



NRES WEEKLY NEWS SEPTEMBER 8, 2006

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

WELCOME BACK!

On behalf of the Natural Resources and Environmental Studies Institute Steering Committee, we would like to welcome everyone back and look forward to another productive year. The Institute is planning a number of events to facilitate communication and collaboration among its members. Of particular note is a **Faculty and Graduate Student Research Poster Session** and Get-together scheduled for **Friday October 13**. Please mark your calendars and encourage your graduate students to attend and to present their research. Further details will be forthcoming.



NRESI/ CSAM RESEARCH COLLOQUIUM SERIES

SEPTEMBER 8



Dr. Erika Plettner
Department of Chemistry, Simon Fraser University

"The chemical senses (taste and smell) as targets for the development of insect pest control agents".

Friday, September 8, 2006
3:30 – 4:30 pm
Lecture Theatre 7-158

Light Refreshments served at 3:15 pm

Dr. Annie Booth
Ecosystem Science and Management, UNBC

*"Breaking Ground Research:
The Prince George Northern Sustainable Landscape Initiative"*

Friday, September 15, 2006
3:30 – 4:30 pm
Lecture Theatre 7-158

SEPTEMBER 15



THESIS DEFENCES

- On August 23, **Cathy Mackay**, candidate for the degree: Master of Science in Natural Resources and Environmental Studies, successfully defended her thesis entitled:

"Effects of Clearcut Logging on Organic Matter and Invertebrate Drift Exported From Headwater Streams in the Interior of British Columbia"

Supervisor: **Dr. Mark Shrimpton**, Ecosystem Science and Management.
- On August 31, **Birgit Lusgen**, candidate for the degree: Master of Science in Natural Resources and Environmental Studies successfully defended her thesis entitled:

"A Combination of Four Planning Models for use in First Nations Environmental Health"

Supervisor: **Dr. Annie Booth**, Ecosystem Science and Management.

PUBLICATIONS

- **Aukema, B.H., Carroll, A.L.,** Zhu, J., Raffa, K.F., Sickley, T.A., and S.W. Taylor. 2006. Landscape level analysis of mountain pine beetle in British Columbia, Canada: Spatiotemporal development and spatial synchrony within the present outbreak. *Ecography* 29: 427-441
- Filippelli, G.M.; Souch, C.; **Menounos, B.**; Slater-Atwater, S.; Jull, A.J.T.; and Slaymaker, O., 2006. Alpine lake sediment records of the impact of glaciation and climate change on the biogeochemical cycling of soil nutrients. *Quaternary Research*. 66: 158-166.
- **Menounos, B.** 2006. Anomalous early 20th century sedimentation in proglacial Green Lake, British Columbia, Canada. *Canadian Journal of Earth Sciences*. 43: 671-678.
- **Menounos, B.**, Schiefer, E., and O. Slaymaker. Nested temporal suspended sediment yields, Green Lake Basin, British Columbia, Canada. *Geomorphology*, 79: 114-129.
- Burton, C.M., **P.J. Burton**, R. Hebda, and N.J. Turner. 2006. Determining the optimal sowing density for a mixture of native plants used for revegetation and ecosystem restoration. *Restoration Ecology* 14(3):379-390.
- **Burton, P.J.**, C. Messier, W. Adamowicz, and T. Kuuluvainon. 2006. Sustainable management of Canada's boreal forests: Progress and prospects. *EcoScience* 13(2): 234-248.
- **Burton, P.J.** 2006. Restoration of forests attacked by mountain pine beetle: Misnomer, misdirected, or must-do? *B.C. Journal of Ecosystems and Management* 7(2): 1-10. Available on-line at http://www.forrex.org/JEM/ISS35/vol7_no2_art1.pdf

WELCOME TO UNBC

- The ESM program would like to welcome **Lana Ciarniello**, Biology sessional. Please stop by and say hello to Lana in Rm 8 - 309. (Ph: 5004).
- Please welcome the following international PhD students to NRES: **José Alberto Acosta Avilés, Silvia Martínez Martínez and Ali Abbaspour**. Jose and Silvia are students at the Technical University of Cartagena (Spain) and are studying the distribution of heavy metals in urban parks and other soils. Ali is visiting from Isfahan University of Technology (Iran) and is investigating the use phosphorus to immobilize Pb in soils. These students are conducting short-term experiments at UNBC under the supervision of **Lito Arocena**.
- **Brian Aukema** welcomes research assistants **Matthew Klingenberg** and UNBC alumna **Honey Giroday** to his program. Matthew is investigating mortality in regenerating pine stands from Warren root collar weevil on a project involving **Staffan Lindgren and Michael Gillingham**, while Honey is studying spread of mountain pine beetle east of the Rockies on a project involving Staffan and UNBC adjunct professor **Allan Carroll**.

GRANTS

- **Sarah Boon** (Geog) has received a grant from the Canadian Forest Service Mountain Pine Beetle Initiative to continue and expand her research of pine beetle-snow interactions in northern Interior BC.

CARIBOO ALPINE MESONET PROJECT

- Over the course of the summer, **Shane MacLeod**, under the supervision of **Stephen Dery**, has completed the deployment of the Cariboo Alpine Mesonet (CAM). CAM is a network four of meteorological stations installed at high elevation sites within the Quesnel watershed. Stations at Spanish Mountain (el. 1509 m), Blackbear Mountain (el. 1590 m), Browntop Mountain (el. 2030 m), and at UNBC's Quesnel River Research Centre (el. 743 m) all measure wind speed and direction, precipitation, air temperature, relative humidity, atmospheric pressure, soil temperature, and snow depth. This mesonet will provide crucial data on climate variability and change in the Cariboo Mountains of BC. Further information on CAM is available online at: <http://web.unbc.ca/~sdery/CAM/>

APPOINTMENT

- **Kevin Hall** (Geography) has been selected as an expert reviewer for The World Conservation Union (Natural World Heritage) in respect to the sub-Antarctic Prince Edward Islands nomination.

GUATEMALA FIELD SCHOOL

- 13 UNBC students participated with **Catherine Nolin** (Geography) in the Geography Field School to Guatemala. The first week of course (24-28 July) work took place at the Prince George campus and for 16 days everyone traveled throughout Gua-



August 9th – Day-long session with women's cooperative members in Chimaltenango, Guatemala

atemala. The delegation-style course "Geographies of Culture, Rights, and Power" featured meetings and excursions with human rights organizations, campesino (farmer) communities, survivors of the 1980s genocide, the Canadian Ambassador & Political Counsellor to the Ambassador, coffee growing communities, and those working to exhume the mass & clandestine graves from the internal armed conflict. The group has plans for UNBC & community presentations in late September in addition to follow-up research.

TRAVEL

- **Brent Murray, Dezene Huber and Brian Aukema** will attend the BC-Alberta Workshop on Mountain Pine Beetle September 12 - 13, 2006 in Vancouver, sponsored by Genome BC and Genome Alberta.

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
Lucille Guiney: guineyl@unbc.ca