



NRES WEEKLY NEWS

November 17 - 21, 2008

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



Dr. Peter Jackson & John Spagnol
Environmental Science & Engineering, UNBC

Air Quality Modelling of the Prince George Airshed

This FRIDAY

Air Quality is a significant environmental, social, economic, political and health issue in Prince George, where the pollutant of greatest concern is fine particulate matter (PM₁₀ and especially PM_{2.5}). Managing air quality with a goal of lowering ambient levels of pollutants involves managing pollutant sources. Fine particulate matter is notoriously difficult to manage since it typically comes from multiple sources, the magnitude of which are often difficult to quantify. In order to make effective decisions about which sources to target for reduction, the environmental manager must know the relative contribution of each source in the airshed to ambient levels at locations of interest. Dispersion modelling is a tool that can be used to determine this. The Prince George Air Improvement Roundtable Research Working Group (PGAIR-RWG) in conjunction with UNBC have undertaken a two year dispersion modelling study to determine the contribution of sources to particulate matter in the Prince George Airshed. The presentation will summarize some of the key preliminary findings from that study.

Light Refreshments will be Served

Friday, November 14, 2008

3:30 - 4:30 pm

Lecture Theatre 7-212



Dr. Winifred Kessler
Director of Wildlife, Fisheries, Ecology, Watershed & Subsistence
Maintenance, U. S. Forest Service, Alaska Region

Managing Wildlife and Fish for Subsistence Uses in Alaska

Next FRIDAY

Many Rural Alaskans, both Native and non-Native, depend on hunting and fishing to obtain nutritious and affordable food and to practice a subsistence lifestyle. The subsistence heritage of rural Alaskans is provided for in the Alaska National Interest Lands Conservation Act, which mandates a priority for subsistence uses of wildlife and fish over sport and commercial uses. This presentation begins by explaining the importance of subsistence hunting and fishing in the livelihoods and social fabric of rural Alaskan communities. It summarizes key events and legal decisions leading to the existing system of federal management on 2/3 of Alaska's land base, and provides an overview of how the system works. It concludes with examples of how key issues are being resolved through science, management, community-based planning, and the courts.

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3:30 - 4:30 pm

Lecture Theatre 7-212

OTHER COMING EVENTS

Public Lecture

November 13, 2008
7:00—9:00 pm
Room 7-238

Dr. Clyde Snow
University of Oklahoma

**Bones of Contention:
Forensic Anthropology in the Investigation of Human Rights Violations**

Global Fridays
Senate Chambers
12:00—1:30 pm

November 14, 2008

Dr. Clyde Snow
University of Oklahoma
Fredy Peccerelli

Executive Director, Guatemalan Forensic Anthropology Foundation

When the Bones Speak: Forensic Anthropologists, Human Rights & Social Justice for the Disappeared from Kosovo & Bosnia to Guatemala & Argentina.



THE DOUG LITTLE MEMORIAL LECTURE

Dr. Winifred Kessler
Director of Wildlife, Fisheries, Ecology, Watershed & Subsistence Maintenance
U. S. Forest Service, Alaska Region

Revisiting Forestry's Crystal Ball

Shortly after moving to Prince George in 1993 as chair of UNBC's new Forestry Program, Wini Kessler was invited to speak on "What I See in Forestry's Crystal Ball". Among her broad predictions were:

- *The importance of products that come from forests will increase.*
- *Increasingly, forests will be valued for more than the sum of their products and uses.*
- *There will be better appreciation of forests as complex ecological systems that are controlled by forces bigger than we humans.*

Have these trends and predictions come to pass? On a general note they certainly have, and also in specific and hugely important ways that we had not imagined at the time. In this lecture Dr. Kessler will revisit forestry's crystal ball to discuss major developments of the past 15 years that are shaping the view of forestry's future.

Thursday, November 20, 2008

7:30 pm

Lecture Theatre 7-238

Sponsored by the ESM Program
College of Science and Management

Sponsored by an endowment from the former
Northwood Pulp and Timber Limited, now Canfor

CONGRATULATIONS

Staffan Lindgren has been re-appointed to another four-year term as subject editor, plant-insect interactions, of *Environmental Entomology*. This journal is published by the Entomological Society of America, and is one of the top journals in entomology. Staffan is also Associate Editor of the *Canadian Entomologist*.

As of 3 November, associates of the laboratories of **Brian Aukema**, **Dezene Huber**, **Staffan Lindgren** and **Lisa Poirier** are members of the UNBC Forest Insect Research Group (FIRG). The group meets for discussion of various research topics once a week. Anyone interested in participating is welcome to attend. Please contact Brian Aukema for details of meeting times and topics.

CONFERENCES / TRAVEL

Stephen Déry will be participating in the IP3/IPY workshop on Nov. 13th & 14th in Whitehorse, Yukon. He is giving a talk entitled "Recent trends and variability in river discharge of Northern Canada".

Dezene Huber, **Brian Aukema** and **Staffan Lindgren**, along with grad students Erin Clark (Huber) and Fraser McKee (Aukema) will attend the annual general meeting of the Entomological Society of America 15-19 November, Reno, Nevada.

Dezene is co-authoring the presentations:

Heritability of lodgepole pine defenses against mountain pine beetle: Family does matter (poster) by D.S. Ott, **D.P.W. Huber**, A.D. Yanchuk, and K.F. Wallin;

Successful colonization, reproduction, and emergence of mountain pine beetle in interior hybrid spruce, **D.P.W. Huber**, **B.H. Aukema**, R. Hodgkinson, and **B.S. Lindgren**, and;

Mountain pine beetle genomics, C. I. Keeling, H. Henderson, M. Li, **D. P. W. Huber**, and J. Bohlmann, which will be presented during the IPMIS (Integrative Physiological Molecular Insect Systems) Section Symposium: Interacting Genomes in Bark Beetle Ecology, which Dezene is co-organizing with Chris Keeling, UBC.

Erin is presenting a paper based on her MSc thesis research:

Induced terpenoid defenses in lodgepole and jack pine and possible effects on the eastern spread of the mountain pine beetle, E. Clark, **D.P.W. Huber**, and A.L. Carroll.

Brian is coauthoring a paper to be presented at the associated USDA NRI (National Research Initiative) Arthropods & Nematodes Biology & Management Programs Awardee Workshop, Nov 15-16:

How do interactions among microbial symbionts affect the host expansions of an eruptive forest insect? K.F. Raffa, C.R. Currie, A.S. Adams, **B. H. Aukema**, and N. Erbilgin, and during the ESA meeting;

Anthropogenic influences on insect-induced landscape change in British Columbia: A tale of mountain pine beetles and Warren root collar weevils. **B.H. Aukema**, **B.S. Lindgren**, and M.D. Klingenberg.

Fraser is presenting results from his MSc research:

Don't like your neighbours? Move! Evidence of reduced natural enemy assemblages for mountain pine beetle that colonize spruce vs. pine, F.R. McKee, **D.P.W. Huber** and **B.H. Aukema**.

Staffan is attending the editorial board meeting of *Environmental Entomology*, as well as the annual meeting of the North American Section of the International Union for the Study of Social Insects (IUSSI-NAS) and just having a good time visiting with colleagues (=networking), attending presentations, and losing the odd dollar here and there.

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UPCOMING THESIS DEFENCES

Mr. Hardy Griesbauer is a candidate for the degree:
Master of Science in Natural Resources and Environmental Studies (Forestry)

Mr. Griesbauer will be defending his thesis entitled:
"Regional, Ecological, and Temporal Patterns in Douglas-Fir Climate-Growth Relationships
in the British Columbia Interior"

Supervisor: **Dr. Scott Green**

Date: December 5, 2008

Time: 9:00 am

Room: 6-205, Conference Centre
UNBC Prince George campus

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

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

PLEASE EMAIL ALL INFORMATION AND MATERIAL TO MICHELLE KEEN: keenm@unbc.ca