



NRES WEEKLY NEWS

October 8 - 12, 2012

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



Cecilia Malmqvist & Harald Säll
School of Engineering, Linnaeus University, Sweden



The challenge to make the researchers and the forest sector connect

Sweden is a country where forestry is important in many ways. Today 56% of Sweden is covered by productive forest land, of which approximately 50% is owned by more than 330 000 non-industrial private forest owners. The decisions about silviculture and how to manage the estates are made by the owner, supported by counselors, and the job is executed by the owner or contractors. In order to take good decisions, the owners want to be up-to-date about the current forest and wood research. On the other hand, the researchers have a duty to distribute their research to the society and are also interested to get input from the forest sector about what the problems in practice are for the moment. But how, where and when can these parts meet?

We will show an example of how this connection can be done. We will have our own research area as a point of departure.

We have hopes of giving you as well an insight in spiral grain in Norway spruce and how it affects silviculture as regeneration of Douglas fir in Sweden and how Swedish forest owners acquire the latest knowledge in forestry and applies it in their own enterprises. sensing of snow and its potential utility in assessing the changing FRB.

Friday, October 12, 2012

3:30 - 4:30 pm

Room: 7-152

Dan Adamson

Community Forest Manager, City of Prince George



Mapping Prince George's Natural Areas & Climate Change Impacts

The City of Prince George has recently completed detailed ecosystem mapping covering 65% or 22,000 hectares of land within the municipal boundary. The resultant 117 ecosystem types have been translated into 14 simplified ecosystems to facilitate broader use. Sensitive ecosystems, high conservation values, intact forest and riparian areas have also been mapped. Local climate model data, soil moisture regime models and the ecosystem mapping were then combined to predict climate change impacts. Models indicate that much of the land may move from Slightly Dry to Moderately Dry conditions by as early as 2020, meaning less soil moisture available and increased drought-stress on certain varieties of trees. A suite of Best Management Practices (BMPs) have also been completed, with particular focus on sensitive and rare ecosystems and zoned land use. The ecosystem mapping has been added to the City's "PGMap" platform allowing easy access. Links have been created between ecosystem mapping and the BMP Report to foster active use of the guide. A website has been completed allowing access to all of the mapping and reports and a Case Study Report has been completed which describes how other municipalities could develop a similar project. The project has resulted in information that will guide future growth and development planning and policies for the City, foster research, education and monitoring partnerships, and provide useful data and mapping to agencies, stakeholder groups (eg., Bear Awareness), and interested members of the public. The City is currently undertaking extension activities to ensure a broad awareness of the project and what information is available.

Friday, October 19, 2012

3:30 - 4:30 pm

Room: 7-152

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

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

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



GRADUATE THESIS DEFENCE

Mr. Tyler Smith is a candidate for the degree:

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

Mr. Smith will be defending his thesis entitled:

**“Impact of Land Use Activities on Sediment-Associated Contaminants:
Quesnel River Basin, BC”**

Supervisor: Dr. Phil Owens

Date: October 16, 2012 Time: 9:00 am Room: 6-307 Conference Centre

GRADUATE THESIS DEFENCE

Ms. Danielle McIntosh is a candidate for the degree:

Master of Natural Resources and Environmental Studies

Ms. McIntosh will be defending her thesis entitled:

“Wildlife Viewing in the Mountain National Parks of Canada: An Experiential View”

Supervisor: Dr. Pam Wright

Date: October 25, 2012 Time: 9:00 am Room: 6-307 Conference Centre

COMING EVENTS — ELSEWHERE

Quesnel River Research Centre 5th Annual Open House and Science Café

Saturday, October 13 — 6581 Likely Road

Research presentations begin at 10:00
BBQ / refreshments at noon
Science Café 1:30 - 3:30 pm

Any questions? Contact Sam Albers, QRRC Manager @ Samuel.Albers@unbc.ca / 250-790-2031

CDI COMMUNITY SPEAKERS SERIES

Monday, October 15 7:00 pm Room 7-150 UNBC Prince George campus

Tuesday, October 16 7:00 pm Vanderhoof — Council Chambers, Municipal Office

Dr. Terri MacDonald, Regional Innovation Chair in Rural Economic Development and the Lead Researcher of the Columbia Basin Rural Development Institute, Selkirk College

**“The Columbia Basin Rural Development Institute:
Building Regional Capacity through Research & Innovation”**

Coast to Coast Seminar Series: *“Disease, Aquaculture, and Pacific Salmon Management”*, presented by Dr. Rick Routledge, Dept. of Statistics & Actuarial Science, SFU. 16 October at 11:30 - 12:30 in room 3-2024, UNBC Prince George campus. (<http://irmacs.sfu.ca/events/coast-coast-seminars>)

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CONGRATULATIONS

Brian Menounos has been elected as a Board member of the International Geoscience Programme (IGCP). IGCP is an organization which is part of the International Union of Geological Sciences (IUGS) and the United Nations Education Scientific and Cultural Organization (UNESCO). The IGCP supports international research projects on geological problems of global importance. Special focus is given to projects related to a safer environment; the relationship between natural geological factors and health problems; biodiversity; climate change; and mineral and groundwater resources extraction. The IGCP promotes collaborative projects with a special emphasis on the benefit provided to society, capacity-building and the advancement and sharing of knowledge between developed and developing nations.

TRAVEL / CONFERENCES / RESEARCH

Amalesh Dhar (ESM postdoc Fellow) participated in “EcoSummit 2012—Ecological Sustainability Restoring the Planet’s Ecosystem Services” which was held in Columbus, OH 30 Sept - 5 Oct. He presented a paper “Response of Advance Regeneration and Mature Tree Layer after Removal of Overstory Lodgepole Pine in Central British Columbia” co-authored with **Christopher D.B. Hawkins**.

Kathy Lewis is attending the 60th Western International Forest Disease Work Conference in Lake Tahoe, CA 8 - 12 Oct.

Kathy Parker, Mike Gillingham, and Jennifer Psyllakis (former NRES PhD student), along with undergraduate students Matt Dyson, Gabrielle Aubertin, Adam O’Dell, and Gillian Rourke will attend the Wildlife Society’s Annual Conference in Portland, OR 13 - 18 Oct. Becky Cadsand (former NRES grad student), Mike, **Doug Heard** (ESM Adjunct Faculty), and Kathy will present a poster entitled “Mountain goat responses to heliskiing activity: movements and resource selection”. Jennifer and Mike are presenting a paper entitled “Using forest structure to predict the occurrence of vertebrate assemblages”. Matt and **Jane Young** will present a poster on Matt’s ongoing undergraduate thesis entitled “The effects of water basin level manipulation on the emergent vegetation of an impounded wetland in Southwestern Ontario”. Matt, Gabrielle, Adam, and Gillian will represent the UNBC Student Chapter of the Wildlife Society at several meetings and functions.

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