

# NRES WEEKLY NEWS

## Oct. 4 - 8, 2010

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



### COMING EVENTS

### NRESI RESEARCH COLLO-

**This Friday**

**Dr. Peter Kevan**  
University of Guelph

**Alliances between beneficial insects, plants and fungi pollinate, protect, and promote crop production**



When you sink your teeth into a luscious greenhouse-grown tomato, thank a bumblebee for pollinating tomato flowers. Bumblebees are essential world-wide for pollination of greenhouse grown vegetable crops. Apart from being great pollinators because of their ability to obtain and disperse pollen, they can also be used to disseminate other tiny particles, notable fungal spores. Although some fungi are plant pathogens, others can be used, as biological control agents, to fight crop pests. Using special dispensers on the fronts of bumblebee hives placed into greenhouses for crop pollination, fungal and microbial biological control agents can be disseminated onto the target crop plants where they attack other fungal pests, such as grey mould (*Botrytis*) as well as a suite of insect pests, such as tarnished plant bug, peach aphid, white fly, and thrips. By mixing two biological control agents, such as *Clonostachys rosea* and *Beauveria bassiana*, the formulations are safe for the bumblebee vectors, suppress pathogenic fungal infections and populations of pest insects, and allow for effective pollination of crops such as tomato and bell pepper. The same sort of technology is being used on field crops such as strawberries, raspberries, blueberries, possible apple and pears, and some oil seed crops like sunflower and canola for which honeybees are the primary vector-pollinators.

The R & D presented in this seminar has come about from the results of pioneering efforts in Canada at the University of Guelph, Agriculture & AgriFood Canada, and private industry.

**October 1, 2010**

**3:30 - 4:30 pm**

**Lecture Theatre 7-150**

**DR. KEVAN'S PRESENTATION WILL BE FOLLOWED BY POSTER PRESENTATIONS BY  
NRES GRADUATE STUDENTS IN THE WINTER GARDEN.**

**ALL WELCOME!**

**Next Wednesday**

**Co-sponsored by the UNBC Fish and Wildlife Student  
Chapter of TWS and the Prince George Naturalists**

**John Neville**  
President, Nature BC



**Voices of the Night: the Owls of British Columbia**

John Neville has had a lifelong interest in birds, which began in the Midlands of England. He began serious field recording of birds in 1993 after he studied with the MacAuley Library of Natural Sounds, Cornell University. John has since been a regular supplier of nature recordings to the Library of Natural Sounds. As Neville Recording, John has produced twelve regional sound guides to bird identification. He regularly presents at Birding Festivals such as the Brant Festival, Wings over the Rockies, and the Meadowlark Festival. He has published articles in journals for the Ontario Federation of Naturalists (Seasons), BC Field Ornithologists (BC Birds), Wildlife Sound Recording Society (Wildlife Sound), and BC Nature (BC Nature), of which he is the President. John's presentation will focus on night sounds of British Columbia owls.

**Please note that this talk will not be available over the web (via Elluminate) because of the integral use of sounds throughout the presentation.**

**Wednesday, October 6, 2010**

**7:00 - 8:00 pm**

**Lecture Theatre 7-138**

**For Elluminate information and link to the webcast: [http://www.unbc.ca/nres/nresi\\_webcast.html](http://www.unbc.ca/nres/nresi_webcast.html)  
For a list of upcoming seminars: <http://www.unbc.ca/nres/seminar/>**

## OTHER COMING EVENTS

### CDI COMMUNITY SPEAKERS SERIES

The Community Development Institute

Tuesday, October 5, 2010 7:00 pm Room 7-150



University of Northern British Columbia

**Ramona Rose, MA, MMst, Head, Archives & Special Collections, the Northern B.C. Archives and Special Collections at the Geoffrey R. Weller Library, UNBC**

Ms. Rose's presentation will focus on collaborative efforts to preserve First Nations community-based archival materials at UNBC, the 'in-trust' holding agreements created, and collaborative working relationships forged. The presentation will consider also future needs for the continuing development of First Nations archives.

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**4th Annual Dr. Max Blouw QRRC Open House** — Saturday, October 2nd starting at 10:00 am. Research talks by UNBC faculty and students will be followed by a BBQ and site tour. If you are interested in attending and would like to travel with other UNBC folks please contact Phil Owens ([owensp@unbc.ca](mailto:owensp@unbc.ca)) by Monday, September 27th.

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**UNBC will be receiving each seminar in high definition video in the Access Grid collaboration node room in Admin 2024.**

**2010 COAST to COAST Canadian Seminar Series:  
The Marine Environment and Climate Change: Problems and Possible Solutions**

**October 5 — 11:30-12:20**

**Randall Martin, Dept. of Physics & Atmospheric Science, Dalhousie University**

Satellite remote sensing of atmospheric composition (such as aerosols, ozone, and their precursors) has progressed markedly over the past decade. Global numerical modeling plays a critical role in interpreting these observations. This talk will highlight recent advances in both remote sensing and global modeling of the troposphere, and their application for insight into processes affecting climate and global air quality.

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## PUBLICATIONS

Alfaro, R.I., Carroll, A., Fleming, R., Hantula, J., Francis, D., Hennon, P.E., Lanfranco, D., Lilja, A., Müller, M., Ramos, M., and A. Woods. (2010) "Forest health in a changing environment" in (eds) Mery, G., Katila, P., Galloway, G., Alfaro, R.I., Kanninen, M., Lobovikov, M. and J. Varjo. *Forests and Society - Responding to Global Drivers of Change*. (Vienna, Austria: International Union of Forest Research Organizations, IUFRO World Series Volume 25) pp 113-134

**Burton, P.J.**, Bergeron, Y., **Bogdanski, B.E.C.**, Juday, G.P., Kuuluvainen, T., McAfee, B.J., Ogden, A., Teplyakov, V.K., Alfaro, R.I., Francis, D.A., Gauthier, S., and J. Hantula. (2010) "Sustainability of boreal forests and forestry in a changing environment" in (eds) Mery, G., Katila, P., Galloway, G., Alfaro, R.I., Kanninen, M., Lobovikov, M. and J. Varjo. *Forests and Society - Responding to Global Drivers of Change*. (Vienna, Austria: International Union of Forest Research Organizations, IUFRO World Series Volume 25) 249-282

McAfee, B.J., de Camino, R., **Burton, P.J.**, Eddy, B., Fähser, L., Messier, C., Reed, M.G., Spies, T., Vides, R., Baker, C., Barriga, M., Campos, J., Corrales, O., Espinoza, L., Gibson, S., Glatthorn, J., Martineau-Delisle, C., Prins, C., and N.-A. Rose. (2010) "Managing forested landscapes for socio-ecological resilience" in (eds) Mery, G., Katila, P., Galloway, G., Alfaro, R.I., Kanninen, M., Lobovikov, M. and J. Varjo. *Forests and Society - Responding to Global Drivers of Change*. (Vienna, Austria: International Union of Forest Research Organizations, IUFRO World Series Volume 25) 401-439

The table of contents and pdf's for individual chapters from this book are available on-line at <http://www.iufro.org/science/special/wfse/forests-society-global-drivers/> <<http://www.iufro.org/science/special/wfse/forests-society-global-drivers/>>

**Lindgren, B.S.** (2010) "Sticking like ants to glass — a question of biological adhesion." *Bulletin of the Entomological Society of Canada* 42: 148-151

## UNBC FISH & WILDLIFE STUDENT CHAPTER OF THE WILDLIFE SOCIETY

Becky Cadsand (NRES grad student), Todd Rinaldi (NRES grad student), Rachel Caira (UNBC TWS member) and Simon Allard (UNBC TWS member) will travel to the Wildlife Society's Annual Conference in Snowbird, Utah (2-6 October). Becky, Rachel, and Simon will represent the UNBC Fish and Wildlife Student Chapter of The Wildlife Society (TWS) at a number of events and functions. Becky will present a poster entitled "An ongoing assessment of mountain goat-heliskiing interactions in Northwest British Columbia" (co-authored with **Mike Gillingham**) and Todd will present the paper "Influence of linear features and snowmachine activity on resource selection by wolves" (co-authored by **Katherine Parker**, **Mike Gillingham**, and Howard Golden).

During the annual meeting, the Wildlife Society's Book Publication Award, which recognizes excellence in scientific writing, will be awarded to co-authors Perry Barboza, **Katherine Parker**, and Ian D. Hume for their recent book "Integrative Wildlife Nutrition" (Springer-Verlag, Berlin Germany. 2009). **Congratulations Kathy!**

### TRAVEL / CONERENCES / FIELD WORK

**Kathy Parker** will travel to the Université Laval, Quebec on 29 September - 3 October to serve as the external examiner for a PhD defence on the effects of environmental variation on reproductive effort and body condition.

**We're on the web at : [www.unbc.ca/nres/newsletter](http://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](mailto:keenm@unbc.ca)**