



## **2017 ARCTIC CIRCLE ASSEMBLY**

### **OCTOBER 13-15**

#### **Program Draft: September 18<sup>th</sup> Version**

The timing and the length of each session is subject to change.  
All speakers are confirmed except those marked \*.  
More speakers will be added in the coming weeks.

### **THURSDAY, OCTOBER 12: PRE-EVENTS**

09:00 – 16:00 **ENERGY IN THE ARCTIC: A FIRSTHAND PERSPECTIVE**

Location: Reykjavík University

Organized by the Iceland School of Energy at Reykjavík University

*Workshop open to all Assembly participants*

#### **INTRODUCTION**

- Ari Kristinn Jónsson, Rector, Reykjavík University
- Robert Sauvé, President, Société du Plan Nord

#### **SESSION 1**

- Hakim Nesreddine, Hydro-Québec
- Oli Gretar Sveinsson, Director, Landsvirkjun
- Árni Snorrason Director General, Iceland Met Office
- Jasmin Raymond, Professor, INRS
- Juliet Newson, Director, Iceland School of Energy

#### **SESSION 2**

- Erwan Gloaguen, Canada Research Chair in Assimilation of Geological and Geophysical Data for Stochastic Geological Modelling, INRS
- Taha Ouarda, Professor, INRS
- René Therrien, Professor, Université Laval
- Louis Fortier, Scientific Director, Institut nordique du Québec

### 12:00 – 20:00 MUNICH SECURITY CONFERENCE: ARCTIC SECURITY ROUNDTABLE

Locations: Harpa, Höfði House (location of the Reagan-Gorbachev Summit),  
MSV Nordica Icebreaking Vessel

*By invitation only*

### 13:00 – 17:30 THE NORDIC UNIVERSITIES' ROLE IN THE NEW ARCTIC

Locations: University of Iceland

Organized by: Nordic University Rectors Conferences (NUS)

*By invitation only*

### 15:00 – 18:00 ARCTIC CIRCLE ADVISORY BOARD MEETING

## REGISTRATION 13:00 – 18:00

Location: Harpa

## WELCOME RECEPTION 18:00 – 20:00

Location: Reykjavík Art Museum – Harbour House (Hafnarhúsið)

*Open to all Assembly participants*

## EXHIBITIONS AT HARPA

### ICESCAPES: PHOTOGRAPHY BY ÁSGEIR PÉTURSSON

Location: Hafnarbraut, Harpa Ground Floor

### THE ARCTIC MELT: PHOTOGRAPHY BY DIANE TUFT

Location: Norðurbryggja, Harpa Ground Floor

### ON THIN ICE: THE LANCE EXPEDITION

Location: Harpa Second Floor (see map)

*Arranged by the Government of Norway*

### POLAND AND THE ARCTIC:

#### FROM LONG TRADITION TO MODERN STUDIES OF THE ARCTIC SYSTEM

Location: Sky Staircase, Harpa Second-Fourth Floor

*Arranged by the Government of Poland*

## FINNISH MULTIPURPOSE ICEBREAKER MSV NORDICA

The Finnish Icebreaker MSV Nordica will be docked at Miðbakki berth just outside Harpa in Reykjavík's Old Harbour and is available for visits as well as meetings, networking and other events.

# FRIDAY, OCTOBER 13: PLENARY SESSIONS

Location: Harpa

07:30 – 17:00 REGISTRATION

08:30 – 09:30 WELCOME

- H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle, former President of Iceland

## OPENING SESSION I

- Bjarni Benediktsson, Prime Minister of Iceland
- Okalik Egeesiak, Chair of the Inuit Circumpolar Council
- Bob McLeod, Premier of the Northwest Territories
- Suka K. Frederiksen, Minister of Independence, Foreign Affairs and Agriculture, Government of Greenland
- Poul Michelsen, Minister of Foreign Affairs and Trade, Government of the Faroe Islands

## OPENING SESSION II: THE ARCTIC IN THE *BELT AND ROAD* INITIATIVE

- Lin Shanqing, Deputy Administrator, State Oceanic Administration, People's Republic of China

## OPENING SESSION III: THE FUTURE OF THE ARCTIC – A RUSSIAN VISION

- Vladimir Barbin, Ambassador for Arctic Affairs, Russian Federation

## OPENING SESSION IV: THE ARCTIC ENGAGEMENT OF ASIA

- Keiji Ide, Ambassador in charge of Arctic Affairs, Ministry of Foreign Affairs of Japan
- Kim Young-jun, Ambassador for Arctic Affairs, Ministry of Foreign Affairs of the Republic of Korea
- Gao Feng, Special Representative for Arctic Affairs, Foreign Ministry of the People's Republic of China

09:30 – 10:00 THE WAY FORWARD IN GLOBAL CLIMATE COOPERATION

## KEYNOTES

- Patricia Espinosa, Executive Secretary of the United Nations Framework Convention on Climate Change (UNFCCC)
- Chengyu Fu, member of the United Nations Global Compact Board; former Chairman of the Board, Sinopec

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10:00 – 10:15 COFFEE BREAK

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## FRIDAY, OCTOBER 13

### 10:15 – 10:40 A DIALOGUE WITH NICOLA STURGEON, FIRST MINISTER OF SCOTLAND

- Nicola Sturgeon, First Minister of Scotland

### 10:40 – 11:20 THE ROADMAP: CLIMATE – ENERGY – NATURE

#### INTRODUCTION

- H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle, former President of Iceland

#### SPEAKERS

- Laurene Powell Jobs, Founder & President, Emerson Collective
- Andy Karsner, Managing Partner, Emerson Collective; Senior Strategist & Space Cowboy, X; former United States Assistant Secretary for Energy Efficiency and Renewable Energy
- Peter Seligmann, Chairman of the Board, Conservation International

### 11:20 – 11:45 THE CLEAN ENERGY AND CLIMATE VISION OF THE UNITED ARAB EMIRATES

#### KEYNOTE

- H.E. Dr. Thani Al Zeyoudi, Minister of Climate Change and Environment, United Arab Emirates
- Dr. Nawal Al-Hosany, Executive Director of Sustainability and Brand, Masdar; Director of the Zayed Future Energy Prize\*

#### VIDEO PRESENTATION

### 11:45 – 12:00 LESSONS FROM THE UNITED STATES CHAIRMANSHIP OF THE ARCTIC COUNCIL

#### SPEECH

- John Holdren, former Science Advisor to the President of the United States; Chairman of the White House Executive Steering Committee on the Arctic

### 12:00 – 12:15 FROM THE ARCTIC TO THE UNIVERSE:

- Huigen Yang, Director General, Polar Research Institute of China (PRIC)

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## NETWORKING LUNCH 12:15 – 13:00

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**FRIDAY, OCTOBER 13**

## **BREAKOUT SESSIONS 13:00-14:00**

### **13:00 – 14:00 SECURITY AND INSECURITY IN THE ARCTIC AND HIGH NORTH: CURRENT TRENDS AND FUTURE ISSUES**

Organized by the University of York and the Hull Marine and Maritime Institute (University of Hull, UK).

#### **SPEAKERS**

Caroline Kennedy-Pipe, University of Hull: Whose Security? The Arctic, its People and its Resources

James I. Rogers, University of York: Arctic Drones and Emerging Technologies

**Chair:** James I. Rogers, University of York

### **13:00 – 14:00 NORTH IN FOCUS: YOUTH VOICES OF INTEGRATIVE MENTAL HEALTH AND SUICIDE AWARENESS**

Organized by North in Focus Mental Health Organization

#### **SPEAKERS**

Eva Wu - Co-Founder, Finance and Media Coordinator of North in Focus; Duke and Duchess of Cambridge Youth Ambassador for Parks Canada: The History of North in Focus and the Power of Communication through Photography.

Ashley Cummings - Northern Consultant, Alumni and Ambassador Coordinator of North in Focus: Personal Experience of Mental Health in the North and the Wellness Attached to Culture and Intergenerational Healing.

### **13:00 – 14:00 SHIPPING REGULATION, EMERGENCY PREPAREDNESS AND RESPONSE IN THE BERING STRAIT REGION**

Organized by WWF-Russia and WWF-US (Arctic Program)

#### **SPEAKERS**

Rebecca Pincus, US Coast Guard, Center for Arctic Study and Policy: Global insights for transboundary waterways management in sensitive and congested maritime spaces

Vladimir Vasilyev, Deputy Director, Central Marine Research & Design Institute of the Russian Federation (Safety of Navigation and Maritime Law): Ship Routeing measures in the Russian Federation and its particularities in the Arctic and the Bering Strait

Alexander Moiseev, WWF-Russia Marine Program: Shipping threats in the Bering Strait and potential protective measures

Elena Agarkova, Esq., WWF-US Arctic Program: Bering Beaufort Chukchi Ecosystem – Shared Marine Values

## FRIDAY, OCTOBER 13

Mike Emerson, Director of Marine Transportation Systems, United States Coast Guard: U.S. approach to decreasing risks of shipping in the Bering Strait and opportunities for bilateral cooperation  
Representative of the Russian Ministry of Transportation: Safety of navigation in the Russian Arctic/Bering Strait

### 13:00 – 14:00 LEADING TODAY: ARCTIC YOUTH BUILDING A TRANSITION TO RENEWABLE ENERGY

Organized by: Yale University School of Forestry and Environmental Studies

#### SPEAKERS

Esau Sinnok, Arctic Youth Ambassador, United States Department of Interior; resident of Shishmaref, Alaska: Indigenous Alaskan youth on the frontlines of climate change  
Leehi Yona, Canada's Top Environmentalist Under 25; Interdisciplinary Researcher – Master of Environmental Science, Yale University: Empowering Canadian Arctic youth using renewable energy  
Tristan Glowa, Fairbanks Climate Action Coalition: Lessons from Norway and Fairbanks, Alaska: youth and natural resource economies

### 13:00 – 14:00 HYDROCARBON REGULATORY/OPERATIONAL SAFETY REGIMES IN HIGH-STAKES ARCTIC ENVIRONMENTS

Organized by: SE2T International, Ltd., USA

#### SPEAKERS

June Borge Doornich, Associate Professor in Strategy and Control, Business School, Nord University: Regulative regimes for oil spill preparedness and response in the Barents Sea: A High Stake environment in the Arctic  
Celma Regina Hellebust, Lawyer, member of the Brazilian and Norwegian Bar Associations. Business consultant on Brazilian and Norwegian Health, Safety and Environment (HSE) regulations for the petroleum industry, and  
Raphael Moura, PhD Student, Institute for Risk and Uncertainty University of Liverpool's; Safety, Risk and Uncertainty Specialist on leave from the Brazilian oil and gas industry regulator (ANP): Brazil as an example for oil spill prevention regulations in high-stakes environments  
Alexander Shestakov, Director, WWF Arctic Programme: Oil & Gas liability and stranded assets in the Arctic, visions and recommendations of the WWF Global Arctic Programme  
Ekaterina Sokolova, Head of East Arctic Research Center; Researcher, Center for maritime international studies, Admiral Nevelskoy Maritime State University: Modern Arctic vessels of the Russian merchant marine fleet and ecological safety  
Yuriy Zhuravel, Vice-rector, International Relations, Admiral Nevelskoy

## FRIDAY, OCTOBER 13

Maritime State University: Forces and means of search and rescue service of marine activities in the Arctic

**Chair:** Sergio C. Trindade. President, SE2T International, Ltd. sustainable business consultants

### 13:00 – 14:00 UNITED KINGDOM: SCIENCE, INNOVATION AND INTERNATIONAL COOPERATION IN ARCTIC RESEARCH

Organized by The Natural Environment Research Council (NERC) Arctic Office, United Kingdom. In association with the British Antarctic Survey & Scottish Association for Marine Science

#### SPEAKERS

Mark Brandon, Reader in Polar Oceanography, The Open University: Cutting-edge ways to communicate Arctic change

Kirsty Crocket, Science Coordinator, NERC Changing Arctic Ocean Programme, Scottish Association for Marine Science: The Changing Arctic Ocean: An overview of the programme's aims and the projects involved

Tim Stockings, Operations Director, British Antarctic Survey: A new polar research ship for the United Kingdom: RRS Sir David Attenborough

Henry Burgess, Head, NERC Arctic Office: Building national and international connections: the role of the NERC Arctic Office

**Chair:** Dame Jane Francis, Director, British Antarctic Survey

### 13:00 – 14:00 A NEW OCEAN ON TOP OF THE WORLD - CHALLENGES AND OPPORTUNITIES FOR ITS PROTECTION AND GOVERNANCE

Organized by Greenpeace Nordic

#### SPEAKERS

Magnus Eckeskog, Greenpeace Nordic: Introduction

Timo Koivurova, Director of Arctic Centre in Finland, University of Lapland: Governance of the Arctic marine environment - opportunities and challenges

Kristina Gjerde, High Seas Policy Advisor IUCN: A UN treaty to protect biodiversity in Areas Beyond National Jurisdiction

Veronica Frank, Political Advisor, Greenpeace International: Greenpeace's vision for ocean governance

**Chair:** Magnus Eckeskog, Greenpeace Nordic

## FRIDAY, OCTOBER 13

### 13:00 – 14:00 POLICY NETWORKS AND ARCTIC GOVERNANCE: SCIENCE AND BUSINESS

Organized by: the Norwegian Institute of International Affairs (NUPI) and Fridtjof Nansen Institute (FNI)

#### SPEAKERS

Svein Rottem, FNI: Policy networks and oil spill prevention  
Christian Prip, FNI: Policy networks and Arctic biodiversity  
Leif Jensen, FNI: Policy networks – comparison to Antarctica  
Indra Overland, NUPI: Arctic Corporate Responsibility Index

#### PANELISTS

Martin Sommerkorn, Head of Conservation, WWF Arctic Programme  
Emma Wilson, Scott Polar Research Institute/ECW Consulting  
Anatoli Bourmistov, High North Centre for Business, Nord University  
Michael Denison, Group Political Advisor, BP

**Chair:** Elana Wilson Rowe (NUPI)

### 13:00 – 14:00 THE EFFECTS OF CLIMATE CHANGE ON ELECTRICITY PRODUCTION IN RENEWABLE SYSTEMS

Organized by Landsvirkjun, the National Power Company of Iceland

#### SPEAKERS

Hörður Arnarson/Ragna Árnadóttir: Producing power from renewable sources and the importance of understanding our climate  
(TBC): Expected effects of a changing climate on Iceland's glaciers  
Úlfar Linnét: How changing glaciers affect electricity production and system planning in a closed, renewable system

### 13:00 – 14:00 MAINE BUSINESS AND THE ARCTIC - BUILDING RELATIONSHIPS

Organized by the Maine Department of Transportation

#### SPEAKERS

David Bernhardt, Commissioner, Maine Department of Transportation:  
Building Relationships in the Transportation Sector: Building Relationships in the Transportation Sector  
Larus Isfeld, Managing Director & Executive Vice President, Eimskip USA:  
Building Relationships: Eimskip and Maine  
Peter Handy, President & CEO, Bristol Seafood: Building Relationships in the Fisheries Sector  
Mark Hopkins, Business Development, Hancock Lumber: Maine Building Materials In The Arctic  
Patrick Arnold, Co-Founder & CEO, New England Ocean Cluster : Building Relationships: Iceland and Maine  
Dana Eidsness, Director, Maine North Atlantic Development Office



## FRIDAY, OCTOBER 13

(MENADO), Maine International Trade Center: Developing Trade Relationships in the North Atlantic

### 13:00 – 14:00 IN THE CENTRE OF GREENLAND CLIMATE RESEARCH

Organized by the Greenland Climate Research Centre at the Greenland Institute of Natural Resources.

#### SPEAKERS

Malene Simon, Head of the Greenland Climate Research Centre: New strategy for the Greenland Climate Research Centre.

Lorenz Meire, PostDoc, Greenland Climate Research Centre: Effects of glacial melt on marine ecosystems.

Diana Krawczyk, Scientist, Greenland Climate Research Centre: Benthic Mapping in the Arctic.

Caroline Bouchard, Scientist at the Greenland Climate Research Centre: Pelagic Ecosystem Monitoring.

### 13:00 – 14:00 RESPONSIBLE TOURISM IN THE ARCTIC

Organized by Festa – the Icelandic Center for CSR and the Iceland Tourism Cluster

#### SPEAKERS

Ketill Berg Magnússon, Managing Director of Festa – Icelandic Center for CSR: What can we learn from the Icelandic Responsible Tourism initiative?

Sigurður Jónsson, owner Aurora-Arktika expedition sailboats – Ísafjörður, Iceland: Touching the untouched with respect

Kelly S. Bricker, Vice-Chair of GSTC and Associate Professor at the University of Utah in Parks, Recreation, and Tourism: Global standards for Sustainable Tourism

Ásta Kristín Sigurjónsdóttir, CEO of Iceland Tourism Cluster: The Value of Sustainable Tourism in the Arctic

## PLENARY SESSIONS 14:00-16:00

### 14:00 – 14:30 DIALOGUE WITH SENATOR LISA MURKOWSKI

- Lisa Murkowski, United States Senator from Alaska

**Chair:** Jane Harman, President and CEO, Wilson Center

### 14:30 – 15:15 JUST PEACE WITH EARTH

#### KEYNOTE

- Speaker to be announced

## FRIDAY, OCTOBER 13

### PANEL

- Anders Wejryd, Archbishop Emeritus of Uppsala; Primate Emeritus of Sweden; European President, World Council of Churches
- Frances Namomou, Coordinator, Pacific Conference of Churches, Fiji

15:15 – 16:00 **OBSERVING AND RESPONDING TO A CHANGING ARCTIC**  
Organized by THE WORLD METEOROLOGICAL ORGANIZATION (WMO)

Video Message: HSH Prince Albert II of Monaco

### PANEL

- Petteri Taalas, Secretary General World Meteorological Organization
- Kelly Falkner, Director, Office of Polar Programs, National Science Foundation (NSF)
- Larry Hinzman, Vice-President International Arctic Science Committee (IASC)
- Marianne Kroglund, Chair of the Arctic Council's Arctic Monitoring and Assessment Programme (AMAP)
- Andrea Tilche, Head of the Climate action and Earth observation Unit

**Moderator:** David Eades, BBC

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16:00 – 16:15 **COFFEE BREAK**

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## BREAKOUT SESSIONS 16:15-17:45

16:15 – 17:45 **NORTHERN SUSTAINABLE DEVELOPMENT CHALLENGES: A COMPARATIVE APPROACH**

Organized by the Government of Quebec

### SPEAKERS

- Robert Sauvé, President and CEO, Société du Plan Nord of Québec: Québec Arctic Forum Synthesis; Québec Northern governance: a model?
- Louis Fortier, Scientific director and innovation of Institut nordique du Québec (INQ), Université Laval, Québec: Northern Sustainable Development : a scientific perspective
- Jasmin Raymond, INQ-INRS Chairholder on Northern Geothermal Potential Research, Québec: Are geothermal technologies a solution to energy challenges faced in Nunavik?
- Juliet Newson, Director, Iceland School of Energy, Reykjavik University: The challenges of geothermal energy in Iceland

## FRIDAY, OCTOBER 13

Murray Humphries INQ-McGill Chairholder in Northern Research-Wildlife Conservation and Traditional Food Security, Québec: The traditional food systems of Indigenous Peoples of Northern North America

Gert Mulvad MD, GP, Doctor h.c., Greenland Center for Health Research, Ilisimatusarfik, University of Greenland: Traditional Food, Benefit/Risk communication in Arctic communities

Adamie Delisle Alaku, Vice-president, Renewable Resources, Makivik Corporation, Québec: Nunavik Park Model

**Moderator:** Maryse Lassonde, Scientific Director of the Québec Nature and Technology Research Fund

### 16:15 – 17:45 ARCTIC INNOVATION LAB: TEN IDEAS FOR A BETTER ARCTIC

Organized by the Harvard Kennedy School of Government, the Iceland School of Energy at Reykjavík University, University of Greenland, the Fletcher School at Tufts University and the University of Iceland.

Speakers to be announced.

### 16:15 – 17:45 GLOBAL PERSPECTIVES ON TRADITIONAL KNOWLEDGE, SCIENCE AND CLIMATE CHANGE

Organized by Conservation International

Speakers to be announced.

### 16:15 – 17:45 ARMS RACE, ARMS CONTROL AND DISARMAMENT IN THE ARCTIC – RUSSIAN-US DIALOGUE

Organized by NRF-UArctic Thematic Network on Geopolitics and Security

#### SPEAKERS

Andrei Zagorski, Professor and Head of Department, Institute of World Economy and International Relations of RAS: State of Arctic security – a Russian Point of View

Michael T. Corgan, Associate professor, Pardee School at Boston University: America First or Arctic first: Changing US Priorities for the Arctic

Valery Konyshov, St. Petersburg State University: Russian Military Modernization Programs' Implications for the Regional Security Regime in the Arctic

Karen Everett, PhD Candidate, Trent University, Ontario: North American Arctic Border Management as a Strategy for Comprehensive Regional Security?

**Moderator:** Raimo Väyrynen, Professor, University of Lapland

## FRIDAY, OCTOBER 13

### 16:15 – 17:45 THE BLUE AND THE GREEN ARCTIC – CHALLENGES AND OPPORTUNITIES

Organized by FRAM – High North Research Centre for Climate and the Environment (The Fram Centre)

#### SPEAKERS

Øyvind Fylling-Jensen, CEO – Managing Director NOFIMA: Sustainably exploiting the arctic marine potential

Per Fauchald, Norwegian Institute for Nature Research/The Fram Centre: SEATRACK – Large Scale Seabird Tracking in the Northeast Atlantic

Rolf A. Ims, The Arctic University of Norway/The Fram Centre: Adaptive long-term research in the face of the climate change

Tore Henriksen, Professor, UIT The Arctic University of Norway, Tromsø: Regulating Arctic Shipping: Political, legal, technological and environmental Challenges

**Chair:** Jo Jorem Aarseth, Research Coordinator at the Fram Centre

### 16:15 – 17:45 EU ARCTIC POLICY: CLIMATE CHANGE, SCIENCE AND SAFEGUARDING THE ARCTIC ENVIRONMENT

Organized by ICE-ARC

#### SPEAKERS

Lene Kielsen Holm, Greenland Climate Research Centre, Greenland. Scientist and project leader: Sustainability and environmental pressures on Arctic communities

Hanne Christiansen, The University Centre in Svalbard, Norway, President, International Permafrost Association: Permafrost expert: Thawing permafrost and its impact on Arctic landscapes and infrastructures

Jonathan Bamber, University of Bristol, UK, President, European Geosciences Union: Ice sheet expert: The melting of the Greenlandic ice sheet and its contribution to global sea level rise

Daniela Domeisen, GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany: Improved predictions for safeguarding Arctic development

Rene Forsberg, Danish Technical University-Space: The role of satellite observations in monitoring the Arctic

Kaarle Kupiainen, Finnish Environment Institute, co-chair of the AMAP EG on short-lived climate pollutants: Emissions and mitigation options for short-lived climate pollutants

**Chair:** Jeremy Wilkinson, British Antarctic Survey, Coordinator of EU project ICE-ARC.

## FRIDAY, OCTOBER 13

### 16:15 – 17:45 FULBRIGHT IN THE ARCTIC – MEET THE SCIENTISTS

*Invitation to engage with Fulbright Arctic research scientists and provide input into their work*

Organized by the Iceland-US Fulbright Commission in cooperation with the United States State Department's Bureau of Educational and Cultural Affairs and the National Science Foundation.

#### SPEAKERS

Belinda Theriault, Executive Director, Fulbright Commission Iceland, and Dr. Michael Hawes, Chief Executive Officer, Fulbright Canada: An overview of Fulbright opportunities in the Arctic.

#### PANELISTS

Bradley Barr, University of New Hampshire, Affiliate Professor, School of Marine Sciences & Ocean Engineering, Fulbright-NSF Arctic Research Scholar at the Stefánsson Arctic Institute: Preserving whaling heritage in Iceland

John Bodinger, Chair, Department of Sociology & Anthropology; Associate Professor of Anthropology; Susquehanna University, Fulbright-NSF Arctic research scholar at the University of Iceland: Museums and Sovereignities: Displaying "the National" as Public Identity Narrative

Jay Nelson, Professor of Biological Sciences, Towson University, Fulbright-NSF Arctic research scholar at Hólar University College: How Will Arctic Fish Deal with Future Climatic alterations of temperature and flow?

Charles Norchi, Professor of Law, Director, Center for Oceans and Coastal Law and Chair of Graduate Law Programs at the University of Maine, Fulbright-Ministry for Foreign Affairs Arctic Scholar at the Universities of Iceland and Akureyri: The Constitutive Process of the Arctic - How Law is Made and Applied

Virginia Vitzthum, Professor of Anthropology, Indiana University, Fulbright-NSF Arctic Research Scholar at the University of Iceland: Effects of Seasonal Variation in Photoperiod on the Behaviours and Physiology of Icelandic Women

Christina Anaya, PhD student in biology at Oklahoma State University, Fulbright-NSF Arctic Research Fellow, Hólar University College: Freshwater and Marine Snails as Parasite Biodiversity Indicators in Iceland

David Prieto, independent research, Columbia University, Fulbright-NSF Arctic Research fellow at the Stefánsson Arctic Institute and the University of Iceland: Investigating the benefits of a Marine Protected Area over the Central Arctic Ocean

**Chair:** Belinda Theriault, Executive Director, Fulbright Commission Iceland

## FRIDAY, OCTOBER 13

### 16:15 – 17:45 THE NORDIC UNIVERSITIES' ROLE IN THE NEW ARCTIC

Organized by AAU Arctic, Aalborg University

#### SPEAKERS

Per Michael, Rector Aalborg University, Chair of the board of Nordic Universities Association: Opening remark

Anne Husebekk, Rector UiT, Tromsø University: Sustainable business development

Timo Koivurova, Director of Arctic Centre in Finland, University of Lapland: Climate and environmental protection

Lill Rastad Bjørst, Research Coordinator, AAU Arctic: Robust and independent welfare communities

Anne Merrild Hansen, Ilisimatusarfik, Professor at Ilisimatusarfik, University of Greenland: Education and cooperation

**Chair:** Henrik Halkjær, Dean of the faculty of Humanities at Aalborg University and head of the board of AAU Arctic

### 16:15 – 17:45 VOICE OF YOUTH:

#### HOW TO BUILD A SUCCESSFUL ARCTIC YOUTH ENGAGEMENT PROGRAM

Organized by the Conservation of Arctic Flora and Fauna (CAFF) Arctic Council Working Group and the United States Fish and Wildlife Service

#### SPEAKERS

Ann Mayo-Kiely: Education Program Director for Alaska Geographic Association of World Reindeer Herders

Svein Mathiesen, Association of World Reindeer Herders (youth panelist) (confirmed, awaiting info on speaker)

Jeehye Kim, Republic of Korea, representing the 'Korea Arctic Academy' (youth panelist)

Gina Goh, Republic of Singapore, representing a number of Arctic youth programs in Singapore

Maka Monture, Youth Programs Fellow, U.S. Arctic Youth Ambassador Program

**Chair:** Gilbert Castellanos, U.S. Head of Delegation to the CAFF Working Group, U.S. Department of the Interior:

## FRIDAY, OCTOBER 13

### 16:15 – 17:45 ECONOMIC DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP IN THE ARCTIC

Organized by the Nordic Council of Ministers (NCM) and the Arctic Economic Council (AEC)

#### SPEAKERS

Nauja Bianco, Nordic Council of Ministers: Welcome and introduction – “The change agents of tomorrow – Promoting a pan-Arctic business community through Nordic facilitation”

Jakob Wichmann, CEO and Co-founder, Voluntas Advisory: Presentation of preliminary findings of the Arctic Business Analysis

Mikhail Pogodaev, Chair, Association of World Reindeer Herders, Director of The Northern Forum: Indigenous people’s perspective on business development in the Arctic

#### CASE DISCUSSIONS

Robert Gudfinnsson, CEO of Genis, entrepreneur and investor (Iceland):  
How to drive innovation and entrepreneurship in the Arctic region

Stephen Hart, Head of Office, European Investment Bank: Financing business development and investments in the Nordic Arctic – opportunities and demand

Thomas Westergaard, Senior Vice President, Hurtigruten: New Nordic Cuisine as a Competitive Advantage in Arctic Tourism.

Liv La Cour Belling, Project Coordinator, Secretariat for the Nordic Council of Ministers for Fisheries and Aquaculture, Agriculture, Food and Forestry: Arctic’s bio-economy as a stepping stone for growth in the Arctic

Tero Vauraste, Chair of the Arctic Economic Council, President and CEO of Arctia Ltd: How to move the business development agenda in the Arctic forward

**Chair:** Voluntas Advisory and Confederation of Danish Industry

### 16:15 – 17:45 MARINE & COASTAL ARCTIC TOURISM MANAGEMENT

Organized by the Icelandic Tourism Research Center

#### PANELISTS

Auður Ingólfssdóttir, Rannsóknamiðstöð Ferðamála (Icelandic Tourism Research Center): Links between climate change, human security and sustainable marine and coastal tourism an Icelandic perspective

Frigg Jørgensen (Invited), Association of Arctic Expedition Cruise Operators - Jessica Shadian, Arctic 360: Tourism search and rescue financing and community participation

Rebecca Pincus, US Coast Guard Academy: Emergency response, international relation, and security for maritime and coastal tourism

## FRIDAY, OCTOBER 13

Sergey Shirokiy, World Commission on Protected Areas: Ecological and cultural issues, opportunities, and constraints in high-latitude tourism  
Wilfred Richard, Ummannaq Polar Institute & Smithsonian Arctic Studies Center: Institutional and community dimensions of Arctic Tourism

### MODERATORS

Edward Huijbens, University of Akureyri  
Guðrun Pora Gunnarsdóttir, Icelandic Tourism Research Center  
Nathan Reigner, Tourism consultant

### 16:15 – 17:45 GLOBAL DYNAMICS AND ACTORS AFFECTING THE ARCTIC - ECOLOGICAL, TECHNOLOGICAL, ECONOMIC.

Organized by the GlobalArctic Project, and TN on Geopolitics and Security

### SPEAKERS

Matthias Finger, Professor, Ecole Polytechnique Fédérale Lausanne (EPFL): Resources Curse in the Arctic?  
Hanna Katriina Lappalainen, Secretary General, Pan-Eurasian Experiment (PEEX), University of Helsinki & Finnish Meteorological Institute: System Understanding of the Arctic-boreal Regions for Constructing Scenarios and Assessments of the Future Development of the Northern Eurasian Environments and Societies  
Natalia Kukarenko, Associate professor, Northern (Arctic) Federal University, Arkhangelsk: Ecological Security and Local Politicians' Role in Informing Arctic Communities on Pollution: the Case of the Arkhangelsk Region  
Jussi Huotari, PhD Candidate, Aleksanteri Institute, University of Helsinki: The Nexus of Energy, Environment and Economic Security in Offshore Oil and Gas Exploration Projects in the Barents Sea  
Nikita Lomagin, Professor, European University in St. Petersburg: Russia's Oil and Gas Companies' Plans in the Arctic and Environmental Security

**Moderator:** Lassi Heininen, Professor, University of Lapland

### 16:15 – 17:45 INDIGENOUS SPIRITUALITY – A GIFT FOR TRANSFORMATION OF THE WORLD (ARCTIC AND PACIFIC CONTRIBUTIONS)

Organized by World Council of Churches, and the Evangelical Lutheran Church of Iceland

Speakers to be announced.



## FRIDAY, OCTOBER 13

### 16:15 - 17:45 BLUE GROWTH IN THE ARCTIC – HIGH NORTH SERIES

Organized by the High North Center, Nord University, Bodø; The Arctic Institute, Washington DC; and the Institute of the North, Anchorage, Alaska, Washington DC

#### SPEAKERS

Odd Jarl Borch, Professor, Nord University Business School: Safety challenges and emergency preparedness gaps in the High North

Elana Wilson Rowe, Norwegian Institute of International Affairs (NUPI): Maritime Growth: Politics or Business or both

Nils Andreassen, Executive Director, Institute of the North: The Alaskan State of the Arctic

Ida Pinnerød, Mayor, Bodø Municipality: Smart cities in the Arctic: the case of Bodø

Felix Tschudi, Chairman and Owner Tschudi Group and chairman of Centre of High North Logistics: Arctic shipping

Alexandra Middleton, Assistant Professor, University of Oulu: Business Index North - How to Measure Growth

Frode Mellempvik, High North Center, Nord University: Barriers to and opportunities for Arctic Growth

Andreas Østhagen, Doctoral Research Fellow, Fridtjof Nansen Institute, Norway & PhD-candidate, University of British Columbia, Canada: Cooperation across borders: the maritime dimension

**Chair:** Arne O. Holm, Editor in chief, High North News

### 17:45 – 19:15 WE ARE THE ARCTIC

Organized by Tromsø Kommune

#### SPEAKERS

Kristin Røymo, Mayor of Tromsø, Norway: Welcome and introduction

Päivi Laajala Mayor of Oulu, Finland: Innovation the Arctic

Eirikur Björn Björgvinsson, Mayor of Akureyri, Iceland, Creating sustainable tourism in the Arctic

Kristin Røymo, Mayor of Tromsø, Norway: Research and Competence in the Arctic

Niklas Nordström, deputy mayor of Luleå, Sweden: New Business areas

### 17:45 – 19:15 INNOVATION FOR SUSTAINABLE DEVELOPMENT

Organized by Global Affairs Canada

#### OPENING

The Honourable Stéphane Dion, Ambassador to Germany and Special Envoy to the European Union and Europe, Global Affairs Canada

## FRIDAY, OCTOBER 13

### POLICY PANEL: STRATEGIES FOR NORTHERN INNOVATION

Stephen Van Dine, Assistant Deputy Minister, Northern Affairs Organization,  
Indigenous and Northern Affairs Canada

Aurian Stark, Assistant Deputy Minister of Intergovernmental Affairs,  
Government of Nunavut

Robert Sauvé, President and Chief Executive Officer, Société du Plan Nord

Marc Kielley, Assistant Deputy Minister, Regional Development &  
Diversification, Tourism, Culture, Industry and Innovation, Government  
of Newfoundland and Labrador:

Adamie Delisle-Alaku, Executive Vice-President, Resource Development  
Department, Makivik Corporation

Shaleen Woodward, Deputy Secretary Indigenous and Intergovernmental  
Affairs, Government of the Northwest Territories

### PRACTITIONERS' PANEL: NORTHERN INNOVATION IN PRACTICE: CHALLENGES AND OPPORTUNITIES

Ryan Oliver, Director, Pinnguaq Association

Duncan W. Phillips, Vice President, Strategic Enterprises, Mitacs

Anne Barker, Arctic Program Leader, National Research Council of Canada

Lawrence Keyte, Northern Sustainable Energy Specialist, Polar Knowledge  
Canada

Mitchell White Jane Glassco Northern Fellowship Alumni, Gordon Foundation

John Higginbotham, Senior Fellow, Centre for International Governance  
Innovation

**Chair:** Heather Exner-Pirot, Strategist for Outreach and Indigenous  
Engagement, University of Saskatchewan

## 17:45 – 19:15 PEOPLE, PLANET AND PROFIT: PROMOTING SUSTAINABLE STUDENT ENTREPRENEURSHIP IN THE ARCTIC

Organized by Ilisimatusarfik (University of Greenland), Fróðskaparsetur  
Føroya (University of the Faroe Islands) and the Technical University of  
Denmark (DTU)

### SPEAKERS

Sune Nordentoft Lauritsen, Head of Secretariat, Polar DTU, Technical  
University of Denmark: People, planet and profit in the Arctic -  
Promoting Sustainable Student Entrepreneurship in the Arctic region

Pål Fernvall, Senior Entrepreneurship Officer, DTU Skylab, Technical  
University of Denmark: Fostering entrepreneurial mindsets among  
students – how entrepreneurial competences can be cultivated among  
students and faculty

Anne Lise Kappel, Head of Department, Ilisimatusarfik: Student

## FRIDAY, OCTOBER 13

entrepreneurship in Greenland and the people bottom line  
Lau Øfjord Blaxekjær, Assistant Professor, Programme Director of West Nordic Studies, Fróðskaparsetur Føroya (University of the Faroe Islands): Student entrepreneurship in the Faroe Islands and the planet bottom line

Kristoffer Buch, Innovation Manager, DTU Skylab, Technical University of Denmark: Arctic EntrepreneurShip – An ambitious entrepreneurial voyage along the west coast of Greenland

### 17:45 – 19:15 POLAR LAW: INDIGENOUS GOVERNANCE

Organized by: University of Akureyri

#### SPEAKERS

Emma Wilson, Director, ECW Energy Ltd.; Associate, Scott Polar Research Institute, University of Cambridge: Indigenous rights and extractive industries in the Arctic: evaluation of international ethical standards and guidelines,

Øyvind Ravna, Professor of Law, University of Tromsø: the Arctic University of Norway: How Norway Meets its Commitments to the Sámi under International Law: assessed by the most recent case law.

Tanya Joonas, Senior Researcher, Arctic Centre, University of Lapland: The Right to Education and Culture of Indigenous Sámi Children and Youth in Finland – Challenges of Urbanization.

Melaina Sheldon, Inland Tlingit of the Deisheetaan (Beaver) Clan hailing from Teslin, Yukon Territory: “We don’t want a brown version of the YTG” in Nän K’alädàth’ät (Changing times, continuing ways).

**Moderator:** Apostolos Tsiouvalas, LL.M. Polar law candidate, University of Akureyri

### 17:45 – 19:15 THE FUTURE OF ARCTIC FISHERIES

Organized by the Korea Maritime Institute (KMI), Fridtjof Nansen Institute (FNI) and the Korea Polar Research Institute (KOPRI)

#### SPEAKERS

Olav Schram Stokke, University of Oslo and Fridtjof Nansen Institute: Institutional means for managing high-seas fisheries in the Arctic

Birkir Bárðarson, Marine biologist, Marine and Freshwater Research Institute, Reykjavik: Capelin and other pelagic fish stocks under changing environmental conditions - Icelandic perspective

Hyoung Chul Shin, Director, Division of Strategy and Cooperation, Korea Polar Research Institute and Young-Kil Park, Head, Polar Policy Research Center, Korea Maritime Institute: The Central Arctic Ocean Challenge: Scientific Opportunities and Governance Connections

## FRIDAY, OCTOBER 13

### CHAIRS

Jong-Deog Kim, Director General of Industry Intelligence and Strategy  
Research Division, Korea Maritime Institute  
Geir Hønneland, Director, Fridtjof Nansen Institute

### 17:45 – 19:15 PLANNING OUR LOW CARBON FUTURE - SHARED EXPERIENCES OF NATIONAL AND CITY SPATIAL PLANNING

Organized by the Scottish Government

### SPEAKERS

Fiona Simpson, Assistant Chief Planner, Scottish Government: Scotland's National Planning Framework and Climate Change Plan – guiding transformational change  
Cathy Johnston, Group Manager, Development and Regeneration Services, Glasgow City Council: City planning for climate change – Glasgow  
Ásdís Hlökk Theodórsdóttir, Director, National Planning Agency, Iceland: Planning for resilience at the national level  
Representative from the Department of Environment and Planning, City of Reykjavik Council\*

**Chair:** John McNairney, Chief Planner, Scottish Government

### 17:45 – 19:15 GLOBAL RISKS AND OPPORTUNITIES ARISING FROM ARCTIC CHANGE

Organized by the Pentland Centre for Sustainability in Business, Lancaster University, UK and the EU ICE-ARC programme

### PANELISTS

Gail Whiteman: Welcome and Introduction to the ICE-ARC project and the Roundtable Event  
Dmitry Yumashev: Implications of Arctic climate feedbacks for the world's ability to achieve the long-term climate targets from the Paris Agreement  
Dmitry Yumashev: Climatic implications and economic benefits of moving industries to the Arctic: the case of transit shipping via the Northern Sea Route  
Paul Young: The Arctic as a barometer of global climate risk: correlations between sea ice decline and global crop yields' losses

### SPEAKERS

Chris Hope, Reader in Policy Modelling at Judge Business School, and Visiting Professor at University College, London: Translating research findings into climate policy  
Domagoj Baresic, Doctoral Researcher at University College London, Energy

## FRIDAY, OCTOBER 13

Institute: Sustainability transitions in Arctic maritime transport - insights from LNG in northern Europe Hilmar Ögmundsson, senior advisor in the Greenlandic Ministry of Finance: Opportunities and risks for regional Arctic economy in Greenland

Rafe Pomerance, Chairman of Arctic 21: Can the future state of the Arctic sustain the global climate system?

Dmitry Yumashev and Gail Whiteman: Concluding remarks

**Chair:** Gail Whiteman (Director of the Pentland Centre, Lancaster University & Professor in Residence at WBCSD)

### 17:45 – 19:15 THE EVOLUTION OF THE CHINA-NORDIC ARCTIC COOPERATION

Organized by the China-Nordic Arctic Research Center (CNARC)

#### SPEAKERS

Yang Huigen, Director-General, Polar Research Institute of China and Director, CNARC: The Evolution of the CNARC

Thorsteinn Gunnarsson, Senior Adviser, Icelandic Centre for Research: North meets East: Learning at the Crossroads

Yang Jian, Vice President, Shanghai Institutes for International Studies and Deputy Director, CNARC: Chinese perspectives on CNARC

Timo Koivurova, Director and Research Professor, Arctic Centre, University of Lapland: Finnish perspectives on CNARC

Jan-Gunnar Winther, Specialist / Director, Norwegian Polar Institute: Norwegian perspectives on CNARC

Egill Thor Nielsson, Executive Secretary, CNARC and Visiting Scholar, Polar Research Institute of China: CNARC perspectives on the evolution of the China-Nordic Arctic Cooperation

**Chair:** Hallgrímur Jonasson, Director-General, Icelandic Centre for Research

### 17:45 – 19:15 MARINE LITTER: NEW EVIDENCE FROM THE ARCTIC

Organized by the Dutch Ministry of Foreign Affairs

#### SPEAKERS

Wouter Jan Strietman, Project Manager and Researcher Wageningen University and Research

Eelco Leemans, Founder and CEO, Leemans Maritime Consultancy

Erik van Sebille, Associate Professor, Utrecht University

Jorden Splinter, Senior Adviser on Polar Affairs | Senior Arctic Official, Netherlands Ministry of Foreign Affairs

## FRIDAY, OCTOBER 13

### 17:45 – 19:15 CLIMATE CHANGE IN THE ARCTIC: ATMOSPHERE, SEA ICE, ECOLOGY AND REMOTE SENSING

Organized by the College of Global Change and Earth System Science, Beijing Normal University

#### SPEAKERS

Yating Chen, Master Candidate: Spatial Change of Carbon Storage in Circum-Arctic Permafrost Area under Geoengineering

Xinchen Lv, Master Candidate: Seasonal Patterns of Canopy Photosynthesis Captured by Remotely Sensed Fluorescence and Vegetation Indexes at Mid-to-high Latitude Forests

Yifan Ding, PhD Candidate: Derivation of Melt Ponds on Arctic Sea Ice using MODIS Surface Reflectance Data

Yuanyuan Zhang, PhD Candidate: The Potential Role of Sea Ice Leads in the Seasonal Arctic Sea Ice Extent Prediction

Zhuoqi Chen, Associate Professor: The Latest Image Mosaic of Greenland Based on Landsat 8

Chuanfeng Zhao, Professor: Association Between Arctic Warming and Mid-latitude Pollution

#### CHAIRS

Xiao Cheng, Professor, College of Global Change and Earth System Science, Beijing Normal University

Chuanfeng Zhao, Professor, College of Global Change and Earth System Science, Beijing Normal University

### 17:45 – 19:15 RESEARCH INFRASTRUCTURE IN GREENLAND – STATUS AND VISIONS

Organized by the University of Copenhagen, Aarhus University and Danish Technical University in cooperation with the Danish Ministry of Higher Education and Science.

#### SPEAKERS

“Existing Greenlandic/Danish research infrastructure in Greenland”

- Morten Rasch, University of Copenhagen
- Peter Schmidt Mikkelsen, Aarhus University

Jennifer Mercer, US-NSF: U.S. Infrastructure for Scientific Research in Greenland

Konrad Steffen, Swiss Polar Institute: Swiss Camp Climatology, 1990 – 2017

Yong Yu, Polar Research Institute of China: China’s plans concerning establishment of a research station in Greenland

Nicole Biebow, Alfred Wegener Institute (EU-PolarNet): EU-PolarNet – Recommendations for European research

Margareta Johansson, Lund University (INTERACT): Pan-arctic cooperation between research infrastructures – INTERACT

## FRIDAY, OCTOBER 13

Søren Rysgaard, Aarhus University: A short history of marine research 1994 to 2017 in Greenland

Bo Elberling, University of Copenhagen: Future needs for research infrastructure in the ice-free part of Greenland

Frej Sorento Dichmann, Ministry of Higher Education and Science: Potential for an international research hub in Greenland

Sten Lund, Greenland Government: Greenland Research Strategy, International Research HUB in Greenland

**Chair:** Morten Pejrup, University of Copenhagen.

### 17:45 – 19:15 OBSERVING THE ARCTIC COUNCIL

Organized by the West Nordic Council

Speakers to be announced.

### 17:45 – 19:15 ARCTIC SECURITY ROUNDTABLE

Organized by the Munich Security Conference

Speakers to be announced

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## FRIDAY, OCTOBER 13 – RECEPTION

### 19:30 – 21:00 RECEPTION FOR ALL ASSEMBLY ATTENDEES

*Location: Norðurljós, Harpa Second Level*

*Hosted by Guðlaugur Þór Þórðarson, Minister for Foreign Affairs and External Trade of Iceland*

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## BREAKOUT SESSIONS 21:00-22:00

### 21:00 – 22:00 EQUITABLE ARCTIC DEVELOPMENT OF NATURAL RESOURCES

Organized by the Arctic Oil and Gas Research Centre, Ilisimatusarfik (University of Greenland)

#### SPEAKERS

Indra Overland, Head of the Energy Program, Norwegian Institute of International Affairs (NUPI): Ranking Oil, Gas and Mining Companies on Indigenous Rights in the Arctic

Anne Merrild Hansen, Professor of Social Science, Arctic Oil and Gas Studies

## FRIDAY, OCTOBER 13

and Director of the Arctic Oil and Gas Research Centre, Ilisimatusarfik  
and Rachael Lorna Johnstone, Professor of Law, Arctic Oil and Gas  
Studies and Director of the Arctic Oil and Gas Research Centre,  
Ilisimatusarfik: Perspectives on Greenlandic Extractive Industries  
Eduardo Periera, Professor of Natural Resources and Energy Law, Externado  
U, Colombia: Joint Operating Agreement: Risk Control for the Non-  
Operators within Arctic Operations

### 21:00 – 22:00 INTERACT BASECAMP: ACCESS TO THE ARCTIC

Organized by INTERACT and Lund University

#### SPEAKERS

Margareta Johansson, Research Coordinator, INTERACT Coordinator, Lund  
University, Sweden: Welcome to the INTERACT basecamp

Morten Rasch, PhD, Chief Consultant, University of Copenhagen, Chairman of  
INTERACT Station Manager Forum: INTERACT Stations and an  
introduction to the station card game

Hannele Savela, Research Coordinator, Thule Institute, University of Oulu and  
Kirsi Latola, PhD, Research Coordinator, Director of UArctic Thematic  
Networks, Thule Institute, University of Oulu: Access to the Arctic  
through INTERACT

**Chair:** Margareta Johansson, Research Coordinator, INTERACT Coordinator,  
Lund University, Sweden

### 21:00 – 22:00 ANGRY INUK FILM SCREENING AND Q&A WITH FILM DIRECTOR ALETHEA ARNAQUQ-BARIL

Organized by the Polar Research and Policy Initiative

#### SPEAKERS

Alethea Arnaquq-Baril, Angry Inuk Film Director

Dwayne Ryan Menezes, Director, PRPI

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## ARCTIC CIRCLE CLUB OPEN 20:30 – 24:00

*Location: Björtuloft – Harpa top floor*

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# SATURDAY, OCTOBER 14

Location: Harpa

07:30 – 17:00 REGISTRATION

## BREAKOUT SESSIONS 8:00 - 9:00

08:00 – 09:00 ARCTIC CHINESE TOURISM, AND STAKEHOLDERS' STRATEGIES

Organized by the Arctic Centre, University of Lapland, Rovaniemi

### SPEAKERS

Daniela Tommasini, Senior Researcher at the Arctic Centre, University of Lapland, Rovaniemi, Finland: Tourism in peripheral Arctic Communities: Potentials and Entrepreneurship, Hindrances and Pitfalls.

Shenghan Zhou, Doctoral Candidate at Multidimensional Tourism Institute, University of Lapland, Rovaniemi, Finland: Chinese Tourists in the Arctic, Wishes and Experiences.

**Chair:** Daniela Tommasini, Senior Researcher, Arctic Centre

08:00 – 09:00 MIND AND BODY – POPULATION HEALTH AND WELLBEING IN GREENLAND

Organized by the National Institute of Public Health, University of Southern Denmark, Copenhagen Centre for Health Research in the Humanities (CoRe), University of Copenhagen and CSR Greenland

### SPEAKERS

Peter Bjerregaard, National Institute of Public Health, University of Southern Denmark/ University of Greenland: Major public health challenges in Greenland.

Christina VL Larsen, National Institute of Public Health, University of Southern Denmark/ University of Greenland: Mental health in Greenland and Arctic perspectives on mental health promotion

Tenna Jensen, Copenhagen Centre for Health Research in the Humanities (CoRe), University of Copenhagen: Healthy ageing in the Arctic.

Lotte Frank Kirkegaard, CSR Greenland: Promoting health through the work place.

## SATURDAY, OCTOBER 14

### 08:00 – 09:00 SUPPORTING SUSTAINABLE NORTHERN COASTAL COMMUNITIES

Organized by Newfoundland and Labrador and Memorial University, UArctic, and University of Tromsø – the Arctic University of Norway

#### SPEAKERS

Rob Greenwood, Executive Director, Public Engagement and the Leslie Harris Centre of Regional Policy and Development, Memorial University, Newfoundland and Labrador, Canada: Thriving Communities: The Sustainable Northern and Coastal Communities Initiative

Anne Husebekk, Rector, University of Tromsø, Arctic University of Norway, Tromsø, Norway: Humans in the Arctic Matter!

Lars Kullerud, President, University of the Arctic, Arendal city, Norway

**Chair:** Ashlee Cunsolo, Director, the Labrador Institute, Memorial University, Newfoundland and Labrador, Canada

### 08:00 – 09:00 ARCTIC CLIMATE PREDICTIONS: PATHWAYS TO RESILIENT, SUSTAINABLE SOCIETIES (ARCPATH)

Organized by the Stefansson Arctic Institute, the University of Iceland, and the University of Bergen

#### SPEAKERS

Noel Keenlyside, Professor, Geophysical Institute, University of Bergen: Global and Arctic Climate Predictions

Astrid Ogilvie, Senior Scientist, Stefansson Arctic Institute and INSTAAR and Leslie King, Professor and Director, Canadian Centre for Environmental Education, Royal Roads University: Syntheses of Arctic Climate and Environmental Change and Human Eco-Dynamics

Niels Einarsson, Director, Stefansson Arctic Institute: Sea Change in North Atlantic Arctic Coastal Communities

Marianne Rasmussen, Director, University of Iceland: Climate, Cetaceans and Tourism.

Elizabeth Ogilvie, Environmental Artist: Out of Ice: Sea Ice and Northern Communities

**Chair:** Brynhildur Daviðsdóttir, Professor, University of Iceland

## SATURDAY, OCTOBER 14

### 08:00 – 09:00 STUDENT AND STAFF MOBILITY AS AN INSTRUMENT FOR DEVELOPING HUMAN CAPITAL IN THE NORTH

Organized by University of the Arctic

#### SPEAKERS

Pål Markusson, Vice-President Mobility, University of the Arctic: The role of UArctic in circumpolar student and staff mobility

Eirik Sivertsen, Chair, Delegation For Arctic Parliamentary Cooperation, Norwegian Parliament "Stortinget": Student and staff mobility in the North: a Norwegian perspective

Erling Kvadsheim, Vice chair, Arctic Economic Council, Director for international affairs, The Norwegian Oil and Gas Assoc: The North needs northern business leaders

Ditte Nissen Lund, Ministry of Education in Denmark: How institutions in the Kingdom of Denmark utilizes the UArctic North2North mobility programme

Katri Kulmuni, Chair of the Finnish Arctic Parliamentarians group: Finnish chairmanship of the Arctic Council – visions for student and staff mobility

**Chair:** Pål Markusson, Vice-President Mobility, University of the Arctic

### 08:00 – 09:00 THE FUTURE OF ARCTIC INFRASTRUCTURE: DEVELOPING SUSTAINABILITY STANDARDS AND VALUING NATURAL ASSETS

Organized by WWF and the Natural Capital Project

#### SPEAKERS

Katharina Schneider-Roos, CEO, Global Infrastructure Basel (GIB) Foundation: The SuRe© Standard for Sustainable and Resilient Infrastructure

Spencer Wood, Lead Scientist, Natural Capital Project, University of Washington: Developing decision support tools for communities, governments and investors

Emily McKenzie, Chief Adviser – Economics and Sustainability, WWF Global Science: Operationalizing Blue Economy Principles for Sustainable Infrastructure in the Arctic

**Chair:** Brad Ack, Senior Vice President, Oceans, WWF-US

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## **PLENARY SESSIONS 9:00 – 10:35**

09:00 – 09:40 THE ARCTIC: A NEW TERRITORY OF BUSINESS

**I. KEYNOTE**

- Guðlaugur Þór Þórðarson, Minister for Foreign Affairs and External Trade of Iceland

**II. STATE OF MAINE, USA – THE NORTH ATLANTIC ARCTIC**

- Paul R. LePage, Governor of Maine
- Gylfi Sigfússon, CEO Eimskip

**Chair:** Geir Haarde, Ambassador of Iceland to the United States; former Prime Minister of Iceland, Minister for Foreign Affairs and Finance

09:40 – 10:25 ARCTIC SCIENCE FROM RESEARCH TO PRACTICE:  
KINGDOM OF DENMARK

**SHORT SCIENTIFIC PRESENTATIONS**

- Fritz Köster, Professor, Technical University of Denmark
- Jens Hesselbjerg Christensen, Professor, University of Copenhagen
- Peter Bjerregaard, Professor, University of Southern Denmark
- Anne Merrild Hansen, Head AAU Arctic, Aalborg University

**PANEL**

- Karen Ellemann, Danish Minister for Fisheries and Equal Opportunities; Minister for Nordic Cooperation
- Doris J. Jensen, Minister for Education, Culture, Research and Church, Greenland
- Rigmor Dam, Minister of Education, Research and Culture, Faroe Islands
- Minik Rosing, The Natural History Museum of Denmark/Chairman of the board of Ilisimatusarfik (University of Greenland)
- Maliina Abelsen, Chief Commercial Officer, Air Greenland
- Ólavur Ellefsen, Entrepreneur, Chairman of the Board, University of the Faroe Islands

**Moderator:** Katherine Richardson, Professor, Natural History Museum of Denmark

## SATURDAY, OCTOBER 14

### 10:25 – 10:35 HIMALAYA THIRD POLE COOPERATION – INSPIRATION FROM THE ARCTIC MODEL

- Borjiginte Ailikun, Professor, Director, International Programme Office, Third Pole Environment, Institute of Tibetan Plateau Research, Chinese Academy of Sciences

**Chair:** Larry Brilliant, Chairman of the Board, Skoll Global Threats Fund\*

### 10:35 – 11:05 THE ARCTIC FUTURES INITIATIVE: A SYSTEMS ANALYSIS PERSPECTIVE ON THE PLAUSIBLE FUTURES OF THE ARCTIC

#### INTRODUCTION

- Ólafur Ragnar Grímsson, Chairman Arctic Circle, former President of Iceland, 1996-2016

#### KEYNOTE

- Pavel Kabat, Director General and Chief Executive Officer, International Institute for Applied Systems Analysis (IIASA)

#### LAUNCH OF THE ARCTIC YEARBOOK 2017

- Lassi Heininen, Professor, University of Lapland

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### 11:05 – 11:20 COFFEE BREAK

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## BREAKOUT SESSIONS 11:20 – 12:20

### 11:20 – 12:20 THE ARCTIC FUTURES INITIATIVE: A SYSTEMS ANALYSIS PERSPECTIVE ON THE PLAUSIBLE FUTURES OF THE ARCTIC

Organized by the International Institute for Applied Systems Analysis (IIASA)

#### SPEAKERS

Pavel Kabat, Director General and CEO of IIASA

Zbigniew Klimont and Markus Amann, Air Quality and Greenhouse Gases Program, IIASA: Short-Lived Climate Forcers and the Arctic

Thomas Gasser and Michael Obersteiner, Ecosystem Services and Management Program, IIASA: Permafrost Thawing Strongly Reduces Allowable CO<sub>2</sub> Emissions

Lassi Heininen, University of Lapland and IIASA: Stakeholders contributions for Arctic policy shaping and making

**Chair:** Anni Reissell, IIASA and University of Helsinki

## SATURDAY, OCTOBER 14

### 11:20 – 12:20 CONTEMPORARY ISSUES OF GENDER IN THE ARCTIC

Organized by the Northern Research Forum, the Icelandic Arctic Cooperation Network and the Centre for Arctic Policy Studies at the University of Iceland

#### SPEAKERS

Kristín Ástgeirsdóttir, Director, Centre for Gender Equality Iceland: Gender Equality in the Arctic - Diversity is Key

Silja Bára Ómarsdóttir, Adjunct Lecturer, University of Iceland: Full and substantive gender equality - how to get away from symbolic representation and counting heads

Gunhild Hoogensen Gjörv, Nansen Professor, UNAK/Professor, UiT-The Arctic University of Norway: The Role Of Trust In Human Security In The Arctic: A Gender-Based Analysis

### 11:20 – 12:20 SUSTAINABLE DEVELOPMENT GOALS (SDGS) IN THE ARCTIC

Organized by: Polar Research and Policy Initiative and the Icelandic Ministry for Foreign Affairs

#### SPEAKERS

Aleqa Hammond, former Premier of Greenland

Tony Penikett, former Premier of Yukon

Foreign Minister/SAO of Iceland\*

Mitchell White, Jane Glasco Northern Fellowship Alumni, Gordon Foundation (Canada)

Heather Nicol, Professor, Trent University (Canada)

Timo Koivurova, Director and Research Professor, Arctic Centre, University of Lapland (Finland)

Jeremy Rayner, University of Saskatchewan (Canada)

Terzah Tippin Poe, Lecturer, Harvard University (US)

**Chair:** Dwayne Ryan Menezes, Director, PRPI.

### 11:20 – 12:20 CREATIVE APPROACHES TO COMMUNICATING CLIMATE CHANGES

Organized by the World Policy Institute, Arctic in Context Initiative

#### SPEAKERS

Diane Burko, Explorer, Activist, Painter and Photographer whose work focuses on the intersection of Art and Climate Change: Inspiration, Translation, Communication: from Bearing Witness in the Arctic to creating art to exhibitions communicating the issues

Laura Petrovich-Cheney, Sculptor and Educator: The intersection of walking, art and education: a journey north

Marco Tedesco, Lamont Research Professor, Lamont-Doherty Earth Observatory of Columbia University; NASA GISS, Adjunct Scientist:

## SATURDAY, OCTOBER 14

Warmer, Wetter and Darker: The changing face of the Greenland ice sheet

Diane Tuft, Mixed-Media Artist, The Arctic Melt: Images of a Disappearing Landscape

**Chair:** Erica M. Dingman, Fellow, World Policy Institute; Director, Arctic in Context

### 11:20 – 12:20 THE OCEAN CLUSTER NETWORK AND THE ARCTIC

Organized by the Iceland Ocean Cluster

#### SPEAKERS

Thor Sigfusson Ph.D., Founder, Chairman and Owner of Iceland Ocean Cluster and co-founder and strategic partner to New England, New Bedford and Seattle Ocean Clusters

Berta Daníelsdóttir CEO Iceland Ocean Cluster – Iceland: The six years of Ocean Cluster success

Patrick Arnold, Founder of New England Ocean Cluster - USA: Paving the way for the US cluster initiatives

Edward Washburn, Founder of New Bedford Ocean Cluster – USA: Establishing the New Bedford Ocean Cluster

Ragnheiður Elín Árnadóttir, Founder of Seattle Ocean Cluster - Iceland: Building stronger relations between US and Iceland with the Seattle Ocean Cluster

### 11:20 – 12:20 TECHNICAL SOLUTIONS LEADING TO LOWER CARBON FOOTPRINT.

Organized by Innovation Centre Iceland (ICI)

#### SPEAKERS

Kristján Leósson, Innovation Centre Iceland: Trawling with light instead of nylon – a paradigm shift in fishing technology

Ivar Atlason, HS veitur and Thorsteinn I. Sigfusson ICI and University of Iceland: Heating an Arctic island with the Gulf Stream

Saemundur Thorsteinsson University of Iceland and Thorsteinn I. Sigfusson ICI: The Arctic Telecom project

Birgir Johannesson ICI and Thorsteinn I. Sigfusson: Green basalt fibres for use in the industry

Mjöll Waldorff ICI and XRG and Thorsteinn I. Sigfusson: The XRG low temperature electricity generator

Olafur Wallevik, ICI and University of Reykjavik: The greenest concrete in the world

**Chair:** Thorsteinn I. Sigfusson, Prof. Director General ICI

## SATURDAY, OCTOBER 14

### 11:20 – 12:20 ILULISSAT – INFRASTRUCTURE AS A START POINT FOR FURTHER GROWTH

Organized by Landsvirkjun Power, ISTAK, EFLA, Verkís & Mannvit.

#### SPEAKERS

Porvaldur Guðjónsson, ISTAK: The Ilulissat hydropower plant planning and construction history: implementation of a hydropower plant under extreme arctic conditions

Erik Bjargard, Ilulisat\*: First hand experience: How the implementation of the Ilulissat hydropower plant impacted the local community, with increased tourism

Gunnar Haraldsson, Icelandic Ocean Cluster\*: Looking further – how to create the conditions for sustainable development of such societies?: infrastructures and legal framework required to create sustainable conditions for development, fisheries and other industries

### 11:20 – 12:20 THE POTENTIAL OF OFFSHORE GEOTHERMAL ENERGY IN THE ARCTIC – CASE STUDIES FROM ICELAND AND CANADA

Organized by North Tech Energy ehf.

#### SPEAKERS

Geir Brynjar Hagalinsson, CEO & Founder North Tech Energy: How to utilize Offshore Geothermal Energy around Iceland. Cross fertilization with Oil and Gas industry

Bjarni Richter, Marketing- and Project Manager, Senior Geologist Iceland Geosurvey (ISOR): Potential of geothermal energy of the coast of Iceland. The difference between Onshore and Offshore geothermal fields

Chelsea Arlette M. Cervantes, M.Sc. Sustainable Energy candidate at the Iceland School of Energy, Reykjavik University: Potential Offshore Geothermal in Canada

**Chair:** Ágústa Ýr Þorbergsdóttir, Director, NAVIGO

### 11:20 – 12:20 MAINE BUSINESS AND THE ARCTIC - BUILDING ACADEMIC EXCHANGE

Organized by the Maine Department of Transportation

#### SPEAKERS

Glenn Cummings, President, University of Southern Maine: Academic Exchange: University of Southern Maine to Reykjavik University

Barry Costa-Pierce, Chair, Department of Marine Science, University of New England: A New North Atlantic Education: : Training Program in Ocean Food Systems

Jay Friedlander, Professor, College of the Atlantic: Maine and the Arctic: Creating Solutions through Academic Exchange



## SATURDAY, OCTOBER 14

Ögmundur Knútsson, Dean, The School of Business and Science, University of Akureyr: The Global Fishing Village: The Need for Education and Networking

Ari Jónson, President, Reykjavik University: Academic Exchange: Reykjavik University to University of Southern Maine

**Chair:** John Henshaw, Executive Director, Maine Port Authority

### 11:20 – 12:20 SWISS RESEARCH AND THE ARCTIC: CLIMATE DYNAMICS BASED ON ICE CORES AND ATMOSPHERIC MEASUREMENTS

Organized by the Swiss Federal Department of Foreign Affairs

#### SPEAKERS

Julia Schmale, PhD, Researcher, Paul Scherrer Institute: Influences of anthropogenic particulates on climate

Thomas Stocker, Professor, University of Bern, past Co-chair of IPCC AR 5 WG 1 – The Physical Science Basis: The Polar Areas: Archive of Earth System Vulnerability

**Chair:** Stefan Flückiger, Ambassador, Head of the Sectoral Foreign Policies Division of the Directorate of Political Affairs of Switzerland

### 11:20 – 12:20 FOSTERING SUSTAINABILITY THROUGH SCIENTIFIC AND TRADITIONAL KNOWLEDGE

Organized by Uapishka Station

#### SPEAKERS

“Fostering Sustainability through Scientific and Traditional Knowledge”

- Jean-Philippe L. Messier, Uapishka Station Executive Secretary, Baie-Comeau (Québec)
- Raymond Rousselot, Uapishka Station Treasurer, Pessamit (Québec), Canada Uapishka Station

### 11:20 – 12:20 THE NEED FOR ARCTIC SAFETY TRAINING

Organized by the University Centre in Svalbard – UNIS, University of the Arctic – UArctic, International Network for Terrestrial Research and Monitoring in the Arctic – INTERACT II

#### SPEAKERS

Morten Rasch, Leader Station Manager forum; INTERACT II, University of Copenhagen: Cooperation between INTERACT and Arctic Safety Centre on Arctic safety

Lars Kullerud, President of the University of the Arctic: UArctic’ and participation in Arctic Safety Centre

## SATURDAY, OCTOBER 14

Ann Christin Auestad, Project Manager; Arctic Safety Centre, University Centre in Svalbard: Arctic Safety Centre project description  
Hanne Hvidtfeldt Christiansen, Professor, Department leader; Arctic Geology, University Centre in Svalbard: Using natural science data and technology for improved Arctic Field safety

**Chair:** Hanne Hvidtfeldt Christiansen, Professor, Department leader; Arctic Geology, University Centre in Svalbard

### 11:20 – 12:20 ARCTIC PROJECT DEVELOPMENT: TESTING THE LAW? LEGAL CHALLENGES OF LARGE INFRASTRUCTURE PROJECTS THE EXAMPLE OF THE FINNAFJORD PORT

Organized by the University of Iceland Faculty of Law and bremenports GmbH & Co. KG

#### SPEAKERS

Aðalheiður Jóhannsdóttir, Professor of Law, Dean of Faculty of Law, University of Iceland: Environmental impact assessment regulations, from a general point of view and/or in the specific context of greenfield port development projects

Friðrik Árni Friðriksson Hirst, Co-Director of the Arctic Law Institute, University of Iceland, and Attorney at Juris: General provisions of the Harbour Act no. 61/2003 and their application to large-scale greenfield port development projects. What issues does the Harbour Act pose with regard to private ownership and financing of ports, including bankability?

Lars Stemmler, bremenports GmbH & Co. KG, Head of International Projects: Use of public-private partnerships (PPP) for the provision and financing of complex infrastructure development projects – possible legal and political implications

James E. Pass, Guggenheim Partners LLC, Senior Managing Director, Municipal and Infrastructure Sector Manager and Portfolio Manager: Legal requirements from an project developer´s point of view, in particular concessioning – Case study Finnafjord

**Moderator:** Robert Howe, Managing Director, bremenports GmbH & Co. KG

## SATURDAY, OCTOBER 14

### 11:20 – 12:20 ARCTIC FRESHWATER RESOURCE DYNAMICS AND SOCIO-ENVIRONMENTAL CHALLENGES: TOWARDS AN INTERDISCIPLINARY PROJECT

Organized by Western Kentucky University, University of Akureyri, the Icelandic Arctic Cooperation Network, the Icelandic Meteorological Office, the Marine and Freshwater Institute, and the Icelandic Centre for Research

#### SPEAKERS

Thorsteinn Gunnarsson, Senior Adviser, Icelandic Centre for Research -  
Rannis: Observing and Monitoring the Arctic Freshwater System

Thorsteinn Thorsteinsson, glaciologist at the Icelandic Meteorological Office:  
The Global Cryosphere Watch in the Arctic

Jason S. Polk, Associate Professor of Geography and Geology, Western  
Kentucky University: Insights from Melting Ice: Using Glacial Rivers to  
Understand Climate Change, Weathering, and Water Resource Issues

Jill R. Welter, Associate Professor of Biology Endowed Chair in the Sciences,  
St. Catherine University: Human Activities in the Arctic: Consequences  
for Freshwater Ecosystems and their Connection to the Sea

Steingrímur Jónsson, Professor, University of Akureyri; Scientist, Marine and  
Freshwater Research Institute in Iceland: The ocean around Iceland; how  
is it affected by climate variability and climate change

Leslie A. North, Associate Professor of Environmental Studies, Western  
Kentucky University, Center for Human GeoEnvironmental Studies  
(CHNGES), Department of Geography and Geology: Misconceptions  
and Realities of Freshwater Resources in a Changing Climate: Engaging  
community through effective communication

**Chair:** Embla Eir Oddsdottir, Director, Icelandic Arctic Cooperation Network  
(IACN)

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## NETWORKING LUNCH 12:20 – 13:05

*Hosted by Bjarni Benediktsson, Prime Minister of Iceland*

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**SATURDAY, OCTOBER 14**

## **PLENARY SESSIONS 13:05 – 15:45**

### **13:05 – 13:45 EXPLORING COMMON SOLUTIONS: FINLAND'S ROLE IN NORTHERN CHALLENGES**

*Organized by the Ministry for Foreign Affairs of Finland*

#### **KEYNOTE**

- Kai Mykkänen, Minister for Foreign Trade of Finland

#### **SPEAKERS**

- Tero Vauraste, Chair, Arctic Economic Council; President and CEO, Arctia Ltd.
- Paula Kankaanpää, Professor; Director of the Marine Research Centre, Finnish Environment Institute SYKE
- Risto E.J. Penttilä, CEO, Finland Chamber of Commerce; Doctor of Philosophy

**Moderator:** Harri Mäki-Reinikka, Ambassador for Northern Policies

### **13:45 – 14:30 ISLANDS STATES: ARCTIC – PACIFIC**

*Organized in cooperation with Conservation International*

#### **SPEAKERS**

- Guðni Th. Jóhannesson, President of Iceland\*
- Danny Faure, President of Seychelles\*
- Tommy Remengesau, President of Palau\*
- Henry Puna, Prime Minister of the Cook Islands\*
- Taneti Mamau, President of Kiribati\*
- Aksel V. Johannesen, Prime Minister of the Faroe Islands

### **14:45 – 15:30 ICEBREAKERS/RESEARCH VESSELS IN THE ARCTIC**

- Tero Vauraste, President and CEO, Arctia Ltd.
- Bingrui Li, Deputy Head of Polar Oceanography Division, Polar Research Institute of China (PRIC)
- Björn Dahlback, Director-General, Swedish Polar Research Secretariat
- Admiral Charles Michel, Vice Commandant, United States Coast Guard\*
- Vyacheslav V. Ruksha, Director General, Rosatomflot\*

## SATURDAY, OCTOBER 14

### 15:30 – 15:45 MISSION COUNCILS: A NEW ARCTIC CIRCLE INITIATIVE

#### INTRODUCTION

- Ólafur Ragnar Grímsson, Chairman Arctic Circle, former President of Iceland

#### MISSION COUNCIL ON PORTS AND SHIPPING

- Mead Treadwell, President, Pt Capital, former Lieutenant Governor of Alaska
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### 15:45 – 16:00 COFFEE BREAK

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## BREAKOUT SESSIONS 16:00 – 17:30

### 16:00 – 17:30 INCREASING INTERNATIONAL COOPERATION ON ARCTIC SCIENCE VIA MINISTERIAL MEETINGS

Organized by the European Commission Directorate General of Research & Innovation, the Ministry for Education and Culture of Finland, the Ministry for Education and Research of Germany and the United States Arctic Research Commission

#### SPEAKERS

Fran Ulmer, Vice-Chair of the White House Arctic Science Ministerial, and Chair of the United States Arctic Research Commission: The Arctic Science Ministerial 2016: Why was it held and what was its goal.

Martin Jeffries, Assistant Director of Polar Science, White House Office of Science and Technology Policy: Organizing an Arctic Science Ministerial: Lessons Learned and Best Practices.

Andrea Tilche, Head of Climate Action and Earth Observation Unit of the European Commission, DG Research & Innovation; member of the EU delegation for the 2018 Arctic Science Ministerial: The Arctic Science Ministerial 2018: Objectives and goals.

Wilfried Kraus, Head of directorate Sustainability, Climate, Energy, Federal Ministry of Education and Research, Germany: Germany's contribution to international science collaboration in the Arctic.

Tapio Kosunen, Director General, Ministry of Education and Culture, Finland: How Arctic science has been advanced in the work of the Arctic Council.

Gunn-Britt Retter, Head of the Arctic and Environment Unit, Saami Council: Some reflections on why Traditional Indigenous Knowledge matters for Science Ministers.

## SATURDAY, OCTOBER 14

### 16:00 – 17:30 THE BEST PHD STUDENTS OF QUÉBEC AND THE NORDICS: LIGHTNING TALKS FROM THE THE MON PROJET NORDIQUE / MY NORTHERN PROJECT COMPETITION

Organized by the Institut nordique du Québec (INQ), the Fonds de recherche du Québec – Nature et technologies (FRQNT) and NordForsk

#### SPEAKERS

Charles Brunette, PhD student in atmospheric and ocean sciences, McGill University: Regional and seasonal forecasts of sea ice in the Arctic Ocean

Julie Ducrocq, PhD student in epidemiology, Université Laval: Subsistence activities, infectious diseases and global change in Nunavik: improving prevention and promoting Inuit traditions through documentation

François Lapointe, PhD student in Earth sciences, INRS-ETE: Investigating modes of climate variability in the Arctic through annual sediment layers

Gwyneth Anne MacMillan, PhD student in biological sciences, Université de Montréal: Not that rare after all! Rare earth elements in Arctic terrestrial and aquatic ecosystems

Mélanie Nagati, PhD student in environmental science, UQAT, and in biodiversity, ecology and evolution, Université Paul Sabatier (Toulouse, France): Effect of vegetation cover and microorganisms on the establishment of fir seedlings in boreal forest

Barbara Vuillaume, PhD student in biology, Université Laval: Using camera collars to study calf survival among migratory caribou

Jaakko Pietarinen, PhD student, Department of Agricultural Sciences, University of Helsinki: What characterises a good reindeer mother?

Jasmiini Pylkkänen, PhD student, Department for Cultural Anthropology, University of Oulu, Finland

Sandra Fischer, PhD student, Department for Physical Geography, Stockholm University, Sweden

Mariia Nesterenko, PhD student, Department of Sociology, Archangelsk University: Human health in the Arctic as social value

Majken Paulsen, PhD student, Faculty of Social Sciences, Nord University: Human-nature interactions in the Arctic; ecological alterations, emerging infectious diseases and impacts on human and non-human well-being

Barbara Baczynska, PhD student, in Sociology, Nord University: Cultural foundation of adaptation to climate change impacts, especially climate sensitive infections, among pastoral communities in northern Norway

## SATURDAY, OCTOBER 14

### 16:00 – 17:30 CHALLENGES AND POSSIBILITIES IN THE NORTH: EMERGING MARKETS AND SUSTAINABILITY IN ARCTIC TOURISM

Organized by the Arctic Working Group of the Danish Parliament

#### SPEAKERS

Aleqa Hammond – MEP Danish Parliament

Árni Gunnarsson, Managing Director, Air Iceland

Helga Árnadóttir, Managing Director, Icelandic Travel Industry Associations

Jóhan Pauli Helgason, Adviser, Faroese Ministry of Foreign Affairs and Trade

Ragnhildur Sigurðardóttir, Director, Snæfellsnes Regional Park

Sjúrdur Skaale, Member of the Danish Parliament; Chairman of the Arctic Working Group

Stefán Gíslason, Senior Sustainability Consultant and Owner; Environice Consulting

Yewlin Tay, Director of Sales & Marketing, Arctic Wonderland Tours

Aaja Chemnitz Larsen, Member of the Danish Parliament

**Chair:** Magni Arge, Member of the Danish Parliament; former CEO of Atlantic Airways

### 16:00 – 17:30 EXPANDING ARCTIC INDIGENOUS COLLABORATIONS

Organized by Ukpeaġvik Iñupiat Corporation (UIC)

#### SPEAKERS

Lars Nelson, Ukpeaġvik Iñupiat Corporation Vice President of Lands:  
Connecting the American Arctic – Barrow, Alaska

Mike Sfraga, Wilson Center, Polar Initiative Director: The Future Arctic:  
Indigenous Communities as Essential Drivers of Economic and Social Success

Nagruk Harcharek, UIC Science, General Manager and Harry K. Brower Jr.,  
North Slope Borough Mayor: Constructive Collaborations Between  
Indigenous Peoples and the Researchers, Catherine Coral Simons,  
Department of Transportation Committee on the Marine Transportation  
System, Senior Maritime Infrastructure Advisor: Infrastructure Policy &  
Finance: Arctic Spotlight

Halldór Jóhannsson, Arctic Portal Executive Director (Iceland): Arctic  
Cooperation and Business Development Driven by Knowledge and  
Effective Information Exchange

Joseph Ahmaogak, Olgoonik, Chairman of the Board of Directors: A View  
from a Traditional Whaling Village

Anders Oskal, International Centre for Reindeer Husbandry Executive  
Director: Unique cross-border cooperation between Arctic reindeer  
peoples

## SATURDAY, OCTOBER 14

### 16:00 – 17:30 REGIONAL CROSS-BORDER COOPERATION IN THE ARCTIC IN A CHALLENGING GEOPOLITICAL CONTEXT.

Organized by Troms County Council, Norway

#### PANELISTS

Knut-Eirik Dybdal, CEO, Arctic Race of Norway

Kristin Røymo, The mayor of the City of Tromsø,

Maria Utsi, director of Arctic Arts Festival and co-founder of Arctic Arts Summit

Marina Krasilnikova, Living Standards research director, Analytical Center of Yuri Levada (Levada-Center, Moscow, Russia)

Willy Ørnebakk, chair of the Troms County Government.

Kjell Dragnes, former Foreign Editor of Aftenposten, Norway

Anne Husebekk, Rector UiT, Tromsø University

Hilde Sandvik, board member of Amedia

### 16:00 – 17:30 CLIMATE CHANGE AND SECURITY – SEARCHING FOR A PARADIGM SHIFT

Organized by NRF-UArctic Thematic Network on Geopolitics and Security

#### SPEAKERS

Heather Exner-Pirot, Strategist for Outreach and Indigenous Engagement, University of Saskatchewan: Between Militarization and Disarmament: Challenges for Arctic Security in the 21st Century

Salla Kalliojärvi, PhD Candidate, University of Lapland: Global Security, Policy and the Arctic under Changing Climate: Examining the Climate Security Discourse

Wilfrid Greaves, Assistant Professor of International Relations, University of Victoria: Cities, Security, and Environmental Change in a Warming Arctic

Sanna Kopra, Post-doc, University of Lapland: China, Climate Change and International Security: Changing Attributes of Great Power Responsibility

**Moderator:** Lassi Heininen, Professor, University of Lapland

### 16:00 – 17:30 POLAR LAW: ALASKA

Organized by University of Akureyri

#### SPEAKERS

Charles Norcih, Benjamin Thompson Professor of Law, University of Maine School of Law and Fulbright-Ministry for Foreign Affairs Arctic Scholar: Lex Imperfecta?

Demian Schane, Attorney-Advisor, National Oceanic & Atmospheric



## SATURDAY, OCTOBER 14

Administration (NOAA), Office of General Counsel: Involving Alaska Native communities in the Development of Commercial Fisheries: A Review of Community Development Quota Program and Its Potential for Broader Application

Sarah Mackie, PhD Candidate, Newcastle Law School; Visiting Researcher, Harvard Law School: When the Ice Melts - Using Climate Change Predictions in Endangered Species Designations in Arctic Alaska

**Moderator:** Claire Wallace, M.A. Polar law candidate, University of Akureyri

### 16:00 – 17:30 FOOD AND AGRICULTURE OPPORTUNITIES IN SOUTH GREENLAND – UNDER A CHANGING CLIMATE

Organized by Aarhus University, Department of Agroecology

#### SPEAKERS

C. K. Madsen Greenland National Museum & Archives: The history of the cultural landscape in South Greenland

Kenneth Høgh, Kujalleq kommune: Present day agriculture

Jørgen E. Olesen, Professor, AU AGRO: Future climate in South Greenland

Mogens H. Greve, AU AGRO: Climate adaption of Greenland Agriculture

Martin Marko Hansen, Mayers Madhus: A taste of Greenland, Food Opportunities in south Greenland

### 16:00 – 17:30 A WORLD WITHOUT ICE – GEOPOLITICAL IMAGINATION OR A VISION FOR THE FUTURE?

Northern Research Forum (NRF) and University of Akureyri

#### SPEAKERS

Salla Kalliojärvi, University of Lapland: The United Nations Security Council and Climate Change: Preparing for an iceless future.

Violetta Gassiy, Kuban State University

Suzanne Dunn, University of Ottawa: Digital access in the north: Rights, risks, and opportunities for young people. (TBC)

**Moderator:** Guðrún Rósa Þórsteinsdóttir director of University of Akureyri Research Centre and the Northern Research Forum Secretariat.

### 16:00 – 17:30 NECESSARY ADAPTATIONS: DIALOGUE THROUGH CONTEMPORARY ART

Organized by the Anchorage Museum, Museum Cerny Inuit Collection and Nunavut Arts and Crafts Association

#### SPEAKERS

Julie Decker, Director of the Anchorage Museum, Alaska, USA

Sonya Kelliher Combs, artist, Alaska, USA

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Holly Nordlum, artist, Alaska, USA  
Maya Sialuk Jacobson, Tattoo and visual artist, Greenland  
Bill Nasogaluak, artist, Canada  
Jesse Tungalik, Director of Nunavut Arts and Crafts, Canada  
Martha Cerny, Curator, Bern, Switzerland  
Anna Hudson, York University, Toronto

### 16:00 – 17:30 ARCTIC SEALING: THREAT OR BLUE PROSPECT?

Organized by the North Atlantic Marine Mammal Commission, WWF Arctic Programme, Inuit Circumpolar Council and Nunavut Tunngavik Inc.

#### SPEAKERS

Okalik Egeesiak, Chair, Inuit Circumpolar Council:  
Genevieve Desportes, General Secretary, North Atlantic Marine Mammal Commission: Is Arctic sealing responsible in an ecosystem perspective?  
Gabriel Nirlungayuk, Director of Inuit Programs and Services Division, Nunavut Tunngavik Inc.: Beneficial Outcomes of Co-management and Sustainable Harvesting of Arctic Seals  
Gert Polet, Head of Forests & Wildlife Unit – WWF: Perception and reality: threats to ice seals in a changing Arctic.

**Chair:** Martin Breum, Danish Journalist and author

### 16:00 – 17:30 CLIMATE JUSTICE – THE MORAL IMPERATIVE TO ACT. FAITH LEADERS IN DIALOGUE WITH SCIENCE AND DECISION MAKERS

Organized by the World Council of Churches and the Evangelical Lutheran Church of Iceland

Speakers to be announced

### 16:00 – 17:30 SUSTAINABLE ARCTIC DEVELOPMENT IN THE ERA OF LOW CARBON TRANSITION

Organized by the Arctic Institute, the Scottish Government, UK Government Science & Innovation Network – Nordics

#### SPEAKERS

Antti Arasto, Research Manager, Solutions for Natural Resources and Environment, VTT Technical Research Centre of Finland: Wealth from bio economy - national economy perspective on transition to integrated bio- and low carbon technologies  
Enrique Troncoso, Engineering Consultant / Project leader at Boeing Research & Technology: BIG HIT: Creating a Green Hydrogen Energy System in the Orkney Islands  
Edvard Glücksman, Senior Environmental and Social Specialist at Wardell Armstrong LLP and University of Exeter: Lessons from Central Asia

## SATURDAY, OCTOBER 14

Berit Kristoffersen, Political geographer and associate professor at UiT – the Arctic University of Norway: Post-petroleum Arctic futures: Potentials and controversies

Jane Burston, Head of Energy and Environment, National Physical Laboratory: Measuring methane: from lasers to ghostbusters

Gwen Holdmann, Director, Alaska Center for Energy and Power, University of Alaska Fairbanks

**Moderator:** Louise Heathwaite, Professor of Land and Water Science in the Lancaster Environment Centre at Lancaster University

### 16:00 – 17:30 NORTHERN SEA ROUTE AND ITS IMPACT ON GLOBAL TRADE

Organized by the International Institute for Applied Systems Analysis (IIASA)

#### SPEAKERS

Northern Sea Route - A Game Changer for Global Trade?

- Elena Rovenskaya, Director, Advanced Systems Analysis (ASA) Program, International Institute for Applied Systems Analysis, IIASA
- Michael Obersteiner, Program Director of the Ecosystems Services and Management (ESM) Program, Ecosystem Services and Management Program, IIASA

Lawson W. Brigham, Distinguished Faculty, University of Alaska Fairbanks: The NSR: Gateway to Global Markets

Dmitry Yumashev, Senior Research Associate, Pentland Centre for Sustainability in Business of the Lancaster University, and Cambridge Centre for Climate Change Mitigation Research, University of Cambridge: Towards a Balanced View of Arctic Shipping: Estimating Economic Impacts of Emissions from Increased Traffic on the Northern Sea Route

Natsuhiko Otsuka, Professor, Arctic Research Center, Hokkaido University: Possibility and issues of liner shipping via the Northern Sea Route

Liisa Kauppila, PhD Candidate, University of Turku and Rasmus Gjedssø Bertelsen, Professor, University of Tromsø – The Arctic University of Norway,: China-Arctic Maritime and Energy Systems in the Making: Functional Regionalisation in the High North

Tero Vauraste, President and Chief Executive Officer, Arctia Ltd., Chair of Arctic Economic Council: Business Perspective

**Moderator:** Ambassador Hannu Halinen, IIASA

## SATURDAY, OCTOBER 14

### 16:00 – 17:30 FUTURE OF THE ARCTIC; OBSERVER ENGAGEMENT AND CONTRIBUTION

Organized by the Korea Arctic Research Consortium (KoARC)

#### SPEAKERS

Hyoungh Chul Shin, Director, Division of Strategy and Cooperation, Korean Arctic Research Consortium: Opportunities for observer contribution to the Arctic Community with a sample case of the Korean road map

Nicole Biebow, EU-Polar Net; International Cooperation Unit, Alfred Wegener Institute (AWI): Arctic science cooperation and recent moves; European perspective

Timo Koivurova, Director and Research Professor, Arctic Center, University of Lapland: How to improve the observer participation system in the Arctic Council

Jan Rene Larsen, Secretary, Sustaining Arctic Observing Networks (SAON); Deputy Executive Secretary, Arctic Monitoring and Assessment Programme (AMAP): Observer cooperation and contribution; AMAP and SAON viewpoint

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## BREAKOUT SESSIONS 17:30 – 19:00

### 17:30 – 19:00 THE ARCTIC AS THE FIELD OF SDGS

Organized by the Ministry of Foreign Affairs of Japan

#### SPEAKERS

Hiroyasu Hasumi; Professor, Atmosphere and Ocean Research Institute, The University of Tokyo: Prediction and predictability of the Arctic climate

Natsuhiko Otsuka; Professor, Arctic Research Center, Hokkaido University: Navigability and economic feasibility of Arctic shipping

Hiroki Takakura; Professor, Center for Northeast Asian Studies, Tohoku University: Permafrost and culture dynamics in Siberia

#### PANELISTS

Larry Hinzman; Vice Chancellor for Research, University of Alaska Fairbanks  
Jeremy P. Wilkinson; Senior scientist British Antarctic Survey

### 17:30 – 19:00 ARCTIC YOUTH AND SUSTAINABLE FUTURES: CASE STUDIES AND FOCUS GROUPS FROM ACROSS THE ARCTIC

Organized by Stefansson Arctic Institute and the University of Akureyri

#### SPEAKERS

Joan Nymand Larsen, Professor of Economics and Arctic Studies, University of Akureyri; Senior Scientist, Stefansson Arctic Institute, Akureyri, Iceland

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Diane Hirshberg, Professor of Education Policy, and Director, Center for Alaska Education Policy Research Institute of Social and Economic Research, University of Alaska Anchorage, USA

Andrey Petrov, Associate Professor of Geography and Geospatial Technology, University of Northern Iowa, USA

Jón Haukur Ingimundarson, Senior Scientist, Stefansson Arctic Institute, and Associate Professor of Anthropology and Arctic Studies, University of Akureyri

Marta Einarsdóttir, Researcher, University of Akureyri Research Centre, Iceland

Leneisja Jungsberg, Research Fellow, Nordregio, Sweden

Anna Karlsdóttir, Senior Research Fellow, Nordregio, Sweden

Timothy Heleniak, Senior Research Fellow, Nordregio, Sweden

Joan Nyman Larsen, Professor of Economics and Arctic Studies, University of Akureyri; Senior Scientist, Stefansson Arctic Institute

Jón Haukur Ingimundarson, Senior Scientist, Stefansson Arctic Institute; Associate Professor of Anthropology and Arctic Studies, University of Akureyri, Iceland.

### CHAIRS

Joan Nyman Larsen, Senior Scientist and Research Director, Stefansson Arctic Institute & Professor, University of Akureyri

Jón Haukur Ingimundarson, Senior Scientist, Stefansson Arctic Institute; Associate Professor, University of Akureyri, Iceland

## 17:30 – 19:00 'OUR ARCTIC': ACHIEVEMENTS, OPPORTUNITIES, AND CHALLENGES IN THE CANADIAN NORTH

Organized by the University of Toronto

### SPEAKERS

The Honourable Bob McLeod, Premier of the Northwest Territories

Madeleine Redfern, Mayor of Iqaluit, Nunavut

Clint Davis, Chairman at NGC Nunatsiavut Inc.; Inuit Capital Strategy Trust; and Partner and Managing Director of Acasta Capital Indigenous

David Ramsay, former Minister of Industry, Tourism and Investment, Northwest Territories; CEO of Arctic Mineral Resources; and Director, Fortune Minerals

**Chair:** Dr. Jessica Shadian, Distinguished Senior Fellow, Bill Graham Centre for Contemporary International History, U. of Toronto

## SATURDAY, OCTOBER 14

### 17:30 – 19:00 SCALES OF OBSERVATIONS – CONNECTING ARCTIC DATA, INFORMATION AND PEOPLE

Organized by Group on Earth Observations (GEO), Sustaining Arctic Observing Networks (SAON), European Polar Board (EPB), World Meteorological Organisation (WMO), and the Inuit Circumpolar Council (ICC)

#### INTRODUCTION

Barbara Ryan, Secretariat Director, Group on Earth Observations

#### SPEAKERS

Árni Snorrason, Director, Icelandic Meteorological Office: Large-scale Arctic climate observations –WMO

Jan René Larsen, SAON Secretary, Arctic Monitoring and Assessment Programme: International coordination of Arctic monitoring

Yubao Qiu, Associate Professor, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences: Integrating Scales of Observations – an Example from High Mountain Asia

CIRES, University of Colorado: Data Interoperability in Arctic Earth Observations

#### PANELISTS

Hannele Savela, Research Coordinator, Thule Institute, University of Oulu (INTERACT)

Anders Oskal, Director, International Centre for Reindeer Husbandry (ICR)

Ola Gråbak, Applications Engineer, European Space Agency (ESA)

Stein Sandven, Research Director, Nansen Environmental and Remote Sensing Center (INTAROS)

Maribeth Murray, Executive Director, Arctic Institute of North America (AINA)

**Chair:** Peter Pulsifer, Research Scientist, National Snow and Ice Data Center CIRES, University of Colorado

### 17:30 – 19:00 EU ARCTIC POLICY: SCIENCE AS CATALYST FOR INTERNATIONAL COOPERATION

Organized by EU-PolarNet, the European Polar Board and INTERACT

#### SPEAKERS

Margareta Johansson, Coordinator INTERACT: Sustained transnational access to Arctic terrestrial infrastructures.

Martin Jeffries, Assistant Director for Polar Sciences & Executive Director, U.S.

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Interagency Arctic Research Policy Committee, White Office of Science and Technology Policy: Facilitating Arctic Science Cooperation via the Canada-EU-USA Atlantic Ocean Research Alliance.

Hyoungh Chul Shin, Head of Department for International Cooperation, Korea Polar Research Institute (KOPRI): Arctic research cooperation; role of observer states and the growing contribution.

Alexander Klepikov, Head of Department for Antarctic Ocean and Climate Studies, Arctic and Antarctic Research Institute (AARI, Russia): The Russian perspective on key areas of international cooperation in Arctic research.

Verónica Willmott, Project Manager ARICE (Alfred Wegener Institute, Germany): ARICE: Arctic Research Icebreaker Consortium. An international cooperation strategy for meeting the needs for marine-based research in the Arctic.

**Chair:** Andrea Tilche, Head of Unit Climate Action and Earth Observation, Directorate General for Research and Innovation, European Commission

### 17:30 – 19:00 AN ARCTIC OF REGIONS: THE ROLE OF SUBNATIONAL STATES IN ARCTIC GOVERNANCE

Organized by the Government of Québec

#### SPEAKERS

Craig Fleener, Arctic Policy Advisor and Director of State and Federal Relations, Office of the Governor of Alaska\*

Michael Sfraga, Director, Polar Initiative, Wilson Centre

Mika Riipi, County Leader of Lapland, Finland

Lassi Heininen, Professor of Arctic Politics at the Faculty of Social Sciences, University of Lapland

Éric Thérroux, Assistant Deputy Minister, Ministère des Relations internationales et de la Francophonie, Québec

Thierry Rodon, Institut nordique du Québec, Université Laval, Québec

**Chair:** Emissary on Climate Change and Nordic Affairs, Gouvernement du Québec\*

### 17:30 – 19:00 CONNECTING ARCTIC SCIENCE WITH DECISION-MAKING - FROM IASC TO THE ARCTIC COUNCIL

Organized by the International Arctic Science Committee (IASC)

#### SPEAKERS

Volker Rachold, Head, German Arctic Office, Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research: Collaboration

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between International Arctic Science Committee and the Arctic Council  
– from the past into the future

Lars-Otto Reiersen, Executive Secretary, Arctic Monitoring and Assessment Program (AMAP) Arctic Council Working Group: From scientific input to policy recommendations in assessing state of Arctic environment

Henry Burgess, Head, NERC Arctic Office, British Antarctic Survey, UK: A non-Arctic country perspective on connecting Arctic science to decision-making: successes, challenges and hopes for the future

Allison A. Fong, MOSAiC Ecosystems Working Group Coordinator, Postdoctoral Scholar, Alfred-Wegener-Institut, Germany: MOSAiC – forging international cooperation towards enhancing our understanding of regional and global consequences of Arctic climate change

Kelly Falkner, Director, Office of Polar Programs, National Science Foundation, US: Agreement on Enhancing International Arctic Scientific Cooperation – next steps and practical implications

Chair:

Gosia Smieszek, Researcher, Arctic Centre, University of Lapland / Fellow, IASC

### 17:30 – 19:00 STORIES THAT NEED TO BE TOLD IN NORTH ATLANTIC & ARCTIC MEDIA

Organized by JONAA: Eyewitness the Emerging North

#### CHAIRS

Vilborg Einarsdottir, Editor-in-Chief, JoNAA

Nils Arne Johnsen, Arctic Director, Ramboll

Dana Eidsness, Director Maine North Atlantic Development Office, MENADO

Inga Dora Markussen, Secretary General, West Nordic Council

Hlín Johannesdottir, Managing Editor, JoNAA

Joachim Weidemann, Europe Affairs editor, JoNAA & Director of JoNAA Monitoring

### 17:30 – 19:00 TOWARD A HOLISTIC BIO-SOCIO-ECONOMIC PAN-ARCTIC FISHERIES ASSESSMENT

Organized by the International Institute for Applied Systems Analysis (IIASA)

#### SPEAKERS

Mikko Heino, Professor, University of Bergen: Ecology and evolution of sustainable exploitation of fish stocks

Ulf Dieckmann, Program Director, IIASA: Reconciling societal objectives and stakeholder interests in integrated fisheries assessments

Rachel Tiller, Research Scientist, SINTEF: Reducing uncertainty in climate-change scenario development through transdisciplinary integration of qualitative stakeholder data in decision-support systems



## **SATURDAY, OCTOBER 14**

Petr Havlík, Senior Research Scholar, IIASA: An integrated economic model of global fisheries, aquaculture, and agriculture

### **17:30 – 19:00 OCEAN ENERGY – RECONCILING ECONOMIC GROWTH AND CLIMATE ACTION**

Organized by Seabased

#### **PANELISTS**

Rémi Gruet, CEO, Ocean Energy Europe

Sebastian Johansen, Senior Technology Expert, Fortum

Marcelle Askew, Director, Seabased

Valdimar Össurarson, Owner and Inventor, Valorka

#### **MODERATOR**

Gudni A. Johannesson, CEO of the Icelandic Energy Agency

### **17:30 – 19:00 CLIMATE CHANGE AT HIGH NORTHERN LATITUDES**

Organized by the Nordic Centre of Excellence: eScience Tools for Investigating Climate Change at High Northern Latitudes (eSTICC)

Speakers to be announced

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## **RECEPTION 19:00 – 20:00**

### **JAPANESE NIGHT**

Location: Norðurljós, Harpa Second Level

*Hosted by Japan's Ministry of Foreign Affairs*

*Shamisen performance by Hibiki Ichikawa with Enka singer Akari Mochizuki*

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**SATURDAY, OCTOBER 14**

## **BREAKOUT SESSIONS 20:00 – 21:00**

### **20:00 – 21:00 INTERSECTION ARCTIC: A TRANSDISCIPLINARY APPROACH TO REGIONAL ENVIRONMENT POLICY**

Organized by the Arctic Summer College, Ecologic Institute US, Ecologic Institute Berlin

#### **SPEAKERS**

Divya Nawale, 2017 Arctic Summer College Fellow: How Arctic cities create climate resilience through policy and leadership

Emily Hewitt, 2017 Arctic Summer College Fellow: Lessons learned on traditional knowledge mapping and community-led research: Towards a Sustainable Fishery for Nunavummiut

Michael Mauer, 2017 Arctic Summer College Fellow: Arctic Development Fund: A New Funding Mechanism for the Arctic Region

#### **PANELISTS**

Arne Riedel, Director, Arctic Summer College, Ecologic Institute – Berlin

Brendan O'Donnell, Editor, Arctic Summer College Yearbook, Ecologic Institute – Washington, DC

R. Andreas Kraemer, Founder, Arctic Summer College

**Chair:** Max Gruenig, Director, Ecologic Institute US

### **20:00 – 21:00 CELEBRATING ERASMUS IN THE ARCTIC**

Organized by Rannís – Icelandic Centre for Research National Agency for the Erasmus+ Programme in Iceland in cooperation with the University of Akureyri.

#### **SPEAKERS**

Ágúst Hjörtur Ingþórsson, Head of Division at Rannís and director of Erasmus+ National Agency in Iceland: Erasmus in the Arctic – a look at organised mobility of students and academics in the Nordic countries

Rachael Lorna Johnstone, Professor, University of Akureyri: The Erasmus+ experience – personal reflections on the potential impact of Erasmus in the Arctic

Mana Tugend, Polar Law student at University of Akureyri and former Erasmus+ exchange student in Norway: The Erasmus+ experience

**Moderator:** Pál Markusson, Vice President Mobility, The University of the Arctic

*Light refreshments will be served.*

## **SATURDAY, OCTOBER 14**

### **20:00 – 21:00 FILM SESSION: POLISH EXPLORATION OF THE CHANGING ARCTIC**

Organized by the Centre for Polar Studies, Poland & Polish Polar Consortium

#### **SHORT FILMS**

Poles north of the Arctic Circle - Polish Polar Station Hornsund, directed by  
Piotr Łepkowski, Centre for Polar Studies, Poland

Polish Exploration of the Arctic, directed by Piotr Łepkowski, Centre for Polar  
Studies, Poland

A few people at the top of the world, directed by Robert Pogorzelski, Poland

#### **SPEAKERS**

Marek Lewandowski, Head of the Department of Polar Research, Institute of  
Geophysics, Polish Academy of Sciences, Warsaw

Anna Temp, PhD student of psychology, University of Edinburgh

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## **ARCTIC CIRCLE CLUB OPEN 20:00 – 24:00**

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# SUNDAY, OCTOBER 15

Location: Harpa

## 07:30 – 12:00 REGISTRATION

## BREAKOUT SESSIONS 8:00 – 9:00

### 08:00 – 09:00 GOING LOCAL! ARCTIC FUTURE STRATEGIES FROM A LOCAL PERSPECTIVE

Organized by: Institute of the North, Alaska, USA and CONOW (Centre for International Relations), Oslo, Norway

#### SPEAKERS

Dan Lewis, Nairobi, Chief Risk Reduction Unit UN Habitat

Representatives from the Arctic Mayors Forum established in Fairbanks on May 11, 2017:

Ida Pinnerød, Mayor, Bodø, Norway

Asii Chemnitz Narup, Mayor, Sermersooq, Greenland

Eiríkur Björn Björgvinsson, Mayor, Akureyri, Iceland

#### Chair:

Christin Kristoffersen, Oslo, former Mayor of Svalbard, partner Conow & AAG

Nils Anderssen, Fairbanks, Director Institute of the North

### 08:00 – 09:00 CLIMATE SERVICE INNOVATION AND ENHANCING CLIMATE-RESILIENCE IN ARCTIC BUSINESSES

Organized by: Climate-KIC Aps

#### SPEAKERS

Mark Payne, Senior Researcher, Danish Technical University: Introduction to climate-services; the opportunities and the benefits

Anna Karlsdóttir, Senior Research Fellow, Nordregio: Climate services and their role in long-term business strategy

Mads Randbøll Wolff, Project Manager, Nordic Ministry Council for the Nordic Pavilion at COP23: Arctic SME's and achieving climate resilience

Peter Vangsbo, Nordic Business Developer Climate-KIC: Facilitating greater innovation within climate services and climate-resilience, breaking down knowledge silos

**Chair:** Solveig Zophoniasdottir, Climate KIC

## SUNDAY, OCTOBER 15

### 08:00 – 09:00 THE GREENLANDIC ICE SERVICE IN A CHANGING ARCTIC

Organized by Danish Meteorological Institute

#### SPEAKERS

Marianne Thyrring, Director General the Danish Meteorological Institute: The importance of ice service and international collaboration

Keld Qvistgaard: Senior Ice Advisor, Client Relations Manager: The DMI Greenland Ice Service – new requirements, new possibilities

### 08:00 – 09:00 COMMUNITY MAPPING THE ARCTIC

Organized by: Anchorage Museum, Lateral North

#### SPEAKERS

Julie Decker, Director of the Anchorage Museum, Alaska

Graham Hogg, Lateral North, Scotland

## PLENARY SESSIONS 9:00 – 12:00

### 09:00 – 09:45 COUNTRY SESSION – INDIA

- M. Ravichandran, Director, National Centre for Antarctic and Ocean Research (NCAOR), Goa
- Vijay Kumar, Scientist 'G'/Adviser, Ministry of Earth Sciences of India

### 09:45 – 10:30 COUNTRY SESSION – POLAND AND THE ARCTIC

#### SPEAKERS

- Jacek Adam Jania, Professor – Chair, Committee of Polar Research, Polish Academy of Science: From Long Tradition to Modern Studies of the Arctic System. An Introduction
- Łukasz Szumowski, Under-Secretary of State, Ministry of Science and Higher Education: Strategy of Polish Research Development in the Arctic
- Ambassador Andrzej Misztal, Director of the Legal and Treaty Department in the Ministry of Foreign Affairs: Polish Arctic Policy – an Arctic Council Observer State Perspective
- Agnieszka Beszczyńska-Möller, Physical Oceanographer, Institute of Oceanology, Polish Academy of Sciences: Ocean and climate changes in the warming Arctic
- J.M. Węśławski, Professor, Institute of Oceanology: Environmental Aspects of the Melting Arctic

**Moderator:** Małgorzata Śmieszek, Researcher, Arctic Centre, University of Lapland, Rovaniemi

## SUNDAY, OCTOBER 15

### 10:30 – 11:15 NORTH MEETS SOUTH: INDIGENOUS ARCTIC-GLOBAL DIALOGUE

Traditional Knowledge in Climate Change Policies and Action

*Organized in collaboration with Conservation International*

#### OPENING

- Kristen Painemilla, Senior Vice President and Managing Director, Policy Center for Environment and Peace, Conservation International

#### PANEL

- Okalik Egeesiak, Chair of the Inuit Circumpolar Council
- Hindou Ibrahim, Coordinator, Indigenous Women and Peoples Association of Chad; Executive Committee, Indigenous Peoples of Africa Coordinating Committee
- Representative from the Pacific\*

**Chair:** Dalee Sambo Dorough, PhD, Associate Professor of International Relations, University of Alaska Anchorage, former Chairperson of the UNPFII

### 11:15 – 12:00 21<sup>st</sup>-CENTURY SUSTAINABLE FISHERIES

#### I. MARINE BIODIVERSITY, CLIMATE AND FOOD SECURITY

- Tom Barry, Executive Secretary, Conservation of Arctic Flora and Fauna (CAFF) Working Group of the Arctic Council
- Árni Mathiesen, Assistant Director-General, Fisheries and Aquaculture Department of the United Nations Food and Agriculture Organization\*

#### II. IT AND BIOTECHNOLOGY – LESSONS FROM ICELAND

- Representatives from the Icelandic companies Marel, HB Grandi, Brim

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## NETWORKING LUNCH 12:00 – 12:45

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## BREAKOUT SESSIONS 12:45 – 13:45

### 12:45 – 13:45 NEW NEXUS OF ARCTIC SECURITY – FROM ELIMINATION OF ENVIRONMENTAL DAMAGE TO REGIONAL SECURITY

Organized by: NRF-UArctic Thematic Network on Geopolitics and Security

#### SPEAKERS

Lassi Heininen, Professor, University of Lapland: Environmental Impacts and

## SUNDAY, OCTOBER 15

Risks of the Military, in Peacetime – an Overview

Michael Byers, Professor & Canada Research Chair, Department of Political Science, University of British Columbia: Toxic Splash: Russian Rocket-Stages Dumped in Arctic Waters Raise Health and Environmental Concerns

Anatoly Shevchuk, Deputy Chairman of the SOPS VAVT under the Ministry of Economic Development, Professor of RANEP, Academician of REA: Evaluation and elimination of accumulated ecological damage in the Russian Arctic zone

Alexander Sergunin, Professor, St. Petersburg State University: The Changing Role of Military Power in the High North

**Moderator:** Heather Exner-Pirot, Strategist for Outreach and Indigenous Engagement, University of Saskatchewan, Managing Editor, Arctic Yearbook

### 12:45 – 13:45 RESULTS FROM A NEW CLIMATE CHANGE IMPACT ASSESSMENT FOR ICELAND

Organized by: Icelandic Meteorological Office, University of Iceland, Agricultural University of Iceland, Marine and Freshwater Research Institute, Icelandic Institute of Natural History

#### SPEAKERS

Halldór Björnsson: Climate change in Iceland

Jón Ólafsson: Rapid ocean acidification in Icelandic waters

Ólafur S. Ástþórsson: Changes in Marine ecosystems around Iceland

Trausti Baldursson: Changes terrestrial flora and fauna

Brynhildur Davíðsdóttir: Societal impacts of climate change in Iceland.

### 12:45 – 13:45 SUSTAINABLE DEVELOPMENT IN REMOTE COMMUNITIES: THREE MODELS OF COMMUNITY OWNERSHIP

Organized by: Nordic Horizons

#### SPEAKERS

Maggie Fyffe MBE, Secretary of the Isle of Eigg Heritage Trust: Eigg – the community owned island. Eiggtricity

John Fraser Mckenzie, a helicopter pilot, farmer and green energy advocate: GlenWyvis – the community owned distillery, The Community Spirit

Alison Macleod, Development Officer for Applecross Community Company: From petrol to Apple Juice

**Chair:** Lesley Riddoch, Director of Nordic Horizons

## SUNDAY, OCTOBER 15

### 12:45 – 13:45 ENERGY SECURITY IN REMOTE COMMUNITIES

Organized by: Navigo

#### PANELISTS

Peter Vangsbo, Nordic Business Developer, Climate-KIC Nordic

Guðmundur Haukur Sigurðarsson, CEO of Vistorka Company: Creative Approaches to Renewable Energy Independence

Gwen Holdmann, Director, Alaska Center for Energy & Power\*: Lab Services for Remote Microgrid Technology & Deployment

Jay Friedlander, Professor and Sharpe-McNally Chair of Green and Socially Responsible Business: Make sustainability strategic with the Abundance Cycle

**Chair:** Ágústa Ýr Þorbergsdóttir, Director, Navigo

### 12:45 – 13:45 THE QUIET REVOLUTION: SENSING THE ARCTIC WITH AUTONOMOUS UNDERWATER VEHICLES

Organized by: World Climate Research Programme (WCRP), NERC Arctic Office, United Kingdom

#### SPEAKERS

Phil Anderson - Head of Marine Technology, Scottish Association for Marine Science, United Kingdom

Craig M. Lee, APL, Senior Principal Oceanographer, Applied Physics Laboratory, Professor, School of Oceanography, University of Washington: Multi-platform Autonomous Approaches for Sustained Arctic Observing

Emanuel Ferreira Coelho: Challenges and solutions using robotic networks to characterize the Ocean-Acoustic Underwater Environments in the High North

Thorben Wulff, AWI, Bremerhaven, Germany: The coupling between physical and ecological processes - fine scale investigations with an AUV in the Arctic

### 12:45 – 13:45 THE ARCTIC AND POLAR RESEARCH AS AN VEHICLE FOR STEM & ENVIRONMENTAL EDUCATION

Organized by the Institute of Geophysics, Polish Academy of Sciences

#### SPEAKERS

Agata Goździk, Project Coordinator, Institute of Geophysics PAS, Poland: EDU-ARCTIC program for secondary schools in Europe

Margareta Johansson, INTERACT Coordinator, Lund University, Sweden & Dr. Agata Goździk: Educational resources on the Arctic - meeting the expectations of teachers based on INTERACT Horizon2020 survey

Halldor Palmar Halldorsson, director, University of Iceland's Research Center



## SUNDAY, OCTOBER 15

in Sudurnes, Iceland: Educational activities and opportunities at the Sudurnes Science and Learning Center, SW Iceland

Halldór Jóhannsson, Executive Director, Arctic Portal, Iceland: Science communication to educators

Tomasz Wawrzyniak, polar researcher at Institute of Geophysics PAS, Poland: Exploitation of Polar Research results In School practice – project ERIS

### 12:45 – 13:45 THE UK AND THE ARCTIC AND NORDIC REGIONS: OPPORTUNITIES FOR TRADE AND INVESTMENT

Organized by: Polar Research and Policy Initiative

#### SPEAKERS

Dwayne Ryan Menezes, Director, Polar Research and Policy Initiative; Director, Think-Film Impact Production: Arts and Culture

Dr Ilan Kelman, Reader, UCL Institute for Risk and Disaster Reduction, University College London, Member of the Advisory Board, Polar Research and Policy Initiative: Education and Risk Management

Thomas Bishop, Project Lead, WilkinsonEyre Head, Built Environment Unit, Polar Research and Policy Initiative: Architecture and Infrastructure

Domagoj Baresic, Fellow, Shipping Unit, Polar Research and Policy Initiative, Global Energy Institute, University College London: Shipping

Nic Craig, Fellow, Energy Unit, Polar Research and Policy Initiative: Energy

Richard Clifford, Fellow, Geopolitics and Security Unit, Polar Research and Policy Initiative: Scotland and the North

#### CHAIR:

Terzah Tippin Poe, Lecturer, Harvard University, Member of the Advisory Board, Polar Research and Policy Initiative

### 12:45 – 13:45 THE BELT AND ROAD INITIATIVE: IMPLICATIONS FOR THE ARCTIC

Organized by the Centre for Arctic Policy Studies, University of Iceland

#### SPEAKERS

Marc Lanteigne, Senior Lecturer at the Centre for Defence and Strategic Studies (CDSS) at Massey University, Auckland, New Zealand: China's Belt and Road and the Role of the Arctic

Egill Þór Níelsson: An Ice Silk Road From China to the Nordics

Mingming Shi, Project manager: China's economic diplomacy in Greenland: an issue for Denmark?

#### Moderator:

Pia Hansson, Director, Institute of International Affairs, University of Iceland

## SUNDAY, OCTOBER 15

### 12:45 – 13:45 OUT OF ICE (PUBLICATION LAUNCH AND FILM SCREENING)

Organized by Elizabeth Ogilvie, Environmental Artist, Scotland, with support of the Stefansson Arctic Institute/Collaborating with SAI on the ARCPATH session, Black Dog Publishing, London, UK

Speakers to be announced

### 12:45 – 13:45 ARCTIC SCIENCE & BUSINESS / INDUSTRY COOPERATION

Organized by the International Arctic Science Committee (IASC)

#### SPEAKERS

Kelly Drew, Professor, University of Alaska Fairbanks: Translating mechanisms of hibernation in Arctic species for rural and remote emergency medicine shows how Arctic research can impact world health.

Sara Longan, Executive Director, North Slope Science Initiative (NSSI), US Department of the Interior, Bureau of Land Management: Perspectives on integrating science into Arctic development planning and approvals

Tara Sweeney, Arctic Economic Council Vice-Chair, Inuit Circumpolar Council (ICC) Executive Vice President of External Affairs for Arctic Slope Regional Corporation: Perspectives from industry in the Arctic and the broader voice of the AEC, which facilitates Arctic business-to-business activities and responsible economic development through the sharing of best practices, technological solutions, standards, and other information

Andrea Tilche, Head, Climate Action and Earth Observation Unit, European Commission: The Business Case for Arctic Observations

Toril I. Røe Utvik, Manager Arctic Unit, Statoil: Academia-industry cooperation in Norwegian Arctic research

**Chair:** Larry Hinzman, Vice-President, International Arctic Science Committee, Chair, IASC Action Group of Arctic Science & Business/Industry Cooperation, Vice Chancellor for Research, the University of Alaska Fairbanks

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### 13:45 – 14:00 COFFEE BREAK

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**SUNDAY, OCTOBER 15**

## **PLENARY SESSIONS 14:00 – 16:30**

14:00 – 14:30 THE OPENING OF THE ARCTIC OCEAN

**SPEAKERS**

- David Balton, Deputy Assistant Secretary for Oceans and Fisheries, United States Department of State
- Representative from Russia\*

**Moderator:** Jóhann Sigurjónsson, Special Envoy for Oceans, Ministry for Foreign Affairs of Iceland

14:30 – 15:00 THE ARCTIC AS A BAROMETER OF GLOBAL RISK

Organized by the European Climate Foundation

15:00 – 15:30 ARCTIC ERUPTION: POLAR AVIATION AND VOLCANIC ASH

- Sara Barsotti, Volcanic Hazards Coordinator, Icelandic Met Office
- Ásgeir Pálsson, Director of Air Navigation Services, Isavia
- Representative from Icelandair

15:30 – 16:00 DEVELOPING A SOCIETY UNDER EXTREME WEATHER CONDITIONS

*The Icelandic example*

Organized by: Landsvirkjun Power, EFLA, Verkís & Mannvit

- Guðni A Jóhannesson, Director General, Orkustofnun: A History of Icelandic Infrastructure Development
- Guðmundur Pétursson, Senior Project Manager, Landsvirkjun: Building up Knowledge in a Small Society: the Hydropower Example
- Helga Jóhannsdóttir, Managing Director of Operations, RARIK: Operating Energy Facilities/Utilities in Harsh Weather Conditions

**Chair:** Ragnheiður Elín Árnadóttir, Senior Fellow at the Atlantic Council's Global Energy Center; former Minister of Industry and Commerce of Iceland

16:00 – 16:15 THE ESTABLISHMENT AND THE MISSION OF THE ARCTIC OFFICE IN GERMANY

- Volker Rachold, Head, German Arctic Office, Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research.

## SUNDAY, OCTOBER 15

16:15 – 16:30 HUNTING THE NORTHERN CHARACTER

- Tony Penikett, former Governor of the Yukon (1985-1992)

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## ARCTIC CIRCLE CLUB OPEN 16:30 – 19:00

*Location: Björtuloft – Harpa top floor*