



## **NRESi Bi-Weekly News**

**June 5 - 30, 2017**

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

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### ***NRESi NOTES***

### ***FROM THE RESEARCH MANAGER***

Hello everyone,  
We have filled all of our colloquium spots for the Fall 2017 NRESi Friday presentation

series and are now working on filling spots in the winter semester. Thanks to everyone who volunteered and/or suggested speakers.

Hope that everyone is having a good summer break so far. This is our first attempt at a new format for the NRESi Newsletter which will be distributed via Mail Chimp. Comments and suggestions on the new format are welcome. Some of the benefits of the switch to the new format is that we can now have a table of contents which readers can use to get to a specific section of the newsletter that they are interested in. We will also be able to track which newsletter items are visited regularly and which ones aren't thus enabling us to tailor our newsletter content to meet reader needs. Readers will also now have the power to subscribe or unsubscribe to the newsletter themselves.

## **UPCOMING EVENTS**

### ***NRESi COLLOQUIUM***

Planning for the fall/winter 2017/18 colloquium series is currently underway. If you have 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**

<b>Presentation Date</b>	<b>Tentative Presenter and/or Topic</b>
Sept 15, 2017	<b>Dr. Dominick DellaSala</b> , Geos Institute - Conservation of Temperate Rainforest Ecosystems (NRESi Annual Lecture speaker).
Sept 22, 2017	<b>Dr. Chen Ning</b> , Canadian Light Source
Sept 29, 2017	<b>Chelsea Armstrong</b> , Simon Fraser University
Oct 6, 2017	<b>Katherine Stewart</b> , University of Saskatchewan
Oct 13, 2017	Speaker TBD—Climate conversations in Prince George, for a CHANGE - Reflecting on Art, Change, & Creativity (ACC) engagement processes and resulting data.
Oct 20, 2017	<b>Dr Nobi Suzuki</b> , UNBC
Oct 27, 2017	<b>Alexander Bevington</b> , BC Ministry of Forests, Lands, and Natural Resource Operations
Nov 3, 2017	<b>Bruce Rogers</b> , BC Ministry of Forests, Lands, and Natural Resource Operations
Nov 10, 2017	NRES Graduate Student Poster Session
Nov 17, 2017	<b>Dr. Matt Mumma</b> , UNBC
Nov 24, 2017	<b>Andy McKinnon</b> - Inspiring Women Among Us/Doug Little Memorial Lecture sponsored talk.

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## **UPCOMING EVENTS - OTHER**

### **CIF/IFC 109 AGM and Conference: Canada's Forests: Our Stories, Our Future.**

September 27-29, 2017

Ottawa, Ontario

As a part of Canada's sesquicentennial celebrations, the theme of this year's Conference and AGM is "Canada's Forests: Our Stories, Our Future" - with individual themes and speakers, field

tours, and socials highlighting the role of the forest sector in Canadian history and our journey to current sustainable forest management regimes.

The conference will be co-located with the Sustainable Forestry Initiative's (SFI) annual conference at the Westin Hotel with various joint sessions and activities planned to celebrate National Forest Week (September 24-30, 2017) and National Tree Day (September 27, 2017).

We hope you will come and celebrate with us in Ottawa this September!

Visit the Conference website for more information and to register: <http://www.cif-ifc.org/agm2017registration/>

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## **TRAVEL AND CONFERENCES**



**Roy Rea** attended the forestry articulation meeting in Nanaimo from June 5-6 and while in Nanaimo spent sometime with Professor Emeritus Staffan Lindgren hiking some coastal trails nearby and enjoying some coastal sun.

**Paul Sanborn** recently spent a couple of days examining soils at an archaeological site near Terrace with Dana Lepofsky and Chelsey Armstrong (SFU). He followed this with three days of field work in the Cypress Hills of southeastern Alberta with visiting German soil scientists Thomas Raab and Florian Hirsch (Brandenburg Technical University).

**Ian Hartley**, **Lisa Wood**, and NRES graduate student **Anastasia Ivanusic** attended the IUFRO Division 5 meeting: "Forest Sector Innovations for a Greener Future", held in Vancouver, BC, during the week of June 12. **Ian Hartley** presented research in the Innovations in Sensing Technologies for the Forest Products Industry (RG 5.02) session. The title of the talk was "Single frequency terahertz sensing for wood science" based on collaborative work with Dr. Reid (UNBC Physics), former graduate student Kim Lawyer, along with Drs. Tetsuya Inagaki and Satoru Tsuchikawa from Nagoya University. **Lisa Wood** and **Anastasia Ivanusic** gave presentations in individual sessions (Learning from the Past: Wood Quality, Species Selection and Properties in Former Times vs. Today (RG 5.01), and the Student & Early Stage Researcher Incubator: Collaborative Special Session) on their work on plantation trees in BC and their anatomical response to changes in climate regimes. The conference was attended by individuals from over 52 countries and showcased global technology and forest innovation for the sustainable use of wood and wood fibre derivatives. We learned a lot!

**Phil Burton**, **Che Elkin**, and NRES graduate student **Colin Chisholm** attended the 11<sup>th</sup> North American Forest Ecology Workshop, June 18-22, in Edmonton last week. **Che** gave a talk entitled "Evaluating how landscape heterogeneity influences the resilience and recovery of sub-boreal forest diversity" and **Colin** gave a talk on "Examining biodiversity in old forest and old growth forest stand structures using aerial laser scanning." **Phil's** presentation was on "Constraints, filters and contingencies in forest recovery after disturbance."

**Alex Lautensach** presented the paper *Learning Sustainable Cultural Safety in a Crowded, Warming World* at the International Conference on Education in Stockholm, Sweden (June 4-8), which was voted best paper. He also visited UNBC's new partner institution, Friedrich-Schiller University in Jena, Germany, where he visited their International Office and discussed collaborative projects with researchers in education (June 9).

In June **Gail Fondahl** gave papers at two conferences in Sweden, the International Congress of Arctic Social Sciences (Umeå)



and the Nordic Geographers Meeting (Stockholm), with her Siberian colleagues Antonina Savvinova and Viktoriya Filippova. The presentations drew on their fieldwork conducted in May 2017 and August 2016, as part of their SSHRC project, "Indigenous Territorial Rights in the Russian Federation: A Quarter Century Onward." In between conferences, Gail traveled around Sápmi (Sami homelands) in northern Sweden, enjoying the local wildlife, museums, hiking and cuisine.



Los Encuentros massacre commemoration event, May 14



Interviewing land defenders for the book project



Catherine with the "Mining in Time of Impunity" Research Team

**Catherine Nolin** was in Guatemala with her research partner Grahame Russell (Rights Action & Adjunct faculty in Geography) for a follow-up research trip for their book project "Mining in a Time of Impunity in the Aftermath of Guatemala's Genocide: The Violence of Contemporary Predatory Mineral Exploitation." Documentary photographer James Rodríguez and journalist Sandra Cuffe collaborated on the fieldwork and community interviews. In addition to interviewing community members, land defenders, lawyers, and human rights activists, the team members also were privileged to attend the 35th anniversary commemoration of the Los Encuentros massacre at the place of the events on May 14, 1982. The team has long-term relationships with the surviving children (now adults) and funded the commemorative event to bring people together before the war crimes cases commence in coming months.

## **PUBLICATIONS**

**Meletis, Zoë A.**, and Blake H. Hawkins. 2017. Open for Business? First Forays into Collaborative Autobiographical Writing in Extractive British Columbia (ch. 8). Moss, Pamela, and Courtney Donovan (eds). *Writing Intimacy into Feminist Geography*. New York and London: Routledge.

Panagopoulou, Aiki, **Zoë A. Meletis**, Dimitris Margaritoulis, and James R. Spotila. 2017. Caught in the Same Net? Small-Scale Fishermen's Perceptions of Fisheries Interactions with Sea Turtles and Other Protected Areas. *Frontiers in Marine Science* 4: 180. doi: 10.3389/fmars.2017.00180 <http://journal.frontiersin.org/article/10.3389/fmars.2017.00180/full>

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## **MEMBER NEWS**

At the recent UNBC convocation in May, **Dr. Pamela Wright** won an Excellence in Teaching Award and **Dr. David Connell** won an Excellence in Research Award. Congratulations to both Pam and Dave.

## **NRES Institute welcomes our newest Associate Member - Dr. Travis Gerwing**

New to the NRESI, Dr. Travis Gerwing is a UNBC alumni (BSc and MSc) originally from the far north of BC, Ft. Nelson. Travis has recently returned to UNBC from New Brunswick, where he obtained a PhD in Marine Biology from the University of New Brunswick. Once again at UNBC (Adjunct Professor), Travis' long-term research goal is to design a holistic ecosystem model of the Skeena Watershed, from headwater to tidewater. Currently Travis' work has a more marine focus, as he studies intertidal habitats along the coast of BC. Along BC's central coast, Travis is working with Dr. Francis Juanes (University of Victoria), Dr. Sarah Dudas (Vancouver Island University), and the Hakai Institute. At Calvert Island, Travis is helping this collaborative research group understand the dynamics of coastal ecosystem, as well as the influence Aboriginal clam gardens (coastal areas modified to enhance bivalve recruitment) have upon soft-bodied invertebrates.





However, the main focus of Travis' work is the north coast of BC. Working with the Haisla Fisheries Commission, Travis is studying intertidal mudflats at the head of Douglas Channel, near Kitimat BC. Here Travis is using intertidal invertebrates as indicator species, elucidating a baseline of community dynamics, as well as identifying disturbed habitats. Travis is also working with Kitsumkalum First Nations near Port Edward and Prince Rupert BC. Here Travis is studying remote Aboriginal clam beaches, as well as intertidal mudflats at the mouth of the Skeena River. Travis is trying to understand the forces (natural and anthropogenic) that structure these intertidal habitats. At the same time, these sites will be studied long-term as part of a monitoring initiative. Given the recently approved Pacific Northwest LNG terminal to be built on Lelu Island, as well as the associated increase in supertanker traffic, Travis hopes that these intertidal habitats (mudflats and clam beaches) will serve as canaries in the coal mine; early indicators of disturbances that allow us to avoid further damage.

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## 2050: Degrees of Change - CBC Vancouver Podcasts



What will British Columbia look like after 30 years of climate change?

Are we ready for change? By the year 2050, B.C.'s average yearly temperature will have risen by 2.5 C. But that doesn't mean everything will just get hotter. "2050: Degrees of Change" is a podcast that explores how British Columbia's climate will change in just 30 years, and what that means for our daily life. Following the success of the podcast [Fault Lines](#), CBC Vancouver Senior Meteorologist [Johanna Wagstaffe](#) returns as host of "2050: Degrees of Change." The six-part podcast series will explore what will change in B.C., how scientists are preparing, and how global climate change conflicts will impact British Columbians.

### Episode 1: BC in 2050

Meteorologists call British Columbia "the land of a billion micro climates." In many ways, it's a microcosm for the world. By 2050, the average temperature in B.C. will have risen by 2.5°C. But that doesn't mean everything will just get hotter. We explore how British Columbia's climate will change in just 30 years, and what that means for our weather patterns.

### Episode 2: Snow and Ice (features Drs. Darwyn Coxson, Stephen Dery, and Brian Menounos)

Without snow, everything changes. In this episode, we reveal the downstream effects of record-low snow packs, melting glaciers and rising sea levels in British Columbia.

### Episode 3: Agriculture

What do rising temperatures, changing rain patterns and shifting seasons mean for farmers? We hear about the challenges, as well as opportunities, facing producers.

### Episode 4: Cities

Vancouver is a global leader when it comes to planning for climate change. The city is says it will run on 100% renewable energy by 2050. In this episode, we discuss how climate change will re-shape our cities, and ask if we're doing enough to mitigate its effects on our environment as well as our society.

### Episode 5: Fire and Forests

"There is no 'no smoke' option." By 2050, forest fires will be more frequent, and more devastating. This has profound impacts on one of our major resource industries, as well as wildlife.

### Episode 6: The Global Village

By mid-century, life in B.C. will be transformed. But around the world hundreds of millions of people will be facing life or death decisions. In this episode, we hear what climate change means for the rest of the world, and how those conflicts may spill over into B.C.

All six episodes are available for download at [www.cbc.ca/podcasts](http://www.cbc.ca/podcasts), on the [CBC Radio App](#), or the podcast app of your choice.

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## **PARTNER NEWS**

### **Northern Analytical Laboratory Service (NALS) Update**

The University of Northern British Columbia is home to an extensive suite of analytical science instrumentation that enables a broad spectrum of chemical, physical, and biological analyses. UNBC has made these services available to researchers as well as private, public, and non-profit sectors to help meet their research, development, and quality assurance needs through the Northern Analytical Laboratory Service (NALS).

One of the services offered is a Water Analysis Package. This is not a commercial service and is specifically designed to help local communities. Physical and biological tests, dissolved anions and elemental analysis are all available.

Need more information?

<http://www.unbc.ca/northern-analytical-lab-service>

To arrange a tour please contact Hossien Kazeman at [hossein.kazemian@unbc.ca](mailto:hossein.kazemian@unbc.ca) or Phone: 250-960-5168

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## **GOVERNMENT PRESS RELEASES**

### **Softwood Lumber: Preliminary anti-dumping duty rate announced**

**Jun 26, 2017. Victoria.** Minister of Forests, Lands and Natural Resource Operations John Rustad has issued the following statement today in response to the U.S. Department of Commerce preliminary determination of anti-dumping duties of 6.87% to be applied to the majority of Canadian softwood lumber shipments entering the U.S. [For more details...](#)

### **New allowable annual cut set for Quesnel Timber Supply Area**

**Jun 16, 2017. Victoria** Effective immediately, the new allowable annual cut for the Quesnel Timber Supply Area is set at 2,607,000 cubic metres, chief forester Diane Nicholls announced today. [For more details...](#)

### **Public comment sought on moose protection plan for Murphy Watershed**

**Jun 5, 2017. 100 Mile House.** In efforts to protect critical moose habitat and to restore moose populations in the Murphy Watershed near Lac La Hache, the Ministry of Forests, Lands and Natural Resource Operations is proposing an access management plan, which includes blocking and deactivating select roads in the watershed. [For more details...](#)

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## **JOB OPPORTUNITIES**

**Professor—Ecology with expertise in biostatistics**  
**University of Quebec en Abitibi-Temiscamingue**  
**Rouyn-Noranda, QC**

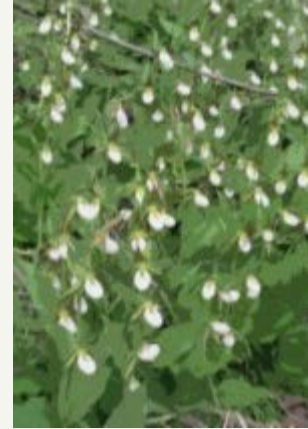
**Application Deadline: August 7, 2017**

The candidate must be able to develop a research program in ecology and conservation of species living in forest landscapes, and must have an interest in doing research in partnership

with companies and government agencies associated with the mining and forestry sectors. This person must be ready to work in a region, in a small university whose mission is, among other things, to contribute to the socio-economic development of the community. The incumbent will be required to give courses on analysis and modeling of ecological data (ECL7102 and ECL8202) under UQAT's Master's degree in Ecology, and will be required to mentor the research work of students completing a Master's degree in Ecology or a Doctoral degree in Environmental Sciences. Both graduate programs are offered at UQAT. For more information and to apply see [http://www.uqat.ca/telechargements/offres\\_emploi/2017--10.pdf](http://www.uqat.ca/telechargements/offres_emploi/2017--10.pdf)

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*Cypripedium montanum* on Ospika Blvd. (Photo by Hugues Massicotte)



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## **STUDENT SCHOLARSHIPS**

### **The Benjamin H. Stevens 2018–2019 Graduate Fellowship in Regional Science**

Graduate students enrolled in Ph.D. programs in North America are encouraged to apply for the Eighteenth Benjamin H. Stevens Graduate Fellowship in Regional Science, administered by the North American Regional Science Council of the Regional Science Association International (NARSC-RSAI). This Fellowship, in support of dissertation research in Regional Science, is awarded annually in memory of Dr. Benjamin H. Stevens, an intellectual leader whose selfless devotion to graduate students as teacher, advisor, mentor, and friend had a profound impact on the field. Regional Science is a multidisciplinary field concerned with the theory and method of urban and regional phenomena. Regional Scientists apply theoretical and empirical frameworks and methods of the social and other sciences, as well as develop new ones specifically for regional analysis and policy.

Eligible students should have completed all degree requirements except for their dissertation by the time the Fellowship commences. A requirement of the Fellowship is that the recipient has no duties other than dissertation research during the Fellowship, although the recipient may hold other fellowships concurrently. Applications from students working in any area or any Ph.D. program are welcome as long as their dissertation research addresses a research question in Regional Science.

The Fellowship consists of a stipend in the amount of \$30,000 (U.S.), paid over a twelve-month period. Applications for the 2018–2019 Fellowship should be sent electronically by the applicant to the Selection Committee Chair, Professor Mario Polèse, [mario.polese@ucs.inrs.ca](mailto:mario.polese@ucs.inrs.ca) by the deadline of February 15, 2018.

For application instructions see: [www.regionalscience.org](http://www.regionalscience.org) - Awards

For information about the North American Regional Science Council (NARSC), go to [www.narsc.org](http://www.narsc.org).

For information about the Regional Science Association International (RSAI), go to [www.regionalscience.org](http://www.regionalscience.org).

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## LITO AROCENA STUDENT AWARDS

In December 2015, 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.

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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.

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Sandhill Crane looking for food near Bear Lake. (Photo by Roy Rea)



10am in the Wabooz (Annie's) Garden.  
(Photo by Troy Lee)

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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](#). We are in the process of migrating the recorded talks to the UNBC video archive. The most recent colloquium and special presentation talks (2016/17) can be found at <https://video.unbc.ca/channel/NRESI/>

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**REMINDER:** Share your information about recent publications, grand, and/or other honours you have received with NRESi newsletter subscribers via our bi-weekly newsletter. Please email all information and material to [al.wienczyk@unbc.ca](mailto:al.wienczyk@unbc.ca)

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