

COMING EVENTS

NRES WEEKLY NEWS April 13 - 17, 2009

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 J. Mitchell

Associate Professor Department of Forest Sciences, UBC

Windthrow Risk Modelling

I will present on our mechanistic and empirical windthrow modelling work and give an update on the status of Forest-GALES_BC, the windthrow risk model that we are developing in conjunction with the UK Forestry Commission. Our mechanistic work includes measuring drag on conifer and deciduous crowns in the UBC Mechanical Engineering wind tunnel, modeling windflow over terrain with MM5 and MC2 mesoscale numerical weather simulation models, tree-pulling to measure critical turning moments. Our empirical work includes fitting logistic regression models to predict the probability of cutblock edge windthrow using edge segment databases assembled in geographic information systems, and fitting models to tree outcomes using plot-based datasets for partial cuts. We have drag and winching datasets for interior spruce and lodgepole pine and empirical models for stands near Prince George.

Light Refreshments will be Served

Thursday, April **16**, 2009

1:00 - 2:00 pm

Lecture Theatre 7-152



Dr. Ron Stewart

Professor and Head, Department of Environment & Geography, University of Manitoba



Extremes: Too Wet and Too Dry

This study examines some of the basics of precipitation extremes. Extremes such as too much or too little precipitation are inherent aspects of the climate system. On occasions, these two types of extremes can also occur in close proximity, spatially or temporally. Examples are given in this presentation using the recent drought that affected the Canadian Prairies as well as nearby regions including British Columbia. This drought was a multi-year event that brought enormous hardship and did not always illustrate some of the typical features of drought — such as hot and cloud-free conditions. As well, heavy precipitation sometimes occurred around the edge of this drought and on occasion passed over drought regions. We therefore need to consider two intertwined extremes of too dry and too wet. Given the general warming that is occurring and the effect of this on accelerating the hydrological cycle, it may be that such instances increase.

Light Refreshments will be Served

Friday, May **8**, 2009

3:30 - 4:30 pm

Lecture Theatre 7-238

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

PUBLICATIONS				
	ue, J. (2009) "Glacier change in G e Age". <i>Global and Planetary Cha</i>	aribaldi Provincial Park, southern Coast Mountains, Brit- nge. 66: 161-178.		
TRAVEL				
working with former post-docto	ral fellow Niklas Björklund, Swedis	usiness, but will take the opportunity to spend three days h University of Agricultural Sciences (SLU), Uppsala, on other colleagues at SLU in Uppsala and Umeå.		
UPCOMING THESIS DEFE	NCES	****		
Master of S	Ms. Monika Gorzelak is a cano cience in Natural Resources and	lidate for the degree: I Environmental Studies (Forestry)		
Ms. Gorzelak will be defending her thesis entitled:				
"Identification and Community Profiling of <i>Vaccinium membranaceum</i> Root-associated Fungi Over an Elevation Gradient in BC's Eastern Rocky Mountains"				
Supervisor: Dr. Hugues Massicotte				
Date: April 14, 2009	Time: 9:00 am	Room: Senate Chambers, Room 1079 UNBC Prince George campus		
Master of S		l Environmental Studies (Forestry)		
	Ms. Balliet will be defending	her thesis entitled:		
"Genecology of 20 Paper Birch (Betula papyrifera Marsh.) Sources from British Columbia and Northern Idaho"				
Supervisor: Dr. Chris Hawkins				
Date: April 15, 2009	Time: 9:00 am	Room: Senate Chambers, Room 1079 UNBC Prince George campus		
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Master of Science		nmental Studies (Environmental Science)		
	Mr. Phaneuf will be defending	g his thesis entitled:		
"Numerical Modelling of Airflo	ow Within and Above Forests and F	Forest Clearings Using Computational Fluid Dynamics"		
	Supervisor: Dr. Pete	r Jackson		
Date: April 16, 2009	Time: 10:00 am	Room: 6-307, Conference Centre UNBC Prince George campus		
**************************************	Mr. Zhiyu Wang is a candida r of Science in Natural Resource	-		
	Mr. Wang will be defending	his thesis entitled:		
"Sequential Monte Carlo Methods for Data Assimilation in Strongly Nonlinear Dynamics"				
Supervisor: Dr. Youmin Tang				
Date: April 20, 2009	Time: 9:30 am	Room: 6-305, Conference Centre		

Date: April 20, 2009

Room: 6-305, Conference Centre UNBC Prince George campus

UPCOMING THESIS DEFENCES (cont'd)			
Master of S	Ms. Crystal Braun is a candio cience in Natural Resources an	date for the degree: d Environmental Studies (Biology)	
	Ms. Braun will be defending	her thesis entitled:	
"The Role of W	eather and Topography in the Dev	velopment of Dothistroma septosporum"	
	Supervisor: Dr. Ka	thy Lewis	
Date: April 21, 2009	Time: 9:00 am	Room: Senate Chambers, Room 1079 UNBC Prince George campus	
Master of Science i	Ms. Janice Allen is a candid n Natural Resources and Enviro	late for the degree: onmental Studies (Environmental Science)	
	Ms. Allen will be defending	her thesis entitled:	
"Source Apportionment of Fine	and Coarse Fraction Particulate	Matter in Prince George and Kelowna, British Columbia"	
	Supervisor: Dr. Pete	er Jackson	
Date: April 21, 2009	Time: 2:00 pm	Room: Senate Chambers, Room 1079 UNBC Prince George campus	
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Master of S	Mr. Travis Gerwing is a candi cience in Natural Resources an	idate for the degree: d Environmental Studies (Biology)	
	Mr. Gerwing will be defending	g his thesis entitled:	
"Repro	ductive Ecology of the Common R	iparian Willow, Salix Sitchensis"	
	Supervisor: Dr. Cecilia Al	ström-Rapaport	
Date: April 23, 2009	Time: 11:00 am	Room: 10-4520, Teaching & Learning Bldg UNBC Prince George campus	
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Master of S	Ms. Marnie Graff is a candic cience in Natural Resources an	late for the degree: d Environmental Studies (Biology)	
	Ms. Graff will be defending	her thesis entitled:	
"Effects of Host Quality Pa	rameters on Fitness of the Mounta (Coleoptera: Curculionid	ain Pine Beetle, <i>Dendroctonus ponderosae</i> Hopkins ae: Scolytinae)"	
	Supervisor: Dr. Staffa	an Lindgren	
Date: April 28, 2009	Time: 1:00 pm	Room: Senate Chambers, Room 1079 UNBC Prince George campus	
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others interested in NRES issue	S.	ants, and/or other honours you may have received with	