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Researcher Profile - Stephen Déry



Stephen conducting fieldwork last summer at the Castle Creek Glacier in the Cariboo Mountains

As Canada Research Chair in northern hydrometeorology my research seeks a better understanding of northern hydrometeorology, including addressing such topics as the role of climate variability and climate change on the high-latitude and alpine water cycle. My research thus focuses on snow and ice that largely govern the hydrometeorology of northern watersheds.

Specifically, we try to quantify the contributions of snow and ice to the stocks and fluxes of freshwater in a rapidly changing environment. I also seek to better comprehend the environmental and ecological consequences of these changes in the North. To accomplish these important goals, a variety of methods and tools are used, including field observations, reanalysis datasets, remote sensing data, and numerical modelling. My research projects are often multi- and inter-disciplinary in nature and are conducted primarily in partnerships to broaden their scope and impacts.

Report from the 9th ACUNS International Student Conference on Northern Studies and Polar Regions

Held from October 2-5, 2009 at Yukon College, Whitehorse this conference provided an excellent opportunity for UNBC to showcase their northern connections. The conference was attended by a UNBC delegation that included 5 undergraduate students, 4 graduate students and 1 faculty member – the second largest delegation following the University of Alaska-Fairbanks (who only had a 10 hour drive versus our 20 hour one). A total of 6 presentations (5 oral and 1 poster) on themes ranging across the natural, social and health sciences were given, and UNBC was also represented at the ACUNS board meeting. Beyond individual presentation sessions many informative panel discussions and great social networking events were organized, and UNBC gave excellent representation at each.



University of Alberta professor and NSERC Northern Research Chair John England (Left) discussing the poster presentation by UNBC undergraduate students -- L-R: Sydney Van Loon (Geography); Jen Bennet (ORTM); Tasha Peterson (ORTM). Photo by K. Turner.

CANADIAN NORTHERN STUDIES TRUST AWARDS 2010-2011

Application Deadline January 29, 2010

www.acuns.ca

ARCTIC CO-OPERATIVES AWARD 1 X \$2,500

Sponsored by Arctic Co-operatives Limited and the NWT Cooperative Business Development Fund, this award is valued at \$2,500. It will be offered to students enrolled in college or university pursuing studies that contribute to the understanding of the cooperative movement in the Arctic and Sub-Arctic regions of Nunavut and the Northwest Territories.

CANADIAN POLAR COMMISSION SCHOLARSHIP 1x\$10,000

This Scholarship valued at \$10,000 is sponsored by the Canadian Polar Commission. Applications are invited from doctoral candidates who (a) will engage in research culminating in a thesis (b) will have an interdisciplinary emphasis to their research (c) are enrolled in programs that show excellence in research in the Polar north and (d) are willing to communicate results in a major national or Northern forum.

CARIBOU RESEARCH AWARD 1 X \$1,500

Sponsored by The Beverly and Qamanirjuaq Caribou Management Board, this award valued at \$1,500 is offered to students enrolled in college or university pursuing studies that contribute to the understanding of barren ground caribou in Canada and their habitat. Preference will be given to students who normally reside in the communities of the Beverly and Qamanirjuaq range.

CNST SCHOLARSHIP 1 X \$5,000

This Scholarship valued at \$5,000 is sponsored by The Canadian Northern Studies Trust. Applications are invited from doctoral candidates who will (a) engage in research culminating in a thesis (b) include direct northern field research or experience as part of their studies, and (c) whose programs are relevant to northern challenges or issues.

GARFIELD WESTON AWARD FOR NORTHERN RESEARCH (DOCTORAL) 7 X \$40,000

The W. Garfield Weston Foundation is sponsoring seven scholarships, valued at \$40,000 each, for students enrolled in a doctoral program in the natural sciences pursuing northern research. Preference will be given to applicants who (a) have a clearly defined research project that includes significant research time spent in the Canadian north (b) demonstrate excellence in northern research (c) are able to show the relevance of the research to northerners and northern scholarship and (d) exhibit a willingness to communicate research results within the scientific community, and in northern or national meetings.

GARFIELD WESTON AWARD FOR NORTHERN RESEARCH (MASTERS) 7 X \$15,000

The W. Garfield Weston Foundation is sponsoring seven scholarships, valued at \$15,000 each for students currently enrolled in the first thirteen months of a masters program in the natural sciences pursuing northern research. Preference will be given to applicants who (a) have a clearly defined research project that includes significant research time spent in the Canadian north (b) demonstrate excellence in northern research (c) show the relevance of the research to northerners and northern scholarship and (d) exhibit a willingness to communicate research results within the scientific community, and in northern or national meetings.

NORTHERN RESIDENT SCHOLARSHIP 4 X \$10,000

The Northern Scientific Training Program is sponsoring four scholarships, valued at \$10,000 each, for students identified as long-term residents of Nunavut, Northwest Territories, Yukon, or the Provincial North, currently enrolled in master or doctoral-level programs at a Canadian university.

NORTHERN RESIDENT AWARD 8 X \$5,000

The Northern Scientific Training Program is sponsoring eight scholarships, valued at \$5,000 each, for students identified as long-term residents of Nunavut, Northwest Territories, Yukon, or the Provincial North, enrolled in full-time, post-secondary programs at the undergraduate level at a Canadian college or university.

RESEARCH SUPPORT OPPORTUNITY IN ARCTIC ENVIRONMENTAL STUDIES 1 opportunity

The Meteorological Service of Canada (a division of Environment Canada) sponsors a unique research support opportunity by providing accommodation, facilities, and services at the High Arctic Weather Station (HAWS) at Eureka on Ellesmere Island, to graduate students at the masters or doctoral level. Preference will be given to environmental research proposals in the physical or biological sciences.

For more information, applications and guidelines please visit our website www.acuns.ca
Award categories may be changed due to donor requirements

Funding Available for Northern Youth Participation at the UN Climate Summit in Copenhagen – December 7 to 18

You are a young person from Northern Canada that cares about climate change and wants to be part of the upcoming United Nations climate change summit in Copenhagen to help out and learn more.

We are a network of leading Canadian organizations working on climate change and we are hoping to sponsor a young Northern Canadian to come to Copenhagen and join our team for two weeks in December.

If this interests you, please read on. You will need you to apply for this funding by submitting your resume along with a one page letter explaining why you want to attend the UN negotiations. You must submit this no later than November 16, 2009 to Montana Burgess at mburgess@climateactionnetwork.ca

What follows describes the qualifications we are looking for and then provides more information on who we are.

Qualifications:

Preference will be given Northerners of Aboriginal, Metis and Inuit descent and we are seeking to support the development of a young leader between the ages of 18 and 30.

You will need to be available to leave for Copenhagen some time between December 3 and 7, and return some time between December 18 and 20.

The successful candidate will have some combination of the following experience and qualities:

- * Able to effectively communicate in English. French and Northern indigenous language skills are a strong advantage.
- * Highly organized. Demonstrated ability to manage multiple demands effectively, while staying focused on delivery of priority tasks.
- * Strong interpersonal and communication skills
- * Ability to work independently with little supervision as well as contribute to the functioning of a team (keeping in mind that the successful candidate will receive active support from Climate Action Network staff).
- * Current computer and internet skills.
- * Strong commitment to the struggle to stop climate change.
- * Familiarity with climate change policy is an asset, but not essential.
- * Experience working in not-for-profit networks is an asset, but not essential.

This internship is designed in large part to provide experience to a Northerner that will be useful to their professional development in the years ahead. We are seeking a candidate that is articulate, passionate and able to communicate effectively. Experience is an asset, but the successful candidate does not need to have extensive experience on climate change or significant work experience.

About Climate Action Network and the Northern Voices Coalition:

Climate Action Network Canada is a coalition of more than 50 environmental, Aboriginal, youth, health, faith-based, labour and international development organizations working together to promote action on climate change. The member organizations of Climate Action Network Canada will be sending roughly 60 to 100 people to the upcoming United Nations climate change negotiations in Copenhagen, Denmark (December 7 to 18). See: www.climateactionnetwork.ca <<http://www.climateactionnetwork.ca>>

Climate Action Network Canada is also a member of the Northern Voices on Climate Change Coalition, which also includes the Gwich'in Council International, the Arctic Athabaskan Council, the Pembina Institute and Ecology North.

Thanks to the support of the Northern Voices Coalition, the Walter and Duncan Gordon Foundation and the United Church of Canada, **Climate Action Network Canada will cover all costs (travel, accommodation and per diem).**

Opportunities and Responsibilities will include:

- * Attend negotiating sessions and learn more about how the global climate change negotiations work.
- * Meet with representatives from other Arctic countries and find out more about climate change initiatives in those countries.
- * Support the work of Climate Action Network Canada and its members as needed, including helping to organize meetings, drafting and disseminating material, and other similar tasks. You will particularly be asked to support on an as needed basis the work of our Northern members and partners, including the Assembly of First Nations and the Arctic Athabaskan Council.
- * Communicate with and reach out to Northern organizations, governments and media on how the negotiations are progressing and what they can do to help move the world towards a fair, ambitious and binding international agreement on climate change.

How to apply:

If you are interested in being considered for this funding support, send your resume along with a one page letter explaining why you want to attend the UN negotiations. You must submit this **no later than November 20, 2009** to mburgess@climateactionnetwork.ca