



NRESi WEEKLY NEWS

September 22 - 26, 2014

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

NRESi NOTES

Hello everyone,

Thanks to those who came out to NRESi's contribution to UNBC's 25th anniversary and participated in the panel discussion last Friday! We took the opportunity to thank Bill McGill for his contributions as Director and present NRESi's awards, as well as reflecting not only on where NRESi has come from, but also looking ahead to possible future research themes. A special thanks goes out to our panelists Mike Gillingham, Kathy Parker, Jim Pojar, Shannon Carson, and Sybille Haeussler for their contributions the discussion! The video will be posted to NRESi's archive in the coming weeks, for those who were not able to attend. To view the full photo album from the event, click [here](#).



Darwyn kicks off NRESi's 25th anniversary event, awards ceremony and panel
Photo credit: UNBC Communications

Darwyn presents Mike Gillingham with NRESi's Distinguished Scholar Award
Photo credit: UNBC Communications

FROM THE DIRECTOR & RESEARCH MANAGER



Darwyn presents Bill McGill with a token of NRESi's appreciation for his role as NRESi's Director
Photo: UNBC Communications

I would like to recognize and congratulate our NRESi award recipients. We greatly appreciate your contributions to NRESi, UNBC, and research in northern BC.

- Mike Gillingham was presented the Distinguished Scholar Award recognizing his leadership with the Biodiversity Monitoring and Assessment Program and his contributions to the Cumulative Environmental, Community and Health Effects Workshop
- Staffan Lindgren received a Lifetime Achievement Award honouring his contributions as a founding NRES faculty member, past member of NRESi's Steering Committee, and excellence in NRES research, teaching and service



REMINDER: Share your information about recent publications, grants, and/or other honours you may have received with others interested in future NRESi issues.

PLEASE EMAIL ALL INFORMATION AND MATERIAL TO: leanne.elliott@unbc.ca

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

- Mike Gillingham was also awarded with a Lifetime Achievement Award to recognize his contributions as a founding NRES faculty member, significant time and effort as past NRESi co-/Director, and excellence in NRES research, teaching and service
- Susan Stevenson's memory was honoured with the Community Advancement Award acknowledging the contributions that she made to NRESi, UNBC and the broader research community through her roles as an adjunct UNBC Ecosystem Science and Management Faculty, a member of NRESi, and a consulting biologist with Silviflora Research. Her son, Peter Stevenson, accepted the award on behalf of her family. Susan's presence will be deeply missed.



Darwyn presents Staffan Lindgren with NRESi's Lifetime Achievement Award.

Photo: UNBC Communications

A reminder that today is our special NRES Graduate Student Icebreaker, starting at 3:30 in **8-164** (note room change) and on [Collaborate](#). We will be welcoming Dr. Connie Nelson as our guest lecturer, as nominated and voted on by our NRES students. The lecture will be followed by a reception and NRES graduate student poster session. More information can be found on page 3.

See you this afternoon!

Leanne Elliott
NRESi Research Manager



Darwyn presents Mike Gillingham with NRESi's Lifetime Achievement Award.

Photo: UNBC Communications



Darwyn presents Susan Stevenson's son, Peter Stevenson, NRESi's Community Advancement Award on behalf of Susan's family.

Photo: UNBC Communications



Mike Gillingham kicked off the panel, describing NRESi's history and successes, followed by Kathy Parker who provided an overview of NRESi member expertise. Panelists from the external community, Jim Pojar, Shannon Carson, and Sybille Haeussler presented views, perspectives, and ideas on possible future research.

Photo : UNBC Communications

 www.facebook.com/unbcnresi

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COMING EVENTS**NRESI RESEARCH COLLOQUIUM SERIES****Dr. Connie Nelson**

Director, Food Security Research Network
Forest Science Program, Lakehead University



Exploring the Application of a Complexity Science Perspective to the Emergence of Sustainable Local Food Systems

Based on research in Northern Ontario, the complexity perspective has been shown to be a compelling approach to understanding the local food system movement and its potential sustainability. The presentation will explore the relevancy of key concepts of complex adaptive systems, resilience and panarchy to the emergence and dynamics of sustainable local food systems.

Friday, SEPT 26th, 2014

3:30 pm - 4:30 pm
Lecture: 8-164

RECEPTION to FOLLOW

To participate remotely: http://www.unbc.ca/nres/nresi_webcast.html

COMING EVENTS**NRESI RESEARCH COLLOQUIUM SERIES**

NRESi Graduate Poster Session

Working with the NRES Graduate Committee, NRESi is co-organizing a special event to welcome new and returning graduate students. Following the lecture by Dr. Nelson, there will be a poster session by NRES graduate students and reception for participants. All are welcome!

Friday, SEPT 26th, 2014

4:30pm - onwards
Poster Session & Reception: T&L Atrium

RECEPTION

COMING EVENTS**NRESI RESEARCH COLLOQUIUM SERIES****Dr. Thomas Pypker**

Department of Natural Resource Sciences
Thompson Rivers University



Potential Impact of Climate Change on Greenhouse Gas Emissions From Sub-Boreal Peatlands

Peatlands are a critical component in the global carbon (C) cycle because they represent a long-term sink of atmospheric carbon. Today, soil carbon stocks in peatlands are estimated to be 1850 Pg (10^{15} g); equal to 12-30% of the global soil carbon pool. Moreover, peatland ecosystems currently sequester an estimated 76 Tg (10^{12} g) $C^{-1} yr^{-1}$. Peatlands are also a significant source of methane (CH_4) because of the anaerobic conditions occurring in the often saturated peat. The fate of the stored carbon in peatlands is now in question because many of the world's peatlands are located in northern climates where temperature and precipitation are expected to experience rapid change. Using examples from my research in Upper Michigan, I will present information on how changes in hydrology and temperature may influence carbon emissions from peatlands.

Friday, OCT 3rd, 2014

3:30 pm - 4:30 pm
Room: Weldwood Theatre (7-238)
To participate remotely: http://www.unbc.ca/nres/nresi_webcast.html

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THESIS DEFENCE NOTICE

GRADUATE THESIS DEFENCE

Mr. Peng Wu is a candidate for the degree:

Doctor of Philosophy in Natural Resources and Environmental Studies

Mr. Wu will be defending his thesis entitled:

“Local Scour Around Bridge Abutments Under Ice Covered Conditions”

Co-Supervisors: **Dr. Jueyi Sui and Dr. Liang Chen**

Date: **October 8, 2014** Time: 1:00pm Room: Senate Chambers (PG Campus)

PUBLICATIONS

Boulanger, Y., S. Gauthier, and **P.J. Burton**. 2014. A refinement of models projecting future Canadian fire regimes using homogeneous fire regime zones. *Canadian Journal of Forest Research* 44: 365-376. DOI: 10.1139/cjfr-2013-0372

Brown, M.G., T.A. Black, Z. Nestic, V.N. Foord, D.L. Spittlehouse, **A.L. Fredeen**, R. Bowler, N.J. Grant, **P.J. Burton**, J.A. Trofymow, and D. Lessard. 2014. Evapotranspiration and canopy characteristics of two lodgepole pine stands following mountain pine beetle attack. *Hydrological Processes* 28(8): 3326-3340. DOI: 10.1002/hyp.9870.

Burton, P.J. 2014. Considerations for monitoring and evaluating forest restoration. *Journal of Sustainable Forestry* 33(S1): S149-S160. DOI: 10.1080/10549811.2014.884001

Carson, A.W., **P.M. Rutherford**, and **P.J. Burton**. 2014. Desulphurized tailings serve as a useful soil supplement for mine reclamation. *Canadian Journal of Soil Science* 94: 529-541. DOI: 10.4141/cjss2013-116 [cover story]

Gauthier, S., P. Bernier, **P.J. Burton**, J. Edwards, K. Isaac, N. Isabel, K. Jayen, H. Le Goff, and E.A. Nelson. 2014. Climate change vulnerability and adaptation in the managed Canadian boreal forest. *Environmental Reviews* 22(3): 256-285. DOI: 10.1139/er-2013-0064

Gauthier, S., M. Lorente, L. Kremsater, L. De Grandpré, **P.J. Burton**, I. Aubin, E.H. Hogg, S. Nadeau, E.A. Nelson, A.R. Taylor, and C. Ste-Marie. 2014. Tracking Climate Change Effects: Potential Indicators for Canada's Forests and Forest Sector. Canadian Forest Service, Natural Resources Canada, Ottawa, Ontario. 86 p. Available on-line at <http://cfs.nrcan.gc.ca/pubwarehouse/pdfs/35231.pdf>

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OTHER EVENTS OF INTEREST

Best of Banff Mountain Film Festival World Tour

Tuesday, September 30th, 2014
7:00pm

Prince George Playhouse

Proceeds to the Cranbrook Hill Greenway Endowment Fund. Tickets available from: Roger Wheate, UNBC Bookstore, Books & Co., Stride & Glide: \$18 / \$20 at the door (if any are left).

For more information: click [here](#)

OTHER EVENTS OF INTEREST

Options for a Cleaner, Stronger Economy in B.C.

Thursday, October 2nd, 2014
7:00pm - 9:00pm

Nechako Room
Coast Inn of the North, PG

Ensuring long-term prosperity and a healthy environment for BC means coming together to embrace solutions for the future, which look different for every community. Join representatives from BC labour and environmental groups, hear about realistic possibilities for creating green jobs and share your vision for your community.

For more information: click [here](#).

SHARE YOUR PHOTOS & STORIES

Do you have a favourite photo, story or update from your research that you would like to share with your fellow members and the broader NRESi community in the newsletter? Send them to Leanne to include in an upcoming edition!

COLLOQUIUM ARCHIVE

Did you miss a colloquium or special lecture? Visit NRESi's webcast archive to catch up! This can be found through the following link: <http://www.unbc.ca/nres-institute/colloquium-series/archived-colloquium-series>

ARCHIVE OF PAST EVENTS

Information, links, proceedings, and other information from past NRESi hosted and co-led events can be found at: <http://www.unbc.ca/nres-institute/special-events>. This site currently includes information about the Forest Tenure events (Annual Lecture and workshop) and a link to the Cumulative Effects Workshop site.

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