



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,

Only a month left in the fall semester. Where does the time go?

Following the Friday, October 21st colloquium talk we presented the annual NRESi Awards. There was only one award presented this year. Congratulations to this year's recipient of the NRESi Community Advancement Award. **Dr. Darwyn Coxson** received the award for his work related to the creation of the Ancient Forest/Chun T'oh Whudujut Provincial Park. (see page 5 of the newsletter for more details)

At this Friday's (Nov 4th) colloquium presentation Vanessa Foord, Regional Climatologist with the BC Ministry of Forests, Lands and Natural Resource Operations will be talking about climate change in Northern BC. There is no colloquium the following Friday due to the Remembrance Day holiday. However, on Wednesday, November 9th, Dr. Judith Kulig from the University of Lethbridge will be on hand to talk about Psychological Health—Post disaster: Directions from Wildfire research. This presentation is sponsored by the Department of Psychology, and Schools of Nursing, and of Health Sciences. This latter presentation will not be Livestreamed.

Al Wiensczyk, RPF

Research Manager, NRESi

UPCOMING EVENTS

NRESi COLLOQUIUM

Vanessa Foord is our presenter for the November 4th Friday colloquium and Claire Martin will be presenting on November 18th. Ms Martin's presentation is being sponsored by the Inspiring Women Among Us (IWAU). Watch for announcements closer to the lectures confirming the presenter and topic. Lectures for the fall semester will be held in room **7-150**.

Planning for the winter 2017 colloquium series is currently underway. If you any suggestions for speakers, or if you would be willing to make a presentation yourself please contact me via email using the email address below.

TENTATIVE FALL SEMESTER COLLOQUIUM SCHEDULE

Presentation Date	Tentative Presenter and/or Topic
Nov 4, 2016	Responding to Climate Change in Northern BC. Vanessa Foord, (BC Ministry of Forests, Lands and Natural Resource Operations).
Nov 18, 2016	Gender and Participation at GOP21. Claire Martin (former CBC Senior Meteorologist) — Inspiring Women Among Us (IWAU) /Pacific Institute for Climate Solutions (PICS) sponsored speaker.
Nov 25, 2016	Dr. Susan Wood-Bohm—Executive Director—Biological GHG Management—Alberta Innovates

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

UPCOMING EVENTS

NRESi COLLOQUIUM

Vanessa Foord

Regional Climatologist, BC Ministry of Forests, Lands and Natural Resource Operations

[Responding to Climate Change in Northern BC](#)



This presentation will cover various activities and initiatives the BC Ministry of Forests, Lands, and Natural Resource Operations has done over the past 10 years to respond to climate change. This includes the establishment of many research projects to assess the impacts of climate change to northern BC forests. An update on recent climate events, both locally and globally will also be shown. Climate adaptation plans will be introduced including the Ministry's Climate Change Strategy as well as BC's Climate Leadership Plan for reducing greenhouse gas emissions. The presentation will conclude with a discussion of knowledge gaps and recommendations.

Friday, Nov 4, 2016

3:30 pm - 4:30 pm

Room: 7-150

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

UPCOMING EVENTS

Psychology, Nursing, Health Sciences NRESi COLLOQUIUM

Dr. Judith Kulig

**Faculty of Health Sciences
University of Lethbridge**

[Psychological Health Post-disaster: Directions from our Wildfire research](#)



Our wildfire research program focused on four wildfires: Mallard Fire, Sask (1999), Lost Creek Fire, Alberta (2003); McLure Fire, BC (2003), and Slave Lake, Alberta (2011). We conducted research after each of these wildfires to identify factors influencing community resilience and to investigate individual coping strategies for dealing with the events and their aftermath. This presentation highlights findings in relation to children, families, individuals and communities; including, PTSD, cohesion and resilience and the inter-relations among these three conditions. Implications for disaster preparation and recovery will also be discussed.

This talk is being sponsored by the Department of Psychology, the School of Nursing, and the School of Health Sciences.

**Wednesday, Nov 9,
2016**

2:30 pm - 3:20 pm

Room: 7-150

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

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

PRESENTATION

British Columbia's Cariboo Chilcotin Coast—A Photographer's Journey

November 9, 2016

7:30 pm

Canfor Theatre, UNBC

Tickets: \$10.00 (available at Books & Co., Studio 2880, or at the door)

Photographer Chris Harris will present his last book — British Columbia's Cariboo Chilcotin Coast - A Photographer's Journey. The presentation will feature photographs, videos and original music. See Chris' latest newsletter for his explanation of why this will be his last book! <http://www.chrisharris.com> Books will be available for purchase after the presentation.



Chris Harris was first drawn to the high central plateau of British Columbia by the lure of a unique canoe circuit set at the foot of a range of mountains and the cross-country ski trails that meander through aspen groves and rolling trails. After years of introducing students to the wilderness from within the school system in Vancouver, he decided to make this plateau his home. From there began a career of professional guiding, photography, publishing and teaching that is not over yet after 30 years.

At the core of the region is an area that is the realization of another dream, held by a very few and executed in silence by them over almost 30 years at the land-use negotiation tables. The dream was to set aside the largest, most bio-diverse, contiguous wilderness complex in the temperate world, and in so doing, to retain a blueprint for environmental resiliency in no less than 10 distinctive biogeoclimatic zones. This book is the story of the dreamers of that dream, now in place as the Chilcotin Ark, a planetary refugia in coming crises. Chris Harris takes us home, through stories and pictures, to the planet we have lost sight of in our hurry to dominate it.

This book is for anyone who has ever yearned for renewed connection to the home that has almost been lost, but can, with understanding, determination and vision, return to sacredness.

The event is sponsored by the Prince George Photographic Society. Call 250-562-3717 for information.

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UPCOMING EVENTS

Canadian Institute of Forestry: Electronic Lecture Series:

Date/Time	Title	Presenter(s)
Nov 9, 2016 10:30 am PST	Lessons learned in Ottawa from EAB.	Jason Pollard—Forester, City of Ottawa.
Nov 16, 2016 10:30 am PST	A forest within a forest: Urban forestry operations and initiatives in the Borough of Côte-des-Neiges-Notre-Dame-de-Grâce.	Meagan Hanna—Foreman, Parks and Recreation, City of Montreal. President, ISA Quebec Chapter.

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/
www.cif-ifc.org/e-lectures/

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

E-mail: lectures@cif-ifc.org Tel: 705-744-1715 ext. 585

UPCOMING EVENTS

Site C Keep the Peace

Nov 14, 2016

6:30 pm

Room 7-212, UNBC

Admission: By donation—all proceeds to go to support [Treaty 8 First Nations' legal challenges to the Site C dam](#)

The Peace Valley can provide fruits and vegetables for one million people - and abundant traditional harvests of Bull Trout, Moose, berries and medicinal plants for the region's First Nations. If the B.C. government is allowed to flood this land for the Site C dam, taxpayers will be on the hook. How can we support the people of the Peace Valley and stop Site C?

Speakers:

Yvonne Tupper—Saulteau First Nation

Ben Parfitt, Resource Policy Analyst, Canadian Centre for Policy Alternatives

Ana Simeon, Sierra Club BC.

Hosted by the Sea to Sands Conservation Alliance and Sierra Club BC.



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.

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NRESi AWARDS

On Friday, October 21, 2016, NRESi hosted their 3rd annual recognition awards ceremony. One award was presented. Continuing the tradition established last year, this year's award recipient received an engraved yellow-cedar plaque made by Mark Bell at Cassiar Cannery near Port Edward. The plaque was milled on-site from driftwood collected in the Skeena River and shows, like our award recipient, a deep connection to the land and local communities.

Community Advancement Award

The recipient of this award will have demonstrated a broad influence on the development of natural resources and/or the conservation of our environment beyond their normal job-related duties, through interdisciplinary research or service to communities in the central-north of B.C. This year's recipient of **NRESi Community Advancement Award** is **Dr. Darwyn Coxson**.



Dr. Darwyn Coxson received this award in recognition of his outstanding work promoting Northern Wetbelt Forest Ecology and the establishment of the Ancient Forest/Chun T'oh Whudujut Provincial Park. Darwyn's efforts to advance our understanding of inland temperate rainforests, and to promote a general appreciation for these unique ecosystems, has played an instrumental role in establishing the community value and awareness of rare ecological systems. In addition, his scientific and personal efforts have been instrumental in developing conservation measures and the conservation designations for the Ancient Forest area. The community development that Darwyn has engaged in is particularly impressive in that it promotes appreciation of B.C.'s central interior to both international and national audiences, while simultaneously facilitating the connection of local groups with the natural world. While many people may initially stop at the Ancient Forest trail to simply marvel at the impressive size of the trees, many will be hard pressed not to begin thinking about the ecological factors that have allowed this ecosystem to develop. This soft transition from basic wonderment to a consideration of complex ecological processes relies on good science, such as Darwyn and his group are doing, being presented in a meaningful and digestible way. It also has required a substantial and sustained effort, by Darwin and others, to make sure that the value of these areas are recognized and adequately conserved. Equally impressive is the diversity of local community groups (Caledonia Ramblers Hiking Society) and First Nations (Lheidli T'enneh First Nation) that have been brought together through the construction of the Ancient Forest trail, and the designation of the area as a provincial park.

TRAVEL & CONFERENCES

Dr. Catherine Nolin was invited to participate in the "Encountering Transnational Violence in Guatemala" research workshop organized by the Collaborative Research Centre for Governance in Areas of Limited Statehood at the Freie Universität Berlin, 20-21 October 2016. Catherine presented a research paper: Transnational ruptures & connections in a time of impunity: Genocide, mining & 'development' in contemporary Guatemala.



IN THE NEWS

Dr. Jianbing Li in the environmental engineering program was recently appointed as a member of the NSERC Research Tools and Instruments (RTI) Selection Committee for Engineering.



The Geography Program hosted a fall gathering for faculty, graduate students and TAs at the Pacific Western Brewery on October 27th. Great time had by all while we celebrated all our many research and teaching successes.



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Cumulative Impacts Research Consortium (CIRC) news

Chris Buse, Maddy Wilson, Rebecca Delorey and **Art Fredeen** travelled to Fort Nelson from October 25-27 to host a community workshop: "Looking Back, Looking Forward: Cumulative impacts and resource development in northern BC." The workshop took place at Northern Lights College and was attended by 18 community members, and involved panel presentations, roundtable discussions and activities focused around the topic of community, health, and environmental values in the Northern Rockies region. The panel presentations were livestreamed through the Ecohealth Knowledge to Action Research Group; video recordings and a workshop report will be available on the CIRC website in the next couple weeks.

Pacific Institute for Climate Solutions (PICS) news

Dr. [Werner Kurz](#) of the Canadian Forest Service will be giving a talk on forests and carbon at UNBC on Tuesday, November 15th at 4:30 PM in room 5-140. He'll be on campus all day on Wednesday, November 16th as well. Please contact Michelle Connolly (michelle.connolly@unbc.ca) if you would like to meet him or have him visit you class that day. Dr. Kurz is the principal investigator on PICS's [Forest Carbon Management Project](#).

Northern Analytical Laboratory Service (NALS) Update

New Analytical Chemistry Course for Graduates in January 2017

CHEM410/CHEM610 (Topics in Analytical Chemistry)

Schedule Types: Lecture, Final Exam, Laboratory

Instructor: Hossein Kazemian (Hossein.kazemian@unbc.ca)

Prerequisites: Please contact Instructor

What is this course about?

An advanced treatment of selected topics in analytical chemistry such as spectroscopy, separation technology and analytical instrumentation. Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses.

Who should take it?

The focus for January 2017 semester will be on atomic spectroscopy. The course outline will be tailored according to students' needs!

This hands-on experience course is designed and recommended for 4th year students and all graduate students from different science programs who want to become familiar with the theory and application of different instrumental techniques at the Northern Analytical Lab Services (NALS) including, but not limited to: ICP-OES, ICP-MS, MP-AES.

When:

Jan 2017 Semester (Tue: 14:30-17:20 and Thu: 14:00 to 17:20)

PUBLICATIONS

Owens PN, Blake WH, Gaspar L, Gateuille D, Koiter AJ, Lobb DA, **Petticrew EL**, Reiffarth DG, Smith HG, Woodward JC (2016). Fingerprinting and tracing the sources of soils and sediments: Earth and ocean science, geoarchaeological, forensic, and human health applications. *Earth-Science Reviews*, 162, 1-23.

IN THE NEWS

(Government press releases)

Province welcomes new Woodfibre LNG moving forward

Nov 4, 2016—Squamish. Premier Christy Clark welcomed the news that the Woodfibre LNG project has received board authorization to proceed with the \$1.6-billion project that will create 650 jobs during construction and 100 operational jobs over the 25-year lifespan of the project. [For more details...](#)

Input sought on Fort St. John Timber Supply Area

Nov 3, 2016—Fort St. John. Comments are being accepted until Jan. 11, 2017, on a discussion paper released today as part of a comprehensive timber supply review for the Fort St. John Timber Supply Area. [For more details...](#)

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IN THE NEWS

(Government press releases—con't)

BC announces two new trade and investment offices in Southeast Asia

Nov 2, 2016—Johor Bahru, Malaysia. The Province of British Columbia, Canada, will open a new Trade and Investment Representative Office in Johor Bahru, Malaysia, in early 2017 to help develop constructive and productive trade and investment opportunities in this important ASEAN (Association of Southeast Asian Nations) economy. [For more details...](#)

BC to benefit from Canada-European Union approval of trade agreement

Oct 30, 2016—Victoria. Teresa Wat, Minister of International Trade and Minister Responsible for Asia Pacific Strategy and Multiculturalism issued this statement today: "British Columbia commends the Government of Canada on reaching this important milestone for the Canada-European Union Comprehensive Economic and Trade Agreement (CETA). We congratulate all parties to the agreement on their efforts to reach a mutually beneficial consensus on Canada's most ambitious trade agreement. [For more details...](#)

Factsheet: Aquaculture and fish health in British Columbia

Oct 28, 2016—Victoria. The B.C. government is committed to the socially and ecologically responsible management of B.C. fisheries, including an environmentally and economically sustainable aquaculture industry for the benefit of all British Columbians. [For more details...](#)

Public invited to comment on Mount Polley long-term water plan

Oct 25, 2016—Williams Lake. British Columbians are invited to comment on Mount Polley Mining Corporation's (MPMC) plans for long-term water management of the site. [For more details...](#)

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 or www.unbc.ca/giving/employee-giving for more information.

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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.

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](#).



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