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2015

Annual Scientific Meeting
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Réunion scientifique annuelle

7-11/12/2015, Vancouver, BC



Together in the study of a changing Arctic

ArcticNet is funded by the Government of Canada through the Networks of Centres of Excellence program, a joint initiative of the Natural Sciences and Engineering Research Council, the Canadian Institutes of Health Research, the Social Sciences and Humanities Research Council and Industry Canada.

Understanding the transformation of the Arctic environment is one of the great challenges faced by Canadians, the Canadian government and the national and international scientific communities. ArcticNet brings together scientists and managers in the natural, human health and social sciences with their partners from Inuit organizations, northern communities, federal and provincial agencies and the private sector to study the impacts of climate change and modernization in the Canadian Arctic. Over 150 ArcticNet researchers and 1000 graduate students, postdoctoral fellows, research associates, technicians and other specialists from 34 Canadian universities and numerous federal and provincial departments and agencies collaborate on 41 research projects with more than 150 partner organizations from 14 countries.

ArcticNet is hosted at Université Laval, Quebec City, Canada.

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TABLE OF CONTENTS

General Conference Program	p. 4
Student Day Program	p. 5
Plenary Program	p. 8
Topical Session Program	p. 10
Sponsors	p. 26
Exhibitors	p. 28
Advertisements	p. 33
Breakfast Options	p. 38
Conference Floor Plans	p. 39

GENERAL CONFERENCE PROGRAM

	MONDAY 7 DECEMBER	TUESDAY 8 DECEMBER	WEDNESDAY 9 DECEMBER	THURSDAY 10 DECEMBER	FRIDAY 11 DECEMBER
08:30	Student Day (<i>Salon ABC</i>)	Student Day (<i>Salon ABC</i>)	Plenary Session (<i>Salon ABC</i>)	Plenary Session (<i>Salon ABC</i>)	Topical Sessions
10:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30	Student Day	Student Day	Topical Sessions	Topical Sessions	Plenary Session (<i>Salon ABC</i>)
12:00	Lunch (<i>Stanley Park Ballroom</i>)	Lunch (<i>Stanley Park Ballroom</i>)	Lunch (<i>Stanley Park Ballroom</i>)	Lunch (<i>Stanley Park Ballroom</i>)	Meeting adjourns
13:30	Student Day	ASM Opening Session (<i>Salon ABC</i>)	Topical Sessions	Topical Sessions	
15:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
15:30	Student Day (<i>Salon ABC</i>)	Topical Sessions	Topical Sessions	Topical Sessions	
17:00		Welcome Reception / Poster Session 1 (<i>Salon DEF</i>)	Reception / Poster Session 2 (<i>Salon DEF</i>)	Reception (<i>Foyer</i>)	
19:00			Cultural Night (<i>Marine Room</i>)	Conference Banquet (<i>Salon ABC</i>)	

STUDENT DAY PROGRAM

MONDAY, 7 DECEMBER (Salon ABC)		
08:30	Terin Robinson President, ArcticNet Student Association	Welcome Remarks/Icebreaker
09:00	Glenn Stein Fellow of the Royal Geographical Society, Polar & Maritime Historian	Plenary #1: Sun, Surf and Snow: A Historian’s Account of How Arctic Exploration Shapes Contemporary Scientific Research in Canada
10:00	Coffee Break	
Workshop Sessions (1)		
10:30	The Research Mindset: Strategies on How to Think Critically About Your Research Glenn Stein , Fellow of the Royal Geographical Society, Polar & Maritime Historian	Salon ABC
	Collaborative Paper Writing and Questions of Co-Authorship Philip Bonnaventure , Assistant Professor, University of Lethbridge	Oak
	How Researchers Can Maximize Engagement with Traditional Knowledge (TK) and Communities (Part 1) Shelly Elverum , Ikaarvik: Barriers to Bridges Mia Otokiak , Cambridge Bay; Coral Westwood , Kugluktuk; Andrew Arreak , Pond Inlet; Eric Solomon , Vancouver Aquarium Marine Science Centre	Seymour
	Starting a Career in the Public Service Sector Lisa Loseto , Section Head, Arctic Aquatic Research Division, Fisheries and Oceans Canada Dustin Whalen , Coastal Geologist, Natural Resources Canada	Mackenzie
11:15	The Research Mindset: Strategies on How to Think Critically About Your Research Glenn Stein , Fellow of the Royal Geographical Society, Polar & Maritime Historian	Salon ABC
	Collaborative Paper Writing and Questions of Co-Authorship Philip Bonnaventure , Assistant Professor, University of Lethbridge	Oak
	How Researchers Can Maximize Engagement with Traditional Knowledge (TK) and Communities (Part 2) Shelly Elverum , Ikaarvik: Barriers to Bridges Mia Otokiak , Cambridge Bay; Coral Westwood , Kugluktuk; Andrew Arreak , Pond Inlet; Eric Solomon , Vancouver Aquarium Marine Science Centre	Seymour
	Starting a Career in the Public Service Sector Lisa Loseto , Section Head, Arctic Aquatic Research Division, Fisheries and Oceans Canada Dustin Whalen , Coastal Geologist, Natural Resources Canada	Mackenzie
12:00	Lunch (Stanley Park Ballroom)	

Workshop Sessions (2)		
13:30	Polar Data Catalogue: Data Management Workshop Julie Friddell , Associate Director, Canadian Cryospheric Information Network/Polar Data Catalogue Gabrielle Alix , Data Manager, Canadian Cryospheric Information Network/Polar Data Catalogue	<i>Salon ABC</i>
	Leadership Foundations and the Educative Experience as Impetus for Action Tim Straka , The University of British Columbia	<i>Oak</i>
	How Researchers Can Maximize Engagement with Traditional Knowledge (TK) and Communities (Part 1) Shelly Elverum , Ikaarvik: Barriers to Bridges Mia Otokiak , Cambridge Bay; Coral Westwood , Kugluktuk; Andrew Arreak , Pond Inlet; Eric Solomon , Vancouver Aquarium Marine Science Centre	<i>Seymour</i>
	“Let’s Talk Science” Education and Outreach Workshop Isabel Deslauriers , Outreach Manager, Let's Talk Science Outreach	<i>Mackenzie</i>
14:15	Polar Data Catalogue: Data Management Workshop Julie Friddell , Associate Director, Canadian Cryospheric Information Network/Polar Data Catalogue Gabrielle Alix , Data Manager, Canadian Cryospheric Information Network/Polar Data Catalogue	<i>Salon ABC</i>
	Leadership Foundations and the Educative Experience as Impetus for Action Tim Straka , The University of British Columbia	<i>Oak</i>
	How Researchers Can Maximize Engagement with Traditional Knowledge (TK) and Communities (Part 2) Shelly Elverum , Ikaarvik: Barriers to Bridges Mia Otokiak , Cambridge Bay; Coral Westwood , Kugluktuk; Andrew Arreak , Pond Inlet; Eric Solomon , Vancouver Aquarium Marine Science Centre	<i>Seymour</i>
	“Let’s Talk Science” Education and Outreach Workshop Isabel Deslauriers , Outreach Manager, Let's Talk Science Outreach	<i>Mackenzie</i>
15:00	Coffee Break	
15:30	Student Elevator Pitch Presentations (<i>Salon ABC</i>)	
16:15	Melissa Lafrenière Associate Professor, Queen's University and Director of the Facility for Biogeochemical Research on Environmental Change and the Cryosphere	Plenary #2: Collaboration for Research Success
19:00	Evening Social (Mahony & Sons)	

TUESDAY, 8 DECEMBER <i>(Salon ABC)</i>		
08:30	Geoff Green Founder, Students on Ice	Plenary #3: Students on Ice: Driven by Passion for the Polar Regions
09:15	Student Elevator Pitch Presentations	
10:00	Coffee Break	
Workshop Sessions (3)		
10:30	Considering Elements of Scientific Mentorship: Mistakes Made and Lessons Learned Grant Gilchrist , Research Scientist, Environment Canada	<i>Salon ABC</i>
	Research Proposal Development and Scholarship Applications Ashley Cunsolo Willox , Canada Research Chair and Assistant Professor, Cape Breton University Brent Else , Assistant Professor, University of Calgary	<i>Oak</i>
	Writing and Publishing in Peer Reviewed Publications Trevor Bell , Professor, Memorial University of Newfoundland Greg Henry , Professor, The University of British Columbia	<i>Seymour</i>
	“Let’s Talk Science” Education and Outreach Workshop Isabel Deslauriers , Outreach Manager, Let's Talk Science Outreach	<i>Mackenzie</i>
11:15	Considering Elements of Scientific Mentorship: Mistakes Made and Lessons Learned Grant Gilchrist , Research Scientist, Environment Canada	<i>Salon ABC</i>
	Research Proposal Development and Scholarship Applications Ashley Cunsolo Willox , Canada Research Chair and Assistant Professor, Cape Breton University Brent Else , Assistant Professor, University of Calgary	<i>Oak</i>
	Planning for a Successful Field Season Dustin Whalen , Coastal Geologist, Natural Resources Canada	<i>Seymour</i>
	“Let’s Talk Science” Education and Outreach Workshop Isabel Deslauriers , Outreach Manager, Let's Talk Science Outreach	<i>Mackenzie</i>
12:00	Lunch <i>(Stanley Park Ballroom)</i>	

PLENARY PROGRAM

TUESDAY, 8 DECEMBER (13:30-15:00)		
(Salon ABC)		
Chair: Martin Fortier Executive Director, ArcticNet		
13:30	Martin Fortier Executive Director, ArcticNet	Welcome Address
14:00	Derek Mueller Associate Professor, Carleton University	Deterioration of Canada's Largest Ice Hazards: Automated Technology and Remotely Sensed Observations
14:20	Michael Byers Professor and Canada Research Chair, The University of British Columbia	Science, Arctic Cooperation and the Ukraine Crisis
14:40	Jørgen Berge Leader, ARCTOS and Professor, UiT The Arctic University of Norway	Unexpected Levels of Biological Activity during the Polar Night Offer New Perspectives on a Warming Arctic
WEDNESDAY, 9 DECEMBER (08:30-10:00)		
(Salon ABC)		
Chair: Russel Shearer Chair, ArcticNet Research Management Committee		
08:30	Nicole Biebow Project Manager, EU-PolarNet	EU-PolarNet: Connecting Polar Science with Society
08:50	Thomas Armstrong President, Madison River Group LLC Lars-Otto Reiersen Executive Secretary, AMAP	Our Common Future in the Arctic: AMAP's Progress in Taking Science to Knowledge and Action
09:10	Andrew Arreak , SmartICE Pond Inlet Trevor Bell , SmartICE, Memorial University of Newfoundland Shelly Elverum , FRCGS, Ikaarvik: Barriers to Bridges Abraham Kublu , Hamlet of Pond Inlet Mia Otokiak , Ikaarvik: Barriers to Bridges Eric Solomon , Ikaarvik: Barriers to Bridges, Vancouver Aquarium Marine Science Centre	Inuit Youth Building Bridges Between Generations, Communities and Ways of Knowing to Benefit Arctic Science and Society
09:30	Geordie Dalglish and Garfield Mitchell The W. Garfield Weston Foundation	The W. Garfield Weston Foundation: Presentation of the Weston Family Prize for Lifetime Achievement in Northern Research

THURSDAY, 10 DECEMBER (08:30-10:00) <i>(Salon ABC)</i>		
Chair: Lisa Loseto Section Head, Arctic Aquatic Research Division, Fisheries and Oceans Canada		
08:30	Dominique Berteaux Professor and Canada Research Chair, Université du Québec à Rimouski	The Changing Arctic Biodiversity
08:50	Pierre Ayotte Professor, Université Laval Mylène Riva Professor, Université Laval	Health Research in the Arctic: Individual, Family and Community Perspectives on Health and its Determinants
09:10	Moderator: Leah Braithwaite Chief, Applied Science – Canadian Ice Service, Environment Canada Panelists: Grant Gilchrist Research Scientist, Environment Canada Reagan Kruger Search and Rescue Technician, Department of National Defence Jack Marcy HSE Manager, OpsMobil Inc.	Plenary Panel: Field Safety in Cold and Remote Environments
FRIDAY, 11 DECEMBER (10:30-12:00) <i>(Salon ABC)</i>		
Chair: Maribeth Murray Executive Director, Arctic Institute of North America		
10:30	Arnold Witzig Co-founder, Arctic Inspiration Prize	Arctic Inspiration Prize: Future Avenues
Plenary Panel: Future Opportunities in Canadian-led Arctic Research		
10:45	David J. Scott President, Polar Knowledge Canada	Polar Knowledge Canada and CHARS: Building for the Future
	David Barber Professor and Canada Research Chair, University of Manitoba	Major Opportunities in Hudson Bay: The BaySys Program and Churchill Marine Observatory (CMO)
	Marcel Babin Professor and Canada Excellence Research Chair, Université Laval	Sentinel North: Transformative Optics for Human Health and the Environment in the North
	Louis Fortier Professor and Canada Research Chair, Université Laval	The Institut nordique du Québec (INQ) and Plan for a Pan-Canadian Arctic Research Institute

TOPICAL SESSION PROGRAM

TUESDAY, 8 DECEMBER - 15:30 to 17:00

Arctic Migratory Birds Initiative (AMBI)

Chair: Victoria Johnston

Room: Cypress 1

15:30	Victoria Johnston	Taking Arctic Bird Conservation to Lower Latitudes: The Arctic Migratory Birds Initiative
15:50	Amie Black	Canadian Implementation of the Arctic Migratory Birds Initiative's "Circumpolar Flyway" Workplan
16:10	Rob Clay	New Action for Arctic Shorebirds in the Americas - The Arctic Migratory Birds Initiative
16:30		Discussion Period

Glacier Change and Ice-Ocean Interaction

Chairs: Derek Mueller & Luke Copland

Room: Cypress 2

15:30	Martin Sharp	21st Century Glacier Change in the Canadian High Arctic: Rates, Mechanisms, and Feedbacks
15:45	Lorenz Meire	Glacial Runoff as Driver for High Primary Production in Greenland's Fjords
16:00	Andrew Hamilton	Seasonal and Interannual Physical Dynamics of the Last Epishelf Lake in the Canadian Arctic
16:15	Melissa Nacke	Potential Impacts of Ice Island Fragments on Bio-Physical Processes on Canadian Arctic Shelves
16:30	Wieter Boone	Seasonal Circulation Modes, Water Masses and Fjord-Shelf Exchange in an Ice Covered NE Greenland Sill Fjord

One Health in the Arctic

Chair: Susan Kutz

Room: Oak

15:30	Susan Kutz	Emerging Muskox Health Issues in the Canadian Arctic: An Integrative Approach to Assessment and Management
15:45	Sylvia Checkley	Participatory Muskox Health Surveillance and Inuit Knowledge in Ikaluktutiak, Nunavut
16:00	Patrick Leighton	Dynamics and Persistence of Rabies in the Canadian Arctic
16:15	Audrey Simon	Spatio-Temporal Occurrence of Rabies Epizootics Across Canadian Arctic, 1953-2014: From Disease Surveillance to Ecological Mechanisms
16:30	Susan Kutz	Regular Veterinary Services Provide a Pathway Towards Improved Human and Animal Health and Welfare in Remote Regions of the Canadian North
16:45	Craig Stephen	A National Wildlife Health Strategy for Northern One Health Needs
17:00		Discussion on One Health in the Arctic

Arctic Lakes, Rivers and Estuaries 1

Chair: Vincent St. Louis

Room: *Seymour*

15:30	Igor Lehnher	Coupled Terrestrial-Aquatic Climate Impacts on the Watershed of the High Arctic's Great Lake (Lake Hazen, Nunavut)
15:45	Sherry Schiff	Lake Hazen Watershed: A Surrogate for Assessing Changes in Terrestrial Inputs to the Nearshore Marine Coastal Zone in the High Arctic
16:00	Vincent St. Louis	Net Exchange of Carbon Dioxide and Methane from Freshwater Systems in the Canadian High Arctic
16:15	David Atkinson	Spatial Modelling of the Biophysical Conditions within a Nival Driven Arctic Wetland at Cape Bounty, Melville, Island
16:30	Alexandre Normandeau	Integrated Study of Sedimentary Processes in High Arctic Lakes (Cape Bounty, Melville Island)
16:45	Ellorie McKnight	The Physical & Biological Dynamics of a Large Northern Lake (Kluane Lake, YT)

Community-Based Monitoring

Chair: Joel Heath

Room: *Mackenzie*

15:30	Trevor Lantz	Monitoring Environmental Change in the Mackenzie Delta Region: Local Observations and Participatory Multimedia Mapping
15:45	Timothy Anaviapik Soucie	Building Capacity to Monitor the Risk of Climate Change on Water Quality and Human Health
16:00	Laura Eerkes-Medrano	User-Inspired Basic Research - Community and End-User Monitoring of Adverse Marine and Weather States in the Eastern Beaufort Sea
16:15	Karla Letto	Nunavut Wildlife Management Board's Community-Based Monitoring Network
16:30	Vanessa Grandmaison	Diversity Among Marine Resource Use Objectives Across Co-Management Agencies in the Inuvialuit Settlement Region, Canada
16:45	Joel Heath	A Social Media Network and Interactive Knowledge Mapping Platform for the North
17:00	Richard Nesbitt	"One Voice" to Monitor Northern Canada's Freshwater Aquatic Environment

Arctic Contaminants

Chair: Rob Letcher

Room: *Salon ABC*

15:30	Kathleen Munson	A Process-Based Investigation of Mercury Uptake and Temporal Evolution Within Experimental Sea Ice
15:45	Trevor Stocki	Environmental Transfer Parameters for Cesium in the Lichen-Caribou-Human Food Chain
16:00	Derek Muir	Declining Mercury in Landlocked Char in High Arctic Lakes: Response to Global Emissions or Impacts of Climate Change?
16:15	Cora Young	Atmospheric Deposition of Perfluoroalkyl Acids to the Devon Ice Cap from 1977 to 2015
16:30	Marlene Evans	Spatial and Temporal Variability in Mercury Concentrations in Predatory Fish in Lakes in the Northwest Territories, Canada
16:45	Sarah Kalhok	Future Directions and Next Steps for the Northern Contaminants Program

WEDNESDAY, 9 DECEMBER - 10:30 to 12:00**Arctic Birds**

Chair: George Divoky

Room: Cypress 1

10:30	George Divoky	Major Advancement in the Breeding Phenology of an Arctic Seabird in 2015 in Response to Record Spring Warmth and Early Snowmelt at Barrow, Alaska
10:45	Kyle Elliott	Arctic Seabirds Work Harder to Gain Less When Sea-Ice Melts Earlier
11:00	Kathryn Hargan	"Arctic Hotspots": How Sea Duck and Pelagic Seabird Nutrient Subsidies Transform Coastal Islands in the Eastern Arctic
11:15	Nikolas Clyde	Marine Nutrient Subsidies to the Terrestrial Environment of Common Eider Nesting Islands in the Canadian Arctic
11:30	Pat Baird	Arctic Seabirds as Proxies of Health of the Ocean – Or – A Tale of Two Seabirds

Knowledge Co-Production

Chairs: Tristan Pearce & Sonja Ostertag

Room: Cypress 2

10:30	Lisa Loseto	What do the Beluga Whales Already Know? - Habitat Mapping Within the Kittgaryuit Area
10:45	Sonja Ostertag	Co-Production of Knowledge in the Inuvialuit Settlement Region: Bridging Knowledge in Beluga (<i>Delphinapterus leucas</i>) Monitoring and Research
11:00	Tristan Pearce	Cultural Observations from a Beluga Hunt near Ulukhaktok, N.W.T
11:15	Peter Collings	The Whole Community Got a Taste, and Shared: Inuit Narratives of Ecological Knowledge and Beluga Whales in Ulukhaktok, NT, Canada
11:30	Carie Hoover	Coordination of Multi-Stakeholder Objectives with Respect to Marine Resource Management in the Inuvialuit Settlement Region, Canada

Arctic Wildlife 1

Chair: Dominique Berteaux

Room: Oak

10:30	Harry O'Keefe	Why did the Caribou Cross the Road? - Measuring Permeability of a Mine Road for Barrenland Caribou
10:45	Knut Kitching	Tuktu and Climate Change: Inuit Hunting on Southern Baffin Island
11:00		
11:15	Brian Milakovic	Grizzly Bear Population Status in the Central Barrens of the Northwest Territories: Applying DNA Mark Recapture Approaches and Spatially Explicit Modeling
11:30	Greg Sharam	Camera Traps as a Monitoring Tool for Large Mammals in the Canadian Arctic - Strengths and Weaknesses

Arctic Lakes, Rivers and Estuaries 2

Chair: Vincent St. Louis

Room: *Seymour*

10:30	Philip Bonnaventure	Over Winter Channel Bed Temperature Regimes Generated by Contrasting Snow Accumulation in a High Arctic River
10:45	Pieter Aukes	Using Photolytic and Microbial Degradation Experiments to Understand the Quality of Dissolved Organic Matter Around Yellowknife, Northwest Territories
11:00	Kelly Graves	Under-Ice Circulation in an Arctic Lake: Observations from two Field Seasons in Lake Kilpisjärvi, Finland
11:15	Armelle Decaulne	Characterization of Slope Movements of the Inner Ring Islands of Clearwater Lake, Nunavik, Canada
11:30	Achim Roth	Lake Ice Growth and Decay in Northern Scandinavia Observed with Sentinel-1 SAR Data
11:45	Alain Mailhot	Assessment of Extreme Precipitation Intensities Through Post-Treated Reanalysis: An Application to Northern Canada

Marine Geochemistry

Chair: Brent Else

Room: *Mackenzie*

10:30	Brent Else	Under Ice Fluxes of Dissolved Oxygen, Heat, and Salt Measured During the Ice Algae Bloom Period
10:45	Lindsay Fenwick	A Large-Scale Survey of Arctic Ocean Methane (CH ₄) and Nitrous (N ₂ O) Distributions During Summer of 2015
11:00	Hakase Hayashida	Production and Degradation of Dimethylsulfide within Lower-Trophic Level Sympagic and Pelagic Polar Marine Ecosystems
11:15	Eric Mortenson	A 1D Model Approach to Carbon Exchange in the Air, Sea, and Ice of the Marine Arctic

The Hudson Bay System

Chair: David Barber

Room: *Salon ABC*

10:30	David Barber	The BaySys Program - An Overview Update and Linkage to the ArcticNet Hudson Bay IRIS
10:45	Zou Zou Kuzyk	Winter Estuarine Processes in the Coastal Corridor in Southeast Hudson Bay and Effects of Environmental Change
11:00	Matt MacDonald	Hudson Bay Integrated Regional Impact Study: The Freshwater System
11:15	Jean-Éric Tremblay	The Marine Ecosystem of Hudson Bay in a Changing Climate
11:30	William Burt	Updated Insights into the Inorganic Carbon Cycling and Biogeochemical Processes of an Arctic Inland Sea (Hudson Bay)
11:45	Ashley Gaden	IRIS 3: Contaminant Processes in Hudson Bay

WEDNESDAY, 9 DECEMBER - 13:30 to 15:00**Arctic Marine Ecosystems**

Chair: Connie Lovejoy

Room: Cypress 1

13:30	Connie Lovejoy	Species Replacement in a Space for Time Transect from Kennedy Channel Through Kane Basin
13:45	Nadja Steiner	The Future of the Subsurface Chlorophyll-a Maximum in the Canada Basin - A Model Intercomparison
14:00	R. John Nelson	Analysis of Zooplankton Data with Fisher Information as an Indicator of Marine Regime Shifts
14:15	Isabelle Courchesne	Spatial Patterns of Different Biogeochemical Components of Primary Production in the Labrador Sea During May 2014 and 2015
14:30	Alice Bui	Interannual Variation of High Resolution Temporal Patterns of Phytoplankton Biomass Measured from a Coastal Cabled Observatory in Cambridge Bay, Nunavut

Arctic Marine Mammals 1

Chairs: Lisa Loseto & Claire Hornby

Room: Cypress 2

13:30	Lisa Loseto	Beluga Adaptions to Climate Change and a Shifting Prey Base: Case Study from Ulukhaktok
13:45	Claire Hornby	Identifying Habitat Variables Critical to Seasonal Distribution of Beaufort Sea Beluga Whales, <i>Delphinapterus leucas</i>
14:00	Sarah Fortune	Determining the Seasonal Importance of Cumberland Sound as a Foraging Habitat for Bowhead Whales
14:15	Bertrand Charry	First Index of Narwhal Newborn Using High Definition Aerial Photography
14:30	Helen McConnell	Anthropogenic Noise in the Arctic Marine Soundscape: Effects on Cetaceans and the Nunavummiut
14:45	Mike Hammill	Atlantic Walrus - The Forgotten Seal of the Canadian Arctic

Arctic Wildlife 2

Chair: Steeve Côté

Room: Oak

13:30	Michael English	The Decline of Barren Ground Caribou Herds and Possible Relationships to Changing Snowpack Structure
13:45	Allen Campeau	Remotely-Sensed Changes in the Primary Productivity of Caribou Summer Pasture: Evidence of Forage Limitation at High Caribou Density?
14:00	Sabrina Plante	Caribou Co-Occurrence with Hunters does not Influence its Vulnerability to Sport Hunting
14:15	Brian Milakovic	Post-Calving and Summer Habitat Selection by a Declining Caribou Herd in the Central Canadian Arctic
14:30	Melanie Wilson	Long Term Ecosystem Monitoring in Nunavut: Qamanirjuaq Caribou Calving Ground
14:45	Gregory Rickbeil	A Species Driven Approach Examining Fire Impacts and Habitat Recovery for Barren Ground Caribou (<i>Rangifer tarandus groenlandicus</i>)

Community Adaptation & Vulnerability in Arctic Regions 1

Chair: Donald Forbes

Room: *Seymour*

13:30	Jolène Labbé	Adaptation Readiness and the Big Picture in Nunavut: an Evaluation of the Current State of Adaptation, its Key Linkages and Barriers
13:45	Laine Chanteloup	Is the Inuit Sense of Place Still There?
14:00	Nancy Doubleday	Preserving Sea-Ice, Managing Power Plants: Balancing Future and Present in an Arctic Coastal Community
14:15	Dustin Whalen	Changing Climate, Changing Coasts, Changing Perspectives in Tuktoyaktuk and the Inuvialuit Settlement Region
14:30	Christina Hackett	Building Indigenous Youth Resilience Through Strengthening Ties with the Land and Community: Evaluation of a Culturally Focused Intervention in Nain, Nunatsiavut
14:45	Donald Forbes	Indicators for Sustainable Circum-Arctic Coastal Communities

Arctic Shipping and Navigation

Chair: Jackie Dawson

Room: *Mackenzie*

13:30	Jackie Dawson	Climate Change Adaptation Assessment for Transportation in Arctic Waters (CATAW)
13:45	Margaret DeHaan & Seyi Okuribido-Malcolm	The Way Forward: Canadian Coast Guard's Northern Marine Transportation Corridors Initiative
14:00	Leah Beveridge	A Toolkit of Visualizations: Making Sense of Arctic Shipping Information
14:15	James Parsons	Formal Safety Assessment in Northern Marine Transportation
14:30	Olivia Mussells	The Role of Pressured Ice in Winter Shipping Beseating Events in the Hudson Strait
14:45	Richard Simpson	Opportunities to Reduce Environmental Impact of Research Activities in Arctic Waters

Permafrost Systems in Rapid Transition: Water

Chairs: Warwick Vincent & Mickaël Lemay

Room: *Salon ABC*

13:30	Lauren MacDonald	A Synthesis of Thermokarst Lake Water Balance in Subarctic North America from Isotope Tracers
13:45	Hilary White	Characterizing the Hydrology and Limnology of Shallow Subarctic Lakes in Wapusk National Park, Western Hudson Bay Lowlands, Manitoba
14:00	Ashley Rudy	Permafrost Disturbance Impacts on Water Quality Across a Range of Watershed Scales, Eastern Banks Island, NT
14:15	Scott Zolkos	The Influence of Permafrost Thaw Slumps on Carbon Dynamics in Streams of the Peel Plateau (NT)
14:30	Vincent St. Louis	Meltwater and Permafrost Thaw Impacts on Mercury Dynamics in the Rapidly Changing Lake Hazen Watershed (Quttinirpaaq National Park, Nunavut, Canada)
14:45	Josefine Lenz	Past Lakes and Future Climate - Sediment Cores Reveal Permafrost Dynamics in Central Beringia

WEDNESDAY, 9 DECEMBER - 15:30 to 17:15**Arctic Fish and Fisheries**

Chair: Louis Fortier

Room: Cypress 1

15:30	Sheila Atchison	Distribution, Physical Traits, and Diet of Arctic Skate, <i>Amblyraja hyperborea</i> (Collette 1879) (Rajidae), in the Canadian Beaufort Sea
15:45	Maxime Geoffroy	Could Longer Ice-Free Seasons Increase Arctic Cod (<i>Boreogadus saida</i>) Growth and Recruitment in the Canadian Beaufort Sea?
16:00	Helen Drost	Acclimation Potential and Cardio-Respiratory Performance of Arctic Cod (<i>Boreogadus saida</i>), a Key Food Web Species in the Arctic Ocean
16:15	Brynn Devine	Marine Diversity in Canada's Arctic: Insight from Exploratory Fisheries Catch and Underwater Video Around Arctic Bay and Resolute Bay
16:30	Benjamin Misiuk	Scientific Knowledge to Support a Clam Fishery Assessment: Habitat Mapping in Qikiqtarjuq, NU

Arctic Marine Mammals 2

Chairs: Mike Hammill & Sarah Fortune

Room: Cypress 2

15:30	Jody Reimer	Interactions Between Polar Bears, Ringed Seals, and their Dynamic Sea Ice Habitats
15:45	Nicholas Pilfold	Multi-Temporal Factors Influence Predation for Polar Bears in a Changing Climate
16:00	Tiphaine Jeanniard du Dot	Lactating northern fur seal females in a declining population compromise either on foraging efficiency or pup feeding rates during the breeding season
16:15	Ernest Cooper	Canadian Trade in Polar Bears from 2005-2014
16:30	Talia Wells	Polar Bear, Polar Security-Linking Polar Bears and Environmental Security

Extractive Industries and Human Development in the Arctic

Chair: Stephan Schott

Room: Oak

15:30	Stephan Schott	Mining Economies and Local Business Development
15:45	Thierry Rodon	Resource Revenue Distribution and Community Development and Well-Being: Evidence from Nunavik
16:00	Ben Bradshaw	Strategic Planning to Maximize Socioeconomic Outcomes: the Voisey's Bay Nickel Mine and the Labrador Inuit
16:15	Jeanette Carney	Asbestos Hill Mine: History and Legacy
16:30	Sylvie Blangy	Life After Meadowbank: Exploring Gold Mine Closure Scenarios with the Residents of Qamini'tuaq (Baker Lake), Nunavut
16:45	Bindu Panikkar	Governance of Risks in the Permitting of Newly Proposed Large-Scale Mines in Alaska
17:00	Stephie Zimmerling	Review of Canadian Indigenous Mining Policy Frameworks

Community Adaptation & Vulnerability in Arctic Regions 2

Chair: Martin Tremblay

Room: *Seymour*

15:30	Martin Tremblay	Using Standards to Adapt to Changing Conditions in Canada's North
15:45	Tristan Pearce	Current Directions for Climate Change Vulnerability and Adaptation Research
16:00	Chantelle Masson	At Home and on the Land: an Interactive Climate Change Risk Planning Tool for Nunavut Communities
16:15	Rudy Riedlsperger	Decision-Tree Mapping to Improve Knowledge Mobilization for Community Planning and Housing Development in Arctic Communities
16:30	Andrew Medeiros	Water Security for Northern Peoples: Threats to the Quantity and Quality of Arctic Freshwater Systems
16:45	Paul Gray	Assessing Climate Change Vulnerability Through Inuit Qaujimajatuqangit, Aboriginal Knowledge and Western Science in Three Arctic National Parks

Arctic Monitoring

Chair: Donald McLennan

Room: *Mackenzie*

15:30	Donald McLennan	The Development of a Coordinated Biodiversity Monitoring System for Circumpolar Coastal Ecosystems
15:45	Ryan Flagg	Cabled Observatories and Citizen Science for Arctic Communities: Ocean Networks Canada's Cambridge Bay Observatory and "Community Fishers" Projects
16:00	Richard Dewey	The Cambridge Bay Ocean Observatory: A Coastal Cabled Laboratory for Real-Time Science
16:15	Marie-Andrée Giroux	Bridging the Gap Between Monitoring and Modeling Approaches to Better Understand Arctic Food Webs Under Global Pressures
16:30	Yves Crevier	Coherent Long-Term Monitoring of Polar Regions - A Decade of Coordination for the Space Agencies and the Polar Science Communities
16:45	David Landry	Using Non-Invasive Remote Sensing Technologies to Document and Monitor Surface and Subsurface Changes to Frozen Arctic Archaeological Sites
17:00	Eric Rehm	A Baffin Bay Acoustic Communication and Navigation System

Permafrost Systems in Rapid Transition: Carbon

Chair: Hugues Lantuit

Room: *Salon ABC*

15:30	George Tanski	Rapid Permafrost Carbon Degradation at the Land-Ocean Interface
15:45	Cara Bulger	Organic Carbon Dynamics in Permafrost Thaw in the Western Canadian Arctic
16:00	Virginia Walker	Examination of Soil Communities after Permafrost Thaw Subsequent to an Active Layer Detachment in the High Arctic
16:15	Jaroslav Obu	Terrain Influence on Soil Organic Carbon and Total Nitrogen Stocks in Soils of Herschel Island, Western Canadian Arctic
16:30	Abra Martin	Ice Wedge Degradation and CO ₂ and CH ₄ Emissions in the Tuktoyaktuk Coastlands, NWT
16:45	Brittany Main	Carbon-14 as Tracer of Soil Movement in Earth Hummocks: A Case Study from Western Arctic Canada

THURSDAY, 10 DECEMBER - 10:30 to 12:00**Data Management**

Chair: Julie Friddell

Room: Cypress 1

10:30	Ellsworth LeDrew	National Coordination of the Polar Data Management Community in Canada
10:45	Shannon Vossepoel	The Rough Guide to Polar Data Stewardship in Canada
11:00	Maribeth Murray	The Canadian Consortium for Arctic Data Interoperability: Data Sharing and Analysis for Arctic Research and Northern Communities
11:15	Sarah Newell	The Portal as a Tool to Enable Community and University Collaboration in Research
11:30	Scot Nickels	Inuit Qaujisarvingat: Linking Data, Mapping and Visualizations of Inuit Knowledge Across Cultures and Contexts
11:45	Carolyn DuBois	Mackenzie DataStream: Introducing a Pilot Freshwater Data System

Arctic Policy 1

Chair: Elizabeth Riddell-Dixon

Room: Cypress 2

10:30	David Hik	Identifying Priorities for International Arctic Research and Policy
10:45	Elizabeth Riddell-Dixon	Canada's Arctic Submission to the UN Commission on the Limits of the Continental Shelf
11:00	Xiaogang Lai	Internationalism versus Nationalism: The Arctic and China's Maritime Policy
11:15	Vinay Rajdev	Trends in the American, Canadian and European Funding Agencies for Arctic Research and their Alignment with Research Priorities and Policy Needs
11:30	Alexandra Mallett	Northern Exposure: The Role of Policy Entrepreneurs in Spurring Climate Policy Innovations for Heating and Electricity in Canada's Arctic
11:45	Risa Smith	Arctic Biodiversity Assessment: An Overview of Status and Trends of Biodiversity and its Threats in the Circumpolar Arctic

Arctic Seabed Mapping

Chairs: Steve Blasco & Patrick Lajeunesse

Room: Oak

10:30	Steve Blasco	Regional Assessment of Seabed Geohazard Conditions, Canadian Beaufort Outer Shelf and Upper Slope
10:45	Edward King	Late Glaciation in the Eastern Beaufort Sea: Contrasts in Shallow Depositional Styles from Amundsen Gulf, Banks Island Shelf and M'Clure Strait
11:00	Christopher Woodworth-Lynas	A Buried Fully Preserved Late Quaternary Ice Keel Turbate, Upper Continental Slope, Canadian Beaufort Sea
11:15	Michel Goguen	The Foundation - Arctic Charting
11:30	Edward King	Seabed Stability on the Beaufort Slope: Sediment Geotechnical Characterization and Geologic Context

Inuit Research Legacy: Planning for the Future of Research for Inuit Nunangat

Chair: Shannon O'Hara

Room: *Seymour*

10:30 - 12:00	Workshop
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Community Health and Well Being 1

Chair: Gina Muckle

Room: *Mackenzie*

10:30	Gina Muckle	Is High Se Intake from Marine Diet During Pregnancy and Childhood Mitigating the Adverse Effects of MeHg Exposure on Neurobehavioral Development at School Age?
10:45	Pierre Ayotte	Selenoneine is the Major Se Compound in Beluga Muktuk and Red Blood Cells of Nunavik Inuit
11:00	Therese Yero Adamou	Sociodemographic Characteristics as Determinants of Levels of Exposure to Mercury and Polychlorinated Biphenyls Among Inuit Pregnant Women from Nunavik
11:15	Catherine Pirkle	The Complex Balance Between Mercury Exposure and Country Foods Benefits: Comprehensive Guidelines for Health Practitioners in Nunavik
11:30	Mélanie Lemire	The Lake Trout Mercury Project: from Nunavik Lakes to Nunavimmiut Health

Northern Food Security 1

Chair: Sara Statham

Room: *Marine*

10:30	Tracey Galloway	Nutrition North Canada: Why Recent Changes to the Federal Food Subsidy Program Won't Tell you Anything New
10:45	Sara Statham	Country Food Guidelines Project: Increasing Access to Traditional Food in Facilities and Programs in Nunavut
11:00	Kaitlyn Finner	Food From Here There, From Us and Them; Characterizing the Food System of Rigolet, Nunatsiavut
11:15	Emily Willson	Evaluating Levels of Personal, Social and Cultural Food Needs, and the Role of a Community Freezer, Among Communities in Nunatsiavut

Permafrost Systems in Rapid Transition: Multiple Scales

Chair: Fabrice Calmels

Room: *Salon ABC*

10:30	Julia Riddick	Fine-Scale Variability in Permafrost Terrain and its Control on Ground Temperature
10:45	Dawn Keim	Field Observations of Active Layer Thaw Depth in the Continuous Permafrost Zone of the Canadian Arctic
11:00	Elizabeth Wrona	Calibration and Validation of the Cosmic-ray Soil Moisture Observing System (COSMOS) Soil Moisture Product in an Arctic Peatland Environment
11:15	Anna M. Konopczak	Temporal and Spatial Variations in Coastal Dynamics and their Contribution to Land Losses Along the Yukon Coast, Canada
11:30	Stephan Gruber	A New Network of Sites to Investigate Ground Thermal Regime and Surface Subsidence in the Tundra of the Slave Geological Province
11:45	Sara Holzman	The Nunavut Permafrost Databank- Centralizing Nunavut Permafrost for Northern Decision-Making

THURSDAY, 10 DECEMBER - 13:30 to 15:00**Arctic Climate and Hydrology**

Chair: Philip Marsh

Room: Cypress 1

13:30	Ross Brown	Climate Variability, Trends and Projected Change for the Eastern Canadian Arctic
13:45	Patrick Grenier	The Development of Climate Scenarios for the Canadian Arctic
14:00	Robert Siron	Ouranos' New Program 2014-2019 to Address Climate Change Impacts and Adaptation Issues in Northern Quebec
14:15	Philip Marsh	Changing Snow Hydrology in the Western Canadian Arctic
14:30	Scott Williamson	Snow Cover Reduction Contributes Marginally to Terrestrial Temperature Change in the South West Yukon

Arctic Policy 2

Chair: Kathleen Fischer

Room: Cypress 2

13:30	Kathleen Fischer	Arctic Risk Management (ARMNet) Network: Linking Risk Management Practitioners and Researchers Across the Arctic Regions of Canada and Alaska
13:45	Carolyn DuBois	Rethinking the Top of the World: Arctic Public Opinion Survey (Vol 2)
14:00	Shirley Roburn	Taking it "Glocal": Bringing Northern Community Voices to Global Civil Society Campaigns on Energy and Climate Change
14:15	Paul LeBlond	Feasibility and Preliminary Options for an International North Pole Science Station
14:30	Jamie Snook	Maximizing the Value of Social Sciences Research Through Re-purposing and the Promotion of Stewardship and Education to Resource Users
14:45	Joan Eamer	Arctic Ecozone+ Status and Trends Assessment: The First National Assessment of Canada's Terrestrial and Freshwater Arctic Ecosystems

Ocean-Sea Ice-Atmosphere Dynamics 1

Chair: Christian Haas

Room: Oak

13:30	Masayo Ogi	The Impact of the Tropical/Northern Hemisphere Teleconnection Pattern on an Abnormally Cold Winter over North America
13:45	Alexandre Forest	Current Surges and Sediment Erosion Near the Shelf Edge in the Canadian Beaufort Sea: The Role of Wind and Ice Motion Stress
14:00	Jessy Barrette	Upwelling/Downwelling Events Analysis Over the Mackenzie Shelf Break Using the Industry/ArcticNet Extensive Mooring Array Deployed from 2009 to 2011
14:15	Igor Dmitrenko	First Oceanographic Observations on the Wandel Sea Shelf in Northeast Greenland
14:30	Matthew Asplin	Investigating Wind-Forced Propagation of Ocean Waves into the Periphery of Arctic Pack Ice Using Upward-Looking Sonar

Arctic Tundra and Vegetation 1

Chair: Esther Frei

Room: *Seymour*

13:30	Esther Frei	Evolutionary Adaptation and Migration of Arctic Plant Populations in Response to Climate Change
13:45	Meagan Grabowski	Contrasting Interspecific Boreal Shrub Growth Response to Climate, Fertilization and Herbivory
14:00		
14:15	Sean Arruda	Impact of Experimental Warming and Snow Manipulation for Seven Years on Vegetation in the Canadian High Arctic
14:30	Marc-André Lemay	Spatially Explicit Modelling of Shrub Expansion in Umiujaq, Nunavik

Community Health and Well Being 2

Chair: Mylène Riva

Room: *Mackenzie*

13:30	Mylène Riva	Structural, Psychosocial, and Spatial Dimensions of Housing in the Arctic
13:45	Daniel Brown	Climate Change and Health Adaptation Program for Northern First Nations and Inuit Communities
14:00	Marie Baron	Is Self-rated Health Associated with Clinical Measures of Health Among Nunavimmiut?
14:15	Thomas Anderson	The Social Determinants of Higher Mental Distress among Inuit
14:30	Manpreet Saini	Participatory Methods in Rigolet: Evaluation of Inuit Health Programs and Collaborative Development of a Whiteboard Video for Health Promotion

Northern Food Security 2

Chair: George Wenzel

Room: *Marine*

13:30	Cédric Juillet	Harvesting to Prevent Hunger in Nunavik
13:45	Sara Statham	Food Policy in Canadian Inuit Communities: Is There a Role for Country Food Markets?
14:00	Colleen Parker	Importance of Storage for Food Security in Ulukhaktok, NWT
14:15	Emily Jenkins	One Health and Zoonotic Parasites in the Canadian North - Priorities and Perceptions
14:30	George Wenzel	Harvest Data and Their Relevance to the Food Security Discussion in Nunavut

Permafrost Systems in Rapid Transition: Infrastructure

Chair: Stephan Gruber

Room: *Salon ABC*

13:30	Fabrice Calmels	Adaptation of the North Alaska Highway to Climate Change
13:45	Heather Brooks	Quantifying Probability of Occurrence of Thaw Depth - Iqaluit Airport, Iqaluit, Nunavut
14:00	Bronwyn Benkert	Planning to Adapt: Case Studies from the Integration of Landscape Hazard Maps into Decision-Making in Yukon Communities
14:15	Alison Perrin	Costing Adaptation for Community Housing and Infrastructure in Two Northern Communities
14:30	Melanie Flynn	How to Evaluate Climate Change Adaptation in a Permafrost Environment: A Pilot Study using the Terrain Analysis Project in Arviat, Canada
14:45	Brendan O'Neill	Talik Formation at a Snow Fence in Continuous Permafrost, Western Arctic, Canada

THURSDAY, 10 DECEMBER - 15:30 to 17:00**Traditional Knowledge 1**

Chair: Gita Ljubicic

Room: *Cypress 1*

15:30	David Atkinson	Mapping, Visualizing, and Analyzing Spatial Traditional Ecological Knowledge: Moving Beyond the Point, Line, and Polygon
15:45		
16:00	Erin Keenan	Mobilizing Inuit Qaujimajatuqangit in Narwhal Management Through Community Empowerment: A Case Study in Nauyasat, Nunavut
16:15	Gita Ljubicic	Participatory Mapping Representations: Spatial Feature Selection, Interpretation, and Meaning in an Inuit Knowledge Context
16:30	Jason Suwala	Towards an Electronic Inventory of Cultural Resources in Three Pilot Nunavut Communities

Arctic Geotraces

Chairs: Jay Cullen & Philippe Tortell

Room: *Cypress 2*

15:30	Philippe Tortell	High Resolution Autonomous Measurements of Phytoplankton Productivity and Photo-Physiology in Arctic and Subarctic Ocean Waters
15:45	Clara Jule Marie Hoppe	Combined Effects of Ocean Acidification and Enhanced Irradiances on Arctic Phytoplankton Assemblages - Why Do They Not Care?
16:00	David Janssen	Dissolved Zinc in Baffin Bay and the Canadian Arctic Archipelago
16:15	Nina Schuback	Coupling of Photosynthetic Electron Transport and Carbon Fixation Rates in Arctic Marine Phytoplankton Assemblages
16:30	Kang Wang	Mercury in the Marine Water of the Canadian Arctic

Ocean-Sea Ice-Atmosphere Dynamics 2

Chair: Randy Scharien

Room: *Oak*

15:30	Christian Haas	Ice Thickness in the Northwest Passage
15:45	Kaan Ersahin	Characterization of Hazardous Ice Using Satellite and Upward Looking Sonars
16:00	Randy Scharien	Investigating the Impact of Summer Melt on the Effectiveness of Polarimetric Microwave Remote Sensing for Sea Ice Type Discrimination in the Canadian Arctic
16:15	Victoria Irish	Ice Nucleation Measurements of Particles from the Arctic Microlayer
16:30	Pierre Fogal	Re-Analyses of a Long Term Infrared Spectral Sunrise Data Set Recorded at Eureka, NU, 2000-2008

Arctic Tundra and Vegetation 2

Chair: Catherine E. Kennedy

Room: *Seymour*

15:30	Isla Myers-Smith	Biome-Scale Patterns in Tundra Plant Traits Correspond with Warming-Induced Trait Change
15:45	Le Ge	Seasonal Soil Carbon Emission Responses across a Shrub Cover Gradient in the Low Arctic
16:00	Jennifer Hickman	Seasonal Evolution of Active Layer Formation in Subarctic Peat Plateaux and Implications for Dissolved Organic Matter Composition and Transfer
16:15	Catherine E. Kennedy	Tracking Biodiversity and Climate Change in Yukon's Arctic: A Standardized Vegetation Classification for the Toolkit

Community Health and Well Being 3

Chair: Shelley Tulloch

Room: *Mackenzie*

15:30	Laura Arbour	Red Blood Cell Folate Levels in Canadian Inuit Women of Childbearing Years: Influence of Food Security, BMI, Smoking, Education and Vitamin Use
15:45	Carlee Wright	Drinking Water Consumption Patterns and Changes Over Time in Rigolet, Nunatsiavut
16:00	Shelley Tulloch	Northern Indigenous Men's Engagement in Learning and Work
16:15	Dylan Clark	Environmental Dimensions of Search and Rescue and Injury in Nunavut
16:30	Jukeepa Hainnu	Piqqusilirivvik – Inunguiniq: Becoming a Whole Person

FRIDAY, 11 DECEMBER - 08:30 to 10:00**Traditional Knowledge 2**

Chair: Patricia Johnston

Room: Cypress 1

08:30	Sylvie Blangy	Saami-Inuit Youth Exchange as a Way to Re-awaken an Interest in Caribou Hunting/Reindeer Herding and Sustainable Practices Among Inuit and Sámi Youth
08:45		
09:00	Sara Holzman	Community Engagement in Cape Dorset, Nunavut: A Lesson in Sharing Climate Change Information with Nunavut Communities
09:15		
09:30	Patricia Johnston	Inuit Participation in Northern Research: Learning from Youth Involvement in Nanivara
09:45		

Kitikmeot Region Ecosystems

Chair: Caroline Bouchard

Room: Oak

08:30	Caroline Bouchard	Marine Fish Populations in the Kitikmeot Region
08:45	Brent Else	Emerging Efforts to Study the Marine Carbonate System in the Southern Waterways of the Kitikmeot Region (near Cambridge Bay)
09:00	Julie-Anne Dorval	High Resolution Study of Temporal Variation of Marine Benthos in Cambridge Bay, NU
09:15	Kristina Brown	Geochemical Properties of Permafrost Draining Rivers in the Canadian Arctic Archipelago
09:30	Jean-Sébastien Moore	Integrating Genomic Data and Acoustic Telemetry to Understand Migratory Behaviour of Searun Arctic Char (<i>Salvelinus alpinus</i>)

Arctic Tundra and Vegetation 3

Chair: Jeffery Saarela

Room: Seymour

08:30	Jeffery Saarela	From Spruce to Shore: Subarctic and Low Arctic Vascular Plant Biodiversity of the Lower Coppermine River Valley and Vicinity (Nunavut, Canada)
08:45	Maxime Tremblay	Alluvial Fans Structure the Distribution of the Erect Shrub <i>Salix richardsonii</i> at its Northern Limit of Distribution in the High-Arctic
09:00	Veronika Wright	The Response of Mineral Soil Carbon Reserves when Exposed to Nutrient Addition and Summer Warming Treatments in the Low Arctic Tundra
09:15	Emily Cameron	Ecosystem Recovery after the Abandonment of a Winter Access Road in Nahanni National Park Reserve, NWT

The Scoop on Northern Poop

Chairs: Sherilee Harper, David Goldfarb & Cédric Yansouni

Room: *Mackenzie*

08:30	David Goldfarb	Building a Research Agenda for Arctic Enteric Infections Research
08:45	Cédric Yansouni	Understanding the Epidemiology, Microbiology and Growth Trajectories of Children with Enteric Infections in Nunavik and Nunavut: A Prospective Cohort Study
09:00	Shalini Desai	Molecular Microbiology of Acute Gastroenteritis in Children under 5 years of Age in Nunavut, Canada in 2014/15
09:15	Stan Houston	Locally Acquired Alveolar Echinococcosis in an Immunocompromised Patient in Canada: Clinical Presentation and Epidemiologic Investigation
09:30	Sherilee Harper	Foodborne, Waterborne, and Zoonotic Enteric Disease: EcoHealth Surveillance for Environmental Health

Inuit Education & Language

Chairs: Fiona Walton & Alexander McAuley

Room: *Salon ABC*

08:30	Alexander McAuley	Akuttujuuk: An Inuit Educators' Research Network to Mobilize Knowledge of Bilingual Education
08:45	Shelley Tulloch	Factors Impacting Bilingual Education in Inuit Nunangat
09:00	Geneviève Lalonde	Inuit Culture and Education in Ulukhaktok, NWT
09:15	Sylvia Moore	Revitalizing Inuttitut as Part of a Teacher Education Program in Labrador
09:30	Naullaq Arnaquq	Language Policy in Nunavut

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PLATINUM

THE W. GARFIELD WESTON FOUNDATION

THE W. GARFIELD WESTON FOUNDATION

The W. Garfield Weston Foundation is a private Canadian family foundation established in the 1950's. It directs the majority of its funds to projects in the fields of land conservation, education, neuroscience and science in Canada's North. Since 2007, the Foundation has funded \$15 million to charitable organizations and leading scientists to advance northern science and engage Canadians to learn more about issues facing our fragile North.

ONE OCEAN EXPEDITIONS

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TOPICAL SESSION



NUNAVUT MARINE COUNCIL

Established under the Nunavut Land Claims Agreement, the Nunavut Marine Council provides advice and recommendations to government agencies to inform decision-making for the marine environment, ensuring the ongoing protection and wise use of Nunavut's marine areas for the long-term benefit of Nunavummiut and Canadians.

GRADUATE STUDENT POSTER AWARDS

NASIVVIK

The Nasivvik Centre for Inuit Health and Changing Environments is a multidisciplinary research and training centre funded by the Canadian Institutes of Health Research-Institute of Aboriginal Peoples' Health. The Nasivvik Centre is focused on building capacity in Inuit environmental health research through trainee support, and the provision of targeted research support and facilitation.



PRINCIPAL PARTNERS



Aboriginal Affairs and
Northern Development Canada

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INDIGENOUS AND NORTHERN AFFAIRS CANADA - NORTHERN CONTAMINANTS PROGRAM / AFFAIRES AUTOCHTONES ET DU NORD CANADA - PROGRAMME DE LUTTE CONTRE LES CONTAMINANTS DANS LE NORD

The Northern Contaminants Program (NCP) has been addressing the issue of contaminants in the Arctic for over twenty years. Results of NCP monitoring, research and human health studies are used to support national and global actions on contaminants. The NCP's long-term goal is to reduce and where possible eliminate contaminants in the environment and traditional/country foods while providing Northerners with the information they need to make informed dietary choices.



Polar Knowledge
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Savoir polaire
Canada

POLAR KNOWLEDGE CANADA

Government of Canada agency with a mandate to advance Canada's knowledge of the Arctic and strengthen Canadian leadership in polar science and technology. Comprises a pan-northern science and technology program and the Canadian High Arctic Research Station (Cambridge Bay, Nunavut), to be operational in 2017; undertakes partnerships, coordination, and facilitation.

EXHIBITORS

HOSKIN SCIENTIFIC LIMITED

Hoskin Scientific is a Canadian environmental monitoring instrumentation distributor since 1946 with offices in Vancouver, Burlington, Edmonton and Montreal. We carry an extensive range of products with major emphasis in the following areas: Water Quality, Limnology, Hydrology, Meteorology, Agronomy, Soil Science and Snow Science. We provide sales and service to our clients along with turn-key solutions to meet your environmental application needs. Please stop by our booth for a brochure or visit our website (www.hoskin.ca) for more information.



CAMPBELL SCIENTIFIC (CANADA) CORP.

Campbell Scientific (Canada) Corp.'s extensive provision of meteorological stations in the Arctic has made us a specialist in rugged, robust systems that can last through the polar night. Our dataloggers feature wide operating ranges and dependable stand-alone operation. Snow parameters that can be measured include snow depth, precipitation, and snow water equivalent (SWE).



CANADIAN SPACE AGENCY / AGENCE SPATIALE CANADIENNE

Since its creation in 1989, the Canadian Space Agency has been driving Canada's use and exploration of space, developing space assets, applications and services, as well as enabling space capacity while meeting the nation's strategic priorities and growing needs for scientific knowledge, innovation and information. / Depuis sa création en 1989, l'Agence spatiale canadienne gère les activités du Canada touchant l'exploitation et l'exploration de l'espace, le développement de ressources spatiales, d'applications et de services ainsi que de capacités spatiales. Ces activités visent à répondre aux priorités stratégiques et aux besoins croissants du Canada en matière de connaissances scientifiques, d'innovation et d'information.



Canadian Space
Agency

Agence spatiale
canadienne

OCEAN NETWORKS CANADA

Ocean Networks Canada, a University of Victoria initiative, is an international facility that manages the world's most advanced cabled ocean observatories off the west coast of British Columbia and in the Arctic for the advancement of science and the benefit of Canada.



CANADIAN SCIENCE PUBLISHING

Canadian Science Publishing proudly publishes Arctic Science, an open-access, peer-reviewed journal. An interdisciplinary journal, Arctic Science publishes original peer-reviewed research from all areas of natural science and applied science & engineering related to northern Polar Regions.



Natural Resources
Canada

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Canada

POLAR CONTINENTAL SHELF PROGRAM (PCSP)

PCSP coordinates logistics for scientists working in Canada's North. PCSP provides safe and efficient services including coordination of air transportation to and from field camps; equipment; fuel; accommodations and working space in Resolute, Nunavut; and a communications network linking PCSP with fly camps.

THE ARCTIC INSTITUTE OF NORTH AMERICA

The Arctic Institute of North America (AINA), University of Calgary, is mandated to advance the study of the circumpolar Arctic through the natural and social sciences, the arts, and the humanities. AINA publishes the interdisciplinary journal ARCTIC, operates the network-enabled platform ArcticConnect and the Arctic Science and Technology Information System (ASTIS), and maintains the Kluane Lake Research Station.



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We create instruments to measure the blue planet. From the ocean abyss to the polar ice cap, our sensors track water parameters – temperature, depth, salinity, dissolved gases, pH, and many others. With design and manufacturing centrally located in Ottawa, our team works in a fast-paced, dynamic atmosphere to serve customers from all corners of the globe.

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CANADIAN SCIENTIFIC SUBMERSIBLE FACILITY

The Canadian Scientific Submersible Facility operates the Remotely Operated Platform for Ocean Sciences (ROPOS). ROPOS is known as the world's most capable scientific submersible for its versatility, efficiency, and operators; from deep-sea hydrothermal vent exploration to the deployment and maintenance of ocean observatories. ROPOS has 30 years of global collaboration with thousands of ocean scientists, engineers, and students.

ROPOS
Canadian Scientific Submersible Facility

Students on Ice is an award-winning organization offering unique educational expeditions to the Antarctic and the Arctic. Our mandate is to educate the world's youth about the importance of the Polar Regions, support their continued growth and inspire and catalyze initiatives that contribute to global sustainability.



ATS Services Ltd, as a leading provider meteorological services across the Arctic, employs an extensive network of aviation weather observer/communicators, aerological observers, and meteorological instructors. ATS also specializes in meteorological instrumentation by partnering with several world-class sensor manufacturers allowing ATS to offer meteorological solutions ranging from basic monitoring to fundamental research.



The mandate of the Aurora Research Institute is to use scientific, technological, and indigenous knowledge to solve northern problems and advance social and economic goals. We license, support, and conduct research in the Northwest Territories out of our three regional research centres in Inuvik, Fort Smith and Yellowknife.



Inuit Tapiriit Kanatami is the national voice of 60,000 Canadian Inuit living predominantly in the Arctic regions of Nunavut, Nunavik (Northern Quebec), Nunatsiavut (Northern Labrador) and the Inuvialuit Settlement Region of the Northwest Territories. ITK represents the interests of Inuit on a wide variety of issues at the national level.



In February 2012, the Eeyou Marine Region Land Claims Agreement (EMRLCA) came into force. Under this agreement, the following three entities are responsible for various aspects of its implementation: Eeyou Marine Region Wildlife Board (EMRWB), Eeyou Marine Region Planning Commission (EMRPC), and Eeyou Marine Region Impact Review Board (EMRIRB).



KONGSBERG MARITIME

Kongsberg Maritime is an international technology company that delivers advanced, reliable solutions for extreme conditions. Kongsberg products include Autonomous Underwater Vehicles (AUVs) as well as systems and sensors for: fisheries research, seabed surveys, subsea imaging, surveillance, simulation, and commercial fishing.



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**Polar Knowledge
Canada**

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THE NUNAVUT CLIMATE CHANGE CENTRE

The Nunavut Climate Change Centre (NC3) is a web-based climate change resource centre intended to provide current climate change information relevant to Nunavummiut. It was developed by the Government of Nunavut's (GN) Department of Environment. Our goal is to share and distribute climate change knowledge and research in Nunavut.



YUKON RESEARCH CENTRE

Yukon Research Centre (YRC) is solving northern problems with northern expertise. We work in partnership with industry, government, First Nations, communities, and entrepreneurs to improve the lives of Northerners. Our in-house experts and connections across the circumpolar north allow us to answer your research questions and meet your innovation needs.



YUKON RESEARCH CENTRE
Yukon College

ROMOR

ROMOR works together with the scientists, engineers, government, academic institutions and private firms in ocean technologies. As a reliable supplier to the specialized industry of marine and ocean technology for more than 30 years, the staff at ROMOR are ocean application specialists. By partnering with world renowned manufacturers, ROMOR is able to offer technical knowledge, value added services, logistics expertise.

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INDIGENOUS AND NORTHERN AFFAIRS CANADA - NORTHERN CONTAMINANTS PROGRAM / AFFAIRES AUTOCHTONES ET DU NORD CANADA - PROGRAMME DE LUTTE CONTRE LES CONTAMINANTS DANS LE NORD

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THE INSTITUT NORDIQUE DU QUÉBEC

The Institut nordique du Québec (INQ) brings together Quebec's leading researchers to crystallize the latest research findings and expertise in order to provide governments and northern communities the knowledge and know-how they need for the sustainable development of Northern Quebec and the Canadian Arctic. The INQ's founding partners are Université Laval, Institut national de recherche scientifique (INRS), and McGill University.



THE W. GARFIELD WESTON

— F O U N D A T I O N —

W. Garfield Weston Awards for Northern Research 2015-2016

Postdoctoral Fellows

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Rachel ten Bruggencate
Marie-Andrée Giroux
Kathryn Hargan
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Ellorie McKnight
Jill Rajewicz
Sarah Shakil
Elizabeth Wrona

The W. Garfield Weston Foundation is the largest private funder of northern research in Canada.

The Foundation champions northern research, raising the profile of northern science and positioning Canadian scientists to contribute in ways that are pertinent, timely and innovative.

EXPEDITION CRUISING IS WHAT WE DO. SUPPORTING SCIENCE, BECAUSE WE CAN.

CURRENTLY ACCEPTING PROPOSALS.



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NORTH AMERICA: 1.855.416.2326

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Aboriginal Affairs and
Northern Development Canada

Affaires autochtones et
Développement du Nord Canada

NORTHERN CONTAMINANTS PROGRAM



*

*A Proud Partner of the 2015 ArcticNet
Annual Scientific Meeting*

- The Northern Contaminants Program (NCP) engages Northerners and scientists in research and monitoring of long-range contaminants in the Canadian Arctic
- The NCP is now accepting funding proposals for 2016-2017 with a submission deadline of January 12, 2016

Canada

THE 4TH ANNUAL ARCTIC INSPIRATION PRIZE AWARDS CEREMONY

HONOURING THE 2015
LAUREATES OF THE **\$1 MILLION**
ARCTIC INSPIRATION PRIZE

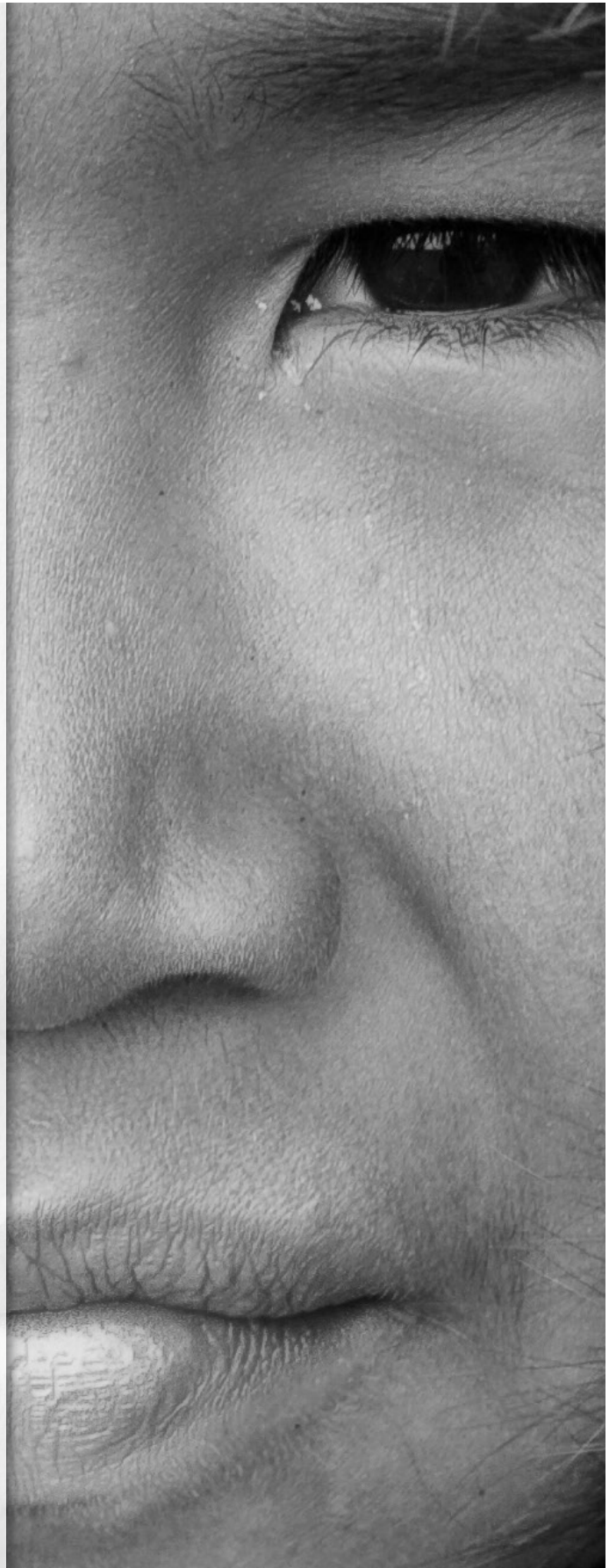
HOSTED BY **PETER MANSBRIDGE**

Held in conjunction with **Northern Lights
2016** and featuring a performance by
northern artists Tanya Tagaq,
Laakkuluk Williamson Bathory, Christine
Duncan and the Nunavut Sivuniksavut choir

SHAW CENTRE, CANADA HALL
OTTAWA, ONTARIO

WEDNESDAY, JANUARY 27 2016
FROM 8:00 PM - 9:30 PM

WWW.ARCTICINSPIRATIONPRIZE.CA



POLAR KNOWLEDGE CANADA

*Advancing Canada's
Knowledge of the Arctic
and Strengthening
Canadian Leadership
in Polar Science
and Technology*

Photo: D. McLennan



Photos left to right: Katrina O'Kane, D. McLennan, Katrina O'Kane, Katherine Wilson, Katrina O'Kane

Pan-Northern Science and Technology Program

A world-class science and technology program supporting and carrying out research. Current priorities (2015–2019):

- Alternative and renewable energy for the North
- Predicting the impacts of changing ice, permafrost, and snow on shipping, infrastructure, and communities
- Baseline information and monitoring to prepare for development
- Undertaking research and technology development to improve Northern infrastructure design and to lower its cost in order to provide new approaches for resource and community development
- Underwater situational awareness and associated marine research

Research on additional topics can also be supported.

Partnerships, Coordination, Facilitation

- Promoting the development of polar knowledge and supporting outreach and communication
- Fostering partnerships and collaboration across international organizations and research networks, federal government science-based departments and agencies, provincial and territorial governments, Aboriginal and northern organizations, industry, academia and the private sector
- Coordinating opportunities to share research and knowledge

Pan-Northern
Science &
Technology
Program

Partnerships,
Coordination,
Facilitation

The Canadian
High Arctic
Research Station
(CHARS)

The Canadian High Arctic Research Station (CHARS)

- A world-class facility in Cambridge Bay, Nunavut
- Supporting science and technology, anchoring the existing network of regional facilities distributed across the North
- Currently under construction, the station will be operational by 2017

Social Media:

- Facebook: www.facebook.com/PolarKnowledge
- Twitter: [@POLARCanada](https://twitter.com/POLARCanada)

Website:

www.canada.ca/en/polar-knowledge/index.html

Contact Us:

Email: info@polar-polaire.gc.ca



Polar Knowledge
Canada

Savoir polaire
Canada

Canada

BREAKFAST OPTIONS

At the Westin Bayshore:

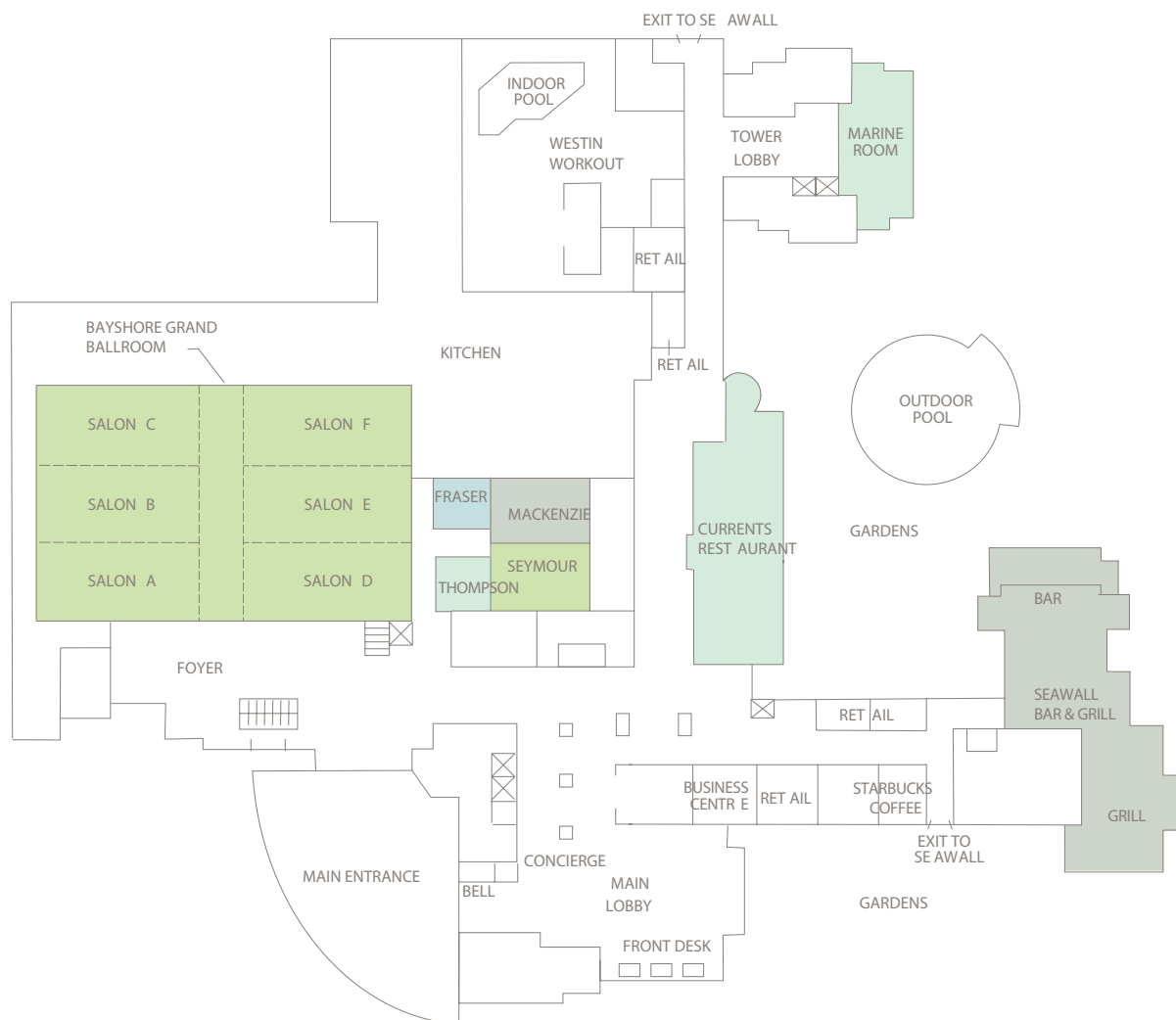
- Currents at Bayshore – from 6:30 am (from \$18 to \$28)
- Starbucks - from 6:00 am

In Vancouver:

- White Spot: 1616 West Georgia St. (between Bidwell and Cardero St.) – from 6:30 am
- Café Villaggio: 1506 Coal Harbour Quay (between Cardero and Nicola) – from 7:00 am
- Take Five Café (Coal Harbour): 683 Nicola St. (corner of Pender) – from 7:00 am
- Urban Fare: 305 Bute Street (between West Hastings and Cordova) – from 7:00 am
- Subway: 1725 Robson St. (between Denman and Bidwell) – from 7:00 am
- McDonald's: 1701 Robson St. (corner of Bidwell) – open 24 hrs

THE WESTIN BAYSHORE

Lobby Level



Coffee breaks: Salon DEF and foyer

Exhibits: Salon DEF and foyer

Media room: Thompson

Plenaries: Salon ABC

Posters: Salon DEF

Registration: Foyer

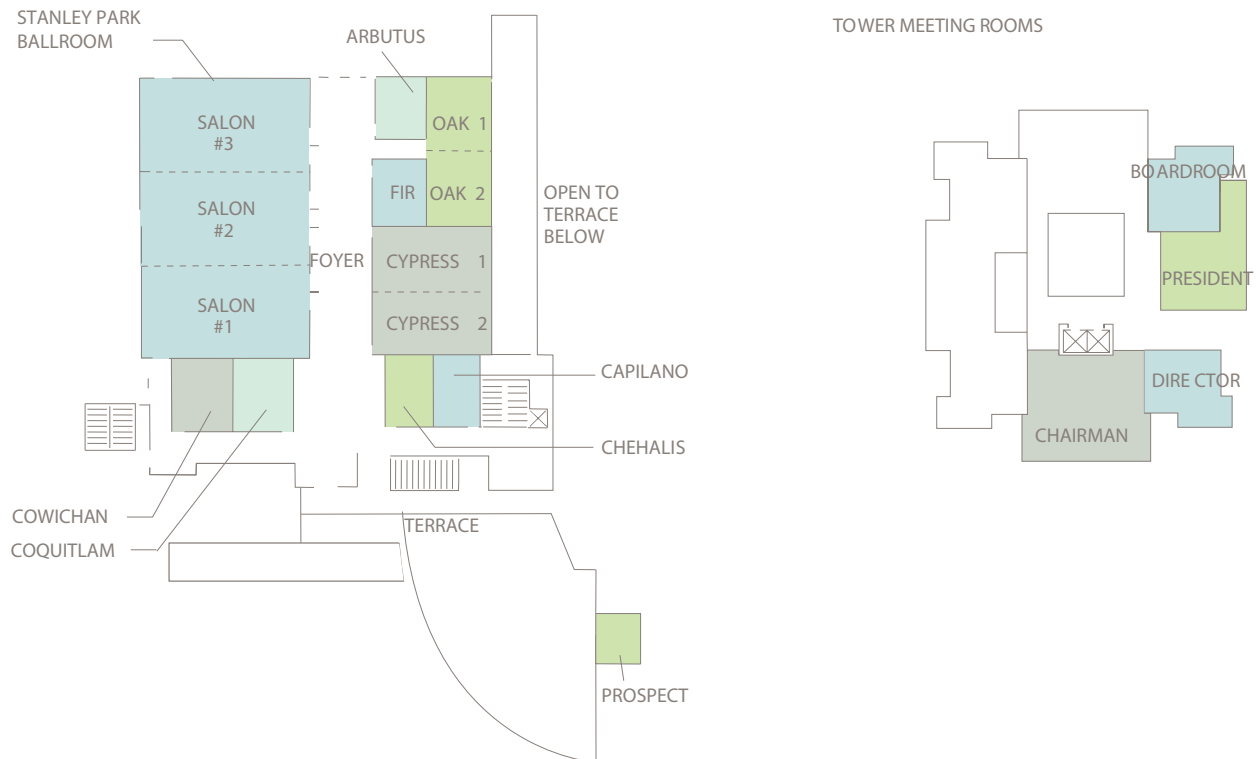
Student Day: Salon ABC

Student Day workshops: Salon ABC, Seymour and Mackenzie

Topical Sessions: Marine, Mackenzie and Seymour

THE WESTIN BAYSHORE

Second Floor



Lunches: Stanley Park Ballroom

Speaker Ready Room: Chehalis

Student Day workshops: Oak

Topical Sessions: Oak, Cypress 1, Cypress 2