

GeoHorizons



Wilfrid Laurier University Department of
Geography and Environmental Studies

Volume 4, Issue 2

Geography & Environmental Studies 50th Anniversary Celebration April 2, 2011



Left to Right: MC—Dr. Jody Decker, Panelists—Dr. Ken Hewitt, Dr. Dan Shrubsole, Dr. Jean Andrey, Mr. Paul Pupolo, Dr. Mark Rosenberg, Dr. Audrey Kobayashi.

The 2010-2011 academic year marks the **50th Anniversary of the Geography and Environmental Studies Department** as a degree

granting discipline at Wilfrid Laurier University. It also marks the 100th Anniversary of Wilfrid Laurier University.

To celebrate the occasion, Department Faculty and Staff invited Geography and Environmental Studies Alumni to a day-long 50th birthday party at Laurier on **Saturday, April 2, 2011.**

There were over 150 current GES Faculty, students and Alumni in attendance.

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Special points of interest:

- 50th Anniversary Celebration
- CAG Service Award and Heritage Award
- South Asian Migration Conference
- PALS Conference

Dr. Bob Sharpe gives a downtown Kitchener Tour for 50th Anniversary Celebration participants.

Assessing the complexities of South Asian Migration Conference, WLU May 2011

In May Wilfrid Laurier University (WLU) hosted an international interdisciplinary conference on South Asian migration. The conference was organised by geographers Margaret Walton-Roberts (International Migration Research Centre, WLU) and Simon Chilvers (York University), and attracted close to 60 presenters, with 14 coming from South Asia. The premise of the conference was that the critical study of South Asian migration requires an interdisciplinary and international collaborative approach. The aim of the event was to take stock of the different topics currently being theorized, and to help identify important new areas of research. Papers addressed a number of themes, including (1) historical and social factors behind migration, and the ways that such factors have been conceived; (2) the plurality of different types of migration (internal, international temporary, permanent), and how these may be (dis)connected practices; (3) the socially / spatially differentiated natures of citizenship politics; (4) The increasing role of overseas migrant populations in



Dinner at Wilfs before the band Lal played on Friday night.

terms of the sending region's economic development and international political relations; (5) issues of gender, sexuality and social reproduction within South Asian diasporas and migrant sending regions.

The conference was opened by WLU President Max Blouw, who spoke of the need for novel and innovative educational approaches to serve the needs of South Asia. Over three days there were more than a dozen different research paper sessions, with a keynote address opening each morning. On the first day Irudaya Rajan, Professor, Research Unit on International Migration at the Centre for Development Studies, Kerala, India, spoke on the topic of "South Asian Migration to Gulf in the Context of the Financial Global Crisis". He examined how migration and remittances have not been particularly negatively affected by the recession, but warned that while international agencies were concerned about the affect of the recession on remittances, insufficient attention currently is being directed to issues of migrant welfare. Inderpal Grewal, Chair, Women's, Gender, and Sexuality Studies, Yale University, United

States, opened the conference on the second morning with her presentation "New Directions in Mobility and Migration Studies". She critically explored the ways in which attachment to various kind of identities and place are remade under conditions of mobility and circulation. Filippo Osella, from the Centre for Migration Research at the University of Sussex, United Kingdom, spoke on the final morning with an address on "Migrants and the (im)morality of everyday life", using research from South India to critically examine how societal discourses pathologize migrant sexuality, misleadingly targeting it as a threat to the stability of the nuclear family.

The conference was accompanied by a number of events held in conjunction with Laurier's neighbouring university, the University of Waterloo. The North American film premiere of "The Roots of Love" by Harjant Gill explored the cultural significance of hair within the (migrating) Sikh community, and was followed by a panel discussion. There was also a public lecture given by Inderpal Grewal on "Outsourcing Patriarchy: Media and Honor Killings in Contemporary

"... while international agencies were concerned about the affect of the recession on remittances, insufficient attention currently is being directed to issues of migrant welfare." Prof. Rajan

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Assessing the complexities of South Asian Migration Conference, WLU May 2011



India”, examining how the trope ‘honor killing’ acts as a powerful form of closure, serving to prevent critical analysis of many other processes of violence underway in present-day India. The conference also incorporated a number of social events, including a free public performance by the band *Lal*, a Toronto-based collective of musicians representing Uganda, Bangladesh, Barbados and India.

network with other scholars. Many delegates subsequently reported that the conference had been thoroughly enjoyable, and that it had provided a most invaluable intellectual opportunity to network and communicate the results of their research.

Margaret Walton-Roberts
Simon Chilvers

Delegates raise questions at the ‘temporal rhythms, space and mode of production’ session.

“... the trope ‘honor killing’ acts as a powerful form of closure, serving to prevent critical analysis of many other processes of violence underway in present-day India.” Inderpal Grewal

Delegates visit Inniskillin Wines at Niagara-on-the-Lake a day after the conference. The field trip was sponsored by the IMRC and the Department of Geography and Environmental Studies.

The conference was supported by The Social Sciences and Humanities Research Council, Wilfrid Laurier University, Laurier’s International Migration Research Centre (IMRC), Shastri Indo-Canadian Institute (through travel funds to Indian scholars), the University of Waterloo’s Faculty of Arts, the Balsillie School of International Affairs, St. Jerome’s University, the Department of Geography and Environmental Studies at WLU, and the Canadian South Asian Club for professionals in the Waterloo Region. All the events were open to the public. Many of the international delegates also enjoyed a field trip to the Niagara region the day after the conference, experiencing Niagara’s vineyards, Fort George, Niagara on the Lake, and Niagara Falls. Encouragingly, a number of graduate students from South Asia, Canada, the UK and USA attended the event to present their work and



Wildfires Destroy Laurier Research Camp in Northern Alberta

May 20/11

Wildfires have destroyed a Laurier research field camp and may have destroyed field sites for a long-running research project in northern Alberta.

"I still do not have confirmation if, and how many, of my sites have been hit," geography Professor **Rich Petrone** said this week. He and

research technician **Scott Brown**

are currently attending a Canadian Geophysical Union conference in Banff, and are closely tracking satellite images and maps to see if their sites survive.

"The camp is

gone," Brown said in a telephone in-

terview. It consisted of several trailers parked adjacent to a house and store two kilometres north of the intersection of highways 88 and 750, just north of Utikuma Lake.

"Although we lost a few trailers and some equipment we had stored at the camp," said Petrone, "I am most upset about the loss of the camp in general and the impact on the lady who owned it. She is a great person and has always taken excellent care of my students, many of whom were very close to her. She has lost everything."

The Laurier researchers have been involved in a long-running project with University of Alberta researchers at the Utikuma site. Their basic research into the movement and quality of water in boreal forests and their surrounding wetlands will provide forestry companies with improved tools to limit hydrologic impacts of forest harvest activities and will guide oil sands companies in their efforts to reclaim mining sites.

Brown said no one yet knows if the fires will hit the Utikuma Region Study Area field site, about 20 kilometres north of the intersection. "We're tracking fire maps. It may hit and it may miss. The images are not promising. And we have an awful lot of equipment there."

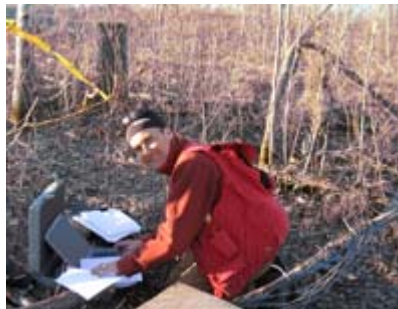
"It will probably be at least a week until we will be allowed into the area to look," said Petrone. "We do know that we fall in the burn area of the recent maps and that the roads we use for access are closed. Our research has been along a 50-kilometre transect that was intersected by the fire path in several areas.

"This has been ongoing work since 2002 and we've received over \$4 million in funding, so there is a lot of infrastructure in place. We could be very lucky and maybe have lost nothing, or we could have lost a couple of wells, or we could have lost some very

expensive meteorological equipment. We have some intensive sites where I have about \$400K in equipment, and when combined with that of my colleagues, we are looking at over a million. But then again, we have no idea.

"Regardless," Petrone added, "it is just equipment. If this had happened a couple of years ago at this time we would have easily had a dozen students working at those sites and living at the camp." Brown learned of the loss of the field camp just moments before delivering a paper at the conference. "It was pretty tough."

Barry Ries, WLU Research Services



Prof. Rich Petrone during 2007 trip to field site.

Thoughts from GES Chair, Mike English

As noted earlier in this edition of GeoHorizons, GES is celebrating its 50th Anniversary during 2011. The April 2nd event was well attended and we would like to thank all of those who made that day a special one. What struck me most during the day was the enthusiasm that our alumni still have for our discipline. This was obvious in comments made during the panel discussions, in private discussions during the day, and in emails following the event. It was also obvious that many alumni were interested in continuing their linkage with our department.

Alfred Hecht (Professor Emeritus, GES Laurier) pointed out that at Philipps-Universität Marburg, Germany, the Geography Department (with which we have had close association over the past several years) formed a Geography club which has several hundred members, many of whom are members of the general public with no formal training in the discipline. Promoting Geography as a discipline in Canada is sometimes a tough sell as the subject is not promoted well in high schools.

Perhaps we should be giving some thought to promoting our discipline in like fashion?

Canadian-Caribbean Community Partnership

Derek Armitage is a co-investigator (with UWaterloo Geography and Environmental Management colleagues Dan Scott, co-PI and Johanna Wandel, co-investigator) on a new project, "Partnership for Canada-Caribbean Community Climate Change Adaptation". The research team, which includes academic and non-academic partners from Atlantic Canada and the Caribbean, is one of five teams receiving \$2.5 million over 5 years as part of the IDRC-led International Research Initiative on Adaptation to Climate Change.

New CAG Teaching Program for Graduate Students & Early Career

The CAG Certificate in Teaching and Learning was officially launched at the Annual Meeting of the Canadian Association of Geographers 2011, in Calgary, Alberta. This is an initiative of the CAG Education Study Group, and is intended to provide a formalized program of professional development activities related to teaching for graduate students and early-career academics. The program was developed by Susan Vajoczki and John MacIachlan (McMaster University), Mary-Louise Byrne and Bob Sharpe (Wilfrid Laurier University), Jean Andrey (University of Waterloo), Virginia Maclaren (University of Toronto) and Dan Shrubsole (University of Western Ontario).

The Program consists of seven modules: four mandatory modules and three elective modules. Some modules can be taken in-person at regional or national meetings of the CAG and others will be organized as on-line activities (coming later in 2011). Each module consists of pre-meeting work (approximately 2-3 hours, typically reading); meeting work (typically a 90 minute workshop) and post-meeting work (typically 4-6 hours involving the creation of relevant document for evaluation by workshop facilitators). Participants will become members of a Community of Learners supported by the CAG Geographic Education Study Group, provided their CAG membership is current. Upon successful completion of the Program, participants' names will be published in the CAG newsletter and each will receive a printed certificate.

Upon completion of the CAG Certificate in Teaching and Learning a participant will have:

- gained pedagogical knowledge;
- developed skills (i.e., critical and creative thinking; teaching competence; leadership; knowledge mobilization and knowledge translation); and,
- increased awareness about the value and recognition of the importance of teaching and learning in geographic education.

The first two modules delivered in Calgary were the core Course Development module, facilitated by Mary-Louise Byrne and an elective module, Teaching First Year Courses. The elective module was delivered by Jean Andrey and Dan Shrubsole.

President's Award for Outstanding Service

Dr. Mary-Louise Bryne receives the President's Award for Outstanding Service to the Canadian Association of Geographers from Anne Godlewska, President of the CAG.



The President's Award for Outstanding Service is made at the discretion of the President to honour an outstanding contribution to the mission of the Canadian Association of Geographers. It recognizes exceptional service to the association, its members, and affiliates by a member of the association. Recipients of the award have gone well beyond their assigned responsibilities and have demonstrated an unusual commitment to the association. The award is intended to acknowledge and publically celebrate these outstanding contributions, all the while acknowledging that the integrity and dedication the recipients have brought to the association is simply beyond measure.

Dr. Jodi Decker receives the Waterloo Regional Heritage Foundation: 2010 Awards of Excellence, standing in front of Heritage site for the Central Presbyterian Church.



Waterloo Regional Heritage Foundation: 2010 Awards of Excellence

The Awards of Excellence are intended to recognize the outstanding contributions by individuals, institutions and organizations to heritage preservation in the Waterloo Region in such areas as archaeology, architecture, archival, cultural, genealogy, historical, individual, literary, media, natural history, or other.

This year, the Heritage Advisory Committee is pleased to present Jody Decker with the Award of Excellence.

Dr. Jody Decker has played a leading role in educating people about the history of Waterloo Region, and in ensuring that heritage landscapes are at the heart of our idea of community. She has been active in Doors Open, Waterloo Region; was an active member of the Region of Waterloo Heritage Planning Advisory Committee (HPAC) from 2004 to 2009; and is a Contributing Associate at the Heritage Resources Centre of the University of Waterloo, and a mentor to researchers there.

Most notably, since 2008 Dr. Decker has been teaching Cultural Heritage Landscapes, a course in the Department of Geography at Wilfrid Laurier University. In the course, students have conducted field work in Kitchener, Waterloo, Cambridge, and Wellesley and Woolwich townships, and assessed locations there as potential Cultural Heritage Landscapes. She invites Regional staff and members of HPAC to speak with students, and in turn shares students' research with HPAC.

In the words of her nominees, "For her students, she provides a living link with residents, volunteers and communities in Waterloo Region"; "her knowledge and experience in the heritage field is outstanding and her enthusiasm for the subject is contagious."

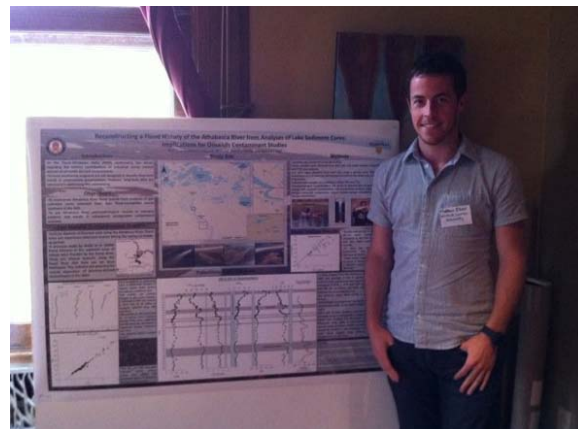
Brent Wolfe's Crew at the May 25, 26 and 27, 2011 Annual PALS Conference

The Ontario-Québec Paleolimnology Symposium (PALS) is a forum for undergraduate and graduate students, postdoctoral fellows and faculty to interact and present multidisciplinary paleolimnological research in a friendly and relaxing atmosphere. The previous PALS conferences, held at Wilfrid Laurier University, Université Laval and Queen's University were all great successes. <http://biology.mcgill.ca/PALS/index.html>

A number of Brent Wolfe's graduate students recently attended the PALS conference in Montreal at McGill University for the fourth iteration.

BEST POSTER AWARD

Masters student Matthew Elmes won Best Poster Presentation. His poster titled 'Reconstructing a Flood History of the Athabasca River from Analyses of Lake Sediment Cores: Implications for Oilsands Contaminant Studies' can be viewed in the Geography and Environmental Studies department outside of 3C7.



This is the Abstract of GES Masters student Nicole M. Farquharson's presentation of her summer research findings.

DEVELOPING CONTEMPORARY KNOWLEDGE OF HYDROECOLOGICAL CONDITIONS IN WAPUSK NATIONAL PARK (WESTERN HUDSON BAY LOWLANDS) FOR INFORMING PALEOLIMNOLOGICAL RECONSTRUCTIONS (P)

¹Nicole M. Farquharson, ²Lauren A. MacDonald*, ¹Brent B. Wolfe, ²Roland I. Hall, and ³Jon N. Sweetman. ¹Department of Geography and Environmental Studies, Wilfrid Laurier University, Waterloo; ²Department of Biology, University of Waterloo, Waterloo; ³Parks Canada, Western & Northern Service Centre, Winnipeg. (emails: farq9110@mylaurier.ca and L7macdon@uwaterloo.ca)

The Hudson Bay Lowlands contain thousands of shallow lakes that provide important wildlife habitat. This region has recently experienced some of the most pronounced warming in the circumpolar north but little is known about how the hydroecology of these lakes have responded and how they may evolve in the future. To address this knowledge gap, we are utilizing water isotope tracers, water chemistry, periphyton and paleolimnological records to investigate present and past hydroecological conditions of lakes in Wapusk National Park (WNP).

In 2010, 40 lakes in WNP were sampled during the spring, summer and fall for analysis of lake water isotope composition and water chemistry. Water isotope results indicate strong temporal and spatial variability in lake water balances. Lakes within the interior peat plateau-palsa bog and coastal fen ecotypes are more susceptible to lake-level drawdown, whereas lakes in the boreal spruce forest are more strongly influenced by snowmelt. Extreme evaporation in mid-summer led to desiccation of some coastal fen lakes in our study set. Spatial differences are observed in the water chemistry (e.g., alkalinity, conductivity, pH, DOC, DIC and chlorophyll *a* values) of lakes in the coastal fen ecotype compared to lakes in both the peat plateau-palsa bog and boreal spruce forest. During mid-summer, elevated levels of many nutrients (e.g., TKN, NH₃, TP and DOC) was observed in certain lakes, which may be due to evaporative concentration. Knowledge of contemporary hydroecological conditions will be used to identify key lakes for paleolimnological reconstructions and to inform interpretation of multi-proxy analyses.

"(The Hudson Bay Lowlands) ha(ve) recently experienced some of the most pronounced warming in the circumpolar north but little is known about how the hydroecology of these lakes have responded and how they may evolve in the future." N. Farquharson

Congratulations to Matthew and Nicole!

Sunrises and Sunsets by Bruce Young

Photos A and B were both taken at 44.3 degrees North Latitude in March, 2011, using a digital camera (Canon PowerShot SX20 IS). The camera settings (apertures and so on) were similar, and subsequent "editing" of both originals was minimal.

The Question is: which of the two photos is a shot of a SUNRISE and which is of a SUNSET?

If you simply toss a (two-sided) coin to decide your answers, the probability that your answers will be correct is 50-50 (or 0.5); and that your answers will be incorrect is also 50-50. (I leave it to those who have had occasion to consider probability theory more recently than I to verify that statement, and to calculate the probabilities of getting the correct answers when coin tossing more than once: twice, three times, etc).

If you have a clear "feeling" about which photo is of a SUNRISE and which is of a SUNSET, or you reach a decision based on any clue/s in the photos or any other factor/s, your decision may be correct. (And not by pure chance).

In any event, my project for the rest of 2011 involves rising early enough each day to check the eastern sky, while sipping coffee, and if it's photo-worthy, remaining alert late enough on that day in the hopes of photographing a splendid sunset, before darkness falls. Something tells me the probabilities of photographing a pair of good photos on the same day are pretty slim (and there may be meteorological or atmospheric reasons why).

The sky-scapes in A and B occurred, in fact, about ten days apart. I recall that one of them took me by surprise, but not which one; but as you see, I located my camera before the natural display was over.

(Warning! As Google searching will tell you, photographing the sun can be hazardous. And that's prompting me to consider an alternative project on "Moonrises and Moonsets", and moonshots generally – but one should calculate, I guess, how much beauty sleep one can afford to lose checking for good nocturnal shots of La Bella Luna.)



A Little Humour... Bruce Young

When I gather with my male clerical and legal relatives in the UK, after we've discussed cricket, the weather and hockey (and I've suggested several reasons why ice hockey players are constantly dashing on and off the ice during the game), we invariably exchange "jokes/stories."

John's latest was of the church congregation that was strongly inclined to temperance, but the Minister was known to have a weakness for cherry brandy. One of his friends in the congregation gave him a bottle of the stuff -on condition that it was publicly acknowledged in the church magazine. The next issue of the magazine included the paragraph: "The Minister acknowledges with grateful thanks a gift of fruit – and the spirit in which it was given".

Stan's story was from his childhood; during WW2, when everything was rationed: clothes, food, gas etc (for which official "coupons" were required). When he or his siblings had a persistent stomach upset, his mother, with no valid coupons to use at the local grocer's remaining, would go to a farmer near the village and persuade him to quietly sell her a few extra eggs. A couple of hard boiled eggs on toast would settle the problem. "It wasn't legal but it was binding!", added Stan, inviting me to tell an "academic joke".

At a conference in Saskatchewan long ago, I heard of the request to the President of the local university from the Secretary of the local Ladies Book Club. "Please send a speaker for the annual general meeting of our Book Club. He/she should be at least a Dean and a wit." The Pres. responded, saying I'm sending two Assistant Deans, they are half-wits".

Both John and Stan politely laughed at my academic contribution, but claimed that I had been repeating that story for at least three decades (sometimes featuring Full Professors and Assistant Professors) so I offered one I heard more recently, in New Jersey.

The Visiting Lecturer to the prestigious local university was a renowned Nobel Prize winner. Widely acclaimed and respected. But he was known to disregard time and continue until he had said all he wanted to say; and nobody in his audiences (faculty or students) dared to leave before he had finished. True to form, when in New Jersey he lectured beyond the allotted 60 minutes....past the 90 minutes mark. And a grad student decided to slip quietly out.

"Where are you going, young man?" boomed the astonished Nobel Laureate.

"Going to get a haircut, Sir."

"Why didn't you get one before my presentation?"

"I didn't need one then, Sir".

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GEOGRAPHY & ENVIRONMENTAL STUDIES DEPARTMENT PRESENTATIONS

Abdullah BaMasoud, **Dr. Mary-Louise Byrne**, Wilfrid Laurier University. Impacts of IceFree Winters on Shoreline Changes in Western Point Pelee. CAG Conference May 2011.

Janis Dale, University of Regina; **Dr. MaryLouise Byrne**, Wilfrid Laurier University. Seasonal Dune-Forming Processes in Point Pelee National Park, Ontario, Canada. CAG Conference May 2011.

S.A. Roberts. Progress on Shape Metrics for Edge Analysis, CAG 2011, Calgary, 3 June 2011.

Robertson, Colin, Sawford, K., Stephen, C. and Nelson, T.A. (2011). Statistical analysis of emerging infections: quantifying patterns in frontline animal health surveillance data. Annual Meeting of the American Association of Geographers. April 12-16, Seattle, WA

Solmes, Amanda. GES Masters student, Advisor: Scott Slocombe: "Using Ecological Citizenship as a Lens to Explore Socio-Ecological Relationships in the Greater Kluane Region, Yukon Territory". Calgary CAG Conference, May 2011.

Wolfe BB. 2011. Contemporary and paleoenvironmental perspectives on northern hydroecology to inform ecosystem management. *ADAPT (Arctic Development and Adaptation to Permafrost in Transition) Proposal Workshop*, Quebec City.

Wolfe BB, BE Brock, Y Yi, KW Turner, EM Dobson, NM Farquharson, TWD Edwards and RI Hall. 2010. Use of water isotope tracers to characterize present and past hydrology of northern boreal freshwater landscapes in Canada. *American Geophysical Union Fall Meeting*, San Francisco.

GEOGRAPHY & ENVIRONMENTAL STUDIES AWARDS

Buteau-Duitschaefer, W, C. GES PhD Student—Ontario Graduate Scholarship and The Stan Rowe Home Place Graduate Award from the Canadian Council on Ecological Areas.

Doherty, Dr. Sean T.: Principal Investigator, Natural Sciences and Engineering Research Council of Canada, Engage Grant, to develop an accelerometer-based human physical activity algorithm for deployment on a smartphone. April-Sept 2011. (\$25,000). Industry partner MyTrak.com.

Robertson, Dr. Colin: SSHRC Insight Development Grant: Geovisualization and uncertainty analysis of volunteered geographic information.

Sutherland, George. GES MSc. Student -Ontario Graduate Scholarship.

Macrae ML, RI Hall and **BB Wolfe**. 2011. Evaluation of nutrient mineralization potential of terrestrial peat soil and aquatic sediments in the Hudson Bay Lowland near Churchill, Manitoba in the face of changing hydroclimatic conditions. Northern Research Fund, Churchill Northern Studies Centre. \$780 (in-kind for fieldwork).

Wolfe BB. 2011. Impacts of recent warming on lake water quality, regional hydrology, carbon dynamics and ecology over space and time in the Hawley Lake area of Ontario's Far North. Collaborative research agreement with A Paterson, Ontario Ministry of the Environment. \$385.

Wolfe BB. 2011. Isotope hydrology of lakes in Wapusk National Park. Northern Scientific Training Program. \$2,150 (for M Elmes, MSc student, Geography WLU).

Wolfe BB. 2011. Isotope hydrology of lakes in Wapusk National Park. Northern Scientific Training Program. \$2,150 (for N Farquharson, MSc student, Geography WLU).

Wolfe BB. 2011. Developing paleohydrological records for a hydroecological monitoring program in the Old Crow Flats, Yukon Territory. Northern Scientific Training Program. \$2,150 (for N Sidhu, MSc student, Geography WLU).

Wolfe BB. 2011. Assessing past and present water balances of lakes throughout the Old Crow Flats, YT. Northern Scientific Training Program. \$2,150 (for K Turner, PhD student, Geography WLU).

Wolfe BB, RI Hall and ML Macrae. 2011. Present and past hydroecology of the Hudson Bay Lowlands (Wapusk National Park, Manitoba). Northern Research Fund, Churchill Northern Studies Centre. \$1,480 (in-kind for fieldwork).

Wolfe BB, RI Hall and JN Sweetman. 2011. Thermokarst landscape hydroecology (Old Crow Flats, YT and Wapusk National Park, MB). Polar Continental Shelf Program. \$39,800 (helicopter support).

Hall RI, **BB Wolfe**, AJ Farwell, TWD Edwards and DG Dixon. 2010-2011. Defining the relative roles of contaminant dispersal mechanisms in the Peace-Athabasca Delta from lake sediment cores. Research contract funded by Suncor Energy. \$178,547.

Wolfe BB. 2010. Supplementary logistical support for outreach and results communication. Government of Canada Program for International Polar Year. \$15,000.

Wolfe BB, EM Dobson, NM Farquharson, K Eichel, RI Hall, ML Macrae, LA Fishback and JN Sweetman. 2011. Isotopic approaches for characterizing present and past hydrology of the western Hudson Bay Lowlands. *Science For a Changing North*, Laurentian University, Sudbury.