecological connectivity and continuity within the boreal forest create a fertile ground for intercultural knowledge exchange. The extent to which this would be possible, however, depends on intercultural similarity. This presentation will address this question relying on a statistical analysis of the most extensive database on traditional uses of medicinal plants in the Canadian boreal forest.

Friday, MARCH 8, 2013

3:30 - 4:30 pm

Room: 7-158

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



Dr. Richard A. Cunjak

Canadian Rivers Institute, Dept. of Biology and Faculty of Forestry &
Environmental Mgmt., University of New Brunswick



The response of Atlantic salmon to extreme warming in rivers

All freshwater fishes are ectotherms. Hence, ambient water temperature directly regulates their metabolic processes and survival. This feature makes them particularly susceptible to the increased variability in temperature predicted from climate change models. Our work in eastern Canadian rivers has shown that Atlantic salmon (*Salmo salar* L.) parr show a behavioural and physiological stress response when water temperature exceeds 23°C but the response differs between young-of-the-year and older (larger) parr. Territories are abandoned and fish will move long distances (kilometres) to aggregate around patchily distributed thermal refugia. Extreme temperature events now occur with such regularity that most wild Atlantic salmon in NB rivers will experience at least one event during their freshwater phase. But when is a thermal refuge too far, and how do fish 'know' where to find such coolwater sources? And what are the threshold conditions for initiating behavioural thermoregulation of salmon parr *in situ*? Such questions, currently being investigated by our research group, have important implications for conservation and recreational fisheries management. For example, if the incidence of temperature stress events and proximity to thermal refugia affect the distribution and abundance of wild, juvenile salmon, should management reflect this pattern? Whereas this seminar will emphasize extreme water temperatures in summer, how riverine fishes cope with warmer, milder winters will also be discussed, especially in relation to egg survival and development, and the potential impact from anthropogenic factors such as flow regulation.

Thursday, March 14, 2013

3:30 - 4:30 pm

Canfor Lecture Theatre

RECEPTION TO FOLLOW IN 6-205/211

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

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



Peter Lee

Executive Director, Global Forest Watch Canada

Industrial Land Uses and Changes in the Peace Region of NE British Columbia



The objective of the study of industrial and land-use changes in the Peace Region of NE British Columbia were to map current industrial land uses; map changes in landscapes over time, and; provide an indication of these land uses and changes on woodland caribou and grizzly bear. The results include:

1. The Peace Region has experienced rapidly escalating changes due to a convergence of industrial interests on the same land base;
2. Present levels of industrial-caused disturbances and projected future levels are very high in comparison to other major industrial projects such as Alberta's oil sands region; and;
3. The maps and analyses in this study are very conservative in relation to the actual amounts of various industrial-caused land changes.

Friday, March 15, 2013

3:30 - 4:30 pm

Lecture Theatre 7-158

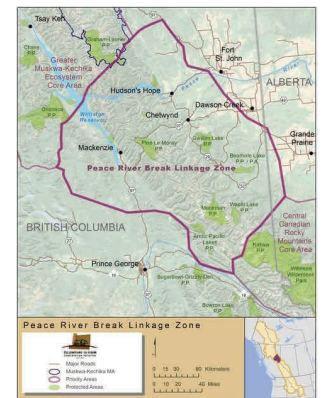


THIS EVENT WILL NOT BE AVAILABLE ON ELLUMINATE

Protected or in Peril? The Peace River Break in the Canadian Rockies

Few people know it, but the Peace River Break is one of the most ecologically diverse places in the Yellowstone to Yukon region. It is also one of the most endangered, with not many protected areas and shrinking habitat for wide-ranging wildlife. The Peace Break provide a crucial wildlife link between the Rocky Mountains to the south and north. Industry is expanding fast there, and the prospect of a third hydroelectric dam, "Site C", on the Peace River, threatens this remarkable landscape.

Find out more about this special place, why it's important, and what we can do to protect it. Join Karsten Heuer, award-winning author (*Walking the Big Wild, Being Caribou*), adventurer, conservation advocate and President of Y2Y for an informative series of talks on British Columbia's beautiful Peace River Break.



Speakers include:

- Karsten Heuer, Author, Adventurer, & Y2Y President—"Walking the Big Wild—Then and Now"
- Tribal Chief Liz Logan, Treaty 8 Tribal Association—"First Nations and the Peace Break Region"
- Chief Roland Willson, West Moberly First Nations—"Keep the Peace: The Threat of The Site C Dam Proposal"
- Juri Peepre, Y2Y—"A Conservation Vision for the Peace River Break"

Friday, March 15, 2013

7:00 pm

Weldwood Theatre 7-238

GRADUATE THESIS DEFENCE

Mr. Shane (Herbert) Hartman is a candidate for the degree:

Master of Arts in Natural Resources and Environmental Studies (Tourism)

Mr. Hartman will be defending his thesis entitled:

"Investigating the Benefits and Impacts of Tourism Development for a First Nation Community in Northern British Columbia"

Supervisor: **Dr. Pam Wright**

Date: **March 27, 2013** Time: 9:00 am Room: Senate Chambers

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PLEASE EMAIL ALL INFORMATION AND MATERIAL TO: Michelle.Keen@unbc.ca

OTHER EVENTS

Sponsored by the Prince George Photographic Society (<http://www.pgphotoclub.com>) :

Chris Harris will be at the **Canfor Theatre March 13th at 7:30 pm** to present his new book, *Flyover—British Columbia's Cariboo Chilcotin Coast—an Aviation Legacy*. By drawing on his experience as an outdoor guide and fine art photographer, Chris reveals the stunning beauty of BC's Cariboo Chilcotin Coast wilderness, offering artistic and technical insights to his work as an artist, photographer and publisher. **Tickets are \$10 at Books & Co. and Studio 2880.** (Chris' website: <http://www.chrisharris.com>)

GLOBAL FRIDAYS
ROOM 7-158
12:00 - 1:30 pm

March 15

Dr. John Loxley, Professor, Department of Economics, University of Manitoba

“Will Social Impact Bonds be the Future for Foreign Aid?”

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

TRAVEL / CONFERENCES / RESEARCH

Annie Booth is giving an invited lecture as part of the Environment, Sustainability & Society Lecture Series at Dalhousie University 7 March.

Phil Burton will be serving as the external examiner for a Ph.D. defense at the Université à Montréal on 6 March, after which he is participating in a data integration workshop, 6-8 March, on key traits in assessing the vulnerability of Canadian tree species to climate change, being held at the Gault Nature Reserve near Mont St-Hilaire, Quebec.

Stephen Déry will be in Victoria to participate (as a panel member) in the BC Atmospheric River Events Workshop 6-7 March. The event is being organized by the Pacific Institute for Climate Solutions, the Pacific Climate Impacts Consortium, and the BC Ministry of the Environment.

The Geography Program once again travels with a delegation of faculty members, undergrads and grad students to the conference of the Western Division of the Canadian Association of Geographers (WDCAG) which takes place at the University of Lethbridge (7 - 9 March) this year.

Paper presentations include:

- Joanna Paterson, **Neil Hanlon**: EXPERIENCES OF NORTHERN MEDICAL PROGRAM GRADUATES AND STRATEGIES FOR THEIR RETENTION IN RURAL COMMUNITIES
- Alex Martin: THE CHANGING ROLES OF MANAGERS IN RESOURCE TOWNS: A BRITISH COLUMBIA CASE STUDY
- Erica Henderson, **Catherine Nolin**, Fredy Peccerelli: DIGNIFYING A BARE LIFE AND PLACE MAKING THROUGH EXHUMATION: COBÁN CREOMPAZ FORMER MILITARY GARRISON, GUATEMALA
- **Catherine Nolin**: RIGHTS AND JUSTICE: GEOGRAPHY'S PARTNERSHIPS FOR HUMAN RIGHTS RESEARCH IN POST-CONFLICT GUATEMALA & PERU
- Jed Zimmerman: INTERDISCIPLINARY DELEGATION TO AYACUCHO, PERU: EXEMPLIFYING POTENTIAL FOR HUMAN RIGHTS ADVOCACY THROUGH GIS
- Blake W. Hawkins, **Neil Hanlon**: DISCURSIVE SPACES OF SPANISH INFLUENZA IN PRINCE GEORGE, BC

Poster presentation:

- Leana Garraway, **Neil Hanlon**: BUILDING RESILIENCE IN VULNERABLE POPULATIONS IN AYACUCHO, PERU THROUGH A TRANS-DISCIPLINARITY FOCUSED ORGANIZATION (EQUIPO PERUANO DE ANTHROPOLOGIA FORENSE (EPAF))



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TRAVEL / CONFERENCES / RESEARCH (cont'd)

Kathy Parker, Mike Gillingham, Krista Sittler (NRES MSc candidate), Becky Cadsand (former NRES MSc student), along with undergraduate students Gabrielle Aubertin, Adam O'Dell and 11 other students from the UNBC Student Chapter of The Wildlife Society will travel to Canmore Alberta for the Canadian Section of The Wildlife Society Annual General meeting (8 - 10 March). Becky (co-authored with Mike, Kathy, and **Doug Heard**) will present a paper entitled "Movement responses of mountain goats to heliskiing activity in northwest British Columbia". Krista (co-authored with Kathy, Mike, **Roger Wheate**, and **Doug Heard**) will present "Response of boreal vegetation to prescribed fire: implications for Stone's sheep and elk in the Northern Rockies". Gabrielle, Adam, and Mike will present a poster based on the winter tracking project that has been conducted by the UNBC TWS students for the last 3 years -- "Combining science and education: Monitoring winter activity of wildlife in Prince George, B.C.". In addition, the students will be entering two teams into the Quiz Bowl that will be part of the Student Conclave at the Conference. The students would like to thank DWB Consulting Services for their support in helping them all travel to the conference!

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