NRES WEEKLY NEWS
October 13 - 17, 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

Chief Roland Willson, West Moberly First Nations

A Critical Balance: Land Use Conflicts and West Moberly First Nations

In the Treaty-8 Territory of BC the First Nations are faced with massive resource development challenges from forestry, oil and gas, large scale hydroelectric facilities, pipelines, and windfarms, while struggling to keep the balance between development, economic and business opportunities, the protection of the Treaty rights and self preservation of their community.

Chief Willson will address the challenges his community faces and some of the work that they are doing to preserve land, culture and community.

Light Snack will be Served

Friday, October 10, 2008 **3:30 - 4:30 pm** **Lecture Theatre 7-212**

Next FRIDAY

Dr. Michael Church, Professor Emeritus, UBC Geography Dept.

Holocene Sediment Budget for a 10^3 km^2 Glaciated Drainage Basin

Chilliwack River drains 1200 km^2 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 Snack will be Served

Friday, October 17, 2008 **3:30 - 4:30 pm** **Lecture Theatre 7-212**

IN THE COMMUNITY

A successful 2nd Annual Open House was held at the Quesnel River Research Centre (QRRC) on Saturday 4th October. There were over 60 attendees, of which about 15 were from UNBC including **Bill McGill**. Presentations were mainly by graduate students (Sam Albers, Catherine Henry, Crystal McRae, Kara Przeczek, John Rex, Ty Smith, Kyla Warren: supervisors **Stephen Déry**, **Phil Owens**, **Ellen Petticrew**, **Mike Rutherford**, **Mark Shrimpton**) on a range of topics including hydro-meteorology, fish habitats, sediment-fish interactions, copper leaching in mines, land use activities on water and sediment quality, and a field-portable rainfall simulator (see photo). The presentations were followed by a BBQ lunch for all attendees, and a dinner that evening at the QRRC for UNBC students and faculty to celebrate the end of another successful field season. It is hoped to have a similar event next October.

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