

NRESi Bi-WEEKLY NEWS Sept 26 - Oct 7, 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,

Hard to believe that it's October already and we are well into the fall semester.

This Friday's (Oct 7th) colloquium presentation features Dr. Fiona Johnston from the Leibnitz Institute of Freshwater Ecology and Inland Fisheries. Dr. Johnston will be speaking on 'Fish, people and economics: an integrated approach to recreational fisheries management.' Next Friday (Oct 14th) Ron Long from the Pink Mountain Biodiversity Initiative will be telling us about the 'Unique biodiversity of Pink Mountain'. Both presentations are in room 7-150 and will be livestreamed.

Al Wiensczyk, RPF

Research Manager, NRESi

UPCOMING EVENTS

NRESI COLLOQUIUM

Dr. Fiona Johnston is our presenter for the October 7th Friday colloquium and Ron Long will be presenting on Oct 14th. We have had several changes in the speaker line-up for the fall semester due to some cancellations. 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
Oct 7, 2016	Dr Fiona Johnston, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany. Fish, people and economics: An integrated approach to recreational fisheries management.
Oct 14, 2016	Ron Long, Pink Mountain Biodiversity Initiative. The Unique Biodiversity of Pink Mountain.
Oct 21, 2016	Update from the UNBC Health Research Institute— followed by the NRESi Awards Ceremony
Oct 28, 2016	ТВА
Nov 4, 2016	Vanessa Foord, BC Ministry of Forests, Lands and Natural Resource Operations
Nov 18, 2016	Claire Martin — Inspiring Women Among Us (IWAU) sponsored speaker
Nov 25, 2016	Dr. Susan Wood-Bohm—Executive Director—Biological GHG Management—Alberta Innovates

REMINDER: Share your information about recent publications, grants, and/or other honours you have received with NRESi newsletter subscribers via our bi-weekly newsletter.

PLEASE EMAIL ALL INFORMATION AND MATERIAL TO: al.wiensczyk@unbc.ca

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

NRESI COLLOQUIUM

Dr. Fiona Johnston

Leibnitz-Institute of Freshwater Ecology and Inland Fisheries

Fish, people and economics: An integrated approach to recreational fisheries management



British Columbia's diverse fish resources support a variety of recreational fisheries that are important culturally, socially and economically. In these complex social-ecological systems, managers face the challenge of balancing angler satisfaction and participation with the conservation of fish populations; objectives which often conflict. However, a poor understanding of the interactions among the biological, social and management components of these systems has contributed to the decline and collapse of a number of freshwater fish stocks in Canada. I evaluate the importance of jointly considering the primary drivers and feedbacks between these fishery components for recreational fisheries management, and I challenge the commonly held belief that recreational fisheries are inherently self-regulating. Using a novel, integrated bio-economic framework, I demonstrate that the intrinsic vulnerability of the fish population to overexploitation, the dynamics and diversity of the angler population, and the regulations in place are all important for determining management outcomes. Furthermore, I demonstrate the importance of making management objectives explicit and the potential benefits of shifting away from a yield-based approach to fisheries management (MSY), towards optimum social yield (OSY), an objective that includes biological and socioeconomic benefits associated with fisheries. Ultimately, increasing our understanding of the complex interactions in these social-ecological systems can help us both conserve our fish resources and develop sustainable recreational fisheries.

Friday, Oct 7, 2016

3:30 pm - 4:30 pm Room: 7-150

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

UPCOMING EVENTS

NRESI COLLOQUIUM

Ron Long

Pink Mountain Biodiversity Initiative, Vancouver

The Unique Biodiversity of Pink Mountain

Pink Mountain is located 150 K north of Fort St John. Six years ago Ron Long began to build a case for the creation of an ecological reserve on the summit of the Mountain.



In collaboration with the UBC Botanical Garden a biodiversity survey program was developed that is now complete. The results have exceeded all expectations with strong indications that Pink Mountain is unique in British Columbia.

The study found rare species, unusual occurrences, new records and surprises in every aspect of the flora and fauna. The research potential of Pink Mountain seems limitless but the survival of this tundra ecosystem is in doubt. Industrial activity is expanding in the area and could adversely affect this very special place.

Preservation efforts continue.

Friday, Oct 14, 2016

3:30 pm - 4:30 pm Room: 7-150

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

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Healthy Forests, Healthy Lives: Exploring the Link between our Environment and Health

Wednesday, October 12, 2016, 6:30-9:00 pm

Room 7-212, UNBC, Prince George

There's evidence suggesting that people who live close to green spaces live happier and healthier lives. But what are the specific effects that forests and nature have on our physical and mental health? Are there alternative therapies that involve the environment?

Join us as a panel of experts explore the links between health, happiness and nature and discuss the importance of preserving our forests and green spaces.

<u>Please RSVP here</u> by *October 7th.* Advance registration is required.

Light canapés and refreshments will be provided.

PANELISTS

Dr. Pamela Wright, Associate Professor, Outdoor Recreation and Tourism Management, ESM Program, UNBC

Dr. Sandra Allison. Chief Medical Health Officer, Northern Health

Dr. Matilda van den Bosch, Professor, UBC Forestry / Associate Professor, UBC Population and Health

Dr. Cecil Konijnendijk. Professor, UBC Forestry

Moderator: Dr. John Innes, UBC Forestry

This is a partnership event between the UBC Faculties of Medicine and Forestry, AlumniUBC and UNBC.

UPCOMING EVENTS

PUBLIC PRESENTATION

What is the path from Indigenous Knowledge to Indigenous architecture and design? Thoughts from a past President of the Architectural Institute of British Columbia. — Dr. Patrick Reid Stewart

October 12, 2016—6:00-7:30 pm

Prince George Public Library—Bob Harkins Branch (Keith Gordon Room)

Architecture and design give form to communities and provide a unique way of expressing our cultures, traditions and identities. The Aboriginal Housing Society of Prince George and the UNBC School of Environmental Planning are excited to host a free public presentation from Associate Professor and practicing architect, Dr. Patrick Reid Stewart. Dr. Stewart is a member of the Killerwhale House of Daaxan of the Nisga'a Village of Gingolx. His hereditary Nisga'a name is Luugigyoo [Calm Waters]. Dr. Stewart will explore his vision for a form of indigenous architecture and design that is rooted in indigenous place based knowledge. Please join us as he shares insights from his research on indigenous design, and his experience as British Columbia's first Aboriginal registered architect and first Aboriginal Architect to become president of the Architectural Institute of British Columbia.

More info: www.patrickstewartarchitect.com

UPCOMING EVENTS

Global Friday: Making America Work Again? The Election, the Presidency, and the Prospects of Governance"

Dr. Paul Quirk, Phil Lind Chair in US Politics and Representation, University of British Columbia

October 14, 2016, 12:00-1:30 pm

Room: 5-123 (The Gathering Place)

The US election will not only choose a president. Through the rhetoric of the campaign, the qualities of the winning candidate, and the election outcomes for both the presidency and Congress, it will answer the question: Can American government work again? What do the latest developments in the campaign tell us about the prospects?

Also available via Livestream www.unbc.ca/livestream
Facebook Page: https://www.facebook.com/GlobalFridays

Podcast: http://blogs.unbc.ca/globalfridays/

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Spruce Beetle Summit

October 19-20, 2016

Prince George, BC—Ramada Inn—Skylight room

We invite you to join the conversation on the current spruce beetle outbreak in the Omineca. Anticipated outcomes for participants include an understanding of how this beetle differs from other bark beetles, the influence of climate change, anticipated impacts, and what spruce stands may look like post outbreak.

Diane Nicholls, BC's Chief Forester, will provide introductory remarks for this conference.

Topics

- Community Development
- McLeod Lake Indian Ban Perspectives
- Economic Implications
- Resistance and resilience
- Spruce ecosystem... life after beetle
- Population genetics
- Lessons learned: bark beetle management in BC.

To register please contact Nik McEwan—<u>Nikolaus.McEwan@gov.bc.ca</u> by **October 14, 2016** A detailed agenda will be circulated by October 17th.

UPCOMING EVENTS

Wild Ways: Corridors of Life

October 25, 2016 6:30—9:00 pm

Canfor Theatre, UNBC

The Yellowstone to Yukon Conservation Initiative (Y2Y) invites you to a free screening of the film *Wild Ways: Corridors of Life*. *Wild Ways* is a groundbreaking film about the challenges of preserving biodiversity on an ever more crowded planet.

FILM SCREENING



From North America's Yellowstone to Yukon region to Southern Africa's 'elephant highways' stretching across five countries, explore how connectivity conservation offers hope to some of our planet's most cherished - but endangered - species.

"Wild Ways demonstrates, through a message of hope, how some of the world's most beloved species can be preserved by linking the world's wildlife refuges through safe highway passage and open land," says Tim Burkhart, Y2Y's Peace River Break Coordinator.

Following the film is a discussion on the importance of ensuring connectivity for wildlife in the Wild Hart ranges, to the east of Prince George.

From the Kakawa Wilderness north through Pine Pass to the Williston Reservoir, the Wild Harts are an important corridor connecting central Rocky Mountain parks to the Muskwa-Kechick, providing critical habitat for woodland caribou and grizzly bears.

Ensuring this wildlife corridor remains intact is a priority for Y2Y in Northern BC - join us to be part of the conversation.

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CIRC WORKSHOP

Developing new tools for assessing the cumulative impacts of resource development across northern British Columbia: Integrating environmental, socioeconomic, and human health assessment methods.

Workshop 1: Scoping values, data availability and information gaps

October 26, 2016

Fort Nelson, British Columbia

The CIRC is facilitating this first in a series of three workshops in relation to the project "Developing new tools for assessing the cumulative impacts of resource development across northern BC: Integrating environmental, socioeconomic and human health assessment methods". This project is specifically oriented towards broad and inclusive public engagement to develop the next generation of cumulative impact assessment tools capable of integrating environmental, community, and health values to support land-use decision-making by local and regional governments. The purpose of this workshop is to foster dialogue in the Northern Rockies region on the cumulative environmental, community, and health impacts of resource development. It is also intended to solicit early feedback on the data and knowledge sources (including gaps) that will inform the preliminary basis for the development of the assessment tool.

Please RSVP to Madeline Wilson (Madeline.Wilson@unbc.ca) if you would like to attend this workshop.

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.

Call for presentations, research and management snappers, posters, workshops, and special sessions and side-meetings is **now open** with an online submission form. **Submission deadline has been extended to OCTOBER 21st!!!**

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

Cumulative Impacts Research Consortium (CIRC) news

The CIRC is hiring!

The CIRC is looking for two student Research Assistants; One starting in November (application deadline October 17th, 2016) and the other starting in January (application deadline December 9, 2016). Please contact either Madeline Wilson (Madeline.Wilson@unbc.ca) or Chris Buse (Chris.Buse@unbc.ca) for the job postings for the two positions.

Chris Buse and Madeline Wilson will be presenting at the PICS forum on October 12 regarding CIRC's ongoing SSHRC-funded research on the community impacts of unconventional natural gas development across the supply chain, 'upstream' in gas producing regions, 'midstream' along transportation corridors, and 'downstream' in processing and shipping communities.

The CIRC is participating in a 1/2 day workshop in Fort St John on November 29, 2016 to discuss cumulative impacts and resource development in the Peace Region, and start the conversation on Cumulative Impact Assessment tools.

Pacific Institute for Climate Solutions (PICS) news

Michelle Connolly will be attending the PICS forum on October 12 in Vancouver.

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Quesnel River Research Centre (QRRC) news

The Quesnel River Research Centre (QRRC) held is 10th annual Open House on Saturday 1st October. Faculty, research associates and students from UNBC, UBC and the University of Lethbridge gave presentations on research activities at the



Photo by Phil Owens

QRRC and in the Quesnel watershed, with a focus on the aquatic impacts of the Mount Polley Mine tailings spill in



Photo by Caitlin Langford

2014. The open house was attended by over 60 people, mainly from the local community, as well as representatives from the Ministry of the Environment and from Mount Polley Mine/Imperial Metals. Fol-

lowing this, the research team (including scientists from Fisheries and Oceans Canada) had project meetings and undertook fieldwork on the Sunday to collect diffusive gradient in thin film (DGT) samplers and to service a new meteorological station.

TRAVEL & CONFERENCES

Hugues Massicotte was hosted by the department of Biology of the University of Saskatchewan, and gave an invited lecture on Sept 29, entitled: "From Mycoheterotrophy to Medical Myco-Prospecting: Exploring Diverse Research Venues of Fungal Biology in North-Central British Columbia."

PUBLICATIONS

Stott, T.A., Leggat, M.S., Owens, P.N., Forrester, B.J., Déry S.J. and Menounos, B. (2016). Suspended sediment dynamics in the proglacial zone of the rapidly retreating Castle Creek Glacier, British Columbia, Canada. In: *Source-to-Sink Fluxes in Undisturbed Cold Environments*. A.A. Beylich, J.C. Dixon and Z. Zwolinski (Eds). Cambridge University Press, Cambridge, UK, pp. 313-325.

Northern Analytical Laboratory Service (NALS) Update

Ion Exchange Chromatography (IC) system back in service

UNBC-NALS is happy to announce that the Ion Exchange Chromatography (IC) system is back in service and is offering water testing analytical service to the UNBC researchers and Northern BC communities.

Ion chromatography (IC) is being used for water chemistry analysis to measure major anions, such as fluoride, chloride, nitrate, nitrite, and sulfate, bromide, phosphate, as well as major cations such as lithium, sodium, ammonium, potassium, calcium, and magnesium in the parts-per-billion (ppb) range. Concentrations of organic acids can also be measured by ion chromatography.

Typical Applications of IC

- Analysis of drinking water for pollution and other constituents
- Study water chemistries in aquatic ecosystems
- Measuring sugar and salt content in food samples
- Isolation of select proteins

More information

Please see this YouTube video: https://www.youtube.com/watch?v=xWEkYtV71_A

Book an appointment

For analysis please contacts us at:

Hossein Kazemian: Hossein.kazemian@unbc.ca, (#4-257)

Erwin Rehl: Erwin.Rehl@unbc.ca, (#4-234)

Phone: 250-960-5168

Ion Chromatography
125-5-000 System

DIONEX
Trans Prest Presents

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IN THE NEWS

(Government press releases)

BC Rural Dividend funds over \$8 million in projects

Oct 7, 2016- Victoria. The B.C. government is distributing over \$8.16 million in new grants to help rural communities diversify and strengthen their economies Minister of Forests, Lands and Natural Resource Operations Steve Thomson and Parliamentary Secretary Donna Barnett announced today.

Public input sought on new biosolids and composting rules

Oct 3, 2016—Victoria. British Columbians are invited to review and provide feedback on a policy intentions paper for the organic matter recycling regulation (OMRR), including new requirements for the management and use of biosolids.

For more details...

Prince George's Big Bull Enterprises earns Provincial Woodlot award

Oct 1, 2016– Prince George. The Province is recognizing Big Bull Enterprises for innovation and excellence in woodlot management, Mike Morris, MLA for Prince George-Mackenzie announced on behalf of Minister of Forests, Lands and Natural Resource Operations Steve Thomson yesterday at the Federation of BC Woodlot Associations' annual general meeting in Prince George.

For more details...

B.C. post-secondary student success story: Dr. Susan Burke

Sept 30, 2016—Victoria. UNBC's PhD in Health Sciences was launched in 2012. It is interdisciplinary in nature and directly addresses the needs of health science researchers and professionals in B.C. and beyond.

For more details...

Old growth forests are important for environment and economy

Sept 29, 2016—Victoria. In response to UBCM Resolution C-27, Forests, Lands and Natural Resource Operations Minister Steve Thomson re-affirmed government's commitment to Vancouver Island's old growth forests and stated there was no need to cease logging.

For more details...

Province signs agreement to extend benefits for seasonal firefighters

Sept 28, 2016—Victoria. The Province and the BC Government and Service Employees' Union (BCGEU) have signed a Memorandum of Agreement (MOA) to make it easier for seasonal firefighters with the BC Wildfire Service to access health and welfare benefits, Premier Christy Clark announced today.

For more details...

British Columbia welcomes federal decision on PNW LNG

Sept 27, 2016—Victoria. Premier Christy Clark issued the following statement about Canada's approval of Pacific NorthWest LNG facility proposed for northwest British Columbia:

<u>For more details...</u>

Factsheet: Investment summary: mountain pine beetle mitigation

Sept 26, 2016—Victoria. In 1999, the current mountain pine beetle epidemic began, leading to the largest infestation in North America's recorded history.

For more details...

Factsheet: After the red, the mountain pine beetle in B.C.

Sept 26, 2016—Victoria. In 1999, the current mountain pine beetle epidemic began, leading to the largest infestation in North America's recorded history.

For more details...

Great Bear Rainforest legacy established

Sept 26, 2016—Bella Bella. A new \$1-million trust will be established to commemorate the visit of Their Royal Highnesses, The Duke and Duchess of Cambridge and celebrate the endorsement of the Great Bear Rainforest under The Queen's Commonwealth Canopy initiative, Premier Christy Clark announced today.

For more details...

Public engagement starts for new Stops of Interest signs

Sept 26, 2016—Victoria. The Province has unveiled its plan to rejuvenate and add to the Stop of Interest signs located on highways across British Columbia, Transportation and Infrastructure Minister Todd Stone announced today.

For more details...

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REQUEST FOR PROPOSALS

The Cariboo Cattlemen's Association is looking for an experienced individual or team to execute a project to:

- Collect and share, in useful and relevant formats, existing Cariboo@focused information and research
- Develop a regional agricultural research alliance or organization that will:
 - ♦ Engage a broad range of agriculture producers
 - Provide a regional hub/umbrella for agricultural research to prioritize and track research and assist with securing funding
 - Lead or partner in development of regional resource materials
 - ♦ Communicate and share research or relevant work newsletters, quarterly reports, materials specifically for producer interests

The contractor will work in collaboration with the Project Management Committee to establish project parameters and to develop a detailed work plan for the project.

For more info go to http://www.bcagclimateaction.ca/wp/wp-content/media/

CaribooAgResearchAllianceRFP Sept29.pdf

Proposals must be submitted by October 19, 2016

PhD opportunities available

The Faculty of Social Sciences (FSV) at NORD University in Bode, Norway, is offering two exciting PhD Fellowships within Social— and Environmental Studies.

Are you interested in understanding how the climate affects local- and indigenous communities in the Arctic? Are you concerned with sustainable food production and food security?

Are you interested in learning more about local adaptation to challenges linked to climate, health and societal changes? Do you want to work in an international research network that takes climate challenges seriously? Do you want to live in an exciting and stimulating region with beautiful wilderness?

NORD University is looking for someone who can contribute to our understanding of how local- and indigenous communities in the Arctic can meet these challenges.

There is one four-year PhD-position with 25 % work-duty, and one three-year PhD-position without work-duty. Both positions will be associated with a project linked to a Nordic Centre of Excellence that study the relationship between climate change and the changing risks for food production, health, and local culture and livelihoods.

About the project:

Climate Change effects on the epidemiology of infectious diseases and the impacts on Northern societies (CLINF) 2016-2021: Climate change effects on the epidemiology of infectious diseases and the impacts on Northern Societies (CLINF)

Application deadline: October 16, 2016

For details on this opportunity go to: https://www.jobbnorge.no/en/available-jobs/job/129013/two-exciting-phd-fellowships-within-social-and-environmental-studies

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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LITO AROCENA STUDENT AWARDS

Last December, dear colleague and founding UNBC faculty member, 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.

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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