



NRES WEEKLY NEWS

May 16 - 27, 2011

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

COMING EVENTS

GRADUATE THESIS DEFENCE

Ms. Courtney Jermyn is a candidate for the degree:

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

Ms. Jermyn will be defending her thesis entitled:

“An Approach for Remote Landslide Mapping, South Nahanni Watershed,
Northwest Territories, Canada”

Supervisor: **Dr. Brian Menounos**

Date: **June 7, 2011** Time: 9:00 am Room: 6-205/211

PUBLICATIONS

Jost, G., Moore, R. D., **Menounos, B.**, and **R. Wheate** (2011) “Quantifying the contribution of glacier runoff to streamflow in the upper Columbia River basin, Canada”. *Hydrology and Earth System Science*. 8: 4979-5008 doi:10.5194/hessd-8-4979-2011

Rea, R.V., Hodder, D.P. and I. Lücke (2011) “Douglas fir clippings by American red squirrels (*Tamiasciurus hudsonicus*): a potential winter food source for mule deer (*Odocoileus hemionus*)”. *Northwestern Naturalist* 92: 72-76

CONGRATULATIONS

Dezene Huber has been appointed editor of the Journal of the Entomological Society of British Columbia.

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

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: keenm@unbc.ca

EVENTS at UNBC



Pacific Institute
for Climate Solutions
Knowledge. Insight. Action.

Understanding Forests, Carbon, and Climate Change

May 31st 2011, The Pacific Institute for Climate Solutions, UNBC and the BC Year of Science is hosting a workshop in Quesnel to help uncover the new opportunities provided by our forests and climate change. The workshop starts by asking the question; what is wood? Understanding the basic processes of a growing forest helps to understand the important relationship they hold with climate change. Why biomass fuel from forest wastes is considered carbon neutral will also discussed along with the issue of forest sustainability.

Following an explanation of what biofuels from wood is the workshop will change focus to carbon offsets from forestry. Carbon offsets can be created by using bioenergy instead of traditional fossil fuels and also by growing trees to absorb and sequester carbon dioxide from the air. To this end, the final section of the workshop will answer the question; how much carbon is in this tree?

To register for this free workshop or for more information please visit: www.unbc.ca/pics

TRAVEL

UNBC had a significant presence at the North American Forest Insect Work Conference, Portland Oregon, May 9-12, both in terms of present and past faculty and students. In the introductory plenary session, the following two presentations were given:

- ◆ Genetic variation of lodgepole pine (*Pinus contorta* var. *latifolia*) chemical and physical defenses that affect mountain pine beetle, *Dendroctonus ponderosae*, attack and tree mortality. Daniel S. Ott, **D.P.W. Huber**, A.D. Yanchuk and K.F. Wallin
- ◆ Heritage and mentorship: back to the future. **B. Staffan Lindgren**

In other sessions, the following oral presentations were given:.

- ◆ Whitehead, R.J. and G.D. Smith (MSc 2008 [presenter]) A Canadian silviculturist's perspective on the effectiveness of "thinning" to reduce susceptibility to mountain pine beetle (*Dendroctonus ponderosae* Hopk.).
- ◆ **Sambaraju, Kishan** (post-doc 2009-2011), Allan Carroll, and **Brian Aukema** (adjunct) Mountain pine beetle system genomics: Spatial genetic analysis of the outbreak in western Canada.
- ◆ **Murray, B.** Creeping northward: latitudinal range shifts of mountain pine beetle in western Canada.
- ◆ Bleiker, K.P. (MSc 2001), and G.D. Smith Mountain pine beetle range expansion: the potential impact of insect phenology.



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TRAVEL (cont'd)

Staffan Lindgren and Daniel A. Herms co-organized the session “Native invasive bark beetles: consequences of range expansion”, and the following presentations were given:

- ◆ **Staffan** presented “Increased susceptibility and suitability of naïve lodgepole pine to mountain pine beetle” co-authored by Niklas Björklund (post-doctoral fellow 2005-2007), Allan Carroll (adjunct professor) and Timothy Cudmore (MSc 2009).
- ◆ Erin Clark presented “Differences in the terpene profiles of lodgepole pines in British Columbia and their correlation with historical attacks by mountain pine beetles” co-authored by Allan Carroll and **Dezene Huber**.

A number of students also presented posters:

- ◆ Teen, E., A.L. Carroll, and **B.H. Aukema**. What doesn't kill you only makes you stronger... unless it's more bark beetles!
- ◆ Machial, L.A., **B.S. Lindgren**, and **B.H. Aukema**. Movement patterns of Warren root collar weevil, *Hylobius warreni* (Coleoptera: Curculionidae)
- ◆ McKee, F.R. (MSc 2010) and **B.H. Aukema**. Host choice of mountain pine beetle in response to local insect population density and host availability
- ◆ Schotzko, K.G. and **B. S. Lindgren**. Effect of *Formica aserva* Forel (Hymenoptera: Formicidae) on ground dwelling arthropods in central British Columbia.

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