

# ArcticNet

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## ANNUAL SCIENTIFIC MEETING

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RÉUNION  
SCIENTIFIQUE  
ANNUELLE

## PROGRAMME

**ASM2019**

Halifax Convention Centre  
Halifax, Canada  
December 2 - 5, 2019

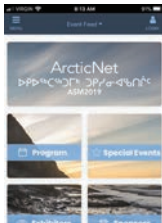


## WIFI

**Network : Halifax Convention Centre**

**Access Code : ASM2019**

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## ASM2019 ANNUAL SCIENTIFIC MEETING

Building on the success of its previous Annual Scientific Meetings (ASM) and International Arctic Change Conferences, the ArcticNet Network of Centres of Excellence is proud to host its 15th ASM at the Halifax Convention Centre in Halifax, Canada, from December 2-5, 2019. This ASM2019 will welcome researchers, students, Inuit, Northerners, policy makers and stakeholders to address the numerous environmental, social, economical and political challenges and opportunities that are emerging from climate change and modernization in the North. As the largest annual Arctic research gathering held in Canada, ArcticNet's ASM is the ideal venue to showcase results from all fields of northern research, stimulate discussion, and foster collaborations among those with a vested interest in the North.



UNIVERSITÉ  
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uOttawa

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# PROGRAMME AT A GLANCE

MONDAY, 2 DECEMBER	TUESDAY, 3 DECEMBER	WEDNESDAY, 4 DECEMBER	THURSDAY, 5 DECEMBER
10:00 - 10:30 Coffee break <i>(Ballroom Pre-function Area)</i>	08:30 - 10:00 <b>Opening Plenary</b> <i>(Ballroom B3)</i>	08:30 - 09:45 <b>Topical Session</b>	08:30 - 09:45 <b>Topical Session</b>
10:30 - 12:00 <b>Student Day</b> <i>(Ballroom B3)</i>	10:00 - 10:30 Coffee break <i>(Ballroom B1-B2)</i>	09:45 - 10:15 Coffee break <i>(Ballroom B1-B2)</i>	09:45 - 10:15 Coffee break <i>(Ballroom B1-B2)</i>
12:00 - 13:00 <b>Lunch</b> <i>(Convention Hall)</i>	10:30 - 11:45 <b>Topical Session</b>	10:15 - 11:45 <b>Plenary</b> <i>(Ballroom B3)</i>	10:15 - 11:45 <b>Plenary</b> <i>(Ballroom B3)</i>
13:00 - 15:00 <b>Student Day</b> <i>(Ballroom B3)</i>	11:45 - 13:00 <b>Lunch</b> <i>(Convention Hall)</i>	11:45 - 13:00 <b>Lunch</b> <i>(Convention Hall)</i>	11:45 - 13:00 <b>Lunch</b> <i>(Convention Hall)</i>
15:00 - 15:30 Coffee break <i>(Ballroom Pre-function Area)</i>	13:00 - 14:15 Networking Event <i>(Ballroom B1-B2)</i>	13:00 - 13:15 Public Launch of SIKU: The Indigenous Knowledge Social Network <i>(Ballroom B3)</i>	13:00 - 14:15 <b>Topical Session</b>
15:30 - 17:00 <b>Student Day</b> <i>(Ballroom B3)</i>	14:15 - 15:30 <b>Topical Session</b>	13:15 - 14:15 Networking Event <i>(Ballroom B1-B2)</i>	14:15 - 14:45 Coffee break <i>(Ballroom B1-B2)</i>
17:30 - 19:30 Inuit Culture Night <i>(Ballroom B1-B2)</i>	15:30 - 16:00 Coffee break <i>(Ballroom B1-B2)</i>	14:15 - 15:30 <b>Topical Session</b>	14:45 - 16:00 <b>Topical Session</b>
	16:00 - 17:15 <b>Topical Session</b>	15:30 - 16:00 Coffee break <i>(Ballroom B1-B2)</i>	16:00 - 18:00 Networking Event & Happy Hour <i>(Ballroom B1-B2)</i>
	17:15 - 19:00 Poster Session <i>(Ballroom B1-B2)</i>	16:00 - 17:15 <b>Topical Session</b>	17:45 - 19:00 POLAR & Canadian Museum of Nature- Northern Science Award <i>(Convention C5)</i>
	20:00 Screening of Hunting with my Ancestor (Isuma Productions) <i>(Ballroom B-3)</i>	17:15 - 19:00 Poster Session <i>(Ballroom B1-B2)</i>	19:00 - 23:00 Banquet Ceremony <i>(Convention Hall)</i>



# GENERAL CONFERENCE PROGRAMME

## Monday, 2 December (Student Day)

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10:00 - 10:30	Coffee break ( <i>Ballroom Pre-function Area</i> )
10:30 - 12:00	<b>Student Day</b> ( <i>Ballroom B3</i> )
12:00 - 13:00	Lunch ( <i>Convention Hall</i> )
13:00 - 15:00	<b>Student Day</b> ( <i>Ballroom B3</i> )
15:00 - 15:30	Coffee break ( <i>Ballroom Pre-function Area</i> )
15:30 - 17:00	<b>Student Day</b> ( <i>Ballroom B3</i> )
17:30 - 19:30	Inuit Culture Night ( <i>Ballroom B1-B2</i> )

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# GENERAL CONFERENCE PROGRAMME

## Tuesday, 3 December

8:30 - 10:00	<b>Opening Plenary</b> ( <i>Ballroom B3</i> ) <ul style="list-style-type: none"><li>• Welcome from ArcticNet Directorate Opening remarks <b>Yvonne Jones</b>, <i>Member of Parliament, Labrador</i></li><li>• Climate Change Crisis and Opportunity in the Arctic: Reflections on the Findings of the Recent Intergovernmental Panel on Climate Change's Special Report on Ocean and Cryosphere <b>C. Derksen</b>, <i>Research Scientist, Environment and Climate Change Canada</i> <b>S. Harper</b>, <i>Associate Professor, University of Alberta</i> <b>S. Meakin</b>, <i>Senior Science Advisor, Inuit Circumpolar Council Canada</i></li></ul>
10:00 - 10:30	Coffee Break ( <i>Ballroom B1-B2</i> )
10:30 - 11:45	<b>Topical Sessions</b>
11:45 - 13:00	Lunch ( <i>Convention Hall</i> )
13:00 - 14:15	Networking Event ( <i>Ballroom B1-B2</i> )
14:15 - 15:30	<b>Topical Sessions</b>
15:30 - 16:00	Coffee Break ( <i>Ballroom B1-B2</i> )
16:00 - 17:15	<b>Topical Sessions</b>
17:15 - 20:00	Poster Session ( <i>Ballroom B1-B2</i> )
20:00	Screening of <i>Hunting with my Ancestor</i> - Isuma Productions ( <i>Ballroom B-3</i> )

# GENERAL CONFERENCE PROGRAMME

## Wednesday, 4 December

8:30 - 9:45	<b>Topical Sessions</b>
9:45 - 10:15	Coffee Break ( <i>Ballroom B1-B2</i> )
10:15 - 11:45	<b>Plenary</b> ( <i>Ballroom B3</i> ) <ul style="list-style-type: none"><li>ArcticNet's New North by North Research Program: Research in the North, by the North, and for the North <b>Jackie Dawson</b>, Professor and holder of the Canada Research Chair in Environment, Society and Policy, University of Ottawa, ArcticNet Co-scientific director <b>Brian Horton</b>, Manager, Northern Climate ExChange, Yukon Research Centre <b>Pippa Seccombe-Hett</b>, Vice President Research, Aurora College <b>Mary-Ellen Thomas</b>, Senior Research Officer, Nunavut Research Institute, Nunavut Arctic College <b>Alexa Reedman</b>, North by North Coordinator, ArcticNet <b>Members of the Inuit Advisory Committee</b></li><li>Discussing the Arctic's Value: A Blue Economic Future for a Peripheral Region <b>Andreas Raspotnik</b>, Senior Fellow, Leadership Group, The Arctic Institute</li></ul>
11:45 - 13:00	Lunch ( <i>Convention Hall</i> )
13:00 - 13:15	Public Launch of SIKU: The Indigenous Knowledge Social Network ( <i>Ballroom B3</i> )
13:15 - 14:15	Networking Event ( <i>Ballroom B1-B2</i> )
14:15 - 15:30	<b>Topical Sessions</b>
15:30 - 16:00	Coffee Break ( <i>Ballroom B1-B2</i> )
16:00 - 17:15	<b>Topical Sessions</b>
17:15	Poster Session ( <i>Ballroom B1-B2</i> )

# GENERAL CONFERENCE PROGRAMME

## Thursday, 5 December

8:30 - 9:45	<b>Topical Sessions</b>
9:45 - 10:15	Coffee Break ( <i>Ballroom B1-B2</i> )
10:15 - 11:45	<b>Plenary</b> ( <i>Ballroom B3</i> ) <ul style="list-style-type: none"><li>• Weston Family Prize for Lifetime Achievement in Northern Research</li><li>• IRIS 3 Launch: The Integrated Regional Impact Study (IRIS) and the future of research in the Greater Hudson Bay Marine Region <b>Zou Zou Kuzyk</b>, <i>Assistant Professor, University of Manitoba -Centre for Earth Observation Science</i> <b>Lauren Candlish</b>, <i>Senior Research Manager, University of Manitoba</i></li><li>• United Kingdom and Canada: Arctic Research Connections, Successes and New Opportunities <b>Henry Burgess</b>, <i>Head of Arctic Office, Natural Environment Research Council, British Antarctic Survey</i></li></ul>
11:45 - 13:00	Lunch ( <i>Convention Hall</i> )
13:00 - 14:15	<b>Topical Sessions</b>
14:15 - 14:45	Coffee Break ( <i>Ballroom B1-B2</i> )
14:45 - 16:00	<b>Topical Sessions</b>
16:00 - 18:00	Networking Event & Happy Hour ( <i>Ballroom B1-B2</i> )
17:45 - 19:00	POLAR- Canadian Museum of Nature 'Tales from the Field' cocktail hour, featuring the presentation of POLAR's Northern Science Award ( <i>Convention C5</i> )
19:00 - 23:00	Banquet Ceremony ( <i>Convention Hall</i> )



# TOPICAL SESSION PROGRAMME

## Tuesday, 3 December - 10:30 to 11:45

### WM02 - SUSTAINABLE HARVESTING IN NUNAVUT: COMMUNITY ADAPTATION IN A RAPIDLY CHANGING ENVIRONMENT AND SOCIO-ECONOMIC LANDSCAPE

Chairs: Stephan Schott, Virginia Walker

**Room: 106-107**

10:30	Duncan Warltier	A novel wild food valuation framework using local retail replacement costs in Nunavut
10:45	Stephan Schott	Sustainable Harvesting and Country Food Distribution in a Changing Society and Landscape
11:00	Amos Hayes	Who Is Out? Up to the Minute Monitoring and Sharing for Hunter Safety, Youth Engagement, and Harvest Study Using Nunaliit
11:15	Virginia Walker	Nutritious and delicious: healthy Arctic char and whitefish as a basis for sustainable fisheries for Gjoa Haven?
11:30	Peiwen Li	Fine-scale genetic structure in anadromous Arctic char in Lower Northwest Passage: Genomic insights for a sustainable fishery

### NDP06. OPPORTUNITIES FOR NORTH-AMERICAN ARCTIC (NAA) RESEARCH INFRASTRUCTURE AND SUPPORT COORDINATION: BENEFITS OF AN NAA COLLABORATIVE RESEARCH NETWORK

Chairs: Richard Dewey, Maia Hoberechts

**Room: 108**

10:30 - 11:45	Jasper Hardesty LeeAnn Fishback Maribeth Murray	Panel
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### MCS03 - TOWARDS AN IMPROVED UNDERSTANDING OF COASTAL AND NEARSHORE OCEANOGRAPHY, HABITATS AND ENVIRONMENTAL CHANGES

Chairs: Virginie Galindo, Zou Zou Kuzyk

**Room: 109**

10:30	Jade Falardeau	Impacts of Recent Climate Change in the Coastal Area of Northern Yukon Based on Benthic Foraminifera
10:45	Emmanuel Devred	Decadal changes in phytoplankton ice-edge blooms of the Arctic Ocean: a satellite perspective
11:00	Erin Bertrand	From ice to ocean: Understanding the impacts of melting glaciers on marine biogeochemistry in Jones Sound
11:15	Leif Anderson	Primary production in the East Siberian Sea as deduced from hydrography
11:30	Laura Dalman	Response of microalgal communities to a seasonal freshwater gradient in southwestern Hudson Bay, Canada

## Tuesday, 3 December - 10:30 to 11:45 *(continued)*

### TPI01 - PERMAFROST THAW - IMPROVED UNDERSTANDING, PREDICTION AND ADAPTATION

Chairs: Stephan Gruber, Christopher Burn

**Room: 603-604**

10:30	Adam Kirkwood	Assessing the relationship between permafrost thermal regime and the temperature sensitivity of greenhouse gas production
10:45	Kristine Haynes	The role of hummock microtopography as transitional features in the changing discontinuous permafrost landscape
11:00	Geoffrey Kershaw	Distinguishing alpine valley terrain types based on surface and subsurface hydrological parameters
11:15	Brenden Disher	Characterizing the transitional role of treed bogs on the hydrology of a discontinuous permafrost peatland basin, NWT
11:30	Stephanie Coulombe	Development of thermokarst lakes in Arctic landscapes underlain by buried glacier ice

### KPM03 - COMMUNICATING ARCTIC SCIENCE

Chairs: Dustin Whalen, Paul Sokoloff

**Room: 609**

10:30	Tara Mascarenhas	The Canada C3 Science Program - communicating the work of 13 institutions, 23 projects, 40 scientists, 150 days and hundreds of samples
10:45	Mikhaela Neelin	Communication strategies for effective adaptation to new wildlife in Nunavik
11:00	Caroline Dubois	Connecting diverse water monitoring initiatives through DataStream's open data platform
11:15	Emma Garden	Expanding the Geographic Coverage of the Canadian Aquatic Biomonitoring Network in Canada
11:30	Talia Wells	After the Ice Age: Studying the effects of federal media policy changes on Northern science communication and the Canadian science-to-policy interface during the Harper era

### IT01 - INNOVATIVE TECHNOLOGIES IN A CHANGING NORTH

Chairs: Marcel Babin, Katja Fennel

**Room: 611**

10:30	Sylvain Christin	Listening to the clocks of circumpolar birds using autonomous recorders and deep learning
10:45	Laura Neary	Use of Continuous Lake Level Measurements for Hydrological Monitoring of a Complex Northern Freshwater Landscape
11:00	Eric Rehm	A multispectral pulsed laser line scanning subsea LiDAR for studying Arctic benthic macroalgae and ice-bottom microalgae with AUVs
11:15	Heather Ward	A trial of PlanetScope constellation satellites for ecosystem-wide mapping of Arctic eelgrass
11:30	Peter Pulsifer	The Canadian Consortium for Arctic Data Interoperability: a network and platform for ethically sharing data across scales

## Tuesday, 3 December - 10:30 to 11:45 *(continued)*

### FSH01 - THE CHANGING ARCTIC OCEAN & COMMUNITY HEALTH

Chairs: Tiff-Annie Kenny, Matthew Little

Room: 612-613

10:30	Sara Pedro	Using ecosystem modelling to foster sustainability of marine harvest and food security in coastal communities of the Canadian Arctic facing climate change
10:45	Catherine Van Doorn	Does the Changing Ice Dynamic in the Arctic Influence the Nutritional Value of the Benthic Food Web in Nunavik, Canada?
11:00	Tiff-Annie Kenny and Matthew Little	Bridging Ocean and Health Science in the Arctic: Concepts, complexity and Collaboration

## Tuesday, 3 December - 14:15 to 15:30

### WM03 - KNOWLEDGE MOBILIZATION FOR WILDLIFE CO-MANAGEMENT IN INUIT NUNANGAT

Chairs: Lisa Loseto, Tristan Pearce, Kaitlin Breton Honeyman

Room: 106-107

14:15	Mark Basterfield	From mandate to method: bringing Inuit Knowledge into wildlife management under a co-management system
14:30	Mirjam Held	Barriers and enablers of mobilizing Inuit knowledge in fisheries co-management in Nunavut
14:45	Kevin Scharffenberg	Upriver displacement of belugas: Knowledge co-production on linking environmental drivers of beluga movement
15:00	Lisa Loseto	Beluga ( <i>Delphinapterus leucas</i> ), qilalukkaq mortalities in the Eastern Beaufort Sea: What happened?

### BCR01 - COMMUNITY-BASED MONITORING RESEARCH LED, DRIVEN AND DELIVERED BY NORTHERNERS

Chairs: Jen Lam, Amy Amos

Room: 108

14:15	Amy Amos	The importance of continuous dialogue in community-based wildlife monitoring: case studies of dzan and tuk dagaii in the Gwich'in Settlement Area
14:30	Édouard Bélanger	Community-based monitoring and research implemented and led by Northerners in the Gwich'in Settlement Area, NWT: The Divii (Dall's Sheep) Research Project
14:45	Emily Way-Nee	Working group model for fisheries co-management: Examples from the western Canadian Arctic
15:00	Charlotte Irish	The Tuktoyaktuk Community Climate Resilience Project
15:15	Robert Way	Enhanced climate and weather monitoring in Nunatsiavut and NunatuKavut

## Tuesday, 3 December - 14:15 to 15:30 *(continued)*

### MCS03 - TOWARDS AN IMPROVED UNDERSTANDING OF COASTAL AND NEARSHORE OCEANOGRAPHY, HABITATS AND ENVIRONMENTAL CHANGES

Chairs: Virginie Galindo, Zou Zou Kuzyk

**Room: 109**

14:15	Jean-Éric Tremblay	The NTRAIN project: resolving marine nutrient transports to assess the biological carrying capacity of the Canadian Arctic
14:30	Kasey Cameron-Bergeron	Nutritive qualities of marine microalgae in Nunavik
14:45	Vincent Marmillot	Algal lipid synthesis varies in response to temperature and pH in the Canadian Arctic and subarctic
15:00	Guillaume Bridier	Food-web structure of benthic soft-bottom communities exposed to a freshwater input gradient in a high-arctic fjord (Young Sound, Greenland)
15:15	Brigitte Leblon	Eelgrass, water turbidity and forest fire as seen from Landsat and UAV images: a case study in Eeyou Istchee

### TPI01 - PERMAFROST THAW - IMPROVED UNDERSTANDING, PREDICTION AND ADAPTATION

Chairs: Stephan Gruber, Christopher Burn

**Room: 603-604**

14:15	Alexandre Chiasson	Thermal contraction crack polygons in Nunavik : investigation of polygonal patterns development
14:30	Samuel Gagnon	Active layer variations explaining 25 years of ice-wedge degradation
14:45	Élise Devoie	Predicting the Future of Permafrost: an Efficient Interface Model of Soil Freeze-Thaw
15:00	Alireza Saidi-Mehrabad	Soil chemistry, not age, is the primary driving factor correlated to differences in Pleistocene and Holocene aged permafrost microbiomes
15:15	Yifeng Wang	Trajectories of Frozen Ground Following Forest Fire in Nunatsiavut, NL

### KPM03 - COMMUNICATING ARCTIC SCIENCE

Chairs: Dustin Whalen, Paul Sokoloff

**Room: 609**

14:15	Jennifer Bates	The Story of the Beaufort Coast - Developed through shared communication
14:30	Lucette Barber	Expedition Churchill: A Gateway to Arctic Research - An innovative partnerships in science communication and education
14:45	Melanie Flynn	Knowledge mobilization on the land: An evaluation of a land-based result sharing workshop in Nain, Nunatsiavut
15:00	Brendan Kelly	Harnessing Indigenous, Scientific, and Policy Expertise in a Changing Arctic



## Tuesday, 3 December - 14:15 to 15:30 *(continued)*

### IT02. - SESSION: AUTONOMOUS SAMPLING OF THE ARCTIC MARINE SYSTEM - ARE WE SMART ENOUGH TO HANDLE THE DATA?

Chairs: Jørgen Berge, Christian Katlein, Marcel Babin, Sørensen Asgeir

**Room: 611**

14:15	Jørgen Berge	Light pollution from a ship and the need for autonomous platforms
14:30	Malin Daase	Using saildrone-mounted echosounder to study zooplankton distribution patterns: potentials and limitations
14:45	Øyvind Ødegård	Shipwrecks in the Arctic - knowledge gaps illustrated by a case from Svalbard
15:00	Kjetil Skaugset	Cooperation of heterogeneous sensor platforms

### NDP08 - SUSTAINABLE OBSERVING: EXAMINING THE LOGISTICS AND INFRASTRUCTURE REQUIRED FOR LONG-TERM RESEARCH IN A CHANGING ARCTIC

Chairs: Megan Jones, Peter Pulsifer, Forest Banks

**Room: 612-613**

14:15 - 15:30	Peter Pulsifer LeeAnn Fishback Nagruk Harcharek Francis Wiese Rommel Zulueta	Panel
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## Tuesday, 3 December - 16:00 to 17:15

### WM03 - KNOWLEDGE MOBILIZATION FOR WILDLIFE CO-MANAGEMENT IN INUIT NUNANGAT

Chairs: Lisa Loseto, Tristan Pearce, Kaitlin Breton Honeyman

**Room: 106-107**

16:00	Rosemin Nathoo	Knowledge mobilization by wildlife co-management in the Inuvialuit Settlement Region
16:15	Laurence Carter	Project co-development addressing community concerns over reintroduced muskox habitat use
16:30	Jeremy Brammer	Multi-decadal change in furbearer densities and habitat use in the Mackenzie Delta, Northwest Territories
16:45	Stephen Loughheed	Genomic approaches for non-invasive, scat-based monitoring of polar bears
17:00	Douglas Clark	Bear-human conflict as an organizing focus for community-based wildlife monitoring

## Tuesday, 3 December - 16:00 to 17:15 *(continued)*

### BCR01 - COMMUNITY-BASED MONITORING RESEARCH LED, DRIVEN AND DELIVERED BY NORTHERNERS

Chairs: Jen Lam, Amy Amos

**Room: 108**

16:00	Chloe Brogan	Inuvialuit Settlement Region - Community Based Monitoring Program
16:15	Cassandra Elliott	Inuvialuit Cultural Life Out On The Land
16:30	Jody Illasiak	Local Roots for MPA Management
16:45	Gila Somers	Collaborations to strengthen and sustain community-based water monitoring and results sharing in the Northwest Territories
17:00	Jade Owen	Community-based coastal restoration in Nunavut

### MCS03 - TOWARDS AN IMPROVED UNDERSTANDING OF COASTAL AND NEARSHORE OCEANOGRAPHY, HABITATS AND ENVIRONMENTAL CHANGES

Chairs: Virginie Galindo, Zou Zou Kuzyk

**Room: 109**

16:00	Christopher Peck	Hydrographical Variations in the Under-Ice River Plume of the La Grande River and influence on salinity at James Bay Eelgrass Beds
16:15	Jens Ehn	A winter to summer timeseries of photosynthetically active radiation at eelgrass beds in eastern James Bay
16:30	Amélie Evrard	Freshwater sources and characteristics of chromophoric dissolved organic matter (CDOM) along the coast of eastern James Bay
16:45	Virginie Galindo	Interannual and spatial dynamics of microbial communities along eastern James Bay
17:00	Mary O'Connor	The Ecology and Current Status of Eelgrass in James Bay, Quebec

### TPI01 - PERMAFROST THAW - IMPROVED UNDERSTANDING, PREDICTION AND ADAPTATION

Chairs: Stephan Gruber, Christopher Burn

**Room: 603-604**

16:00	Tristan Gingras-Hill	Thermokarst Mapping Collective
16:15	Joseph Young	Recent acceleration of thaw-driven mass-wasting in the central Mackenzie Mountain foothills is intensified by decadal-scale forest fire conditioning
16:30	Olivia Carpino	The trajectory of permafrost environments in northwestern Canada's discontinuous permafrost zone
16:45	Ela Mastej	An Experimental Study of the Natural and Artificially Enhanced Ground Cooling Capacity in the Zone of Discontinuous Permafrost, Scotty Creek , Northwest Territories
17:00	Rosy Tutton	Remote Multi-Variable Monitoring of Annual Snow Depth

## Tuesday, 3 December - 16:00 to 17:15 (continued)

### KPM02 - PARTICIPATORY MAPPING IN NORTHERN RESEARCH AND DECISION-MAKING

Chairs: Natalie Carter, Gita Ljubicic

Room: 609

16:00	Andrea Hanke	Behaviour, abundance, and health: Learning about Dolphin and Union caribou with place-based knowledge from 2003
16:15	Breanna Bishop	Documenting Inuit knowledge of coastal oceanographic features in Nunatsiavut
16:30	Lynn Peplinski	What's in a Name? Official and "Pending" Place Naming in Nunavut

### IT03 - APPLICATIONS OF UNDERWATER ACOUSTICS IN ARCTIC STUDIES

Chairs: Bruce Martin, Heloise Frouin-Mouy et Melanie Austin

Room: 611

16:00	Marina Antipina	The development of a community-based monitoring program to monitor changing animal distributions, shipping, ice cover and ocean temperature and salinity in the Canadian Arctic
16:15	Emmanuelle Cook	Arctic ambient noise measurements from a real time observatory
16:30	Heloise Frouin-Mouy	Airborne and underwater acoustic repertoire of hooded seals ( <i>Cystophora cristata</i> ): new perspectives for population monitoring
16:45	Vladislav Petrusevich	Diel vertical migration of zooplankton in the Arctic marine environments

### NDP02 - IMPLEMENTING THE NATIONAL INUIT STRATEGY ON RESEARCH

Chairs: Anita Kora, Karen Kelley

Room: 612-613

16:00	Jenn Parrott	The National Inuit Strategy on Research and Data Sovereignty: Progress on the Implementation of Priority Area 4 and the National Inuit Data Management Committee
16:15	Esther Usborne	Building Inuit self-determination in research through the design and implementation of Qanuippitaa? National Inuit Health Survey
16:30	Jamal Shirley	How can research better serve Nunavummiut?: Assessing research trends in Nunavut
16:45	Eric Loring	The Development of an Inuit Nunangat Research Program

## Wednesday, 4 December - 8:30 to 9:45

### FSH04 - ONE HEALTH IN THE NORTH

Chairs: Patrick Leighton, Émilie Bouchard, Emily Jenkins

**Room: 106-107**

8:30	Émilie Bouchard	Foxes ( <i>Vulpes spp.</i> ) and lynx ( <i>Lynx canadensis</i> ) are good intermediate hosts for <i>Toxoplasma gondii</i> in northern Canada
8:45	Adrian Hernandez Ortiz	<i>Toxoplasma gondii</i> in Caribou ( <i>Rangifer tarandus</i> ) from Nunavik, Canada
9:00	Carol-Anne Villeneuve	Surveillance for Arboviruses in Arthropod Vectors in the Canadian Arctic
9:15	Kayla Buhler	Prevalence of antibodies against California serogroup viruses in barren-ground and boreal caribou, <i>Rangifer tarandus</i> , from the Canadian Arctic
9:30	Fabien Mavrot	From researcher-driven to community-based: muskox and caribou health surveillance in Ulukhaktok, Northwest Territories

### BCR02 - METHODS AND APPROACHES FOR COMMUNITY-BASED WILDLIFE MONITORING IN CANADA'S NORTH: BUILDING A TRANSDISCIPLINARY COMMUNITY OF PRACTICE

Chairs: Emily Choy, Marianne Falardeau, Enooyaq Sudlovenick

**Room: 108**

8:30	Enooyaq Sudlovenick	Mixed methods: Indigenous and Western science in assessing Ringed seal health
8:45	Emily Choy	Inter-annual variation in diet estimates of eastern Beaufort Sea beluga whales: insights on climate change effects through a community-based monitoring project
9:00	Marianne Falardeau	Advancing transdisciplinary research to monitor changing Arctic marine social-ecological systems
9:15	Jason Dicker	Using integrated resource management and the Public Trust Doctrine to examine wildlife management practices in northern Labrador: a case study on the George River Caribou hunting ban
9:30	Shannon MacPhee	The Inuvik Dart: Co-design, development, and field pilot of a new remote deployment system for tagging beluga whales ( <i>Delphinapterus leucas</i> )

### MCS01 - ASSESSING THE IMPACTS OF ANTHROPOGENIC ACTIVITIES ON ARCTIC MARINE ANIMALS

Chairs: William Halliday, Stephen Insley

**Room: 109**

8:30	William Halliday	Assessing the impacts of vessel traffic on beluga whales
8:45	Luke Storrie	Key summer foraging habitats for Eastern Beaufort Sea beluga whales identified from telemetry data
9:00	Tim Edgell	Multiple-indicator approach to defining impact and recovery from oilfield activity at an offshore dredge disposal site on the Grand Banks
9:15	Russell Turner	Getting One's Ducks in a Row: Conservation Units of Common Eiders ( <i>Somateria Mollissima</i> ) Throughout North America



## Wednesday, 4 December - 8:30 to 9:45 *(continued)*

### TPI02 - RAISING THE BAR IN A WARMING WORLD: NEW TOOLS TO ADAPT INFRASTRUCTURE TO PERMAFROST THAW

Chairs: Kala Pendakur, Anne Baker

**Room: 603-604**

8:30	Anne Barker	Engineering infrastructure - permafrost's challenges for resilient design
8:45	Stephan Gruber	Understanding, monitoring and predicting permafrost thaw enable forward-looking adaptation
9:00	Igor Egorov	Inter-seasonal heat transfer, mitigation techniques and technologies to stabilize or restore permafrost
9:15	Kala Pendakur	Building a Climate-Resilient Future with New Northern Standards
9:30	Sara Brown	Building with the changing climate in mind: case studies from northern Canada

### KPM06 - ARCTIC COUNCIL: INTERNATIONAL COLLABORATION ADVANCING KNOWLEDGE AND ACTION ON MAJOR ISSUES OF CONCERN

Chairs: Sarah Kalhok Bourque, Maya Gold et Carolina Caceres

**Room: 609**

8:30	Maya Gold	PAME Workshop on Marine Protected Area Networks in the Arctic
8:45	Courtney Price	Observer engagement under CAFF's Arctic Migratory Birds Initiative: leveraging the Arctic Council to engage non-Arctic states
9:00	Stephen Insley	Underwater noise in the Arctic: A state of knowledge review
9:15	Jennifer Lento	International collaboration as a foundation for circumpolar-scale assessments of biodiversity: building the CAFF-CBMP State of Arctic Freshwater Biodiversity Report

### IT04 - APPLICATIONS OF UNMANNED VEHICLE SYSTEMS IN ARCTIC RESEARCH AND MONITORING

Chairs: Dominique Chabot, Greg Henry, Lisa Loseto, David Bird

**Room: 611**

8:30	Salve Dahle	Autonomous surface and underwater vehicles reveal new discoveries in the Arctic Ocean
8:45	Garfield Giff	Using Remotely Piloted Aircraft Systems (RPAS) to Support Mapping and Monitoring of Climate Driven Changes on Western Arctic Communities: The Aurora Research Institute RPAS Program
9:00	Michelle Pearce	Utilizing RPAS to monitor permafrost retrogressive thaw slump geomorphological change and associated downstream biogeochemical impacts
9:15	Branden Walker	Measuring snow from the Sky: High-resolution observations of accumulation and snowmelt using RPAS-UAS
9:30	Kasey Ryan	Using an unmanned aerial system to monitor a threatened beluga whale population in Cumberland Sound, Nunavut

## Wednesday, 4 December - 8:30 to 9:45 (continued)

### AF02 - NORTHERN FISHING INDUSTRY LED AND SPONSORED RESEARCH INITIATIVES

Chairs: Brian Burke, Alastair O'Rielly

Room: 612-613

8:30	Amanda Barkley	Temporally reoccurring movement motifs of Greenland halibut in a deep-water coastal region and their implications for fisheries management
8:45	Ellyn Davidson	Greenland halibut ( <i>Reinhardtus hippoglossoides</i> ) movement patterns in offshore Baffin Bay, Nunavut
9:00	Tomas Araya-Schmidt	Investigating the performance of a roller footgear in the Nunavut offshore shrimp fishery. Can innovation help reduce seabed impact?
9:15	Jena Edwards	Inshore-offshore connectivity and multi-year movement behaviours of Greenland sharks ( <i>Somniosus microcephalus</i> ) in a deep-water Arctic basin
9:30	Kelly Moret	Fishing Smarter Not Harder- An Opportunity to Develop Innovative Harvesting and Environmental Characterization Technologies to Support Sustainable Fisheries

## Wednesday, 4 December - 14:15 to 15:30

### AC01 - CONTAMINANTS IN THE ARCTIC : COMMUNITY-BASED MONITORING, RESEARCH AND INDIGENOUS KNOWLEDGE

Chairs: Eva Kruemmel, Jean Allen, Emma Pike

Room: 106-107

14:15	Heidi Swanson	Community-driven and Indigenous partnered research on fish mercury levels in the Dehcho region, NT
14:30	Marlene Evans	Mercury and food web investigations in sea-run char and the Greiner Lake ecosystem
14:45	Derek Muir	Influence of Permafrost Disturbances and Increased Turbidity on Trends of Mercury and POPs in Landlocked Arctic Char in East and West Lake, Melville Island, Nunavut
15:00	Matthew Teillet	Investigating current and historic impacts of transportation infrastructure on water quality and fishing opportunities in the Gwich'in Settlement Area, Northwest Territories
15:15	Stephanie Gora	Microbiological and chemical drinking water quality in Pond Inlet, NU

## Wednesday, 4 December - 14:15 to 15:30 *(continued)*

### BCR05 - CONNECTING COMMUNITY AND ECOLOGICAL NEEDS TO ADDRESS COMPLEXITY IN CONSERVATION PLANNING

Chairs: Paul McCarney, Rodd Laing, Jennifer Janes, Megan Bailey

**Room: 108**

14:15	Megan Dicker	Identification of community priorities for marine planning in Nunatsiavut through collaborative qualitative analysis
14:30	Natasha Haycock-Chavez	Putting community values on the map: linking Inuit community conservation priorities with a regional conservation strategy
14:45	Richard Nesbitt	Preserving Arctic Charr Habitat and Indigenous Fisheries in Western Hudson Bay
15:00	Melina Kourantidou	A framework for fisheries management using socioeconomic and social-ecological indicators

### MCS05 - ARCTIC COASTAL DYNAMICS IN A CHANGING CLIMATE

Chairs: Dustin Whalen, Hugues Lantuit

**Room: 109**

14:15	Dustin Whalen	Capturing Seasonal Changes to Coastlines in the Beaufort Sea
14:30	Andrew Clark	Evaluating UAV-SfM by RTK Direct Georeferencing with oblique images for quantifying rapid Arctic coastal
14:45	Gonçalo Vieira	Assessment of coastal erosion and flooding hazard in the Beaufort Sea coast
15:00	François Malenfant	The outer Mackenzie Delta in a changing climate: increasing nearshore sediments from accelerated erosion of ice-rich cliffs? An example from Pelly Island
15:15	Gavin Manson	Simulating Nearshore Sediment Transport in Kugmallit Bay, Canadian Beaufort Sea

### TPI03 - PERMAFROST SCIENCE AND COLD REGION ENGINEERING: SUPPORTING HUMANS IN A THAWING LANDSCAPE

Chairs: Michel Allard, Guy Doré, Heather Brooks

**Room: 603-604**

14:15	Emmanuel L'Herault	Performance Assessment of Large-Scale Adaptation Strategies for Transport Infrastructures Built on Sensitive Permafrost, Northern Quebec
14:30	Ashley Rudy	Implementing an applied permafrost research program: The Dempster - Inuvik to Tuktoyaktuk highway research corridor
14:45	Louis-Philippe Roy	Assessment and Monitoring of retrogressive thaw slumps along Yukon highways: A comparison of two sites located in continuous and discontinuous permafrost
15:00	Simon Dumais	Mechanical design of transportation embankment on permafrost
15:15	Samuel Bilodeau	Assessment of permafrost conditions for planning the construction of the Kugluk Territorial Park access road, Kugluktuk, Nunavut

## Wednesday, 4 December - 14:15 to 15:30 *(continued)*

### KPM07 - INDIGENOUS KNOWLEDGE AND ENVIRONMENTAL DECISION-MAKING

Chairs: Steven Lonsdale, IRC (TBD)

Room: 609

14:15	Steven Lonsdale	Uqausirisimajavut: What We Have Said. The Inuit View of How Oil and Gas Development Could Impact Our Lives
14:30	Gerald Inglangasuk	Local observations of a changing Arctic and their role in fisheries co-management: The Inuvialuit Settlement Region
14:45	Susan Kutz	Co-developing and co-monitoring wildlife health indicators: Bridging local, traditional and scientific knowledge to improve wildlife health surveillance and response in the Arctic
15:00	Lucassie Arragutainaq	Qikitait: a community-driven approach to creating a protected and conserved area for the Belcher Islands Archipelago
15:15	David Haogak	Incorporating Traditional Knowledge into the Parks Canada Western Arctic Field Unit ecological integrity monitoring program

### AW01 - WILDLIFE IN A RAPIDLY CHANGING ARCTIC

Chairs: Dominique Fauteux, Jean-François Lamarre

Room: 611

14:15	Debbie Jenkins	Biotic interactions govern the distribution of coexisting ungulates in the Arctic Archipelago - a case for conservation planning
14:30	Olwyn Friesen	Northern diversity of snails and their trematode parasites across the Arctic
14:45	Laurie Maynard	Plasticity of migratory behaviour among season and populations in a northern apex predator, the Golden Eagle
15:00	Dominique Fauteux	Winter overcompensation in Arctic rodents

### AF01 - LOCAL TO PAN-ARCTIC PERSPECTIVES ON FISH AND FISHERIES ECOSYSTEMS

Chairs: Brynn Devine, Maxime Geoffroy, Jonathan Fisher

Room: 612-613

14:15	Alain Dupuis	Central Arctic Ocean Fisheries Agreement - An overview of international scientific cooperation
14:30	David Deslauriers	Assessing the impacts of wastewater effluent on the energetics of the truncate soft-shelled clam <i>Mya truncata</i> in Frobisher Bay, Nunavut
14:45	Harri Pettitt-Wade	Seasonal residency of Greenland cod in a coastal embayment near Ulukhaktok, Northwest Territories
15:00	Aitor Lekanda-Guarrotxena	Further Evaluation of an Exploited Demersal Fish Assemblage: Variations and Trends in West Greenland
15:15	Sarah Schembri	Mesozooplankton communities in the Hudson Bay system



## Wednesday, 4 December - 16:00 to 17:15

### AC02 - PLASTIC POLLUTION IN THE ARCTIC: HOW BIG IS THE ISSUE IN THE CANADIAN ARCTIC

Chairs: Sarah Kalhok Bourque, Jennifer Provencher

**Room: 106-107**

16:00	Sarah Kalhok Bourque	AMAP's new Litter and Microplastic Expert Group
16:15	Jonathan Fisher	Towards pan-Arctic sampling of marine microplastic pollution using the continuous plankton recorder
16:30	Madeleine Bourdages	Using seabirds to estimate the deposition of microplastics to the environment surrounding breeding colonies
16:45	Bonnie Hamilton	Are seabirds a vector of microplastics in Arctic ecosystems?

### BCR06 - COMMUNITY DRIVEN RESEARCH: LESSONS WITH NORTHERN CAPACITY AND INDIGENOUS KNOWLEDGE

Chairs: Emmy Neuls, Bonita Beatty

**Room: 108**

16:00	Marc Dunn	The Coastal Habitat Comprehensive Research Project in coastal Eeyou Istchee, Qc: an example of a multi-community, Cree First Nation-driven research project
16:15	Rachael Cadman	A case study on collaborative qualitative analysis and anti-colonial methods in the Imappivut marine planning initiative
16:30	Kathy Snow	Illiniavugut nunami (Learning from the land): an investigation of the role formal land based learning programs on student learning
16:45	Katherine Wilson	The Sikumiut Model: Changing the role of non-Indigenous partners to support Inuit self-determination in research
17:00	Natalie Carter	Lessons learned through research partnership and capacity enhancement in Inuit Nunangat

### MCS05 - ARCTIC COASTAL DYNAMICS IN A CHANGING CLIMATES

Chairs: Dustin Whalen, Hugues Lantuit

**Room: 109**

16:00	David Fissel	Sea Ice Velocities in the vicinity of Mackenzie Canyon from a two year-long mooring array with comparisons to ice velocities obtained off the central Mackenzie Delta
16:15	Jay Cullen	Mobility of nutrient and potentially toxic trace metals in a changing Arctic Ocean
16:30	Gwénaëlle Chaillou	Detecting the signature and transformations of water from coastal permafrost thaw in the Beaufort Sea
16:45	George Tanski	Carbon degradation and CO <sub>2</sub> production along eroding permafrost coastlines
17:00	Achim Roth	Tandem-X- and Terrasar-X-Based Spring Flood Simulation on the Lena Delta, Siberia

## Wednesday, 4 December - 16:00 to 17:15 *(continued)*

### TPI03 - PERMAFROST SCIENCE AND COLD REGION ENGINEERING: SUPPORTING HUMANS IN A THAWING LANDSCAPE

Chairs: Michel Allard, Guy Doré, Heather Brooks

**Room: 603-604**

16:00	Pascale Roy-Léveillé	A preliminary assessment of risk associated with permafrost distribution and ground ice along the proposed Kivaliq Hydro-Fibre line corridor
16:15	Fabrice Calmels	Multiple geo-hazards at Chapman Lake, km 116, Dempster Highway, YT: is permafrost leaking?
16:30	William Quinton	The Dehcho Collaborative on Permafrost: working with communities to manage permafrost thaw

### HC01 - HC01-COLLABORATIVE RESEARCH ON VENTILATION OF NUNAVIK DWELLINGS: PERFORMANCE ISSUES, OPTIMIZATION OF VENTILATION AND IMPACTS ON IAQ, BIOAEROSOLS AND RESPIRATORY HEALTH

Chairs: Boualem Ouazia, Patrick Poulin

**Room: 609**

16:00	Patrick Poulin	Improvement of indoor air quality in Nunavik dwellings; can optimization of ventilation translate into health benefits for children?
16:15	Boualem Ouazia	Performance issues and monitoring of residential heat/energy recovery ventilators in Nunavik
16:30	Daniel Aubin	Improvement of Indoor Air Quality in Nunavik Dwellings: Impacts of improved ventilation and preventative maintenance on indoor air quality in northern and remote homes
16:45	Jodelle Degois	Impact of the ventilation system on bacterial bioaerosols in dwellings in Nunavik
17:00	Patrick Poulin	Improvement of indoor air quality in Nunavik's homes: framework of a multidisciplinary project of ventilation optimization in buildings

### GIC01 - GLACIER CHANGE AND ICE-OCEAN INTERACTION

Chairs: Derek Mueller, Luke Copland

**Room: 611**

16:00	Andrew Hamilton	Tango with Talbot: the effort to investigate ocean forcing in the largest iceberg producing inlet in Canada
16:15	Angela Cheng	A Probabilistic Iceberg Climatology of Eastern Canada Based on Observations
16:30	Jesse Smith	Examining large-scale ice island fracture events with a finite element model
16:45	Patrick Williams	From ice to ocean: Tracking the composition, fate, and impact of submarine glacial discharge in the nearshore coastal ocean in the Canadian Arctic Archipelago
17:00	Dana Stephenson	Topographic controls on firn-pack structure on White Glacier, Axel Heiberg Island, Nunavut

## Wednesday, 4 December - 16:00 to 17:15 *(continued)*

### AF01 - LOCAL TO PAN-ARCTIC PERSPECTIVES ON FISH AND FISHERIES ECOSYSTEMS

Chairs: Brynn Devine, Maxime Geoffroy, Jonathan Fisher

**Room: 612-613**

16:00	Maxime Geoffroy	Something Old, Something New, Different Perspectives on the Pelagic Zoo...(Plankton and Fish of the Labrador Sea Deep Ocean)
16:15	Pierre Priou	Under-ice vertical distribution of pelagic organisms in the Arctic Ocean during the midnight sun
16:30	Eric Ste-Marie	The cost of life in the slow lane: Estimating the resting and field metabolic rates of Greenland sharks ( <i>Somniosus microcephalus</i> )
16:45	Rosie Smith	Overwintering ecology of anadromous Arctic char ( <i>Salvelinus alpinus</i> ) in a large fluvial system near Kugluktuk, Nunavut
17:00	Jared Ellenor	Factors influencing how Arctic grayling ( <i>Thymallus arcticus</i> ) use Barrenland streams near Baker Lake, Nunavut

## Thursday, 5 December - 8:30 to 9:45

### NDP07 - ARCTIC INSPIRATION PRIZE LAUREATES: CATALYZING CHANGE THROUGH NORTHERN INNOVATION AND CREATIVITY

Chairs: Marti Ford, Katie Blasco

**Room: 106-107**

8:30	Bill Mintram	By the North, For the North: Celebrating Arctic Inspiration Prize Success Stories
8:45	Tessa Lochhead, Leah Kippomee, Karen Nutarak	Pirurvik - A Place to Grow: Early Childhood Education for Nunavummiut
9:00	Ivan Koonoo	Ikaarvik: next steps for empowering youth and community-driven research in Indigenous communities across the North
9:15	Derrick Hastings	The Tr'ondëk Hwëch'in Teaching and Working Farm: Improving food security in Yukon through an innovative social enterprise
9:30	Rex Holwell	Qualitative evaluation of a work-integration social enterprise approach for training and employing Inuit youth in their communities - the SmartICE technology production centre

## Thursday, 5 December - 8:30 to 9:45 *(continued)*

### BCR04 - EXPLORING SUSTAINABLE MODELS FOR COMMUNITY-BASED MONITORING

Chairs: Ann Balasubramaniam, Kaitlin Breton-Honeyman

**Room: 108**

8:30	Ema Qaggutaq	Kitikmeot caribou Inuit qaujimajatuqangit: developing an Inuit-led monitoring program
8:45	Michel Allard	Mapping permafrost and initiating community-based monitoring on permafrost and ecosystem changes near Kugluktuk: sharing the experience of a partnership involving science, traditional knowledge, and local creativity
9:00	Jacqueline Hung	Building capacity by training Early Career Researchers to conduct projects that are culturally sensitive and community-collaborative
9:15	Hilary Sadowsky	Understanding the role of Inuit youth engagement in environmental research in Nunavut
9:30	José Gérin-Lajoie	Nunami Sukuijainiq, the movie: Doing Collaborative Science on the George River, Nunavik

### MCS02 - MARINE GEOLOGY AND MAPPING OF THE ARCTIC AND SUBARCTIC REGIONS: BENTHIC HABITAT, SEABED COMPOSITION, GEOHAZARDS, AND CLIMATE DYNAMICS

Chairs: Jean-Carlos Montero-Serrano, Alexandre Normandeau, Audrey Limoges

**Room: 109**

8:30	Calvin Campbell	Major Quaternary depositional elements and morpho-sedimentary features in western Baffin Bay
8:45	Alexandre Normandeau	Retreat Pattern of Glaciers Controls the Occurrence of Turbidity Currents on High Latitude Fjord Deltas (Eastern Baffin Island)
9:00	Anne Corminboeuf	Spatial and temporal distribution of polycyclic aromatic hydrocarbons in sediments from the Canadian Arctic Archipelago
9:15	Margaret Cramm	Biological diversity of a High Arctic seabed hydrocarbon seep at Scott Inlet, Baffin Bay
9:30	Joshua Evans	Metabarcoding of sedimentary ancient DNA (sedaDNA) to characterize 3800 years of diatom diversity in the North Water Polynya

### NDP01 - ARCTIC DISASTER RISK REDUCTION

Chairs: Anne Garland, Liane Benoit

**Room: 603-604**

8:30	Peter Kikkert	"We need to find out what we can do. We need to talk about it": Community-Based Organizations, Emergency Management, and Community Resilience in the Kitikmeot Region of Nunavut
8:45	Patrizia Duda	Informal Disaster Governance on Svalbard
9:00	Anne Garland	Arctic Risk Management Network: Linking Regional Practitioners and Researchers to Improve Mitigation Through Participatory Action Research by Community Monitors about Erosion and Surges to Improve Forecasting
9:15	Liane Benoit	A Tool to Facilitate Agri-Risk Management in Nunavik
9:30	Anuszká Mosurska	Unpacking community participation: Insights from Alaska

## Thursday, 5 December - 8:30 to 9:45 *(continued)*

### CSS01 - TAILORING WEATHER, WATER, ICE, AND CLIMATE INFORMATION AND SERVICES TO ADDRESS DIVERSE NORTHERN NEEDS

Chairs: Gita Ljubicic, Natalie Carter

**Room: 609**

8:30	Gita Ljubicic	Collaborative survey development and training to understand Inuit uses and needs for weather, water, ice and climate information
8:45	Jason Carpenter	Exploring the knowledge-sharing networks for weather, water and ice information in Iqaluit, Nunavut
9:00	Rebecca Segal	Informing sea ice trafficability through remote sensing, Google Earth Engine, and SIKU
9:15	Laura Eerkes-Medrano	Responding to the impact of a changing sea ice and weather on northern communities: A pilot project in 6 communities in the Inuvialuit and Kitikmeot regions to improve Environment and Climate Change Canada's weather, sea ice and climate services
9:30	Stella Melo	The Canadian Arctic Weather Science Project

### HC03 - SUSTAINABLE NORTHERN HOUSING

Chairs: Mylène Riva, Catherine Soroczan, Julia Christensen

**Room: 611**

8:30	Christopher Fletcher	The Plan 319, T-Shirt or Rigid Frame house - Health crises and the logic of the 'first' housing programme for Inuit 1959-1960
8:45	Julia Christensen	"I wasn't homeless until I moved back home to Greenland": housing policy and the production of homelessness in Nuuk, Greenland
9:00	Philippe Dufresne	Concurrent validity of subjective and objective measures of residential overcrowding in the Canadian Arctic
9:15	Quinn Cavanagh	Integration of Solar Energy and Diesel Waste Heat Recovery for District Heating in Beaver Creek, Yukon
9:30	Kaitlyn Finner	The Inuit Nunangat Housing Strategy: Working together to improve housing outcomes in Inuit Nunangat

### NDP04-PARTNERSHIP ACROSS THE PIKIALASORSUAQ

Chairs: Stephanie Meakin, Maya Gold, Shari Fox, Larry Audlaluk et Andrew Hamilton

**Room: 612-613**

8:30	Claire Hornby	How existing Marine Protected Areas can help inform the creation of an Inuit-led Management Area for the Pikialasorsuaq
8:45	Dany Dumont	The history of the ice bridge in Pikialasorsuaq : an update
9:00	Luke Copland	Recent changes in glacier mass balance, terminus retreat patterns and iceberg calving on the Canadian side of the Pikialasorsuaq
9:15	Paul Myers	High Resolution NEMO Modelling for northern Baffin Bay and the Pikialasorsuaq (North Water Polynya) region
9:30	Lauren Candlish	Pikialasorsuaq in Partnership with the Canada Excellence Research Chair (CERC) at the University of Manitoba

## Thursday, 5 December - 13:00 to 14:15

### TD01 - ARCTIC PLANTS: ECOLOGY AND DIVERSITY IN A TIME OF CHANGE

Chairs: Zoe Panchen, Jeff Saarela, Paul Sokoloff

**Room: 106-107**

13:00	Jeffery Saarela	Vascular plant biodiversity of Victoria Island (Northwest Territories/Nunavut, Canada): A new collections-based baseline based on 100+ years of floristic exploration
13:15	Catherine Chagnon	Shrub canopy induces a decline in lichen abundance and diversity in Nunavik (Québec, Canada)
13:30	Vinko Culjak Mathieu	Temporal dynamics of plant-pollinator networks in the Canadian Arctic Archipelago
13:45	Johann Wagner	Community-level phenology of plant-pollinator interactions in four Arctic ecosystems near Cambridge Bay, Victoria Island, Nunavut
14:00	Paul Sokoloff	Archival Fieldwork: new Arctic plant biodiversity data from backlogged herbarium specimens

### AS03 - MARITIME SHIPPING IMPACTS IN THE NORTH: ADVANCES FOR IMPROVED UNDERSTANDING AND RISK MANAGEMENT

Chairs: Ronald Pelot, Nicolien Simone Van Luijk

**Room: 108**

13:00	Beverly Maksagak	Building Capacity through Indigenous Shipping Monitoring Initiatives in the Arctic
13:15	Ryan Flagg	Vessel Monitoring in the Kitikmeot - A Partnership Approach
13:30	Zuzanna Kochanowicz	Evaluating ship-source noise exposure for marine mammals in the Tallurutiup Imanga National Marine Conservation Area
13:45	Priscilla Einecke Schmitz	An Evidence-Based Approach for Improved Shipping Governance: A Case Study in the Kitikmeot Region
14:00	Melissa Weber	Identifying where cruise ships disembark passengers in the Canadian Arctic

### FWS02 - BIOGEOCHEMICAL RESPONSE OF PERMAFROST AND HYDROLOGICAL CHANGE IN ARCTIC WATERSHEDS

Chairs: Melissa Lafrenière, Suzanne Tank, Scott Lamoureux, Scott Zolkos

**Room: 109**

13:00	Suzanne Tank	Changing biogeochemical function in thaw-disturbed freshwater networks of the Peel Plateau, western Canadian Arctic
13:15	Niek Speetjens	Landscape-driven Carbon export from small coastal permafrost watersheds
13:30	Barret Kurylyk	Permafrost hydrogeology: northern water resources implications of unseen subsurface change
13:45	Mike Palmer	Contrasting winter oxygen dynamics in consecutive years alters arsenic cycling in a small subarctic lake
14:00	Milla Rautio	Effect of permafrost thaw on plankton and fish in Arctic lakes

## Thursday, 5 December - 13:00 to 14:15 *(continued)*

### KPM05 - VULNERABILITY, RESILIENCE AND ADAPTATION TO CLIMATE CHANGE IN THE ARCTIC

Chairs: Tristan Pearce et James Ford

**Room: 603-604**

13:00	C. Julián Idrobo	Ecological grief in James Bay: coping with eelgrass and waterfowl declines in the eastern subarctic
13:15	Jean Hatcherson	Mongolian Reindeer Herders, Traditional Knowledge and Tourism
13:30	Angus Naylor	Real-time monitoring of risk and vulnerability in the Canadian Arctic
13:45	Nathaniel Pollock	Community-led approaches to suicide prevention and mental wellness in Northern Canada: Developing a position statement with the Canadian Society for Circumpolar Health
14:00	Kendyce Cockney	Engaging Inuit Youth on impacts and solutions on climate change: a Participatory Video approach

### CSS02 - QUESTIONS AND IDEAS RELATED TO ARCTIC AND SUB-POLAR CLIMATE/ICE/OCEAN CHANGES, FROM THE PRE-ANTHROPOCENE TO THE NEAR FUTURE?

Chairs: Jade Falardeau, Shawn Marshall, Paul Myers, Bruno Tremblay, Audrey Limoges

**Room: 609**

13:00	Natasha Roy	Climate changes along the Labrador coasts during the Holocene based from pollen assemblages
13:15	Katherine Triglav	The under-ice ecosystems of Stuckberry Valley lakes: oxygen dynamics and environmental changes
13:30	Connie Lovejoy	The planktonic pan-Arctic biome: will the line hold?

### FSH03 - ADDRESSING THE COMPLEXITY OF FOOD SECURITY IN THE ARCTIC

Chairs: Chris Furgal, Sonia Wesche

**Room: 611**

13:00	Murray Humphries	Culture and the social-ecology of local food use by Indigenous communities
13:15	Anna Ducros	What is the potential for fish and seafood to support food security in the Arctic?
13:30	Jamie Snook	"We're made criminals just to eat off the land, eat our food that our ancestors ate."
13:45	Sappho Gilbert	Determinants, effects, and coping strategies for low-yield periods of harvest: a qualitative study in two communities in Nunavut, Canada
14:00	Sarah Newell	Sharing country food: connecting health, food security, and cultural continuity



## Thursday, 5 December - 14:45 to 16:00

### NDP03 - CANADA-UK COOPERATION IN ACTION: RECENT INITIATIVES AND NEW OPPORTUNITIES

Chairs: Henry Burgess, Martin Raillard, David Scott

**Room: 106-107**

14:45	Anne Barker	Upcoming Opportunities for Can-UK Collaboration with the NRC
15:00	Michael Lim	Co-production of new knowledge on permafrost coasts
15:15	Victoria Peck	Establishing a base-line for <i>Limacina helicina</i> tolerance to increasing acidification in the Canadian Arctic.
15:30	Nick Rutter	Effect of snow microstructure variability on Ku-band radar snow water equivalent retrievals
15:45	Helen Wheeler	Understanding changes in North American beaver occupancy in northern environments

### AS01 - ARCTIC SHIPPING, IMO AND INUIT

Chairs: Stephanie Meakin, Maya Gold, Shari Fox

**Room: 108**

14:45	Andrew Dumbrille, Manny Kudlak	Western Arctic Mariner's Guide
15:00	Phillip Buhler	United States Approach to Commercial Vessel Regulation under the Polar Code. Brief historical background and development of the US approach and current status with prognosis for developments and direction in the near future.
15:15	Aldo Chircop	Polar Code Implementation in the Arctic 5 States: Is the AMSA Recommendation on Legislative Harmonization being Achieved?
15:30	Sarah Hughes	A multi-stakeholder assessment on shipping risk governance: case study on the proposed ban on the use and carriage of heavy fuel oil by ships in the Arctic
15:45	Jackie Dawson	Infusing local knowledge into low-impact shipping policy: An adaptation to increased shipping activity and climate change in Arctic Canada

### MCS04 - FUTURE OF ARCTIC MARINE PLANT HABITATS

Chairs: Karen Filbee-Dexter, Christina Bonsell

**Room: 109**

14:45	Kathleen MacGregor	Agarum savannahs: The surprising arctic kelp assemblages in Mittimatalik (Pond Inlet)
15:00	Laura de la Guardia	First primary production estimates of macroalgae, <i>Saccharina latissima</i> , in the Canadian Arctic
15:15	Robert Schlegel	The relationship between Arctic kelps and their physical environment
15:30	Matthieu Huot	Multispectral serial laser imaging for underwater spectral discrimination of macroalgae
15:45	Ladd Johnson	Light environment within an arctic river plume: nearshore consequences, short-term patterns, and uncertain future

## Thursday, 5 December - 14:45 to 16:00 *(continued)*

### KPM05 - VULNERABILITY, RESILIENCE AND ADAPTATION TO CLIMATE CHANGE IN THE ARCTIC

Chairs: Tristan Pearce, James Ford

**Room: 603-604**

14:45	Andrew Medeiros	Understanding the past, predicting the future: Water vulnerability in a warming Arctic
15:00	Jon Rosales	Storm Surge Proxies in a Data Poor Landscape: A Baseline Monitoring Method for Communities Vulnerable to Climate Change
15:15	Katy Davis	Participatory Climate Modelling in the Arctic: Benefits, Challenges and the Engagement of Diverse Forms of Knowledge
15:30	Fiona Duckett	Development of an Erosion Mitigation Plan for Tuktoyaktuk, NWT
15:45	Arshad Khalafzai	Spring Flooding Risk, Recurring Evacuations, and Vulnerability and Resilience of Remote Indigenous Peoples: The Case of Kashechewan First Nation, Northern Ontario, Canada

### CSS03 - CLIMATE SERVICES FOR THE CANADIAN ARCTIC

Chairs: Diane Chaumont, Abderrahmane Yagouti

**Room: 609**

14:45	Ellen Eckert	Validation of the Global Precipitation Measurement IMERG Products in the Canadian Arctic
15:00	Colleen Mortimer	Skill of snow water equivalent products over Canada
15:15	Yves Gauthier	Weather in Nunavik: Observations from the CAIMAN Network (2009-2019)
15:30	Brian Sieben	The Canadian Centre for Climate Services, a new resource to support northern climate change decision making
15:45	Bronwyn Hancock	Northern voices in a national assessment on climate change adaptation in Canada

### FSH03 - ADDRESSING THE COMPLEXITY OF FOOD SECURITY IN THE ARCTIC

Chairs: Chris Furgal, Sonia Wesche

**Room: 611**

14:45	Brittany Curry-Sharples	Systematic literature review of facilitators and barriers related to food (in)security status in Inuit Nunangat: Preliminary results
15:00	Connor Judge	Country Food Processing Training: An on-site initiative in two regions in the Northwest Territories
15:15	Andrew Spring	What is the future of agriculture in the North?
15:30	Sonia Wesche	Scaling-up Arctic Food Security Governance in the Inuvialuit Settlement Region
15:45	Jessica Dutton	Modeling change to traditional food systems on the Northwest Territories: Findings from the "State of Country Food Systems in the NWT: Planning for Long-term Sustainability" study

# EXHIBITORS

Amundsen Science is the organization responsible for the management of the scientific program of the research icebreaker *CCGS Amundsen*, Canada's only icebreaker equipped with state-of-the-art research facilities to support multidisciplinary research from around the globe. Hosted at Université Laval and primarily funded by the Canada Foundation for Innovation, Amundsen Science maintains the ship's pool of scientific equipment, coordinates the deployment of the icebreaker for science, and provides technical support at sea for user programs.



The Arctic Eider Society is a registered Canadian charity working with Inuit communities to provide training and capacity in community-driven research, arctic-based education for youth, and innovative tools and technologies to help communities address issues of food security, safety and environmental stewardship for sea ice and marine ecosystems.



The Arctic Institute of North America, at the University of Calgary, is mandated to advance the study of the circumpolar Arctic through the natural and social sciences, arts and humanities. AINA publishes the interdisciplinary journal *Arctic*, manages the Arctic Science and Technology Information System and operates the Kluane Lake Research Station.



The Arctic Special Interest Group (Arctic SIG) is part of the Canadian Meteorological and Oceanographic Society and serves as a focus point within the broader Society membership in discussions related to Canada's Arctic and Northern Regions. The Arctic SIG strives to develop awareness of the importance of meteorology, oceanography and related science to Northern development and Arctic environmental changes and issues. In the delivery of these objectives, the Arctic SIG engages and communicates with Northern groups and communities about meteorological, oceanographic and environmental issues, data and scientific studies. In addition, the Arctic SIG is developing a networking environment in order to bring together interested groups from public and private sectors to further the study of Arctic meteorological, oceanographic and environmental issues, data and scientific studies addressing issues such as climate change. Finally, the Arctic SIG facilitates the publishing of specialized material in *Atmosphere-Ocean* and elsewhere tied to Arctic and Northern focused research and publications. New members are welcome and there is no membership fee to join the Arctic SIG.



The Western Arctic Research Centre (WARC), located in Inuvik, has a dual function to provide logistical support to researchers in the Western Arctic and to advance the research objectives that support and sustain the culture and economy of the NWT. The facilities, equipment, and services provided by WARC are essential to researchers working in the Western Arctic.

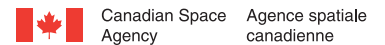


# EXHIBITORS

Arctic Science is a quarterly 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. Arctic Science is published by Canadian Science Publishing.



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.



Christine Koch is a Newfoundland-based painter and printmaker who draws her inspiration and imagery from mountain and northern environments. Her work interprets the dramatic geology and geomorphology of some of Canada's most iconic wild places; her current practice focuses on the glacial, postglacial, and coastal environments of northern Labrador.



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).



The Geological Survey of Canada (GSC) founded in 1842 is a leading scientific organization which provides public geoscience knowledge to sustain the exploration effectiveness and international competitiveness of the mineral and energy sectors, informs the stewardship of onshore and offshore lands, and increases the safety and security of Canadians. GSC Atlantic, one of six GSC divisions across Canada, was established 1962 in Dartmouth, NS; it is co-located with Fisheries and Oceans Canada at the Bedford Institute of Oceanography, Canada's largest ocean research facility. GSC Atlantic plays an important role as the federal government's expertise in marine geology.



# EXHIBITORS

For over 70 years Hoskin Scientific has provided expert consultative support to find the right product to fit your application needs. Whether you require monitoring or testing instrumentation, rentals or service, we are where you need us to be across Canada.



The INQ's vision reflects its partners' desire and determination to develop a sustainable North based on a foundation of knowledge. To integrate scientific knowledge with that of local communities, including Aboriginal knowledge, and partner with the public and private sectors to develop the Canadian Arctic and Northern Quebec for future generations, providing clean energy, healthy ecosystems, viable infrastructures, economic prosperity, vibrant cultures, and adapted education and healthcare systems.



INTERACT is a circumarctic network of more than 80 terrestrial field bases in northern Europe, Russia, US, Canada, Greenland, Iceland, the Faroe Islands, Scotland and northern alpine areas. INTERACT is offering access to numerous research stations in the Arctic through the Transnational Access program.



Inuit Tapiriit Kanatami is the national representational organization protecting and advancing the rights and interests of Inuit in Canada. Our work includes research, advocacy, public outreach and education on the issues affecting our population. We work closely with the four Inuit regions to present unified priorities in Ottawa.



JASCO Applied Sciences is a leader in the science of underwater sound and its effects on marine life. We support all stages of environmental assessments of underwater sound for the oil and gas, renewable energy, marine construction, shipping and defence sectors. JASCO designs and manufactures state-of-the-art oceanographic data acquisition systems.



The Marine Environmental Observation, Prediction and Response Network (MEOPAR) is a Canadian Network of Centres of Excellence based in Halifax, Nova Scotia. MEOPAR's mission is to observe, predict and respond to the risks and opportunities in a changing marine environment.



# EXHIBITORS

The Northern Contaminants Program (NCP) engages Northerners and scientists in research, monitoring, and communications about long-range contaminants in the Canadian Arctic.



Nunavik Geomatics is an Inuit-owned consulting firm providing innovative and cost effective geomatics solutions to public and private sector clients. We provide state-of-the-art mapping and spatial analysis services by gathering and analyzing geospatial and earth observation data to extract information highlighting patterns and relationships useful for your projects. Products and services range from decision support, project management, Geographic Information Systems (GIS), aerial data collection and inspection and collection of Traditional Ecological Knowledge (TEK).



World-leaders in ocean observing technology and data, Ocean Networks Canada empowers people with knowledge about our rapidly changing ocean. Our cabled observing networks bring ocean data to the surface, providing ocean intelligence to coastal communities, researchers, policy makers and governments. Monitoring the west and east coasts of Canada and the Arctic, our real-time continuous open data supports scientific discovery and informed decision-making.



Ocean Sonics designs and manufactures the icListen family of Smart Hydrophones. The smallest, most effective tool for underwater listening. The icListen is the only digital hydrophone to provide high quality, ready to use data in real-time, delivered directly to your computer, tablet or smart phone. The icListen Smart Hydrophone can be used as a real-time listening device or as an acoustic recorder. Collecting, processing and using ocean sound data has never been so simple. Listen Now. The Ocean Sonics Way.



Polar Knowledge Canada (POLAR) is Canada's lead federal Agency to advance knowledge of Canada's Arctic and strengthen Canadian leadership in polar science and technology. World-class cutting-edge Arctic research is being conducted out of the POLAR-operated Canadian High Arctic Research Station (CHARS) campus, located in Cambridge Bay, Nunavut.



Polar Knowledge  
Canada

Savoir polaire  
Canada

## EXHIBITORS

Québec-Océan is a group of scientists and their partners involved in oceanographic research conducted in Québec, Canada and around the world. Bringing together researchers from six Québec universities, government departments and NGOs and foreign researchers creates a critical mass that facilitates the development of oceanography, including student training and knowledge transfer.

Québec  
Océan

Since 1973, RBR has been designing and manufacturing oceanographic instruments in Ottawa, Canada. From the ocean abyss to the polar ice cap, our sensors track water parameters: temperature, depth, salinity, dissolved gases, pH, and many others.

RBR

ROMOR with more than 35 years as a Leading provider of ocean geophysical, oceanographic, defense, security, autonomous, and ocean science instrumentation has become a key collaborator. Working with academic, public, private, and international organizations as a top value-added re-seller, consultant and project logistics specialist. ROMOR continues to build its brand on customer satisfaction.

ROMOR

The Sentinel North program allows Université Laval to draw on over a half-century of northern and optics/photonics research to develop innovative new technology, train the next generation of transdisciplinary researchers and improve our understanding of the northern environment and its impact on human beings and their health.

Sentinelle Nord  Sentinel North

SmartICE is an award-winning technological innovation for the North. We are the world's first climate change adaptation tool to integrate traditional knowledge of sea ice with advanced data acquisition and remote monitoring technology. Our system combines these approaches to provide invaluable, data-driven insights into sea-ice thickness and local ice conditions, in near real-time. We embrace a business model that aims to expand opportunities for economic and social development in northern markets while preserving local cultures and lifestyles.

SMARTICE

The Aboriginal Liaison Program serves as a bridge between Statistics Canada and First Nations, Métis and Inuit communities and Aboriginal Organizations.

 Statistics Canada Statistique Canada



## EXHIBITORS

Takuvik is a partnership between University Laval (UL - Canada) and the Centre National de la Recherche Scientifique (CNRS - France) as a joint laboratory studying the Arctic ecosystems. Takuvik's scientific program is designed to study the impact of ongoing climatic and anthropogenic changes on Arctic marine and terrestrial ecosystems and geosystems.



At Trailmark we specialize in community-based research and knowledge mobility to positively transform the inclusion of local knowledge in resource management decisions, big and small. We work with indigenous communities across Canada engaged in impact assessment, ethnohistorical research, wildlife management, land use planning, community-based monitoring, and information sharing and management. Our tried and tested software provides a cutting-edge tool to support indigenous ownership, control, access, and possession of their knowledge for participatory mapping, on the land monitoring, and protection and management of archival material.





## INLANDSIS SPONSORS

*Supporting Student Poster Awards, Networking Events and Conference Lunches*

Since 2007, the Weston Family Awards in Northern Research (previously the W. Garfield Weston Awards for Northern Research) have provided unparalleled support to young scientists in Canada pursuing research in Canada's North. Funded by The W. Garfield Weston Foundation, over 300 awards have been granted to over 270 early-career researchers since the program's inception, forming a community of Weston Family Northern Scientists who are at the forefront of northern scholarship and who are helping shape a better future for Canada and the world.



*Supporting Student Poster Awards, Networking Events and Travel for Northerners*

The Sentinel North program allows Université Laval to draw on over a half-century of northern and optics/photonics research to develop innovative new technology, train the next generation of transdisciplinary researchers and improve our understanding of the northern environment and its impact on human beings and their health.



## TRAVEL FUND SPONSORS



**Crown-Indigenous Relations  
and Northern Affairs Canada**

**Relations Couronne-Autochtones  
et Affaires du Nord Canada**



**Indigenous Services  
Canada**

**Services aux  
Autochtones Canada**

Crown-Indigenous Relations and Northern Affairs Canada and Indigenous Services Canada are pleased to support Indigenous and northerners' participation at the 2019 ArcticNet Conference and to contribute to building capacity to respond to climate change.

## ICEBERG SPONSOR

*Supporting Student Day, 2019 Photo Contest and Coffee Breaks*

The Northern Contaminants Program (NCP) engages Northerners and scientists in research, monitoring, and communications about long-range contaminants in the Canadian Arctic.



## ICE RAFT SPONSORS

*Supporting Coffee Breaks*



**Polar Knowledge  
Canada**

**Savoir polaire  
Canada**

Polar Knowledge Canada (POLAR) is Canada's lead federal Agency to advance knowledge of Canada's Arctic and strengthen Canadian leadership in polar science and technology. World-class cutting-edge Arctic research is being conducted out of the POLAR-operated Canadian High Arctic Research Station (CHARS) campus, located in Cambridge Bay, Nunavut.

The Marine Environmental Observation, Prediction and Response Network (MEOPAR) is a Canadian Network of Centres of Excellence based in Halifax, Nova Scotia. MEOPAR's mission is to observe, predict and respond to the risks and opportunities in a changing marine environment.



## INUIT CULTURE NIGHT SPONSOR

Isuma is an artist collective founded in 1990 based in Igloolik NU . In 2001, Isuma's first feature-length drama, Atanarjuat The Fast Runner, won the Camera d'or at the Cannes Film Festival. Isuma produces independent community-based media to preserve and enhance Inuit culture and language. IsumaTV is the world's first website for Indigenous media art, now showing over 6,000 films and videos.



ARCTIC  
INSPIRATION PRIZE



PRIX INSPIRATION  
ARCTIQUE

## 8TH ANNUAL ARCTIC INSPIRATION PRIZE AWARDS CEREMONY

Honouring the 2019 Laureates of the \$3 million Arctic Inspiration Prize that encourages, enables and celebrates the inspiring achievements of Northerners.

As part of this year's ceremony, the AIP is thrilled to welcome some of the North's most talented artists to the stage: Deantha Edmunds, Inuk classical soloist; the guitar-fiddle duo of Yukoners Boyd Benjamin and Kevin Barr; Iqaluit's Sylvia Cloutier; Dene Orator Lawrence Nayally and Arctic Soul icon, Josh Q - performing under the masterful direction of the NWT's Juno award winner Leela Gilday.



**February 5, 2020**

**Shaw Centre  
Ottawa, Ontario**



Held in conjunction with the  
Northern Lights Business  
& Cultural Showcase

# Sentinel North



SHEDDING LIGHT ON THE NORTH  
ENVIRONMENT | HEALTH | INNOVATION

A STRATEGY PROPELLED BY  
EXCELLENCE, INNOVATION  
AND COLLABORATION  
IN RESEARCH AND TRAINING

Sentinel North's ambitious research strategy aims to improve our understanding of the northern environment and its impact on human beings and their health by fostering collaboration and convergence of research fields, training highly qualified Canadian and international students, and developing innovative light-based technologies.



Canada



Sentinel North



UNIVERSITÉ  
LAVAL









# NORTHERN CONTAMINANTS PROGRAM



The Northern Contaminants Program (NCP) engages Northerners and scientists in research, monitoring, and communications about long-range contaminants in the Canadian Arctic.

The NCP is now accepting funding proposals for 2020-2021, with a submission deadline of December 17, 2019. For more details, including proposal templates, see [www.science.gc.ca/ncp](http://www.science.gc.ca/ncp).





# SIDE MEETINGS PROGRAMME

## Monday, 2 December

Time	Room	Information
8:00 - 17:00	603-604	<p><b>CCPN/CCHAP - Northern Committees on Adaptation Workshop</b>  <i>CIRNAC - Climate Change Preparedness in the North Program</i>            Private (on invitation only)</p>
8:00 - 19:00	108	<p><b>Polar Knowledge Board of Directors Meeting</b>  <i>POLAR Knowledge Canada</i>            Private (on invitation only)</p>
8:00 - 12:00	106	<p><b>WWIC Project Coordination Meeting</b>  <i>McMaster University</i>            Private (on invitation only)</p>
8:30 - 18:00	612-613	<p><b>The Canadian Marine Shipping Risk Forum workshop on: "State of the Art in Shipping Risk and Modelling"</b>  <i>Canadian Marine Shipping Risk Forum (MEOPAR)</i>            Open (all are welcome)</p> <ul style="list-style-type: none"> <li>This meeting, hosted jointly by the Canadian Marine Shipping Risk Forum (a MEOPAR Community of Practice) and CASTNet (Canadian Arctic Shipping and Transportation Research Network) will cover contemporary work on modelling and treatment of Marine Shipping Risk. Members of these communities will present some of their ongoing work, and welcome those with an interest in this topic to share their experiences through discussion and their knowledge of opportunities and gaps in this area. Shipping risk modelling approaches encompass a wide variety of interdisciplinary fields, and we hope to engage some of the participants of ArcticNet who may have an interest in this topic.</li> </ul>
8:30 - 17:00	606	<p><b>National Inuit Data Management Committee Meeting</b>  <i>Inuit Tapiriit Kanatami</i>            Private (on invitation only)</p> <ul style="list-style-type: none"> <li>Meeting of the National Inuit Data Management Committee (NIDMC) to discuss data and information management topics, issues and priorities of Inuit Nunangat regional organizations.</li> </ul>
8:30 - 18:00	107	<p><b>Coastal Habitat of Eeyou Istchee, Research Consortium Meeting</b>  <i>University of Manitoba</i>            Private (on invitation only)</p>
8:30 - 12:30	506	<p><b>AUV-UAV meeting: The characterization of underneath sea-ice light field variability in the Arctic Ocean</b>  <i>Takuvik, Université Laval</i>            Private (on invitation only)</p> <ul style="list-style-type: none"> <li>The characterization of underneath sea-ice light field variability in the Arctic Ocean using underwater and aerial autonomous vehicles</li> </ul>



## Monday, 2 December *(continued)*

Time	Room	Information
9:00 - 13:00	605	<p><b>Nunavut Coastal Resource Inventory</b>  <i>Government of Nunavut</i>            Private (on invitation only)</p> <ul style="list-style-type: none"> <li>Meeting to determine the terms of use for the Nunavut Coastal Resource Inventory.</li> </ul>
12:00 - 17:00	614	<p><b>C4FS Team</b>  <i>University of Waterloo</i>            Private (on invitation only)</p> <ul style="list-style-type: none"> <li>This meeting is for the C4FS (Community Capacity for Climate Change and Food Security action in the NWT) team to work on plans for the project moving forward over the next 4 years.</li> </ul>
12:00 - 18:00	608	<p><b>Canadian Consortium for Arctic Data Interoperability</b>  <i>Canadian Consortium for Arctic Data Interoperability</i>            Private (on invitation only)</p> <ul style="list-style-type: none"> <li>The Canadian Consortium for Arctic Data Interoperability (CCADI) is an initiative to develop an integrated Canadian arctic data management system that will facilitate information discovery, establish sharing standards, enable interoperability among existing data infrastructures, and that will be co-designed with, and accessible to, a broad user base. This meeting is intended to facilitate collaboration of all partners involved in the CCADI Science and Technical teams.</li> </ul>
13:00 - 17:00	611	<p><b>SIKU.org - The Indigenous Knowledge Social Network</b>  <i>Arctic Eider Society</i>            Open (all are welcome)</p> <ul style="list-style-type: none"> <li>SIKU the Indigenous Knowledge Social Network is now available for use online at SIKU.org with the mobile app also available on Android and iOS. This workshop will take participants through the core features of SIKU for accessing weather and satellite services, making posts about wildlife and sea ice conditions, and using the mobile app's GPS including offline maps and traditional Inuit place names. Uploading posts and data stewardship and privacy settings will also be covered. All are welcome!</li> </ul>
13:00 - 18:00	106	<p><b>Arctic Science Knowledge Co-Production Special Issue: Editorial Process</b>  <i>Arctic Science</i>            Private (on invitation only)</p>
13:00 - 17:00	609	<p><b>ArcticKelp</b>  <i>Université Laval</i>            Private (on invitation only)</p>

## Monday, 2 December *(continued)*

Time	Room	Information
13:30 - 16:30	502	<p><b>CNNRO 2019 AGM</b>  <i>Canadian Network of Northern Research Operators- CNNRO</i>            Open (all are welcome)</p> <ul style="list-style-type: none"> <li>All CNNRO members are welcome to attend. CNNRO is a vast network of research support facilities providing specialized technical services to academic, government, Private and international scientific research sectors. Our member facilities provide the know-how and infrastructure that make research possible in our nation's Arctic and sub-Arctic regions. Our network is at the cutting edge of knowledge creation in northern Canada. CNNRO member facilities range from research vessels and long-established research institutes and observatories, to seasonal field stations and un-staffed remote monitoring installations. We are widespread, representing every major ecological region in Canada's North. CNNRO's mission is to advance the collective interests of Canada's northern research infrastructure operators through coordination, outreach and joint action in order to help them achieve excellence in technical and logistical support individually and as a network.</li> </ul>

## Tuesday, 3 December

Time	Room	Information
13:00 - 14:15	501	<p><b>RQM-MEOPAR Joint Call</b>  <i>MEOPAR</i>            Open (all are welcome)</p> <ul style="list-style-type: none"> <li>The Réseau Québec Maritime (RQM) and the Marine Environmental, Observation, Prediction and Response Network (MEOPAR) are very proud to announce their first joint call for proposals! Come learn more about the joint call, as well as the guidelines, forms, evaluation criteria and workshop information.</li> </ul>
13:00 - 14:00	502	<p><b>Climate Change at Ontario's Far North</b>  <i>Weenusk First Nation</i>            Open (all are welcome)</p> <ul style="list-style-type: none"> <li>Ontario's Far North, a sub-arctic climate, is changing at an alarming rate. Permafrost is melting, one of the largest peat zones is releasing methane gas. The Ring of Fire threatens a way of life for the people who live here. Once a thriving culture is undergoing changes from Industry and climate change.</li> </ul>
14:30 - 17:00	608	<p><b>ArcticFish side meeting</b>  <i>Marine Institute of Memorial University</i>            Private (on invitation only)</p>

## Tuesday, 3 December *(continued)*

Time	Room	Information
17:00 - 19:00	502	<p><b>Pikialasorsuaq - Update</b>  <i>Inuit Circumpolar Council Canada</i>            Private (on invitation only)</p> <ul style="list-style-type: none"> <li>The Pikialasorsuaq project is bringing communities, Inuit governance, Canadian, Greenlandic and Danish government, scientists and NGO's in Canada and Greenland together to work towards Inuit led monitoring and management of this important Arctic marine region. This workshop will update interested participants on recent developments on the Pikialasorsuaq, and to facilitate a dialogue among participants. This is also an opportunity to discuss IK in this region in order to inform policy and activities including a future Canadian Science Advisory Secretariat (CSAS) process and other initiatives in support of the Pikialasorsuaq project.</li> </ul>

## Wednesday, 4 December

Time	Room	Information
12:00 - 13:00	103	<p><b>Weston Family Northern Scientists Communications Workshop</b>  <i>Scholarship Partners Canada (on behalf of The W. Garfield Weston Foundation)</i>            Private (on invitation only)</p>
13:00 - 18:00	608	<p><b>NTRAIN planning meeting</b>  <i>Québec-Océan</i>            Private (on invitation only)</p>
16:00 - 18:00	502	<p><b>A Look Inside Cutting-edge Community-based Monitoring Technology</b>  <i>Trailmark</i>            Open (all are welcome)</p> <ul style="list-style-type: none"> <li>Inuit and First Nations across the North use technology to document their harvesting activities and observations about animals, fish, land, ice, and water. This information is vital to locally-informed resource management decisions. This session will provide a demonstration of one software tool and how it works to move information from local people to inform resource management questions, impact assessment, and adaptive wildlife management.</li> </ul>
17:30 - 19:30	501	<p><b>Canadian Society for Circumpolar Health Annual General Meeting</b>  <i>Canadian Society for Circumpolar Health</i>            Open (all are welcome)</p> <ul style="list-style-type: none"> <li>The Canadian Society for Circumpolar Health will be hosting an Annual General Meeting with new and returning members. This is an opportunity to learn about the activities of the Society, receive an update on the financial management of the organization, and provide input into priorities and the work plan for the coming year.</li> </ul>

## Thursday, 5 December

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Time	Room	Information
13:00 - 14:15	501	<p><b>The research icebreaker CCGS Amundsen</b> <i>Amundsen Science</i> Open (all are welcome)</p> <ul style="list-style-type: none"><li>• Amundsen Science welcomes all researchers and stakeholders interested in the management of the research icebreaker CCGS Amundsen to join us for a Town Hall meeting. The gathering will provide a venue to clarify the mandate of the organization, with a focus on the ship-time application process, financial framework and long-term planning of projects. Explanations on how the annual Arctic expedition is developed and coordinated in collaboration with the Canadian Coast Guard will also be provided. Please list your questions and join us to learn everything you always wanted to know about this unique national research facility!</li></ul>

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## Friday, 6 December

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Time	Room	Information
9:00 - 12:30	504	<p><b>Southampton Island Marine Ecosystem Project (SIMEP)/ArcticKelp</b> <i>Université Laval</i> Private (on invitation only)</p>

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# SIDE EVENTS PROGRAMME

## Monday, 2 December

Time	Room	Information
17:30 - 19:30	B1-B2	<b>Inuit Culture Night</b> <i>ArcticNet Student Ass. - Ikaarvik - Isuma</i> <ul style="list-style-type: none"><li>This year, Inuit Culture night is partnering with Ikaarvik and ISUMA to host Inuit games and ISUMA's series 'Hunting with my Ancestors'. Want to learn how to do a one-foot high kick? Or to muskox wrestle? Join us from 5:30 to 7pm for a casual and fun evening exploring Inuit culture through traditional games.</li></ul>

## Tuesday, 3 December

Time	Room	Information
13:00 - 14:15	B1-B2	<b>Networking Event</b> <i>ArcticNet</i> <ul style="list-style-type: none"><li>In response to feedback requesting more time to interact with researchers through post-conference surveys, the ASM Organizing Committee is proposing an innovative and creative activity for the ASM2019 program: the Networking Events. As ArcticNet enters a new 5-year funding cycle, these events represent an opportunity to provide the Arctic community with an overall picture of the renewed ArcticNet Core Research Program.</li></ul>
20:00	Plenary Room-B3	<b>Screening of a Zacharius Kunuk film</b> <i>Isuma Productions</i> <ul style="list-style-type: none"><li>Come experience Inuit culture through one of Isuma's critically acclaimed films. Screening will feature an introduction by an Isuma artist collective member.</li></ul>

## Wednesday, 4 December

Time	Room	Information
11:00 - 14:00	Argyle Atrium	<b>Taste of Nova Scotia</b> <i>Local Pop-Up Program</i> <ul style="list-style-type: none"><li>The Taste of Nova Scotia brings this province's amazing people, culture, and products directly to you! Drop by to sample local products for an authentic culinary experience!</li></ul>

## Wednesday, 4 December *(continued)*

Time	Room	Information
13:00	Plenary Room-B3	<p><b>SIKU Launch: The Indigenous Knowledge Social Network</b></p> <ul style="list-style-type: none"> <li>• SIKU.org is a social media technology platform and mobile app developed by and for Inuit. It includes timelines, maps, profiles and commenting/sharing as well as a GPS with traditional place names, weather, tides, satellite imagery, and ice safety services all in one place. With SIKU, Inuit can share hunting stories, observations about dangerous ice conditions, Inuit knowledge and retain ownership and control over their data and privacy for self-determination in research and stewardship. Come to the SIKU public launch to show your support and learn how you can get involved to use SIKU in your community or project.</li> </ul>
13:15 - 14:15	B1-B2	<p><b>Networking Event</b> <i>ArcticNet</i></p>
17:30 - 19:30	503	<p><b>Dive into Ocean School</b> <i>Ocean School</i></p> <ul style="list-style-type: none"> <li>• Come and discover Ocean School! A free, innovative inquiry-based learning experience that empowers the next generation with the knowledge and tools to take action on challenges that face the world's ocean. Our media focuses on students 11-15 years old and provides content for a variety of subjects through an ocean lens. Ocean School aspires to create learning material about the Arctic that is appropriate for both northern and southern communities. This side event will allow hands-on experience with Ocean School learning materials, create space for questions and conversations on how to move forward with Ocean School in the Arctic.</li> </ul>

## Thursday, 5 December

Time	Room	Information
16:00 - 18:00	B1-B2	<p><b>Networking Event &amp; Happy Hour</b> <i>ArcticNet</i></p>
17:45 - 19:00	C-5	<p><b>Canadian Museum of Nature 'Tales from the Field' cocktail hour</b> <i>Polar Knowledge</i></p> <ul style="list-style-type: none"> <li>• Polar Knowledge Canada and the Canadian Museum of Nature present "Tales From The Field," a cocktail hour aimed at celebrating Arctic research through quick and engaging tales of memorable and impactful field work experiences. Join us for an hour of fun culminating with the presentation of POLAR's 2019 Northern Science Award.</li> </ul>

# POSTER BOARD ALLOCATION

## Marine Systems

40 Alain Tremblay	85 Aurélie Noel
41 Caroline Bouchard	86 Inge Deschepper
42 Madison Harasyn	87 Andrew Murphy
43 Aitor Lekanda-Guarrotxena	88 Valérie Cypihot
44 Philip Sedore	89 Jade Brossard
45 Philippe-Olivier Dumais	90 Michael Piersiak
46 Pierre Priou	91 Tanya Brown
47 Brent Else	92 Alessia Guzzi
48 Emma Ausen	93 Myriam Caron
49 Robbie Bennett	94 Shabnam Jafarikhasragh
50 Fernando Sobral	95 Jackie Goordial
51 Kirsty Lees	96 Aura Diaz
52 Veronica Coppolaro	97 Mackenzie Martyniuk
53 Benjamin Richaud	98 Alison Cook
54 Colline Gombault	99 Stephen Insley
55 Joanie St-Onge	100 Bárbara de Moura Neves
56 Anne Corminboeuf	101 Satwant Kaur
57 Marie Pierrejean	102 Casey Hubert
58 Jean-Marie Trudeau	103 Michelle Kamula
59 Samantha Jones	104 Lina Rotermund
60 Anne-Sophie Fabris	105 Jonathan Fisher
61 Gabriel Joyal	106 Paul McCarney
62 Guillaume Bridier	107 Marsha Branigan
63 Priscilla Schmitz	108 Alexandra Mayette
64 Sydney Stashin	109 Cameron Fitzpatrick
65 Will Merritt	110 Emily Choy
66 Jean-Carlos Montero-Serranc	111 Paul Dainard
67 Tommy Pontbriand	112 Steven Duerksen
68 Eric Oliver	113 Jean-Pierre Auclair
69 Luke Storrie	114 Erin Hamilton
70 Brynn Devine	115 Donald McLennan
71 Lu Guan	116 Tara Boag
72 Laurissa Christie	117 Ross Bushnell
73 Benoit Montpetit	118 Zou Zou Kuzyk
74 Audrey Limoges	119 Rute Clemente-Carvalho
75 Jeannette Bedard	120 Bill Williams
76 Thomas Zagon	121 Madelaine Bourdages
77 Kimberly Ovitz	122 Kasey Ryan
78 Patrick Potter	123 Francis Beaudet
79 C.J. Mundy	124 Jérémie Bonneau
80 Jennifer Herbig	125 Adam Garbo
81 Megan Roberts	126 Jennifer Provencher
82 Guillaume Cinq-Mars	127 Meaghan Macquarrie
83 Patrick Jagielski	128 Joannie Charette
84 Sara Bolduc	

## Knowledge Transfer

17 Justin Berquist	29 David Fawcett
18 Hilary Sadowsky	30 Yukari Hori
19 Jodelle Degois	31 Cindy Marven
20 Katherine Wilson	32 Kelly Skinner
21 Gwenaëlle Gremion	33 Nicolas Durish
22 Sarah Flisikowski	34 Breanna Bishop
23 Jessica Smart	35 Helen Wheeler
24 Brianna Levenstein	36 Alyssa Sgro
25 Kerry Pippy	37 Emma Pirie
26 Verena Meraldi	38 Maia Hoeberechts
27 Vinko Culjak Mathieu	39 Shaomin Chen
28 Elie Dumas-Lefebvre	

## Terrestrial Systems

148 Anil Kumar Dr Bheemaiah	185 Marianne Gousy-Leblanc
149 Celtie Ferguson	186 Anthony Zerafa
150 Kayla Buhler	187 Jeremiah Lee
151 Hotaek Park	188 Alayna Smith
152 Julia Guimond	189 Alexandra Johnson
153 Dilshan Kariyawasam	190 Kethra Campbell-Heaton
154 Jacqueline Hung	191 Kristina Brown
155 Frédéric Dwyer-Samuel	192 Zoe Walker
156 Bay Berry	193 Fabien Mavrot
157 Mikhaela Neelin	194 Frances Amyot
158 Carla Guarraia	195 Mason Dominico
159 Moya Painter	196 Justin Kokoszka
160 Marley Aikens	197 Cléa Frapin
161 Alireza Saidi-Mehrabad	198 Duane Froese
162 Lauren Erland	199 Sarah Gauthier
163 Christina Braybrook	200 Debbie Jenkins
164 Stephan Gruber	201 Evan Koncewicz
165 Mikhail Maslov	202 Erica Geldart
166 Emilie Desjardins	203 Jean-François Lamarre
167 Kevin Turner	204 Angela Elgie
168 Catherine Mottram	205 Karine Rioux
169 Gautier Davesne	206 Jordan Seider
170 Taylor Larking	207 Nicola Shipman
171 Eliane Duchesne	208 Chantae Robinson
172 Trevor Stocki	209 Eliot Sicaud
173 Jason Bond	210 Kevin Young
174 Andrew Trant	211 Xavier Giroux-Bougard
175 Samantha Burke	212 Bridget Rusk
176 Adam Kuhrt	213 Erin Trochim
177 Thomas Pretty	214 Cedelle Pereira
178 Danika Ouellette	215 Gillian Holmes
179 Émilie Bouchard	216 Marlene Evans
180 Rachel Brown	217 Jinho Yoo
181 Pascale Ropars	218 Danielle Nowosad
182 Alejandro Alvarez	219 Adam Comeau
183 Keegan Smith	220 Emma Davis
184 Danielle Lemire	221 Zoe Panchen

## Inuit Health, Education and Adaptation

1 Arianne B. St-Amour	9 Brent Puqignak
2 Gabe Woollam	10 Mariana Pontual
3 Jennifer Shea	11 David Borish
4 Stephanie Guilherme	12 Brittany Curry-Sharples
5 Jacqueline Middleton	13 Shirin Nuesslein
6 Nicolien van Luijk	14 Mélanie Lemire
7 Esther Osborne	15 Frankie Jean-Gagnon
8 Trevor Bell	16 Laura Eerkes-Medrano

## Northern Policy and Development

129 Nicole Wilson	139 Talia Wells
130 Erika Zell	140 Sara Vanderkaden
131 Gloria Song	141 Katherine Minich
132 Arshad Khalafzai	142 Charles-Olivier Simard
133 Joe Collier	143 David Simms
134 Justin Adams	144 Vincent Taillard
135 Julia Gyapay	145 Siobhan Doria
136 Stephanie Potter	146 Ronald Pelot
137 Rabia Kalfaoglu	147 Mark Stoddard
138 Maxime Geoffroy	

# POSTER BOARD FLOOR PLAN

Knowledge Transfer	Terrestrial Systems
Marine Systems	Inuit Health, Education and Adaptation
Northern Policy and Development	

207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222
206	205	204	203	202	201	200	199	198	197	196	195	194	193	192	191

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72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55

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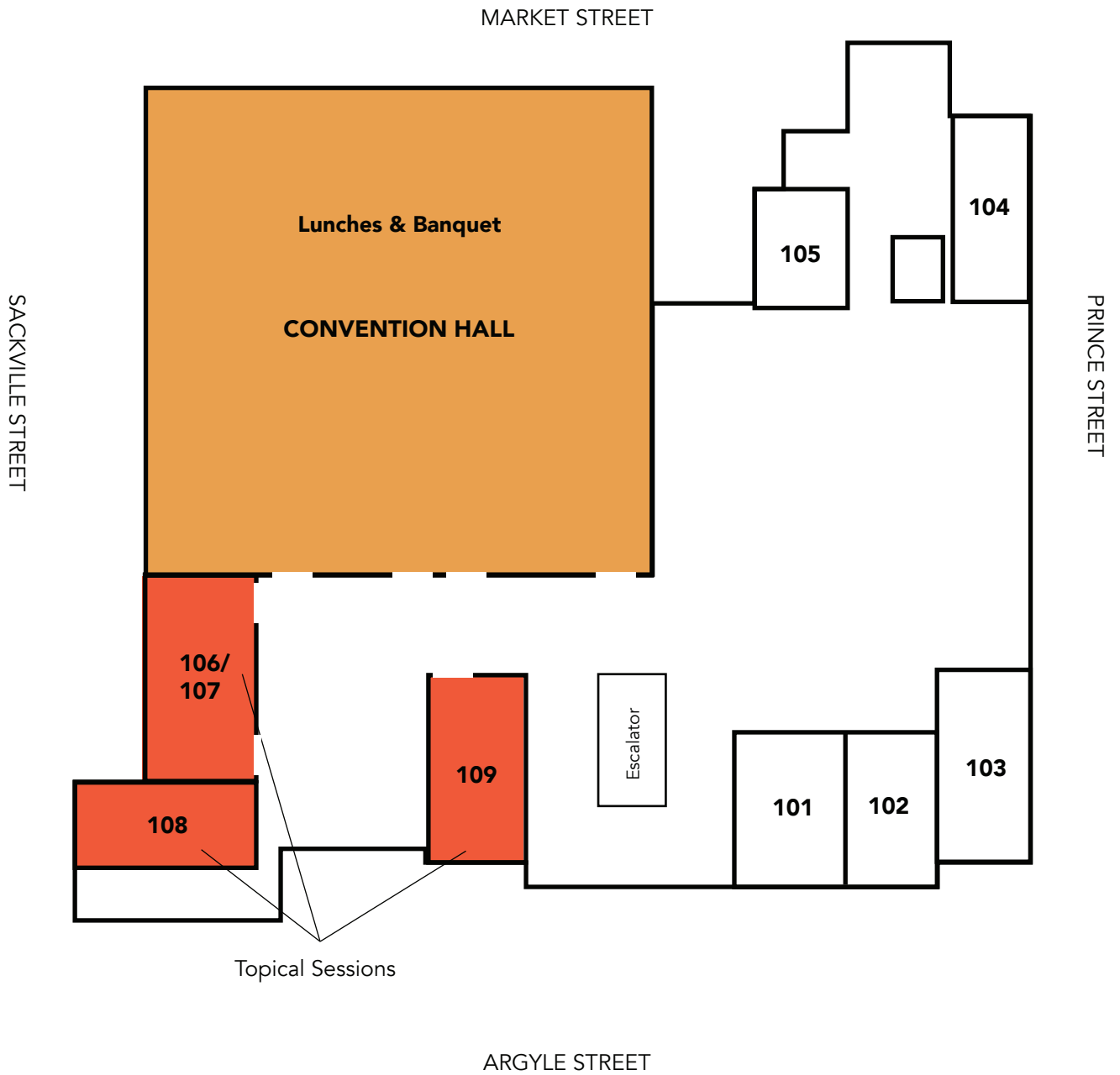
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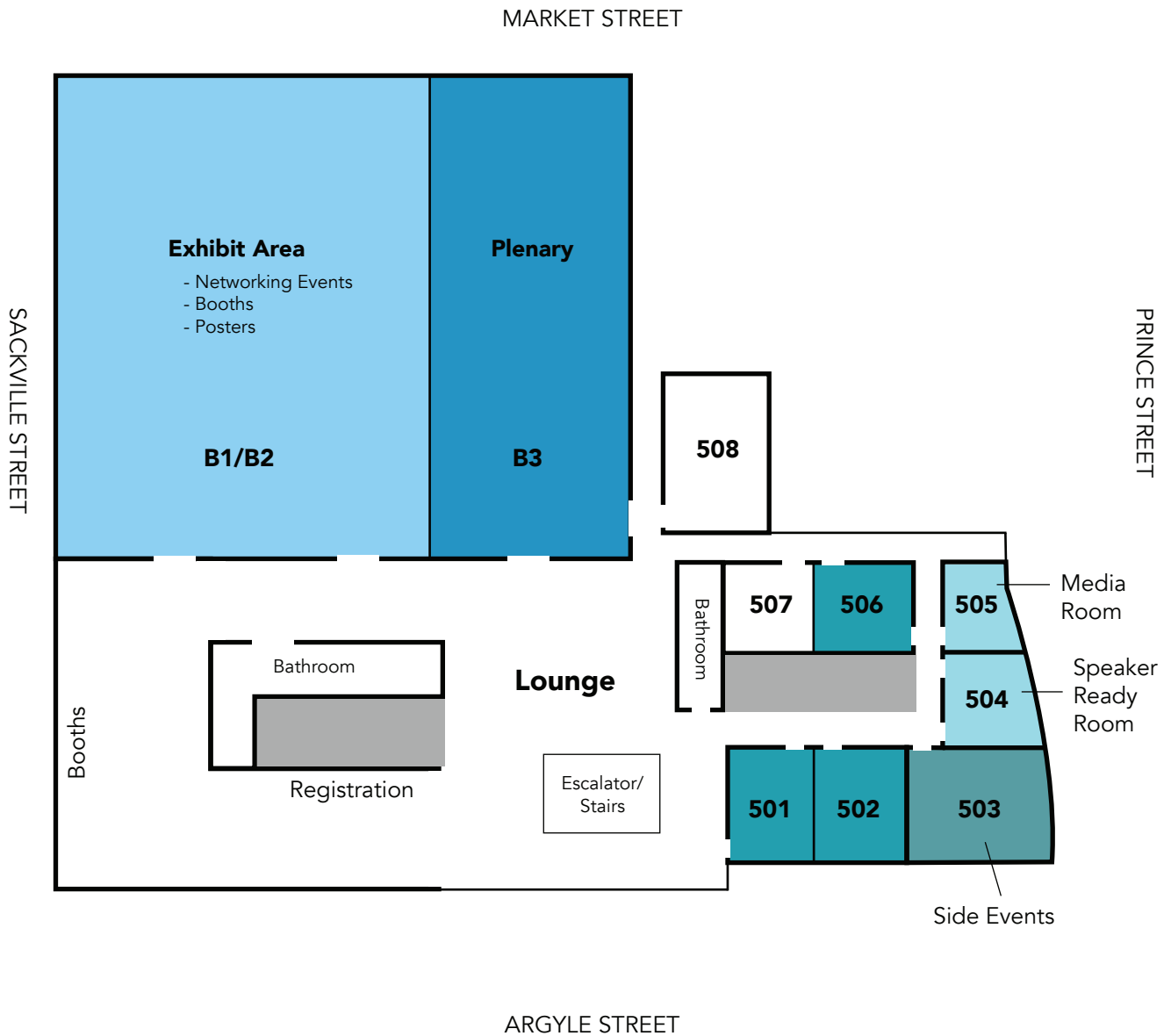
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# CONVENTION HALL LEVEL



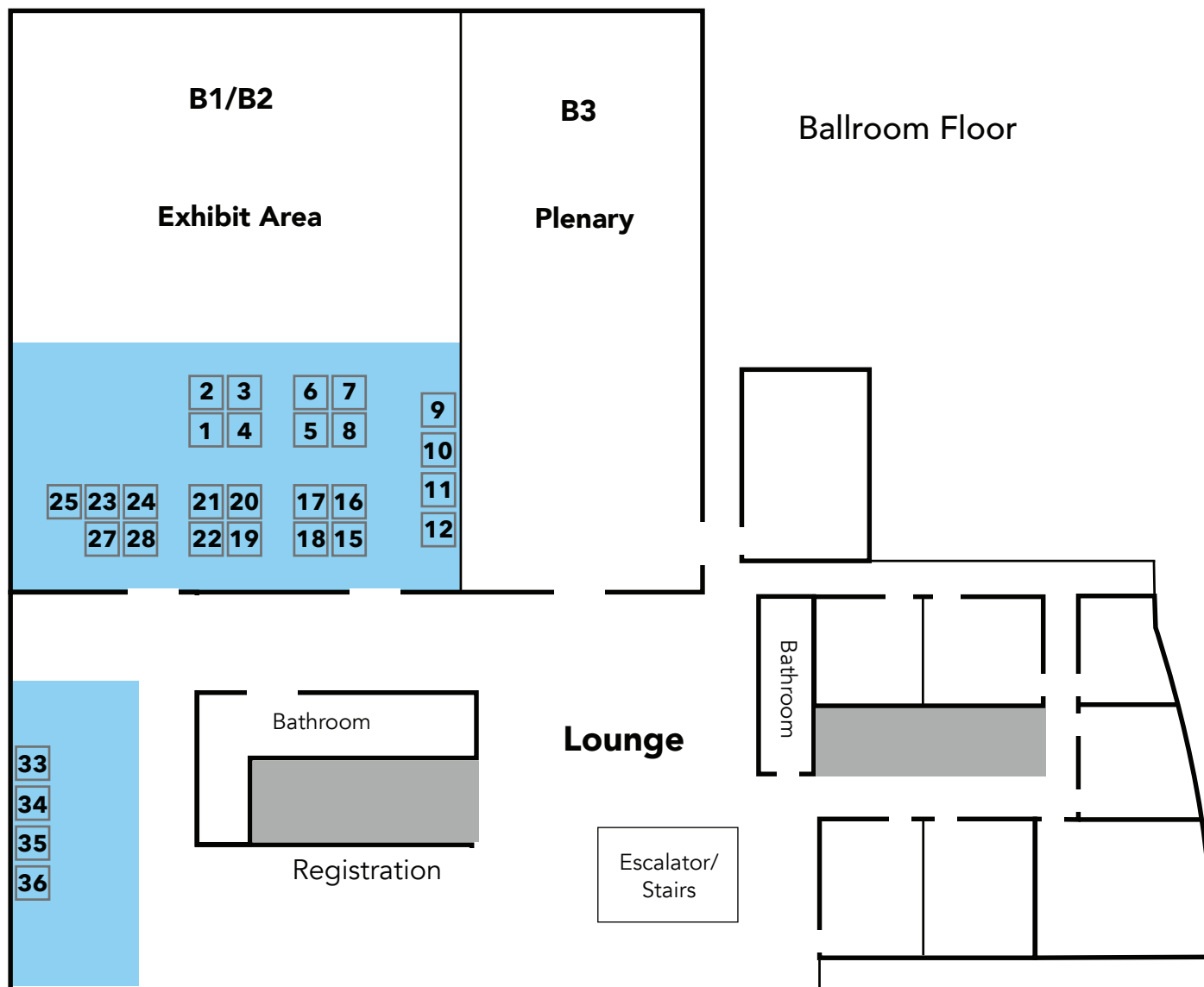
# BALLROOM LEVEL



# SUMMIT LEVEL



# EXHIBITOR PLAN



- |   |   |
|---|---|
| 1. MEOPAR   | 17. RBR   |
| 2. Northern Contaminants Program                            | 18. SmartICE Sea Ice Monitoring & Information Inc |
| 3. Hoskin Scientific  | 19. UMI TAKUVIK CNRS et Université Laval          |
| 4. ROMOR  | 20. Ocean Sonics                                  |
| 5. Inuit Tapiriit Kanatami                                  | 21. Polar Knowledge Canada                        |
| 6. Canadian Science Publishing                              | 22. Christine Koch Studio                         |
| 7. Geological Survey of Canada - Atlantic                   | 23. Amundsen Science                              |
| 8. Trailmark Systems  | 24. Ocean Networks Canada                         |
| 9. Aurora Research Institute/Western Arctic Research Centre | 25. JASCO Applied Sciences (Canada) Ltd           |
| 10. Nunavik Geomatics                                       | 27. Statistics Canada                             |
| 11. INTERACT  | 28. Arctic Institute of North America             |
| 12. Eeyou Marine Region                                     | 33. Arctic Eider Society                          |
| 15. Canadian Space Agency/Agence spatiale canadienne        | 34. Québec-Océan                                  |
| 16. CMOS Arctic Special Interest Group                      | 35. Institut nordique du Québec                   |
|   | 36. Sentinelle Nord                               |

# SAVE THE DATE !!

## ARCTIC CHANGE 2020

AC2020 will be held in  
Toronto ON, Canada  
7-10 December 2020

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