



NRES WEEKLY NEWS

October 20 - 24, 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



This FRIDAY

Dr. Michael Church, Professor Emeritus, UBC Geography Dept.
Holocene Sediment Budget for a 10^3 km² Glaciated Drainage Basin

Chilliwack River drains 1200 km² in the Cascade Mountains on the Washington-British Columbia border. We have assembled a summary sediment budget for the basin by reconstructing the end-glacial (c. 13 000 calendric years BP) topography and determining the eroded sediment volume by DEM differencing. A lake in the upper basin preserves a record of headwater fine sediment yield, whilst alluvial fans throughout the basin, including a large end-point fan, preserve coarse sediments. Using a 1-D model of river and floodplain evolution, constrained by textural, lithological and geochemical tracers, and some absolute dates, we have computed a summary history of sediment yield for the basin that gives insight into the timing of sediment movement and the parameters of the fluvial sediment transport system. The mass balance framework and simplified morphodynamic formulation provide insight into the complex response of the fluvial system following deglaciation. More generally, the results demonstrate a quantitative approach to landscape change at intermediate scales of geomorphological interest.

Light Refreshments will be Served

Friday, October 17, 2008

3:30 - 4:30 pm

Lecture Theatre 7-212

OTHER COMING EVENTS



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

COMING EVENTS (cont'd)

Global Fridays
6-211 (Conference Centre)
12:00—1:30 pm

October 17, 2008

Gary Wilson, Associate Professor Political Science Program, UNBC

Inuit Multilevel Governance

This presentation will explore the regional, national and multilateral governance structures that promote the interests and perspectives of Inuit peoples and their communities on a range of important issues including climate change and environmental pollution. Arctic sovereignty and security and regional autonomy.

VISITORS

Celia Boone, a PhD student from Ken Raffa's lab at the University of Wisconsin, spent the week visiting the LASER lab (Laboratory of Applied Statistics in Ecological Research) in the CFS cluster collaborating on a project with **Brian Aukema**, Ken Raffa, Allan Carroll (CFS), and Joerg Bohlmann (UBC) on the effects of population phase of mountain pine beetle on lodgepole pine physiology.

CONGRATULATIONS

Congratulations to Gareth Hopkins in the Aukema Lab, who was recently awarded one of two annual scholarships from the Association of Professional Biologists of BC. Nice work, Gareth!

TRAVEL

Staffan Lindgren will travel to Vancouver on 18 October, where he and Jennifer Burleigh, Provincial Forest Entomologist, BC MoFR, Victoria, will present information on the mountain pine beetle with special reference to current bark beetle problems in Sweden to a group of Swedish foresters from Södra Skog, a major forest company in southern Sweden. In the afternoon, Staffan and Jennifer will guide them on a flight over affected areas. The tour is organized by former UNBC exchange student Ylva Thorn-Andersen, who now works for Södra.

Staffan Lindgren will travel to the University of Wisconsin-Madison on 19 October to spend four days with Kenneth Raffa, one of the world's premiere forest insect ecologists, and former supervisor of our own **Brian Aukema**. Staffan and Ken will be working on a paper discussing the evolution of aggressive bark beetles, which is being prepared for publication in the Canadian Entomologist.

PUBLICATIONS

Strini, A., Guglielmin, M., and **Hall, K.** (2008) "Tafoni development in a cryotic environment: an example from Northern Victoria Land". *Earth Surface Processes and Landforms* 33: 1502-1519.

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