



NRESi Bi-WEEKLY NEWS

Dec 19, 2016 - Jan 6, 2017

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,

I hope that everyone had an enjoyable and restful holiday season and are back and ready to tackle a new semester. I would like to take this opportunity to thank **Dr. Peter Jackson** for all of his efforts and contributions to the Institute during his stint as the Acting NRESi Director while **Dr. Darwyn Coxson** was off on sabbatical; they were greatly appreciated.

Al Wiensczyk, RPF
Research Manager, NRESi

UPCOMING EVENTS

NRESi COLLOQUIUM

Below is the tentative speaker line-up for the winter colloquium series starting on January 6, 2017. The January 6th colloquium talk is a special event which will be taking place at the Two Rivers Gallery in downtown Prince George. See page 2 for details on this event. The remaining lectures for the winter semester will be held in the Canfor Theatre—Room 6-213.

TENTATIVE WINTER SEMESTER COLLOQUIUM SCHEDULE

Presentation Date	Tentative Presenter and/or Topic
Jan 6, 2017	Art and Science for a Change: A special Art, Change, & Creativity NRESi Colloquium—Two Rivers Gallery
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	Dr. 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

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

UPCOMING EVENTS

NRESi Colloquium/Field Trip

Art & Science for a Change: A Special Art, Change & Creativity NRESi Colloquium

January 6, 2017

Two Rivers Gallery, Prince George.

A shuttle bus will be provided from the UNBC Loop to the Art Gallery. The bus will depart for the gallery at **3:40 pm**.

UNBC-affiliated NRESi members **Dr. Zoë Meletis** (Geography), **Dr. Mark Groulx** (Planning), NRESi Steering Committee Member **Michelle Connolly** (Pacific Institute for Climate Solutions), and 2nd year Environmental Science student, Carleen Paltzat, are collaborating on a project called **Art, Change, & Creativity (ACC): Collaborative searching for climate change knowledge, innovation, and solutions with arts-oriented communities and activities**. This project is a partnership with Two Rivers Gallery, largely via Curator/Executive Director George Harris, and Managing Director Carolyn Holmes. The ACC team has been engaging with the Two Rivers Gallery visitors, local students, and other community members, to offer a suite of art, science, and climate change-related activities, panels, and platforms that encourage local discussions about climate change. Carleen Paltzat, our Student Assistant, led us in co-curating the CHANGE exhibition at the Two Rivers Gallery.

One of the culminating events for this project is a special NRESi colloquium & free/open "double header" of talks (Art & Science for a Change), on Friday, Jan. 6th AT THE TWO RIVERS GALLERY. Local physics teacher and poet **Al Rempel** will read and speak to some of his poetry, and **Dr. Sybil Seitzinger**, Executive Director of the Pacific Institute for Climate Solutions, will address climate change and sustainability. Light refreshments will be provided, and this will also be a last chance to see CHANGE before it comes down on January 8th.

See this UNBC story for further details on **CHANGE**: <http://www.unbc.ca/newsroom/unbc-stories/art-change>. Also note that NRESi member research is featured in the **CHANGE** exhibition labels. **PLEASE JOIN US OFF SITE ON JANUARY 6th, TO RING IN A NEW YEAR WITH OUR NRESi COMMUNITY!**



Two Rivers
Gallery

Friday | Jan 6 | 3:30pm

Two Rivers Gallery
725 Canada Games Way
www.tworiversgallery.ca

Free admission & refreshments

Art & Science for a Change

A Special Art, Change & Creativity NRESi Colloquium

Art and science play important and unique roles in the search for solutions to climate change. This NRESi field trip will take place at the Two Rivers Gallery. Guest lectures and discussion will explore why rediscovering the relationship between art and science may be critical to addressing the challenges of climate change.

A free shuttle between UNBC campus and the gallery will be provided.

Please meet in the Canfor Theatre at UNBC at 3:30 pm with appropriate winter dress, or meet us at the Two Rivers Gallery. Talks begin at 4:00 pm.



Al Rempel
Teacher and Poet

Al Rempel teaches physics and works with at-risk students at the high school level. His books of poetry are *This Isn't the Apocalypse We Hoped For*, *Understories*, and two chapbooks: *Four Neat Holes* and *The Picket Fence Diaries*. His poems have appeared in various literary journals and anthologies. He also enjoys collaborating with local artists in the creation of videopoems.

Dr. Sybil Seitzinger
Executive Director, Pacific Institute for Climate Solutions

Dr. Seitzinger's work has involved facilitating and integrating the work of scientists and researchers across Africa, the Americas, Asia-Pacific and Europe on global environmental change. As a pioneering scientist, her work at Rutgers centred on land-atmosphere-ocean biogeochemistry, with a focus on changes in the global nitrogen cycle and how humans are affecting it.



Two Rivers Gallery gratefully acknowledges its partnership with PICS/UNBC.

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UPCOMING EVENTS

NRESi/Anthropology COLLOQUIUM

Dr. Mike Richards

Department of Archaeology
Simon Fraser University



[The 'paleo-diet' and the archaeological evidence for the evolution of human diets.](#)

There is increasing interest in the link between our diets and modern health problems such as obesity and diabetes. A number of researchers in the emerging field of evolutionary medicine have argued that these health problems are due to a mismatch between the hunter-gatherer diets we are perhaps best adapted to ('Palaeolithic' diets) and our current, post-agricultural diets ('Neolithic' diets). This talk will summarise these arguments, and then present the actual archaeological evidence (especially from bioarchaeological methods such as isotope analysis) for how our diets have evolved over the past four million years.

Friday, Jan 13, 2017

3:30 pm - 4:30 pm

Canfor Theatre Room: 6-213

*Please note that this talk will not be available remotely or recorded at the request of the speaker.

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)
Jan 11, 2017 10:30 am PST	The Canadian wildland fire information system: More than a website.	John Little —Spatial Data Analyst, and Brian Simpson —Forest Analyst and modeler, Northern Forestry Centre.
Jan 12, 2017 10:30 am PST	National wildfire prevention survey—Results and Analysis.	Dr. Hayley Hesseln —University of Saskatchewan
Jan 18, 2017 10:30 am PST	Forest Carbon Dynamics	Juha Metsaranta —Research Scientist, Northern Forestry Centre
Jan 25, 2017 10:30 am PST	GHG Mitigation Potential of Forest Bioenergy Use	Jérôme Laganière —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/
www.cif-ifc.org/e-lectures/

For additional information or to register, contact the Ronnie Huang (CIF-IFC)

E-mail: electures@cif-ifc.org Tel: 705-744-1715 ext. 630

UPCOMING EVENTS

Forestry Club Curling Bonspiel

The annual curling bonspiel is fast approaching and it is time to register your teams.

The tournament will be held on **Saturday, January 14th** from **1:30-4:30** at the Prince George Golf and Curling Club. Sign up with a **team of 4** by emailing unbc.forestry@gmail.com! The cost of curling will be **\$12/person** and can be paid beforehand or at the door. All are welcome: undergraduates, graduate, alumni, faculty, non-forestry personal, and those with or without curling experience! Teams are encouraged to have creative team names and costumes! There will be prizes for first place!

Hope to see you all on the ice!

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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.

UPCOMING EVENTS

Northern Silviculture Committee Conference

2017 Northern Silviculture Committee Winter Conference

Common Ground: Silvicultural tools, and Tactics for Diverse Ecosystems and Management Goals.

February 20-21, 2017

Prince George Civic Centre, Prince George, BC

Registration: Early bird—\$275 (until January 15, 2017) \$300 thereafter.

Registration deadline: Thursday, February 16, 2017

Heading into 2017, silviculturists and forest managers in the Central and northern Interior continue to grapple with a diverse and changing set of ecological and social issues, at both the stand- and landscape scales. Our challenge includes the balancing of increasingly-constrained timber supplies, critical wildlife and riparian habitats, important social and cultural values, and bark-beetle-driven harvesting and road-access pressures. A complex challenge indeed.

Our goals as silviculturists and forest planners are to make the best choices we can for the wise stewardship of our forest landscapes, and for present and future generations.

At the NSC 2017 Winter Workshop in Prince George, BC, we present a wide array of speakers from industry, government agencies, and university researchers, with the goal of providing you with better tools and knowledge for these many challenges. The range of topics will encompass:

- Reforestation practices that consider changing climates and forest health challenges.
- Managing and enhancing our existing second-growth mid-rotation forests.
- Adapting our forest planning and silvicultural practices to enhance moose habitat. And
- Improving our silvicultural management of mixedwoods and deciduous forest types.

For more information and to register visit www.nsc-bc.org/upcoming-events/winter-conference-2017

UPCOMING EVENTS

Association of BC Forest Professionals Conference

69th Annual Association of BC Forest Professionals Conference and AGM

Changing Landscapes, New Opportunities

February 22-24, 2017

Prince George Civic Centre, Prince George, BC.

The 2017 ABCFP forestry conference and AGM will explore how emerging markets, innovative technologies and recent land use decisions are enriching BC's vibrant forest community.

For more information and to register visit the [conference website](#).

Cumulative Impacts Research Consortium (CIRC) news

Chris Buse, Project Lead for the CIRC, spent the month of December in Melbourne presenting the CIRC's research portfolio at the International One Health/EcoHealth Congress, and acting as a visiting postdoctoral fellow with Deakin's Health, Nature and Sustainability Research Group in Melbourne.

The report from the 1/2 day Fort St John Cumulative Impacts Workshop is now available [on-line](#). The workshop focused on exploring the cumulative community, health and environmental impacts of resource development in the Peace River Region.

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Pacific Institute for Climate Solutions (PICS) news

The 2017 Call for PICS internship funding (for public sector organizations) is now open.

PICS Internships provide support for the hiring of university students from one of the four PICS consortium universities. Internships serve to enhance the students' knowledge and expertise in the area of climate change, as well as to integrate that knowledge into solutions. \$10,000 in internship funding per four-month placement is **available to provincial and local governments and BC-based NGOs**.

Find this year's guidelines and application here: <http://pics.uvic.ca/fellowships/internships>

Application deadline: **midnight, January 9, 2017**.

Exploring New Issues:

PICS Graduate Fellowships Call 2017

Faculty members resident at one of the four PICS consortium universities are invited to apply for graduate--- fellowship support for exploration of novel issues that focus on climate---change adaptation or mitigation. Proposals must focus on climate solutions, be relevant to British Columbia, and engage stakeholders/ knowledge users in the design and development of the research.

Please go to the PICS website <http://pics.uvic.ca/research/fellowships> for more details.

Application deadline: **midnight—January 16, 2017**.

Dr. Sybil Seitzinger will be visiting UNBC on **Wednesday, January 18, 2017** to provide an update on the report of PICS' internal review. All those who met with Steve and John, as well as any other interested UNBC personnel inside or outside of the PICS community are welcome. The 2-hour meeting will begin with a presentation by Sybil followed by questions and a discussion. Michelle Connolly will send out a copy of the report to participants before the meeting. Please contact Michelle for a meeting invite if you would like to participate.

Contact Michelle Connolly (michelle.connolly@unbc.ca) if you have any questions or would like a meeting invite.

IN THE NEWS

(Government press releases)

Northern B.C. residents can join B.C. budget telephone town calls

Jan 6, 2017—Victoria. Three Finance Minister Michael de Jong will be hosting a telephone town hall for residents of Northern B.C. on Monday, Jan. 9 at 7 p.m. to get their input on the 2017 provincial budget. [For more details...](#)

Canfor evolves forestry through tech and innovation

Jan 5, 2017—Prince George. Have you ever wondered which British Columbia companies incorporate the most innovation and the latest technology? Would it surprise you to know that tech touches nearly every industry in B.C.?

[For more details...](#)

Factsheet: Partnering with First Nations on LNG development

Jan 3, 2016—Victoria. Liquefied natural gas (LNG) represents an unprecedented opportunity for British Columbia. The Province is working to ensure First Nations communities can be a part of B.C.'s emerging LNG sector. Access to skills training, good jobs, economic growth, and environmental stewardship projects are all part of the opportunity for First Nations. [For more details...](#)

Restart of second mine adds 220 jobs in Peace Region

Dec 29, 2016—Tumbler Ridge. Three months after reopening the Brule Mine, Conuma Coal Resources Ltd. (Conuma Coal) has started hiring ahead of its planned Jan. 2, 2017, restart of the Wolverine Mine near Tumbler Ridge, Energy and Mines Minister Bill Bennett announced today. [For more details...](#)

Prince George receives funding for wood stove exchange program

Dec 27, 2016—Prince George. The Province in partnership with the BC Lung Association, is improving air quality throughout B.C. by providing \$13,600 to the Prince George Air Improvement Roundtable as part of the Provincial Wood Stove Exchange Program. [For more details...](#)

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IN THE NEWS

(Government press releases)

The gift of natural resources in B.C. has year-round benefits

Dec 23, 2016—Victoria. The British Columbia's mineral and coal production is a major pillar of the province's economy and the raw materials mined right here in B.C. — like coal, copper, gold, lead and zinc — are needed to produce many of the consumer products British Columbians rely on in their daily lives. [For more details...](#)

Two McBride properties protected as part of \$1-million conservation commitment

Dec 22, 2016—McBride. Two McBride area properties home to a wide variety of wildlife have been acquired by the Province, thanks to a partnership with the Nature Conservancy of Canada (NCC). [For more details...](#)

Province receives feedback on B.C. species at risk

Dec 22, 2016—Victoria. The Province heard hundreds of comments from British Columbians about ideas and new ways to protect B.C.'s species at risk during a recent six-week consultation that ended Nov. 30, 2016. [For more details...](#)

New regulations enact historic Great Bear Rainforest legislation

Dec 21, 2016—Victoria. The Great Bear Rainforest (Forest Management) Act is set to take effect Jan. 1, 2017, following the enactment of regulations that bring the act into force and fulfill government's commitment to ecosystem-based management in the Great Bear Rainforest. [For more details...](#)

Textbook savings continuing to grow for post-secondary students

Dec 21, 2016—Victoria. Post-secondary students in British Columbia are keeping an eye on their budget not just during the holiday season, but throughout the year. [For more details...](#)

Minister's statement on community support for highway 16 transit

Dec 20, 2016—Victoria. Todd Stone, Minister of Transportation and Infrastructure, released the following statement on community support and Prince George's decision to help fund inter-community transit service along the Highway 16 corridor: [For more details...](#)

Giscome Quarry and Lime Plant project granted Environmental Assessment approval.

Dec 20, 2016. Environment Minister Mary Polak and Energy and Mines Minister Bill Bennett have issued an Environmental Assessment Certificate to Graymont Western Canada Inc. for the Giscome Quarry and Lime Plant project, which is located near Giscome, approximately 27 kilometres east-northeast of Prince George. [For more details...](#)

Environmental Assessment Certificate issued for Giscome Quarry and Lime Plant project.

Dec 20, 2016—Prince George. The ministers of Environment and Energy and Mines have approved the Giscome Quarry and Lime Plant project, located 27 kilometres from Prince George. [For more details...](#)

Northern Analytical Laboratory Service (NALS) Update

A Unique Analytical Facility in Northern BC

The **UNBC-NALS** is home to an extensive suite of analytical science instrumentation that enables a broad spectrum of biological, chemical and physical analyses. NALS has a mission to contribute to the development and application of sound, well-documented science-based knowledge to support faculty research and client based analytical services. NALS is committed to providing analytical services, the pursuit and advancement of scientific knowledge, and the training of students aimed at creating highly qualified professionals capable of contributing to industry in their future careers. One of our main mandates is to make the lab services more responsive to the needs of researchers and corporate clients throughout Northern BC. As a state-of-the-art education and research facility, NALS develops analytical methodologies at UNBC for both on campus and off-campus clients.



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Northern Analytical Laboratory Service (NALS) Update

(con't)

NALS analytical services are available to the private, public and non-profit sectors to help meet their research, development and quality assurance needs.

Some of the NALS Analytical Instrument are:

Inductively Coupled Plasma-Mass Spectrometer (ICP-MS)	High-Performance Liquid Chromatograph (HPLC)
Laser Ablation Inductively Coupled Plasma/Mass Spectrometer (LA-ICP/MS)	Ion-Exchange Chromatograph (IC)
Gas-Chromatograph/Gas-Chromatograph-Mass Spectrometer (GC-FID, GC-MS)	Auto Ion Analysis System (AA3)
Combustion Elemental Analyzers (Automatic C, N, S analyzer)	X-Ray Diffractometer (XRD)
pH/Ion and Conductivity meters, DO meters and COD meters	Scanning Electron Microscope (SEM-EDX)
Laser Particle Size Analyzer	Bomb Calorimeter
Colony Counters	BOD Incubator
High-Pressure Microwave Digesters	Isotopic Ratio Mass Spectrometer (IR/MS)
TOC Analyzer	

Need more information?

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

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

Aleza Lake Research Forest (ALRF) news

This past fall Aleza Lake Research Forest staff (Mike Jull/Samantha Gonzalez (Pederson)/Haydn Yeomans) assisted Bruce Rogers, MoFLRNO regional ecologist with remeasurements of a 16-year-old Northern Wetbelt ICH long-term silvicultural systems trial sites in the Minnow Creek and East Twin Creek areas of the Robson Valley as well as with the remeasurement of the 26-year old Lucille Mtn ESSF subalpine silvicultural systems trial near McBride in the Rocky Mountain Trench. (all photos by Mike Jull)



Haydn Yeomans at Lucille Mtn



Samantha Gonzalez (Pederson) in the ICH



Small opening at the ICH trial site.

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Other News

Canadian Society for Ecology and Evolution

The Canadian Society for Ecology and Evolution (CSEE) is a collective of scientists that conducts research on ecology and evolution. CSEE hosts an annual meeting that provides opportunities for investigators to meet, disseminate their results and participate in a variety of workshops. The society is especially helpful for graduate students, giving out student awards annually and hosting workshops and job forums for young investigators. In addition, your CSEE council represents you at NSERC to promote research on ecology and evolution in Canada.

Join/renew your membership today and be a part of a strong society of scientists in Canada! 2017 **membership renewals** : <http://csee-scee.ca/>

There are a few important deadlines that are coming up very soon (please see under `news` and `announcements` for more information on the awards and council nominations : <http://csee-scee.ca/?cat=29>)

Election nominations for **CSEE council: OPEN**

Nominations for **Early Career Awards: January 13, 2017**

Nominations for the Diversity and Excellence in **Doctoral Research Award: February 1, 2017**

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 WSC Canada [Fellowship page](#).

Scholarship Opportunity

2017 Bullitt Environmental Fellowship

The Bullitt Foundation will start to accept applications for the [Bullitt Environmental Fellowship](#) beginning January 1st. Each year, one graduate student attending a university physically located in British Columbia, Washington State, or Oregon is selected for this prestigious award of \$100,000, distributed over two years.

Eligible candidates will have a strong academic record, a demonstrated capacity for leadership, the promise of emerging as an environmental leader, and be nominated by a university faculty member. Students of color, those who come from a disadvantaged background, or who have overcome significant hardship are highly encouraged to apply for this award.

Application deadline: **April 1, 2017**.

Visit the website for more information, FAQ's, and complete application instructions.

Indigenous Scholar faculty position

The University of Manitoba Faculty of Agricultural and Food Sciences has an entry tenure-track faculty position for an Indigenous Scholar.

Position Start Date: July 2017

Closing Date for Applications: **February 27, 2017**

For details visit: http://umanitoba.ca/cgi-bin/human_resources/jobs/view.pl?posting_id=91345

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Postdoctoral Opportunity

An opportunity for a postdoctoral candidate is available to work with Dr. Michele Piercey-Normore in the School of Science and the Environment at Grenfell Campus, Memorial University of Newfoundland (<http://www.grenfell.mun.ca/Pages/Grenfell-Campus.aspx>).

Dr. Piercey-Normore's research is focused on the symbiotic interactions in lichens and the secondary metabolites (polyketides) produced by the fungal symbiont. The broad array of bioactivity of lichen polyketides includes antibacterial and antifungal properties or industrially relevant properties such as hydrophobicity and metal chelation. Discovery of suites of functional PKS genes has been made possible by recent technological advances in "omics" and the improved ability to manipulate lichen fungi and algae in culture. The successful postdoctoral candidate will work on the interaction in lichen symbionts with a focus on polyketide synthase (PKS) gene induction during early stages of the interaction. A postdoctoral candidate is sought who has experience in any one or more of these areas: culturing fungi and/or algae (especially lichen fungi and algae), molecular biology, gene manipulation, and phylogenetic techniques, and baseline knowledge of bioinformatics. The candidate should be able to work fairly independently and be willing to work alongside other researchers and students.

The position will commence as soon as a suitable candidate is available after **January 30, 2017**.

Please submit a cover letter, a cv, and the names of three referees who may be contacted by January 30, 2017.

For more information or to apply to this position please contact: Dr. Michele Piercey-Normore, School of Science and the Environment, Grenfell Campus, Memorial University of NL, A2H 5G4; email: mpiercey-normore@grenfell.mun.ca; phone: (709) 637-7166.

On-line course offering*

Multivariate Analysis in Community Ecology with PC-ORD

Announcing a live online software training and multivariate analysis short course to be held daily **Monday-Friday 20-24 February** 10:00-15:00 Eastern Standard Time (UTC -5).

These short-courses provide an introduction to the multivariate analysis process for ecological datasets when using the PC-ORD software. Tools will be explained and demonstrated using sample datasets and participants will practice analyses on their own computers.

Tools include: Weighted Averaging, Polar ordination, Canonical Correspondence Analysis, Redundancy Analysis, Fuzzy Set Ordination, Principal Components Analysis, Nonmetric Multidimensional Scaling, Cluster analysis, MRPP, Per-MANOVA, Mantel Test, Fourth Corner Analysis, Indicator Species Analysis.

Skills include: Importing data, Screening data, Restructuring datasets, Exploring datasets, Preparing datasets, Selecting analysis tools, Interpreting output, Customizing graphs.

Courses are taught by Jeri Peck of Penn State University. Participants must have computers with the PC-ORD software already installed. Sample datasets will be provided in advance. More information can be found at <http://silv.cas.psu.edu/pcord.htm> or email peckj@psu.edu with specific questions.

The registration fee is \$425 (\$225 for students) and is only payable online by credit card. The required companion book (\$45 + shipping, www.pcord.com/bookstepbystep.htm) must be ordered separately no later than the registration deadline.

Version note: this webinar will be taught using PC-ORD version 7. However, there should be no problem attending using version 6 if you have not yet upgraded. It is recommended, however, that you nonetheless upgrade to the Second Edition (2016) of the Step-by-Step companion book, as the course has been redesigned to match the newer edition of the book.

Registration Instructions

(continued next page)

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Multivariate Analysis in Community Ecology with PC-ORD (con't)

1. To reserve a place, each registrant must send an email by 1 February to peckj@psu.edu with the following information: name, email address, and any other information that should appear on the invoice (e.g., institutional address), type of data with which you work (i.e., plant community, fish count, water quality, etc.), and if you qualify for the student rate.
 2. Wait for confirmation of registration; you will be sent an invoice for payment with your confirmation.
- * if more than 10 people interested Judi could give the course on-site.

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



Bull moose on Kueng Road. Photo by Roger Wheate

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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](#).

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.wienczyk@unbc.ca