

## **NRESi NOTES**

# FROM THE RESEARCH MANAGER

NRESi Bi-WEEKLY NEWS

Jan 25 - Feb 3, 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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Hello everyone,

The winter semester rolls on. This Friday's colloquium (February 3rd) features Dr. Laurence Smith from UCLA, who will be speaking about supraglacial rivers on the Greenland ice sheet. The following Friday, Dr. Matt Reudink from TRU will be talking about tracking songbird movements across the landscape. The NRESi Annual Lecture is taking place on March 2, 2017 and will feature Dr. Jim Pojar. In addition, we have lined up Dr. Steven Cooke from Carleton University for the Peace Fish and Wildlife Compensation Program sponsored colloquium presentation. That presentation will be taking place on March 22, 2017. Watch for more details on the latter in a future newsletter.

Al Wiensczyk, RPF Research Manager, NRESi

# **UPCOMING EVENTS**

# NRESi COLLOQUIUM

Below is the tentative speaker line-up for the winter colloquium series. The lectures for the winter semester will be held 3:30—4:30 pm in the Canfor Theatre—Room **6-213**.

# TENTATIVE WINTER SEMESTER COLLOQUIUM SCHEDULE

Presentation Date	Tentative Presenter and/or Topic	
Feb 3, 2017	Supraglacial Rivers on the Greenland Ice Sheet. Dr. Laurence Smith, UCLA	
Feb 10, 2017	Tracking songbird movements across the landscape: an open, web-based visualization approach for students, researchers, and the public. Dr. Matt Reudink, Thompson Rivers University.	
Feb 24, 2017	Canadian Snow and Sea Ice: From Observations, to Models, to Predictions. Dr. Paul Kushner, University of Toronto	
Mar 1, 2017 1:00 pm	Recent Pacific Anomalies: Oscillations, El Nino, and The Blob. Dr. Richard Dewey, Science Services, Oceans Network Canada	
Mar 3, 2017	Conservation in the Anthropocene. Dr. Jim Pojar, Ecologist	
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	

**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/Polar Days COLLOQUIUM**

### **Dr. Laurence Smith**

Professor and Department Chair Department of Geography, University of California, Los Angeles



#### Supraglacial Rivers on the Greenland Ice Sheet

Meltwater runoff from the Greenland ice sheet is a key contributor to global sea levels, but as a hydrological process has received little direct study. This project is using field, satellite, and UAV technologies to assess surface water hydrology of the southwestern ablation zone, one of the most melt-susceptible areas of the ice sheet. Ongoing work will use a unique summer 2015 dataset of supraglacial river discharge to test the veracity of climate-model predictions of Greenland's runoff contributions to the global ocean. Key findings include that the ablation surface is efficiently drained; that digital elevation models alone cannot fully describe supraglacial drainage pattern and its connection to subglacial systems; that predicting outflow from climate models alone, without recognition of subglacial processes, may overestimate true meltwater release to the ocean; and that supraglacial rivers are a key, understudied process linking ice-sheet surface-mass-balance to global sea level rise.

3:30 pm - 4:30 pmCanfor Theatre Room: 6-213To participate remotely:<a href="http://www.unbc.ca/nres-institute/colloquium-webcasts">http://www.unbc.ca/nres-institute/colloquium-webcasts</a>

# **UPCOMING EVENTS**

Friday, Feb 3, 2017

### Dr. Matt Reudink

Associate Professor, Department of Biological Sciences, Thompson Rivers University



**NRESi COLLOQUIUM** 

<u>Tracking songbird movements across the landscape: an open, web-based visualization</u> <u>approach for students, researchers, and the public</u>

Tracking the movement of animals across landscapes has proved to be a unique challenge for ecologists, as we are often limited by logistical constraints, such as the number of animals that can be captured, battery life of transmitters, and cost of tracking devices. The advent of radio frequency identification (RFID) technology has provided a relatively simple and inexpensive technique for tracking animal movements. By tagging animals with small passive integrated transponders and setting up an array of RFID readers and antennas, we can passively and autonomously monitor the movements of animals across the landscape. Our research group has been developing this technology to ask a number of questions about how urbanization, habitat fragmentation, and land-use alteration influences movement patterns in small songbirds. In addition, we have established a network of RFID bird feeders with WiFi capability, allowing for automatic data upload to a local server and web-based processing and visualization on a publicly accessible website, animalnexus.ca. By making these data as well as analysis and visualization tools open to the public, our Hope is to be able to make the study of animal movement accessible to students, researchers, and citizen scientist worldwide.

Friday, Feb 10, 2017

3:30 pm - 4:30 pm Canfor Theatre Room: 6-213 To participate remotely: <u>http://www.unbc.ca/nres-institute/colloquium-webcasts</u>

# NRESi COLLOQUIUM

### **Dr. Paul Kushner**

#### **University of Toronto**

#### Canadian Snow and Sea Ice: From Observations, to Models, to Predictions

The daily weather forecasts we count on for planning our work and leisure are just part of a suite of environmental prediction tools that are available to predict climate over the coming weeks, the next season, the next decade, and the next century. What's the best way to develop these predictions, to test them, and ultimate-

ly to measure their utility? I'll try to tackle these questions with a focus on the work of the Canadian Sea Ice and Snow Evolution Network (CanSISE <u>www.CanSISE.ca</u>). CanSISE brings together researchers from across Canada, including right here at UNBC, to improve Canadian capacity to predict sea ice and snow over a wide range of timescales from the seasonal to the centennial.

Snow and sea ice research is no exception to the rule that "variety is the spice of life": if you gather researchers with different perspectives, models reflecting different types of scientific thinking, and observations from different sources, you will end up with better and more useful predictions of snow and sea ice. I will highlight through a couple of case studies recent progress we've made in CanSISE, and reflect on what the future might hold for snow and sea ice in Canada as a result of anthropogenic climate change.

3:30 pm - 4:30 pmCanfor Theatre Room: 6-213To participate remotely:<a href="http://www.unbc.ca/nres-institute/colloquium-webcasts">http://www.unbc.ca/nres-institute/colloquium-webcasts</a>

# **UPCOMING EVENTS**

Friday, Feb 24, 2017

Dr. Jim Pojar

Ecologist Smithers, BC



### The Impossible will take a little while

What have I learned about the environment and natural resource management after 45 years living and working in British Columbia? Some good things: importance of teachers, mentors, learning and working outside and in multidisciplinary teams; value of protected areas, open minds, humour. Some bad things: disrespect for the environment; uncritical thinking; hegemony of neoliberal economics; stain of politics. Perspective on some difficult issues: forestry myth and reality; banality of environmental assessment; science and society; life on the cube farm. Hope persists and with good reason, despite the challenges.

Thurs, Mar 2, 2017

7:30 pm - 9:00 pm Canfor Theatre Room: 6-213 To participate remotely: <u>http://www.unbc.ca/nres-institute/colloquium-webcasts</u>

# **UPCOMING EVENTS**

## **Graduate Student Poster Session**

#### Green Day 2017 Tuesday, February 7<sup>th</sup>, 2017

Green Day is the annual day for us to celebrate our achievements as Canada's Green University. Green Day is also about bringing attention to the unsung heroes of sustainability initiatives on campus as well as gather and generate new ideas for the future. This year we will be celebrating **10 years of Green Day at UNBC!** 

The Northern BC Graduate Students' Society (NBCGSS) is proudly supporting the graduate **student poster session** held in the Doug Little Lounge (in the Winter Garden). Students are strongly encouraged to display their research with the community as both a way to share and learn with others. The cost of printing will be covered by the NBCGSS!

If you like to have your poster displayed, please contact Kate Hewitt at <u>khewitt@unbc.ca</u>



## **Canadian Institute of Forestry E-lectures**

Date/Time	Title	Presenter(s)
Feb 9, 2017 10:30 am PST	First Nations emergency service wildfire mitigation and prevention in First Nations communities	Jeff Eustache—Manager Forest Fuel Management Department, First Nations Emergency Services Socie- ty of British Columbia.
Feb 16, 2017 10:30 am PST	Strategic fuel management planning for community protection	David Martell—University of Toronto

All electronic lectures are free. Your consideration of CIF/IFC membership would be appreciated. To become a CIF/IFC member: <a href="https://www.cif-ifc.org/membership-content/become-a-member/">www.cif-ifc.org/membership-content/become-a-member/</a> www.cif-ifc.org/e-lectures/

For additional information or to register, contact the Ronnie Huang (CIF-IFC) **E-mail:** <u>electures@cif-ifc.org</u> Tel: 705-744-1715 ext. 630

## UPCOMING EVENTS Northern S

### 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: \$300+GST

Student rate—\$50 per day (does not include banquet)

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 <u>www.nsc-bc.org/upcoming-events/winter-conference-2017</u>

# 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 <u>conference website</u>.

## PRESENTATION

### Bringing Genomics Home: Putting Genomics to work: Protecting the earth from climate change

Dr. Sally Aitken, Professor, Department of Forest and Conservation Science, University of British Columbia February 23, 2017

6:30-8:00 pm

Exploration Place, Prince George, BC

Learn how cutting edge genomic tools are being used to detect and combat the threat of climate change in our environment.

Open to the public

Registration is free but required

To register go to: <u>http://www.genomebc.ca/news-events/event/putting-genomics-work-adapting-climate-change/</u>

# Northern Analytical Laboratory Service (NALS) Update

### Update about our new capacity (HPLC-MS)

Thanks to the collaborative approach between UNBC researchers and NALS' team. We came to an agreement with Drs. Chow Lee and Kerry Reimer to upgrade our HPLC to HPLC-MS using part of their CFI grant.

Liquid chromatography–mass spectrometry (LC-MS, or alternatively HPLC-MS) is an analytical chemistry technique that combines the physical separation capabilities of liquid chromatography (or HPLC) with the mass analysis capabilities of mass spectrometry (MS).

LC-MS is a powerful technique that has very high sensitivity, making it useful in many applications. Its application is oriented towards the separation, general detection and potential identification of chemicals of particular masses in the presence of other chemicals (i.e., in complex mixtures), e.g., natural products from natural-products extracts,

and pure substances from mixtures of chemical intermediates. Preparative LC-MS systems can be used for rapid massdirected purification of specific substances from such mixtures that are important in basic research, pharmaceutical, agrochemical, food, and other industries.

#### 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

# Pacific Institute for Climate Solutions (PICS) news

**Michelle Connolly** sincerely thanks all those who participated in the PICS organizational review discussion with Sybil Seitzinger on January 18<sup>th</sup> and provided thoughtful comments on our mission, direction, and audiences. Sybil is taking your comments seriously as she proceeds with strategic planning for the organization.

## **IN THE NEWS**

# (Government press releases)

#### B.C. commits \$27 million to enhance caribou recovery

Feb 1, 2017—Prince George.Demonstrating the province's commitment to species-at-risk, the Province is investing \$27million on a comprehensive, caribou recovery program, Premier Christy Clark announced today at the 14th AnnualPremier's B.C. Natural Resources Forum.For more details...

#### Increased BC Parks funding to provide more rangers, strengthen conservation

Feb 2, 2017—Vancouver. The Province will increase and strengthen conservation in its world-renowned parks with a<br/>new investment of \$35 million over the next three years.For more details...

## **IN THE NEWS**

## (Government press releases)

#### Canada and British Columbia invest in Wood Innovation Research Lab at UNBC

 Feb 1, 2017—Prince George.
 Premier Christy Clark today announced a \$4.5-million joint federal-provincial investment

 that will accelerate innovation in timber engineering and development of wood products at the University of Northern

 British Columbia (UNBC).

#### Prince George signs on for five years of transit funding for Highway 16 Action Plan

Jan 31, 2017—Prince George. The Ministry of Transportation and Infrastructure is congratulating the City of Prince George for committing five years of funding towards the transit component of the B.C. government's Highway 16 Transportation Action Plan. For more details...

#### Historic agreement with First Nations strengthens environmental protection

Jan 31, 2017—Ottawa. Federal and provincial ministers, the Honourable Catherine McKenna, John Rustad, Mary Polak, with Mayor John Helin, of the Lax Kw'alaams Band and Harold Leighton, Chief Councillor of the Metlakatla First Nation, today announced an Agreement on Environmental Monitoring of the proposed Pacific NorthWest LNG Project. This is the first agreement of its kind between the Government of Canada, the Government of British Columbia, the Lax Kw'alaams Band and the Metlakatla First Nation. <u>For more details...</u>

#### Grow North: Prince George gets ready to Grow Local

Jan 30, 2017—Prince George.Residents of Prince George will be growing more local food in 2017 as the Prince GeorgePublic Interest Research Group Society (PG PIRG) begin their "Grow North" project.For more details...For more details...For more details...

#### Chief inspector of mines releases annual report

Jan 26, 2017—Victoria. The Ministry of Energy and Mines has released the Annual Report of the Chief Inspector of Mines for the 2015 calendar year. <u>For more details...</u>

#### Factsheet: Canada-U.S. Softwood Lumber Trade

Jan 24, 2017. Since 1982, lumber trade between Canada and the U.S. has been either the subject of U.S. trade litigation against Canadian exports to the U.S., or been managed through a trade agreement. There have been four U.S. trade cases pertaining to Canadian softwood lumber exports since 1982, and three managed trade agreements.

For more details...

#### Factsheet: Mountain caribou and wolves

Jan 24, 2017. Mountain Caribou are at risk of extinction. 98% of the global population of caribou lives in B.C. The current population is about 1,500, in 15 separate herds throughout B.C. For more details...

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

Jan 24, 2017. In 1999, the current mountain pine beetle epidemic began, leading to the largest infestation in North America's recorded history. For more details...

#### Factsheet: Grizzly bear management

Jan 24, 2017. The Province manages wildlife on a conservation-first principle. Decisions on whether to allow hunting consider: a reliable population estimate; estimates of sustainable human-caused mortality rates; and deliberately conservative mortality limits.

#### Province and Tahltan sign bilateral agreement on Red Chris Mine

Jan 24, 2017—Vancouver. The Province and the Tahltan Central Government today entered into a bilateral agreement that establishes an engagement framework related to the ongoing construction, operation and closure of the Red Chris Mine. For more details...

#### Ministry and partners join forces against spruce beetle.

Jan 20, 2017—Prince George. A new strategy highlights how the B.C. government, forest companies and First Nations are working together to mitigate the effects of a spruce beetle outbreak in the Omineca region. For more details...

## **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 : <u>http://csee-scee.ca/</u>

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 : <u>http://csee-scee.ca/?cat=29</u> )

Election nominations for CSEE council: OPEN

## **CLUB NEWS**

#### **UNBC Forestry Club**



The UNBC Forestry club held their annual curling funspiel on January 14, 2017. A total of 8 teams competed in a series of 2-end games. At the end of the competition two teams were tied with 3-0 records, necessitating a draw to the button to determine the winner. Congratulations to the team of **Al Wiensczyk**, Ryan Burk, **Douglas Beckett**, and David Breault who captured this year's title. Thanks to all the teams, the organizers, and to Smokey Bear

for stopping by.





## **PUBLICATIONS**

Suzuki, N., Parker, K.L. 2016. Potential conflict between future development of natural resources and high-value wildlife habitats in boreal landscapes. Biodiversity and Conservation 25(14):3043-3073. <u>http://link.springer.com/</u> <u>article/10.1007/s10531-016-1219-2</u>

## **UNESCO Vacancy—Chief of Section for Small Islands and Indigenous** Knowledge

Chief of Section—Natural Sciences Closing Date for Applications: **February 6, 2017** Primary Location: Paris, France Open to Internal and External Candidates For more details visit: <u>https://careers.unesco.org/careersection/2/jobdetail.ftl</u>

## **REVIEW PANEL VOLUNTEERS**

Science Mission Directorate is seeking subject matter experts to serve as mail-in and/or panel meeting reviewers of proposals submitted to ROSES-2016 programs in Earth Science and Planetary Science and also our NASA Earth and Space Science (graduate student) Fellowship programs. The landing page that will take you to all of the volunteer reviewer forms may be found at <u>https://science.nasa.gov/researchers/volunteer-review-panels</u> and the links to individual forms appear below.

We are currently seeking reviewers for:

\* ROSES-2016 A.51 Earth Science Applications: Food Security and Agriculture<<u>https://science.nasa.gov/researchers/</u>volunteer-review-panels/roses-2016-a51-earth-science-applications-food-security-and-agriculture>

\* ROSES-2016 C.3 Solar System Workings<<u>https://science.nasa.gov/researchers/volunteer-review-panels/2016-c3-solar-system-workings</u>>

\* ROSES-2016 C.4 Habitable Worlds<<u>https://science.nasa.gov/researchers/volunteer-review-panels/roses-2016-c4-habitable-worlds</u>>

\* 2017 NASA Earth Science Fellowship Proposals<<u>https://science.nasa.gov/researchers/volunteer-review-panels/2017-nasa-earth-science-fellowship-proposals</u>>

\* 2017 NASA Space Science Fellowship Proposals<<u>https://science.nasa.gov/researchers/volunteer-review-panels/2017</u> <u>-nasa-space-science-fellowship-proposals</u>>

## **Employment Opportunity**

#### Research Manager: Environment, Community, Health Observatory (ECHO) Network

A Research Manager (RM) is required for the *ECHO Network* which is a 5-year research program that brings together national and international partners to: (1) create and operate an Environment, Community, Health Observatory (ECHO) that strengthens intersectoral capacity to understand and respond to health impacts of resource development, and (2) use the ECHO platform to help regional programs make critical decisions on cumulative determinants of health that cannot be achieved by the health sector alone.

The RM will support the ECHO Network to turn the research plan into accountable and effective action through a wide variety of operational, research, and administrative support services which include: project and financial management; organizational development; and supervisory tasks. The RM will be a leader who ensures that project activities are consistent with the research plan; detects and reduces risks to the project, including conflict management; facilitates and coordinates projects activities; and leads on communicating project activities and results internally as well as to the funder and other relevant knowledge users.

The RM Position is a full-time position (35 hours a week) for 5 years subject to a 3-month trial period, annual reviews and ongoing funding. The position must be held in Prince George, BC. The project management office will be located at the University of Northern British Columbia (UNBC) under the supervision of project co-lead, Dr. Margot Parkes, in close collaboration with other project leads.

Application Deadline: Thursday, February 16, 2017

For more information, including required qualifications, and application instructions see: <u>https://ecohealthkta.net/health</u> <u>-resource-development/echo/</u>

## **RESEARCH FELLOWSHIP FUNDING OPPORTUNITY**

<u>WCS Canada</u> is pleased to announce that with generous support from <u>The W. Garfield Weston Foundation</u>, 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.

## **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: <u>http://umanitoba.ca/cgi-bin/human\_resources/jobs/view.pl?posting\_id=91345</u>

## **Scholarship Opportunity**

### 2017 Bullitt Environmental Fellowship

The Bullitt Foundation will start to accept applications for the <u>Bullitt Environmental Fellowship</u> 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.

### **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 <u>http://silv.cas.psu.edu/pcord.htm</u> or email <u>peckj@psu.edu</u> 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, <u>www.pcord.com/bookstepbystep.htm</u>) 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** 

1. To reserve a place, each registrant must send an email by 1 February to <u>peckj@psu.edu</u> 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.

## 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 <u>NRESi Youtube channel</u>.