



WD-CAG 2016

The West in the 21st Century



CONFERENCE PROGRAM

58th Annual Meeting of the Western
Division of the Canadian Association of
Geographers (WD-CAG)

Hosted by UNBC Geography

11-12 March, 2016

WD-CAG 2016 Organizing Committee

Sinead Earley

Alex Koiter

Stephanie Hellyer

Neil Hanlon (Lead Organizer)

Welcome to WDCAG 2016

It is my pleasure to welcome you to the 58th Annual Meeting of the Western Division of the Canadian Association of Geographers. The Geography Program at UNBC is thrilled to see so many students and faculty from across Alberta, British Columbia and points beyond. We trust that the meeting and your visit to UNBC's Prince George Campus will be rewarding and memorable.

The theme of the conference, The West in the 21st Century, is meant to remind us that our region is a product of past human and physical geographic processes, and that the road ahead is full of choices, challenges, opportunities, and uncertainties in the face of climate change, environmental impacts, globalization, and socio-cultural change. The unique and integrative perspectives that geographers bring to bear on matters of human-environment relationships are well positioned to contribute to research and policy solutions to the critical challenges of our age. Events such as this conference are an excellent way to showcase the depth and variety of geographic scholarship.

Finally, it is also my pleasure to welcome you to the University of Northern British Columbia, Canada's Green University. I hope you will enjoy exploring our beautiful Prince George campus, and that you have an opportunity to take in the surrounding University Lands and, of course, the city itself as we emerge from winter's grip. Thanks to our conference chair, Dr. Neil Hanlon, for organizing your contributions into a dynamic set of sessions on Saturday and arranging for our two keynote presentations by Dr. Charles Helm on Friday evening and Dr. Sarah de Leeuw on Saturday evening. And thanks to our field trip organizers, many of you will be guided through the beauty of our campus, city, and region. We also have a great team of volunteers, mainly UNBC students, who are ready and keen to assist you. Just look out for the dark green UNBC Volunteer shirts.

Wishing you all a most productive and enjoyable conference!

Sincerely,



Dr. Catherine Nolin
Chair, UNBC Geography Program



FRIDAY MARCH 11TH

08:00-09:30

Registration

Wintergarden

09:00-11:30

Cranbrook Hill Field Trip

Hosted by Dr. Roger Wheate, Geography

Wintergarden

11:30-13:00

Registration

Wintergarden

12:00-13:30

Film Screening – “Resistencia: The Fight for the Aguan Valley”

Room 7-212

Hosted by Dr. Catherine Nolin, Chair of Geography

This documentary screening is part of the World Travelling Community Film Festival. It is free to WDCAG registrants (please show your tag), although a small (e.g., \$5) donation to Festival organizers would be appreciated.

12:00-17:00

Eskers Provincial Park Field Trip

Hosted by Alex Koiter, Lecturer, Geography

Wintergarden

14:00-16:30

Downtown Prince George Field Trip

Hosted by Laura Ryser, Research Manager, Rural and Small Town Studies

Meet downtown

16:30-17:40

Bioenergy Plant Tour

Hosted by Belinda Larisch, Adjunct Professor, Environmental Engineering

First tour 16:30-17:00

Second tour 17:10-17:40

Wintergarden

16:30-18:00

Cranbrook Hill Hike (no registration required)

Hosted by Dr. Roger Wheate, Geography

Wintergarden

17:30-19:00

Registration

Coffee, tea, light snacks provided

Room 6-205/211

19:00-21:00

Official Welcome

Dr. Catherine Nolin, Chair of Geography, UNBC

Ms. Darlene McIntosh, Lheidli T’enneh First Nation

**Room 6-213
(Canfor Theatre)**

UNBC Greetings:

Dr. Erik Jensen, Dean of the College of Science and Management

Keynote Presentation

Introduction by Dr. Greg Halseth, Canada Research Chair in Rural and Small Town Studies and Professor of Geography, UNBC

Dr. Charles Helm

The Tumbler Ridge Global Geopark: Western Canada's New UNESCO Site

21:00-01:00

Icebreaker

25 large pizzas provided

Cash bar and kitchen is open for business (see menu at www.tourismpg.com/restaurants/thirsty-moose-pub)

Thirsty Moose Pub

SATURDAY MARCH 12TH

07:00-15:30

Registration

Bentley Corridor

08:30-09:55

First Concurrent Sessions

1.1 Environmental Sensing

Room 7-238

Chair: Roger Wheate (University of Northern British Columbia)

Kennedy, Peter (University of Lethbridge), Zhang, Jinkai, Coburn, Craig & Staenz, Karl. *Calibrating automatic updates of variable-accuracy: Large-area land-cover maps.*

Turner, Brandon (Thompson Rivers University) & Hill, David. *The maker's environment: Participatory sensing with hobbyist electronics.*

Harvey, Theo (University of Lethbridge) & Jiskoot, Hester. *Detection and measurement of Arctic coastal fog over Greenland glaciers using MODIS, DEMs and glacier inventories.*

Duros, Jacob (University of Northern British Columbia) & Petticrew, Ellen. *Mapping the movements of aquatic particulates in 3D using a CTD Profiler in Quesnel Lake, BC.*

1.2 Critical Geographies of Rural/Northern Health I

Room 7-212

Organizer and Chair: Blake Hawkins (University of British Columbia)

Nadanasabapathy, Saraswathy (University of British Columbia), Chow, Victoria, Ng, Keng Hon & Hawkins, Blake. *Virtually queer: A need for further investigation of cyberspaces.*

Chow, Victoria (University of British Columbia), Saraswathy, Nadanasabapathy, Ng, Keng Hong & Hawkins, Blake. *Using a heuristic evaluation for LGBTQ health cyberspaces.*

Ward, Valerie (University of Northern British Columbia). *Cultural webs: The role of place in the development of culturally and age relevant online mental health resources.*

MacDonald, Julia (University of Northern British Columbia). *Staging relationships: Using devised theatre to explore First Nations Youths' experiences with their healthcare providers.*

1.3 Housing and Labour Issues in BC's Lower Mainland

Room 7-150

Chair: Greg Halseth (University of Northern British Columbia)

Bracken, Linda (Vancouver Island University). *Aging in place: An interdisciplinary approach.*

Holden, Sarah (Vancouver Island University). *Vancouver Island's 'West Coast' architecture.*

Jones, Fiona (University of British Columbia), Lee, Therise, Altura, Kyla & Peng, Samantha. *Relationship first: Identifying and interdependent social housing approach in Vancouver.*

Blackman, Tyler A (University of the Fraser Valley). *The Canadian Farm Workers Union: Social movements and labour arrangements.*

1.4 Neighbourhood/Community/Living

Room 7-152

Chair: Jamie Spinney (Saint Mary's University)

Agarwal, Niklas (University of British Columbia). *Livable cities? Competitive cities: How urbanism ideals and millennials have made cities more competitive.*

Leverett, Conner (University of Victoria) & Nelson, Trisalyn. *Supporting active transportation planning with better data.*

Spinney, Jamie (Saint Mary's University). *School travel mode decisions: Personal, school, and neighbourhood impacts.*

1.5 Biogeography

Room 7-158

Chair: Craig Coburn (University of Lethbridge)

Mahoney, Craig (University of Lethbridge), Hopkinson, Chris, Hall, Ron & Filiatrault, Michelle. *A framework to map forest attributes across a remote region of Northwestern Canada.*

Mohn, Camille (University of British Columbia) & Brownstein, David. *Protecting the glass sponge reefs of Howe Sound.*

Galbraith, Anna (Trinity Western University) & Jordan, David A. *Reconstructing pre-European settlement Garry Oak (*Quercus garryana*) distribution in the Willamette Valley, Oregon.*

Logie, Gordon (University of Lethbridge) & Coburn, Craig. *The impact of spatial resolution on modelling the Leaf Area Index in riparian forests using optical remote sensing.*

10:00-10:25

Networking & Refreshment Break – 10:00-10:25am

Bentley Corridor

10:30-11:55

Second Concurrent Sessions

2.1 Change Detection

Room 7-238

Chair: Dan Smith (University of Victoria)

McCaffrey, DR (University of Lethbridge) & Hopkinson, C. *A multi-decadal aerial photo and LiDAR record to observe shifts in alpine treeline ecotone.*

Pelto, Ben M (University of Northern British Columbia) & Menounos, Brian. *An evaluation of different mass balance methodologies for glaciers in the Columbia Basin, Canada.*

Thelin, Larissa (Vancouver Island University) & Lewis, Jeff. *The potential effects of climate change on the habitat range of the Vancouver Island marmot.*

Smith, Dan (University of Victoria), Coulthard, Bethany, Mood, Bryan J & Starheim, Colette. *Reconstructing long-term snow histories from tree-rings in the British Columbia Coast Mountains.*

2.2 Critical Geographies of Rural/Northern Health II

Room 7-212

Organizer and Chair: Blake Hawkins (University of British Columbia)

Emon, Carolyn (University of Northern British Columbia) & Hanlon, Neil. *Caring for the invisible: Barriers and constraints to providing services for victims of human trafficking.*

Mehta, Michael (Thompson Rivers University). *Wood smoke emissions and public health: Rural communities, risk, denial, and solutions.*

Auerbach, Katriona Siloen (University of Northern British Columbia). *Hunting, healing and the human-land relationship: An exploration of health through Indigenous informed hunting practices, land relationships and ways of knowing.*

Hawkins, Blake (University of British Columbia). *Where were the gays? Producing knowledge in a legacy of northern masculinity.*

2.3 Reinventing our courses: New innovations for teaching and learning in geography I Room 7-150

Organizers: Claire Hay (Department of Geography and the Environment, University of the Fraser Valley) and Teresa Dawson (Department of Geography, University of Victoria)

Chair: Claire Hay (University of the Fraser Valley)

Josephson, Ken (University of Victoria). *Deep mapping for deep learning.*

Parks, Wendy (University of Victoria), Kathrens, Lindsay, Sociedade, Megan & Simmonds, Jaimy. *Creative micro-geographies in the academy: Co-learning through grassroots pedagogy.*

Naqvi, Kim (Thompson Rivers University). *Finding geography: Defining and presenting Geography on department websites in Canada.*

2.4 Energy Futures

Room 7-152

Chair: Leith Deacon (University of Alberta)

Brendle-Moczuk, Daniel (University of Victoria). *BC's electrical energy needs and Site C dam in the past and present: Why give a dam(n)?*

Jahan, Nushrat (University of Alberta) & Deacon, Leith. *Analytical framework for regional economic resilience: A case study of Devon, AB.*

Mutual, Alycia (University of Northern British Columbia), Wilson, Gary & Romanets, Maryna. *Beaufort Sea resource development through the lens of media.*

Pike, Stephanie (Vancouver Island University). *Sustainable energy in northern communities.*

2.5 Environmental and Social Issues in Asia

Room 7-158

Sponsored by the CAG Geographies of Asia Study Group

Organizer and Chair: David W. Edgington (University of British Columbia)

Hanlon, Rob (Thompson Rivers University). *Sustainability with Chinese characteristics: The Asian Infrastructure Investment Bank, political elites and development in Southeast Asia.*

Waldichuk, Tom (Thompson Rivers University), Tabayashi, Akira, Yagasaki, Noritaka, Kikuchi, Toshio, Nihei, Takaaki & Kaneko, Jun. *Agritourism in Japan and British Columbia.*

Edgington, David W (University of British Columbia). *Nuclear power plant accidents and government responses: A comparison of Fukushima and Chernobyl.*

Brady, Nurmaiya (University of Alberta). *Self-help groups as an alternative mode of public service delivery in rural India.*

12:00-12:25

Poster Viewing Session

Bentley Corridor

12:00-13:25

WD-CAG Executive Meeting – 12:00-1:25pm

Room 5-121

12:30-13:25

Lunch

Bentley Corridor

13:30-14:55

Third Concurrent Sessions

3.1 Water Quality

Room 7-238

Chair: Philip Owens (University of Northern British Columbia)

Reiffarth, Dominic (University of Northern British Columbia), Petticrew, Ellen, Owens, Philip & Lobb, David. *Soil and sediment tracing using compound-specific stable isotopes in Manitoba, Canada.*

Rasmus, Kristy (University of Northern British Columbia), Petticrew, Ellen & Rex, John. *The hydrological regime and the seasonal retention of marine derived nutrients in the Horsefly River.*

Sussbauer, Richelle (University of Northern British Columbia) & Owens, Philip. *Sediment-associated contaminant dynamics in the Quesnel River from the Mount Polley Mine disaster.*

Kieta, Kristen (University of Northern British Columbia) & Owens, Philip. *Effects of freeze-thaw cycles on phosphorous release from grass buffer strips after multiple cuttings.*

3.2 The Great Outdoors

Room 7-212

Chair: Philip Mullins (University of Northern British Columbia)

Casali, Amy (Trinity Western University). *Field-based environmental education: Why you should say yes when you don't know what you're getting yourself into.*

Robinson, Haley Elizabeth (Vancouver Island University). *Sense of place within the Mount Arrowsmith Biosphere Region: An evaluation of outdoor interpretive signage.*

Turner, Rhys (Vancouver Island University) & Shaw, Pam. *Recreating bioregionalism: Building community interest through the human-nature connection.*

Huneault, Genevieve (University of Northern British Columbia) & Mullins, Philip. *Developing a relational model of recreation specialization among fly anglers in Prince George, BC.*

3.3 Reinventing our courses: New innovations for teaching and learning in geography II Room 7-150

Organizers: Claire Hay (Department of Geography and the Environment, University of the Fraser Valley) and Teresa Dawson (Department of Geography, University of Victoria)

Chair: Claire Hay (University of the Fraser Valley)

Dawson, Teresa (University of Victoria). *Setting out a long journey together: Reflections on first steps in decolonizing introductory human geography.*

Deacon, Leith (University of Alberta) & Garvin, Theresa. *Redesigning an introductory human geography: Lessons in blended learning.*

Hay, Claire (University of the Fraser Valley). *The importance of facilitation in problem-based learning.*

3.4 Broadening the Horizons of Health & Development

Room 7-152

Chair: Catherine Nolin (University of Northern British Columbia)

Peetom, Kai (University of Northern British Columbia). *The Alaskan Highway Gas Pipeline easement: A Kluane First Nation case study.*

Buse, Chris (University of Northern British Columbia), Connolly, Michelle, Fredeen, Art, Halseth, Greg, Harder, Henry, Parkes, Margot, Weincyzk & Wells, Rachael. *Addressing an 'integration imperative': Merging environmental, community and health perspectives to develop an understanding of the cumulative impacts of resource development for northern BC.*

Morgan, Jeffrey (Simon Fraser University). *Portrayals of offshore medical schools in the Canadian print media: A health equity lens.*

Walker, Kirk (University of Northern British Columbia) & Nolin, Catherine. *Narratives in the Andes: Challenging traumatic memory with photovoice.*

3.5 What to do with a Geography Degree: Jobs and Other Possibilities

Room 7-158

Organizer: Tom Waldichuk (Thompson Rivers University)

Panelists:

Hawkins, Blake, Masters Student in Library and Information Sciences, University of British Columbia

Horning, Darwin, MCIP, RPP, PhD Student (UBC-O) & Lecturer in Environmental Planning, University of Northern British Columbia

Brendle-Moczuk, Daniel, Map Librarian, University of Victoria

Johnson, Kristen, Senior District Development Technician, Ministry of Transportation & Infrastructure, Prince George, BC.

Courtney, Adam, Ministry of Transportation & Infrastructure, Prince George, BC.
15:00-15:25

Networking & Refreshment Break – 3:00-3:25pm

Bentley Corridor

15:30-16:55

Poster Session – 3:30-4:55pm

Bentley Corridor

#	Title	Authors	Institution
1	T̓silhqot̓'in National Government Traditional Use Study	Doddridge, S et al.	T̓silhqot̓'in National Government
2	Siting Palliative Care in Rural Canadian Communities: A mixed-method model that incorporates diverse community readiness indicators	Crooks,VA et al.	Simon Fraser University, Queen's University, Trent University and McMaster University
3	Withdrawn		
4	Aging in the Edmonton Journal over Two Time Periods	Tompkins, K. and Garvin, T.	University of Alberta
5	Defining Geography: A Student Perspective	Baker, B et al.	Thompson Rivers University
6	Interdisciplinary Action Project on Sustainability	Bracken, E	Vancouver Island University
7	North American Union: Moving beyond NAFTA	Raines, P	Western Washington University
8	Suburban Shift: The role of the National Housing Act in Canadian post-war suburbanization	Bélec, J and Parr, C	University of the Fraser Valley
9	fOILed: Lessons from the Northern Gateway Pipeline	Binnema, K and Letain, K	The King's University

10	Investigation of Resource Management and Sustainability in Canada	Francil, J	Western Washington University
11	Why community map? Because when communities map together, they grow together	Aitcheson, M et al.	University of Victoria
12	The Solar Compass: A Multi-Functional Approach to Sustainable Solar Energy by Implementing Solar Roadways	Irvine, C et al.	Thompson Rivers University
13	Faith-Based Environmental Work in Canada: A Profile	Moyer, J	The King's University
14	Creating the Glacier Image Alphabet: Development of a new climate change learning tool using Google Earth	Howey, L and Jiskoot, H	University of Lethbridge
15	The Tale of Two Cities: A Comparison of Urban Development Between Seattle and Vancouver	Walker, C	Western Washington University
16	Cougar Creek.. Oh Dam!	Wagenaar, J and Adams, S	The King's University
17	Cross-border Harbor Seal (<i>Phoca vitulina</i>) management and rehabilitation practices	O'Keefe, M	Western Washington University
18	Hare Today...Gone Tomorrow: A Method for Mapping White-Tailed Jackrabbit Distribution in Edmonton, AB	Zanussi, A et al.	The King's University
19	Climate Change, Sea Level Rise and Livelihood Adaptation Strategies in Orissa, India	Krishnan, P and Little, M	Kwantlen Polytechnic University
20	Potential impacts of sea-level rise on the coastal geomorphology of Crescent Beach, British Columbia	Turner, S and Hay, C	University of the Fraser Valley
21	Mapping the Concretions of Red Rock Coulee, Alberta	Bowery, A and Jiskoot, H	University of Lethbridge, Alberta
22	Hydroclimatic proxy relationships among a network of cores from an alpine, glacier-fed lake	Hodder, K and Suchan, J	University of Regina

23	Analysis of leaf litter decomposition rates for Japanese Knotweed and Thimbleberry samples collected at Clayburn Creek, Abbotsford, BC, Canada.	Marsh, S et al.	University of the Fraser Valley and Woods Hole Oceanographic Institution
24	Monitoring the Spread of Invasive Plant Species in Abbotsford, British Columbia.	Strangway, A et al.	University of the Fraser Valley
25	Identifying Vegetation and Topographic Characteristics Associated with Permafrost Conditions in the Northwest Territories	Paluck, A et al.	University of Lethbridge
26	Mapping active NDVI from multi-spectral LiDAR image channels	Okhrimenko, M and Hopkinson, C	University of Lethbridge
27	Exploring the use of a UAV to assess geomorphic change at the Lillooet River delta	Nodge, R et al.	University of Regina
28	Fusing Lidar, SAR and Optical Data to Monitor Wet Area Extent of Prairie Pothole Wetlands in Southern Alberta	Montgomery, J et al.	University of Lethbridge and Canada Centre for Mapping and Earth Observation
29	Analysis of Decomposition Rates of Thimbleberry and Japanese Knotweed in the Fraser Valley	Kanda, S et al.	University of the Fraser Valley
30	Biofilm as an Indicator of Trace Metals Contamination from the Mt. Polley Mine Tailings Spill	Zwiebel, A et al.	University of Northern BC
31	Investigation into possible effects of agriculture on the geochemistry of Willband Creek in Abbotsford, BC, Canada	Faber, A et al.	University of the Fraser Valley and Woods Hole Oceanographic Institution
32	Major and trace ions, nutrients, and CDOM concentrations at two contrasting sites on Clayburn Creek in BC, Canada	Clemence, E et al.	University of the Fraser Valley and Woods Hole Oceanographic Institution
33	In-situ Light Emitting Diode Detection And Ranging map snow profile	Parsons, N and Hopkinson, C	University of Lethbridge

34	Preliminary Analysis of Stoney Creek, Abbotsford, British Columbia: Current Water Quality and Potential Threats to the Watershed	Bourdages, M, Groeneweg, A et al.	University of the Fraser Valley
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17:00-18:25

Annual General Meeting

Room 7-238

18:30-01:30

Banquet

Bentley Corridor

18:30-19:00

Cocktails

19:00-20:00

Buffet Dinner

19:45-20:00

Greetings and Announcements

Dr. Neil Hanlon, Conference Organizing Committee

Dr. Theresa Garvin, President of the Canadian Association of Geographers

Dr. Hester Jiskoot, President of the WD-CAG

20:00-20:55

Special Guest Presentation

Dr. Sarah de Leeuw (Associate Professor, Northern Medical Program, UBC Faculty of Medicine & Adjunct Professor of Geography, UNBC)

Orgasmic Poetic Spaces in Northern British Columbia: Eco-Erotic Poetry and Geographers in the Anthropocene

21:00-01:30

Dancing

Slide show presentation by Conference Organizers

DJ (Entertainment Group PG) and cash bar

Acknowledgements

We are grateful for financial support provided by the President's Executive Council at UNBC.

Our special thanks to Jennifer Studney and the very capable and accommodating staff at UNBC Conference and Event Services for their excellent service. We are also grateful to a number of other services on campus, including the Facilities Department, UNBC Green Centre, Information Technology Services, the UNBC Copy and Print Services, Office of Communications, UNBC First Nations Centre, and UNBC Bookstore.

A special thank you to Northern Undergraduate Student Society (NUGSS) and the staff at the Thirsty Moose Pub for letting us take over the pub and meeting space for the Conference Icebreaker event.

Our thanks to UNBC Catering Services for looking after meals and refreshment breaks, and to Entertainment Group of Prince George for providing music at the Banquet.

Our special guest speakers, Dr. Charles Helm and Dr. Sarah de Leeuw, were very generous of their time and talents.

Finally, a big thank you to the many UNBC undergraduate and graduate student volunteers who helped make this event possible.

- Neil Hanlon, Lead Organizer