



# GeogNews

News Digest of the Canadian Association of Geographers

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**U Victoria’s Rosaline Canessa leading study using advanced 3D mapping to assess the ecological impact of shipping noise:** It’s easy to overlook the vibrant world beneath the ocean’s surface. After all, maps and satellite images of Earth show the land in all its variations, with texture and perspective. But the ocean is usually shown as flat and bare of anything that reflects the active life in its depths. It’s something that has always stood out to Rosaline Canessa, a University of Victoria geographer with a passion for computer mapping. “When the ocean is depicted as flat and lifeless—which it is not—it’s easier for people to think, “Well, we can do whatever we want with it because there’s nothing much there,” says Canessa. “There’s a vast unmapped world under the surface, but if people don’t see or hear it, they tend to think it’s not important.” Canessa is leading a three-year research project that seeks to change those perceptions. The study is using advanced 3D mapping techniques to better understand how underwater noise from passing ships can impact marine ecosystems. Ship-based noise is expected to increase as marine vessel activity expands due to longer ice-free passages in the Arctic, planned port expansions, a new marine terminal in Vancouver and proposed pipeline expansions. Studies show that ship noise can interfere with the ability of marine animals such as whales and fish to communicate, forage and navigate. This has conservation implications for marine species at risk and possibly for subsistence and commercial fisheries. This month, Canessa led a workshop with stakeholder groups—members of the Haida Nation, Fisheries and Oceans Canada, fishing industry representatives and environmental groups—to explore early results of shipping and noise patterns in the Bowie marine protected area. The researchers are using a variety of systems, including Automated Identification Systems (AIS) and air surveillance to track vessels and improve cumulative noise exposure models. [UVic knowEDGE](#)

**Brock U’s Daryl Dagesse instrumental in ANSI designation by the Ontario Ministry of Natural Resources and Forestry:** Research by Dr. Daryl Dagesse, in conjunction with his GEOG3P56 Physical Geography Field Course, has been instrumental in obtaining an ANSI designation for the ancient Lochlin Esker, on the property of Don and Mary Wright in Lochlin, Ontario. The Lochlin Esker is a pristine example of a feature comprised of sand and gravel deposits resulting from melt water flow during the last glaciation approximately 12,000 years ago. Advocates of the natural environment, particularly in the face of sand and gravel extraction operations on both ends of the esker, the Wrights encouraged Dr. Dagesse and his students to study the feature. Over the last decade field course students have gathered data regarding the form, composition and age of the esker, and surrounding wetland. This data led to the MNRF decision to confer the ANSI designation. [Brock News](#)

**U Northern British Columbia's Brian Menounos on Western Canada's disappearing glaciers:**

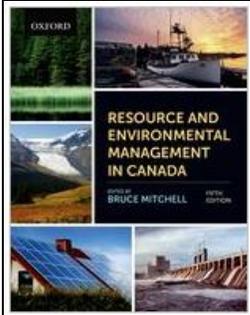
Western Canada glaciers will lose 70 per cent of their volume by the end of the century, predict researchers in a recent paper. That's an average taken from the 17,000 individual ice masses found in Alberta and B.C. While the coast, where it is wetter, is expected to lose about half its volume, the drier Rocky Mountains could see near decimation of its glaciers. "Worse case or business-as-usual equals 90 per cent ice loss in Rocky Mountains but reduction of greenhouse gases (burning of fossil fuels) would equal 70 per cent loss," said Brian Menounos, a UNBC professor who co-authored the paper. That will impact directly aquatic ecosystems, water quality and hydroelectric power generation, said Menounos. "Glaciers provide cool plentiful water to many small mountain creeks and rivers when seasonal snowpack has been depleted. They provide buffering capacity (thermal and quantity of water) for these rivers," said Menounos by email. "When the glaciers are gone they can no longer provide this buffering capacity. Glaciers are important for hydropower in the Columbia Basin and provide up to 20 to 25 per cent of flows during August and September." That becomes important during dry years or when snowpacks are low. It could also increase mining activity as new bedrock becomes exposed as the glaciers retreat. "A loss of glaciers will negatively impact tourism and outdoor recreation," said Menounos, pointing to the popular Columbia Icefield and Glacier National Park. "This is the first time that a study uses glacier flow models to assess future changes to thousands of glaciers in mountain environments," said Menounos of the research, which used a \$2.1 million grant from Canadian Foundation for Climate and Atmospheric Research that has since ceased operations when funding ran out in 2011 under the Conservative government. [Prince George Citizen](#) | [Canada Free Press](#)

**U Western's Jason Gilliland discusses SmartAPPetite study:** Jason Gilliland was recently featured in the *London Free Press* and on CBC Radio's Ontario Morning discussing the results of a newly-published intervention study using his team's SmartAPPetite local food app for iPhones. The study revealed that 80% of participants believed they benefitted in some way from using the app, including improving their food purchasing, eating habits, food knowledge, and/or health. After the intervention, SmartAPPetite users registered a decrease in the consumption of sugary drinks, fast food and pre-packaged meals, and an increase in consumption of fresh fruits and vegetables. The SmartAPPetite team is currently working to expand the project to reach a wider population of users across Canada. [Listen to Dr Gilliland](#) speaking on CBC.

**U Ottawa's Rosalind Ragetlie wins Co-Op Student of the Year Award:** The Department of Geography and Environmental Studies announced that Rosalind Ragetlie won the 2014 COOP Student of the Year award for the University of Ottawa. Nominated by Dr. Eric Crighton with whom she worked as a research assistant for 2 terms, Rosalind was involved in a number of projects including: the spatial analysis of COPD prevalence and health services use data in Ontario; a literature review and the development of strategies related to the integration of environmental health education (EHE) into prenatal care; and, the organization of the Prenatal Environmental Health Education Forum that brought together 100 international environmental health experts at uOttawa in November. As evidence of her professionalism and the high quality of her work, Rosalind earned first authorship on a report to the Ministry of Health and co-authorship on two peer-reviewed articles, the first of which has just been published in the journal *Health Reports*. Rosalind's extra-curricular activities are similarly impressive and demonstrate a strong interest in both international and local-level environmental issues: Rosalind has done volunteer work on projects related to food security and land-use planning in Mexico and Bénin, she is a regular volunteer with Ottawa Riverkeepers, and was Vice-President of Communications for the Geography and Environmental Studies Student Association. Rosalind is a 4th year student in the Joint Honours BA in Environmental Studies and Geography Program (Co-Op Option). Her final work term will begin in May with the National Capital Commission. Rosalind will graduate from her program in the Fall of 2015. [U Ottawa Geography News](#)

## New Book

Bruce Mitchell (Editor). 2015. [Resource and Environmental Management in Canada, Fifth Edition](#), Don Mills, Oxford University Press. xvii and 502 pp.



Bringing together contributions from over two dozen specialists in the field, this text explains how the resource and environmental management process works; the types of strategies used; the various technical and non-technical considerations that influence decisions; and the tradeoffs that must be made to accommodate a broad range of legitimate societal interests.

Bruce Mitchell is professor of geography, cross-appointed in the School of Planning and Associate Provost, Academic and Student Affairs, at the University of Waterloo. Mitchell is a Fellow of the Royal Society of Canada and a Fellow of the International Water Resources Association. In 2008, he received the [Massey Medal](#) from the Royal Canadian Geography Society, which recognizes outstanding career achievement in the exploration, development, or description of the geography of Canada.



**U Waterloo's Jean Andrey** recently travelled to China to lecture at Nanjing University for Nanjing's International Academic Week. Andrey presented on "Climate change adaptation in the Canadian transportation sector", indicating that there is concern commuters could face increasingly treacherous commutes in the future. [U Waterloo Daily Bulletin](#)

**Mount Royal U's Lynn Moorman**, post-secondary representative for Canadian Geographic Education, received the National Council for Geographic Education's [Salvatore J. Natoli Dissertation Award](#). Her dissertation titled "*Reciprocity of geospatial literacy and representation*" won first prize in a competitive selection. This award encourages dissertation research in geography teaching and learning.

**Trent U's Dr. Alan Brunger** will speak at Trent Valley Archives on April 23<sup>rd</sup> to honour the 400th anniversary of French explorer Samuel de Champlain to the Kawarthas. Dr. Brunger, former Trent University geography professor and cartographer, will transport listeners to the 17th century Valley of the Trent through Champlain's eyes, while honouring the native contributions to his expedition. [The Peterborough Examiner](#)

**Brock U's Brodie Hague**, a teaching assistant in the Department of Geography, was recently named the recipient of the 2014-2015 Novice TA Award. The award was established by the Centre for Pedagogical Innovation in 1998 to recognize the superior contributions of university [TAs](#). [Brock News Around Campus](#)

**U British Columbia's Graeme Wynn** elected President of the American Society for Environmental History. He is the first Canadian and first geographer to serve in these roles in the forty-year history of the society. ASEH is the world's oldest and most vigorous organization promoting understanding of human-environment interactions, from the earliest periods of human history to the crucial issues of our own time and across the world's diverse societies and ecosystems. [UBC Geography News](#)

**U Victoria's Dan Smith** was interviewed on CBC Radio's "On The Island" about the disappearing glaciers in Alberta and BC. [CBC Radio](#)

**PCAG 2015** will be co-hosted by the Departments of Geography at Lakehead University and the University of Winnipeg, September 25-27, 2015 at the Lakeside Inn and Conference Centre in Kenora, Ontario. [PCAG 2015](#)

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### Recent Theses and Dissertations

Roxanne Ahmed. 2015. [Spatio-temporal variation in the spring freshet of major circumpolar Arctic river systems](#). MSc thesis. Department of Geography, University of Victoria, Victoria, British Columbia. Supervisor: Terry Prowse.

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### Hot Papers by Canadian Geographers

Garry K.C. Clarke, Alexander H. Jarosch, Faron S. Anslow, Valentina Radić and Brian Menounos. 2015. [Projected deglaciation of western Canada in the twenty-first century](#). Nature Geoscience. DOI:10.1038/ngeo2407

Evan Cleave and Godwin Arku. 2015. Reaching a 'Critical Mass': [Analysis of Interregional Place Branding Amongst Communities in Ontario, Canada](#). In: Inter-Regional Place Branding. Best Practices, Challenges and Solutions. Editors: Sebastian Zenker and Björn P. Sebastian, Jacobsen. Springer. 99-114.

Kevin M. Gorey, Nancy L. Richter, Isaac N. Luginaah, Caroline Hamm, Eric J. Holowaty, Guangyong Zou and Madham K. Balagurusamy. 2015. [Breast cancer among women living in poverty: Better care in Canada than in the United States](#). Social Work Research. DOI:10.1093/swr/svv006

Mohammadreza Jelokhani-Niaraki and Jacek Malczewski. 2015. [Decision complexity and consensus in Web-based spatial decision making: A case study of site selection problem using GIS and multicriteria analysis](#). Cities 45:60–70.

Bruce Mitchell. 2015. [Water risk management, governance, IWRM and implementation](#). In: Risk Governance: The Articulation of Hazard, Politics and Ecology. Edited by U. Fra Paleo. Dordrech:Springer, 317-335.

Bruce Mitchell, Charles Priddle, Dan Shrubsole, Barbara Veale and Dan Walters. 2014. [Integrated water resource management: Lessons from conservation authorities in Ontario, Canada](#). International Journal of Water Resources Development 30:460-474.

Bruce Mitchell, Kathryn Bellette and Stacey Richardson. 2014. [‘Integrated approaches’ to water and natural resources management in South Australia](#). International Journal of Water Resources Development. DOI:10.1080/07900627.2014.979339.

Bruce Mitchell, Kathryn Bellette and Stacey Richardson. 2014. [Natural resources management in South Australia – Regional and collaborative approaches](#). Water Policy. DOI: 10.2166/wp.2014.153.

Lenore Newman, Lisa Jordan Powell and Hannah Wittman. 2015. [Landscapes of food production in agriburbia: Farmland protection and local food movements in British Columbia](#). Journal of Rural Studies 39:99–110.

Genevieve L. Noyce, Nathan Basiliko, Roberta Fulthorpe, Tara E. Sackett and Sean C. Thomas. 2015. [Soil microbial responses over 2 years following biochar addition to a north temperate forest](#). Biology and Fertility of Soils. DOI:10.1007/s00374-015-1010-7

Kate Parizeau. 2015. [Urban political ecologies of informal recyclers' health in Buenos Aires, Argentina](#). Health & Place 33:67-74.

Kate Parizeau 2015. [Re-representing the city: Waste and public space in Buenos Aires, Argentina in the late 2000s](#). Environment and Planning A 47:284-299.

William J. Payne. 2015. [Death-squads contemplating queers as citizens: what Colombian paramilitaries are saying](#). Gender, Place & Culture. DOI:10.1080/0966369X.2015.1013442

A.M. Rémillard, J.-P. Buylaert, A.S. Murray, G. St-Onge, P. Bernatchez and B. Hétu. 2015. [Quartz OSL dating of late Holocene beach ridges from the Magdalen Islands \(Quebec, Canada\)](#). Quaternary Geochronology. DOI: 10.1016/j.quageo.2015.03.013

Jennifer Ronholm, Isabelle Raymond-Bouchard, Marybeth Creskey, Terry Cyr, Edward A. Cloutis and Lyle G. Whyte. 2015. [Characterizing the surface-exposed proteome of \*Planococcus halocryophilus\* during cryophilic growth](#). Extremophiles. DOI: 10.1007/s00792-015-0743-4

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## Other “Geographical” News

**More Alberta students than ever considering U.S. colleges:** Facing challenging high tuition rates, overcrowding, and rigorous academic requirements at Alberta universities, a growing wave of Calgary students are considering heading south of the border for their post-secondary education. According to a 2014 report by the International Institute of Education, 28,304 students from Canada were studying in the US last year, a 5.5 per cent increase from 2012. Of the top 25 countries, Canada now ranks fifth as the country of origin for students coming to the United States. [Calgary Herald](#)

**I'm a mother but I can still do serious research:** A visit back to your workplace with a new baby usually elicits comments of congratulations, and perhaps, for those so inclined, coos of delight at the baby in question. Yet on my own return to the department where I was a PhD student, there were also comments like those above – comments that suggested I had done something unauthorised, taken an unsanctioned period of absence which I would have to “make up for” in my further research. I was not the only mother to have experienced such negativity. On my return, I discovered that this same sense of concern over the seriousness of their academic careers was experienced by mothers across departments. In a few cases, negative comments and feelings moved postgrads to seek new supervisors. [The Guardian](#)

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## Some not so “Geographical” News



The CAG works for geographers on [Twitter](#). Keep up-to-date by following [@CanGeographers](#)

GeogNews Archives: <http://www.geog.uvic.ca/dept/cag/geognews/geognews.html>

@CanGeographers Weekly: <https://paper.li/CanGeographers/1394987315>

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