



NRES WEEKLY NEWS **OCTOBER 27, 2006**

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

NRESI RESEARCH COLLOQUIUM SERIES

Dr. Stephen Dery
Environmental Science, UNBC

An Introduction to research on northern Hydrometeorology at UNBC

Global surface air temperatures have risen by about 0.5 degrees Celsius during the twentieth century, and the temperature increase is expected to be greater this century. The temperature rise in the polar regions of the Northern Hemisphere is projected to be greater than anywhere else on Earth. This talk will introduce the research being conducted within the northern hydrometeorology group at UNBC. Among the topics presented will be an analysis of trends in river discharge in northern Canada and the large-scale factors driving these changes, global climate model projections of snow pack conditions during the twenty-first century, and a water budget study of the Quesnel River watershed. The talk will end with a discussion on the recent deployment of the Cariboo Alpine Mesonet, a network of meteorological towers set up in the Quesnel River Basin that will enhance our understanding of hydroclimatological change in mountainous terrain.

Friday, October 27, 2006
3:30 pm — 4:30 pm
Lecture Theatre 7-158

Light refreshments served at 3:20 pm

Greg O'Neill, Forest Geneticist
Research Branch, BC Ministry of Forests
Kalmalka Forestry Centre

Whither the weather? Silvicultural adaptations to address climate change

- ~ How might climate change affect forest productivity, wood quality, and species distributions?
- ~ How are these impacts estimated and how accurate are they?
- ~ What does genetics have to do with climate change and forests?

This presentation will examine the challenges facing forests and forest managers, and will discuss potential silvicultural strategies to mitigate the impacts of climate change on forests, including: transferring species and seed; increasing genetic diversity in plantations; breeding for tolerance to climatic extremes; using shorter rotations; and planting exotics, hybrids and GMOs.

Friday, November 3, 2006
3:30pm — 4:30 pm
Lecture Theatre 7-158

Light Refreshments served at 3:20 pm

PRESENTATIONS...

“The social and cultural experiences of food security in the Takla Lake First Nation in Northern British Columbia: Informing Public Health” was presented by **Neil Hanlon**, Geography and Pamela Prior at the 7th Conference of the Canadian Rural Health Research Society in Prince George on October 21, 2006.

Neil Hanlon and Aleck Ostry were invited to a workshop on Building Successful Teams for Research to give their presentation entitled “ Building successful teams for research: experiences of the New Emerging Team for Health in Rural and Northern BC”. This was organized by the BC Rural and Remote Health Research Network in Prince George on October 19, 2006.

UPCOMING EVENTS...

The Doug Little Memorial Lecture
THURSDAY November 16, 2006
7:30pm Canfor Theatre

This year's guest lecturer is **Dr. Ben Cashore** from the Yale School of Forestry and Environmental Studies. His lecture is titled: "Sustainable Forest Policy Development in the Global Era: What Role Ought British Columbia to Play?"



NEW PUBLICATIONS...



Botting, R.S. and **Fredeen, A.L.** 2006.
Net ecosystem CO₂ exchange for moss and lichen dominated forest floors of old-growth sub-boreal spruce forests in central British Columbia, Canada. *Forest Ecology & Management*. 235(1-3): 240-251.

Duke, L.D. and **B.S. Lindgren**. 2006.
Attack by *Hylobius warreni* on grafted lodgepole pine and its relationships with monoterpene composition and scion:rootstock diameter ratio. *Agric. For. Entomol.* 8:305-311

TRAVEL...

On Tuesday, October 24, **Staffan Lindgren** and Niklas Björklund (post-doctoral fellow) visited Terry Shore, Bill Riel, and Les Safranyik at the Pacific Forestry Centre to discuss progress of collaborative mountain pine beetle research.

Staffan Lindgren will attend a meeting of the Forest Genetics Council, Forest Pest Management Advisory Committee, on Tuesday, October 31, at the Kalamalka Seed Orchards in Vernon. The meeting includes a field walk to view mountain pine beetle attacks in high value seed orchards, one of the many unforeseen, serious consequences of the current bark beetle outbreak. Four of the seed orchards at the Prince George Tree Improvement Station have been more or less destroyed, and will be removed this winter. Even though these are "low gain" orchards, this is a serious blow to A-class lodgepole pine seed production in BC.

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

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

PLEASE EMAIL ALL INFORMATION AND MATERIAL to Elissa Zemlak: zemlak@unbc.ca