



# NRESi Bi-WEEKLY NEWS

## Oct 24 - Nov 4, 2016

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

### NRESi NOTES

### FROM THE RESEARCH MANAGER

Hello everyone,

The fall semester is slowly winding down.

This Friday's (Nov 18th) colloquium presentation is an Inspiring Women Among Us (IWAU) and Pacific Institute for Climate Solutions (PICS) sponsored event and will feature Claire Martin, former CBC Senior Meteorologist, who will be talking about Gender Participation at COP21. Get there early as this presentation is expected to be standing room only. The following Friday's colloquium presentation features the Doug Little Memorial Lecture speaker, Dr. Susan Wood-Bohm from Alberta Innovates. Both presentations will be LiveStreamed and also available through Blue Jeans.

On the following Friday—Dec 2nd, there is no colloquium BUT the NRES Graduate Program and the NRES Institute will be hosting a NRES Grad student poster presentation and reception from 4-6 pm in the Teaching and Learning Building (10) Atrium. Please come out and hear about all the exciting research being undertaken by our graduate students and celebrate the end of the fall semester.

Al Wiensczyk, RPF

Research Manager, NRESi

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### UPCOMING EVENTS

### NRESi COLLOQUIUM

Claire Martin will be our guest presenter on November 18th. Ms. Martin's presentation is being sponsored by Inspiring Women Among Us (IWAU) and the Pacific Institute for Climate Solutions (PICS). On the following Friday, November 25th, Dr. Susan Wood-Bohm will be our colloquium speaker. Watch for announcements closer to the lectures confirming the presenter and topic. Lectures for the fall semester will be held in room **7-150**.

The speaker line-up for the winter colloquium series has been filled (see page 3). Thanks to those who suggested speakers or volunteered to speak themselves.

### TENTATIVE FALL SEMESTER COLLOQUIUM SCHEDULE

Presentation Date	Tentative Presenter and/or Topic
Nov 18, 2016	<b>Gender and Participation at GOP21.</b> Claire Martin (former CBC Senior Meteorologist) — Inspiring Women Among Us (IWAU) /Pacific Institute for Climate Solutions (PICS) sponsored speaker.
Nov 25, 2016	<b>Emerging opportunities in forest carbon research and development.</b> Dr. Susan Wood-Bohm—Executive Director—Biological GHG Management—Alberta Innovates
Dec 2, 2016	<b>NRES Grad Student Poster Presentation and Reception—4:00-6:00 pm Teaching and Learning Building (10) Atrium.</b>

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

## UPCOMING EVENTS

## IWAU/NRESi COLLOQUIUM

**Claire Martin**

**Former CBC Senior Meteorologist**  
**[Gender and Participation at COP21](#)**



Claire Martin had the opportunity to attend COP21 in France at the end of 2015, at the request of the Green Party of Canada and the newly minted Liberal government, to help Canada negotiate a new global climate plan. Inside the damp, cold, testosterone filled tarp covered walkways around the COP21 temporary facilities, Claire had the opportunity to watch world leaders wrestle over the terms of a legal document that will affect us for generations. But what about the women? Were they heard? Claire will introduce you to the "other" battle going on at COP21.



This event is being sponsored by Inspiring Women Among Us and the Pacific Institute for Climate Solutions.



*Please note the increased length of time for this presentation.*

**Friday, Nov 18, 2016**

**3:30 pm - 5:00 pm**

**Room: 7-150**

To participate remotely: <http://www.unbc.ca/nres-institute/colloquium-webcasts>

## UPCOMING EVENTS

## NRESi COLLOQUIUM

**Dr. Susan Wood-Bohm**

**Executive Director, Biological GHG Management**  
**Alberta Innovates**



**[Emerging opportunities in forest carbon research and development](#)**

As global attention has turned to the grand challenge of addressing climate change, new interest in the carbon sequestration and emissions reductions opportunities through the use of Canada's managed forests has emerged. In this talk, we will explore priority areas where researchers can inform policy and investment decisions in the sustainable production and use of forest resources.

**Friday, Nov 25, 2016**

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

**Room: 7-150**

To participate remotely: <http://www.unbc.ca/nres-institute/colloquium-webcasts>

## UPCOMING EVENTS

## Doug Little Memorial Lecture

**BIOCLEANTECH: New Opportunities for Canada's Forest Sector**

**Dr. Susan Wood-Bohm**, Executive Director, Biological GHG Management, Alberta Innovates

Thursday, November, 24, 2016—7:30 pm

Canfor Theatre, UNBC.

The use of Canada's natural endowment of forest biomass has been a cornerstone of growth and development for this country since long before confederation. Each generation has witnessed changes in forest landscapes, the demand for specific products and the rules that govern management. Now "BioCleantech", or the sustainable use of biogenic carbon in industrial applications may help Canada meet new goals in ambitious emission reductions and low carbon economic development. Linking big data, GIS, drones and other high tech tools to the drive for non-fossil carbons brings both fresh opportunities and potential risks for forest ecosystems, timber communities and traditional pulp and dimensional lumber markets. This lecture will explore how the changing human landscape overlaid on the backdrop of global climate change is transforming global demands on forests and their managers.

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## TENTATIVE WINTER SEMESTER COLLOQUIUM SCHEDULE

Presentation Date	Tentative Presenter and/or Topic
Jan 13, 2017	The 'Paleo diet' and the archaeological evidence for the evolution of human diets. Dr. Mike Richards, Simon Fraser University.
Jan 20, 2017	The Resilience of Wildlife Tourism Operations to Environmental Change. Diana Kutzner, UNBC
Jan 27, 2017	Mark Thompson, DWB Consulting Services Ltd.
Feb 3, 2017	Dr. Laurence Smith, UCLA
Feb 10, 2017	Dr. Matt Reudink, Thompson Rivers University, (TBC)
Feb 24, 2017	Dr. Paul Kushner, University of Toronto
Mar 3, 2017	Jim Pojar
Mar 10, 2017	Dr. Lisa Wood, UNBC
Mar 17, 2017	Andrew Adams, Hope Farms
Mar 24, 2017	Dr. Evelyn Merrill, U of Alberta
Mar 31, 2017	Dr. Michele Venter

### UPCOMING EVENTS

### CIRC WORKSHOP

#### Community Workshop on Cumulative Impacts in the Peace River Region.

November 29, 2016

Fort St. John, British Columbia

The CIRC will be hosting a free half-day workshop looking at the cumulative community, health, and environmental impacts of resource development in the Peace River Region. Participants can register for this public event online: <http://bit.ly/2elpkAY>

For more information, feel free to contact Madeline Wilson at [madeline.wilson@unbc.ca](mailto:madeline.wilson@unbc.ca)

### UPCOMING EVENTS

#### 5th BC Protected Areas Research Forum

December 5-7, 2016

Cadboro Commons, University of Victoria

The **BC Protected Areas Research Forum (BCPARF)** is a bi/tri-annual gathering of British Columbia (and neighbours) parks and protected areas managers and researchers from government, First Nations, academia (faculty and students), industry, non-governmental organizations and private sectors whom are involved and interested in the ecological and social dimensions of protected areas planning and management.

Please visit the conference website <http://www.unbc.ca/bc-protected-area-research-forum> for registration info, the preliminary conference program, and other research forum information.

### UPCOMING EVENTS

### ART EXHIBITION

#### CHANGE—Art and Science on Climate Change

October 21, 2016—January 8, 2017.

Two Rivers Gallery—725 Canada Games Way, Prince George.

*Change* is an exhibition that does more than call the phenomenon of climate change out. A collaboration between UNBC, the Two Rivers Gallery, and PICS, *Change* uses the permanent collection to offer insight, informative research and useful resources to assist in exploring solutions. This exhibition uses a mix of science and art to show a path forward.

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## UPCOMING EVENTS

Canadian Institute of Forestry: Electronic Lecture Series: Earth, Wind and Fire: An update on the Canadian Forest Service's Research Activities.

Date/Time	Title	Presenter(s)
Nov 23, 2016 10:30 am PST	<b>Boreal Caribou Update</b>	<b>Ian Thompson</b> —Forest Ecologist, Great Lakes Forestry Centre
Nov 30, 2016 10:30 am PST	<b>Global Warming: Which consequences on boreal forest landscapes and habitats?</b>	<b>Yan Boulanger</b> —Research Scientist in Forest Ecology, Laurentian Forestry Centre
Dec 7, 2016 10:30 am PST	<b>Linear Disturbances/EMEND</b>	<b>Anna Dabros</b> —Forest Ecologist, Northern Forestry Centre
Jan 11, 2017 10:30 am PST	<b>The Canadian wildland fire information system: More than a website.</b>	<b>John Little</b> —Spatial Data Analyst, and <b>Brian Simpson</b> —Forest Analyst and modeler, Northern Forestry Centre.
Jan 18, 2017 10:30 am PST	<b>Forest Carbon Dynamics</b>	<b>Juha Metsaranta</b> —Research Scientist, Northern Forestry Centre
Jan 25, 2017 10:30 am PST	<b>GHG Mitigation Potential of Forest Bioenergy Use</b>	<b>Jérôme Laganière</b> —Research Scientist, Laurentian Forestry Centre

All electronic lectures are free. Your consideration of CIF/IFC membership would be appreciated. To become a CIF/IFC member: [www.cif-ifc.org/membership-content/become-a-member/](http://www.cif-ifc.org/membership-content/become-a-member/)  
[www.cif-ifc.org/e-lectures/](http://www.cif-ifc.org/e-lectures/)

For additional information or to register, contact the CIF-IFC

E-mail: [electures@cif-ifc.org](mailto:electures@cif-ifc.org) Tel: 705-744-1715 ext. 585

## TRAVEL & CONFERENCES

**Dr. Phil Burton** was in Montreal and Ottawa earlier this month, taking part in an NSERC Industrial Research Chair site visit, and in the annual Editors Meeting for Canadian Science Publishing.

On November 17-18, 2016, **Dr. Stephen Déry** will be participating in the Canadian Sea Ice and Snow Evolution (CANSISE Network's annual workshop in Toronto, Ontario.

## IN THE NEWS

On 5 November 2016, **Drs. Phil Owens, Mike Rutherford** and **Stephen Déry** hosted seven undergraduate environmental science students for a demonstration of the process in winterizing a weather station and to discuss their ongoing research in northern BC.

## Cumulative Impacts Research Consortium (CIRC) news

**Chris Buse** is currently away on a visiting lectureship at the University of Melbourne until the end of December. He will have limited email contact during the next two weeks, but will otherwise be online. During his absence please contact [Madeline Wilson](mailto:Madeline.Wilson@unbc.ca) regarding any CIRC business or activities.

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## PUBLICATIONS

Richardson, T.A., W.B. Strong, B.H. Aukema, S. Takács, T. Zahradnik, and **B.S. Lindgren**. 2016. Assessment of cues potentially mediating host selection of *Leptoglossus occidentalis* on *Pinus contorta*. *Agricultural and Forest Entomology* DOI: 10.1111/afe.12203

**Petticrew, E.**, and **P. Owens**. 2016. The impact of mining tailings on local ecosystems. *Adjacent Government*, 27 October <http://www.adjacentgovernment.co.uk/farming-environment-marine-sustainable-news/impact-large-watershed-local-ecosystems/29464/>

**Sanborn, P.** 2016. The imprint of time on Canadian soil landscapes. *Quaternary International* 418: 165-179.

## IN THE NEWS

## (Government press releases)

### Public input sought on fishing regulation changes

**Nov 17, 2016—Victoria.** Proposed changes to fishing regulations for the 2017-2019 Freshwater Fishing Regulations Synopsis are now available for public comment and feedback. A complete list and description of the proposed regulations can be viewed online at: <http://apps.nrs.gov.bc.ca/pub/ahte/> [For more details...](#)

### B.C.'s innovative carbon tax recognized with international award

**Nov 16, 2016—Marrakech, Morocco.** British Columbia has again been honoured as an international climate leader for its revenue-neutral carbon tax. [For more details...](#)

### Great Bear Rainforest receives prestigious recognition by the Queen's Commonwealth Canopy Initiative

**Nov 15, 2016—London, England.** The Great Bear Rainforest was the largest forest conservation project showcased today at a special ceremony by Her Majesty the Queen at Buckingham Palace under The Queen's Commonwealth Canopy Initiative. [For more details...](#)

### Great Bear Rainforest legacy to be recognized on international stage

**Nov 13, 2016—Victoria.** Premier Christy Clark will be the first Premier in over 40 years to attend an official function at Buckingham Palace. She will be attending The Queen's Commonwealth Canopy Initiative recognition ceremony. [For more details...](#)

### Kitselas First Nation focused on geothermal energy

**Nov 10, 2016—Terrace.** With support from B.C.'s First Nations Clean Energy Business Fund, Kitselas First Nation is pursuing private power purchase agreement partnerships with major project proponents in northwest British Columbia. These partnerships will support the exploratory drilling stage for the proposed Kitselas Geothermal Power Generation Project. [For more details...](#)

### BC anti-racism networks receive provincial funding

**Nov 9, 2016—Victoria.** The Community organizations working to address racism through the B.C. Organizing Against Racism and Hate (OARH) program will share over \$217,000 in provincial funding aimed at supporting their efforts to challenge racism and celebrate diversity. Funds will be directly distributed to 33 organizations located in communities throughout British Columbia. [For more details...](#)

### Skills-training project targets LNG jobs

**Nov 8, 2016—Gitanyow.** New skills-training programs for members of the Gitanyow First Nation community will increase opportunities for sustainable employment in the liquefied natural gas (LNG) sector and provide long-term benefits for individuals and their families. [For more details...](#)

### Another form of higher education: scaffolding

**Nov 8, 2016—Kitamat.** Demand for qualified scaffolders is on the rise in northwestern B.C. To help meet this labour-market need and to provide new employment opportunities for Indigenous people, B.C. is funding a new scaffolding training program for members of the Haisla First Nation. [For more details...](#)

### Premier responds to federal government's marine strategy

**Nov 7, 2016—Vancouver.** British Columbia Premier Christy Clark has issued the following statement in response to the federal government's announcement regarding enhanced marine-response capacity: [For more details...](#)

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## RESEARCH FELLOWSHIP FUNDING OPPORTUNITY

WCS Canada is pleased to announce that with generous support from [The W. Garfield Weston Foundation](#), they are able to award annual fellowships to graduate students to support field research relevant to WCS Canada's conservation objectives at their two long-term conservation sites: the boreal region of northern Ontario and the northern boreal mountains of Yukon and British Columbia.

The application deadline for the 2017 W. Garfield Weston 2015 Fellowship Program is **February 23, 2017**.

For full details about the Fellowship Program and how to apply please go to the WCS Canada [Fellowship page](#).

## LITO AROCENA STUDENT AWARDS

Last December, dear colleague and founding UNBC faculty member, Dr. Lito Arocena passed away after a short battle with cancer. In honour of his memory, a UNBC memorial fund was established to support three student awards, which have recently been instituted:

**Dr. Joselito (Lito) Arocena Memorial Scholarship** (\$1000). Available to a full time undergraduate student who has completed 90 credit hours and is pursuing a Bachelor of Science honours or majors degree in one of the following: Biology, Environmental Science, Geography, or Natural Resources Management. Criteria: Academic excellence

**Dr. Joselito (Lito) Arocena Memorial Undergraduate Thesis Prize** (\$250). Awarded for the best thesis presented by undergraduate students completing an undergraduate major or honours degree in one of: Biology, Environmental Planning, Environmental Science, Environmental Studies, Geography, Natural Resources Management, or Nature-based Tourism Management.

**Dr. Joselito (Lito) Arocena Memorial Graduate Prize** (\$250). The Prize will be awarded to the student nominated by the NRES Graduate Program for the UNBC Governor General's Gold Medal.

Thanks to contributions from donors and UNBC, the fund is currently large enough to endow the \$1000 scholarship in perpetuity. However additional contributions are needed to permanently endow the two prizes, and to increase the amounts awarded over time. If anyone would like to contribute to this fund, through payroll deductions or otherwise, please go to [www.unbc.ca/giving](http://www.unbc.ca/giving) or [www.unbc.ca/giving/employee-giving](http://www.unbc.ca/giving/employee-giving) for more information.

## SUSAN STEVENSON MEMORIAL AWARD

As its first project of this kind, the Natural Resources and Environmental Studies Institute (NRESi) has established the Susan Stevenson Scholarship Fund, in memory of wildlife ecologist and NRESi member Susan Stevenson. During a 35-year career built primarily in the BC central interior, Susan designed and implemented important research and inventory projects related to mountain caribou habitat, lichen biology, and silvicultural systems, collaborating with a diverse range of researchers, and gave generously of her expertise to the next generation of scientists. Susan exemplified the Institute's values of interdisciplinary curiosity and unselfish collaboration, and enriched the lives of all those who worked and studied with her.

Efforts have succeeded in reaching the goal of \$15,000 that will be matched by UNBC to allow for an annual award. Additional contributions to the fund are welcomed. The inaugural award will be presented in the 2016-2017 academic year. NRESi would like to thank everyone who contributed to the scholarship!

The following award criteria for the **Susan Stevenson Memorial Award** have been developed:

**Value:** \$1,000

**Eligibility:** Available to a full or part time female graduate student enrolled in either the Masters (NRES) or PhD (NRES) degree programs with a research emphasis in one or more of: wildlife ecology, plant biology, forest ecology, or innovative silvicultural systems and practices that emphasize wildlife management and biodiversity objectives.

**Criteria:** Satisfactory Academic Standing (3.0 GPA)

**Conditions:** Student is unable to receive this award more than once.

**Recipient Selection:** Senate Committee on Scholarships and Bursaries on recommendation of the NRESi Steering Committee. Applicants will provide a statement, not exceeding 500 words in length, explaining how their intended research fits within the areas specified for his award.

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## COLLOQUIUM ARCHIVE

Did you miss a colloquium or special lecture this semester? Visit NRESi's webcast archive to catch up! They can be found on the [NRESi Youtube channel](#).



Crazy eye bull caribou at Kennedy Siding—photo by Dr. Roy Rea

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