



## 2017 ARCTIC CIRCLE ASSEMBLY OCTOBER 13-15

### WEDNESDAY, OCTOBER 11: PRE-EVENT

17:00 – 19:00 WORLD COUNCIL OF CHURCHES CONFERENCE:  
JUST PEACE WITH EARTH

Location: Digranes Church, Kópavogur

Organized by the World Council of Churches

Open to all Assembly participants

#### PRAYER SERVICE

- Agnes M. Sigurðardóttir, Bishop of Iceland

#### OPENING

- Björt Ólafsdóttir, Minister of Environment, Iceland
- Peter Prove, Director of the World Council of Churches' Commission of the Churches on International Affairs
- Henrik Grape, Coordinator of World Council of Churches Working Group on Climate Change
- Ármann Ólafsson, Mayor of Kópavogur

**Chair:** Einar Karl Haraldsson, Chairman of the Preparatory Committee

*Reception and buffet by Kópavogur Municipality*

## THURSDAY, OCTOBER 12: PRE-EVENTS

### 10:00 – 16:30 ENERGY IN THE ARCTIC: A FIRSTHAND PERSPECTIVE

Location: Reykjavík University

Organized by the Iceland School of Energy at Reykjavík University

Open to all Assembly participants: Pre-registration required via [arcticenergy@ru.is](mailto:arcticenergy@ru.is)

#### SESSION 1

- Ari Kristinn Jónsson, Rector, Reykjavík University
- Robert Sauvé, President, Société du Plan Nord
- Oli Gretar Sveinsson, Executive Vice President, Landsvirkjun
- Juliet Newson, Director, Iceland School of Energy

#### SESSION 2

- Hakim Nesreddine, Hydro-Québec: Integrated Energy Systems for Off-Grid Arctic Regions.
- Árni Snorrason, Director General, Iceland Met Office: Climate and energy resources – opportunities and risks.
- Jasmin Raymond, Professor, INRS: Developing geothermal technologies in Nunavik.
- Adamie Delisle Alaku, Makivik Corporation: Developing Nunavik the Inuit way, Innovative approaches to sustainability

#### SESSION 3

- Taha Ouarda, Professor, INRS: Analysis of renewably-powered desalination and water treatment in remote areas.
- René Therrien, Professor, Université Laval: Groundwater flow modeling in the Arctic.
- Louis Fortier, Scientific Director, Institut Nordique du Québec: Institut Nordique du Québec and its role in Nordic development.
- Maxime Claprood, INRS: Stochastic reservoir modeling with limited wells and surface geophysical data

#### SESSION 4

- Peter Betlem, Iceland School of Energy: 3D thermo-baric modelling of central Spitsbergen: Implications for gas hydrate occurrence and geothermal potential.
- Laurentiu Lucian Anton, Iceland School of Energy: Developing an algorithm for the optimization of transmission branches with Snæfellsnes as a case study.
- Enzo Adrianus Johannes Diependaal, Iceland School of Energy: Modeling for Isolated (Arctic) Mining and Utility Grids

**09:00 – 12:00 WORLD COUNCIL OF CHURCHES CONFERENCE:  
JUST PEACE WITH EARTH**

Location: Digranes Church, Kópavogur  
Organized by the World Council of Churches  
Open to all Assembly participants

**LECTURES**

- Archbishop Emeritus Anders Wejryd, European President of WCC
- Anders Wejryd, Dr, European President of WCC
- Sólveig Anna Bóasdóttir, Professor of ethics, Theological Department of the University of Iceland
- Risten Turi Alexandersen, General Secretary of the Christian Sami Council Norway
- Peter Notebom, Deputy General Secretary of the Canadian Council of Churches
- Halldór Björnsson, the Group leader of Weather and Climate Research, Icelandic Meteorological Office

**PANEL: The Role of Faith Communities in Meeting Climate Challenges**

- Rev. Dr. Peter Pavlovic Conference of European Churches
- Archpriest Dr. Michael J. Oleksa, Alaska
- Clarisse Kehler Siebert, Stockholm Environment Institute
- Rev. Dr Rodney Petersen, former Director of the Boston Theological Institute
- Frances Namoumo, Coordinator of Pacific Conference of Churches Stewardship Programme

**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**

Location: 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 – 19:30**

Location: Reykjavík Art Museum – Harbour House (Hafnarhúsið)  
*Open to all Assembly participants*  
*Sponsored by Icelandair Group*

## 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 Level

*Arranged by the Government of Norway*

### POLAND AND THE ARCTIC: FROM LONG TRADITION TO MODERN STUDIES

Location: Sky Staircase, Harpa Second to Fourth Level

*Arranged by the Government of Poland*

### ICELAND IS A WORK OF ART - SARA OSKARSSON AND JON GUSTAFSSON

Location: Breakout Session Rooms – Harpa, 3rd, 4th and 5th floor in Esja, Akrafjall, Skarðsheiði

## ICEBREAKER MSV NORDICA

The Finnish multipurpose icebreaker MSV Nordica is moored at Miðbakki berth, just a stone's throw from Harpa Conference Center. Organizations planning meetings during the Arctic Circle Assembly can hire space on board MSV Nordica for their events. These unique venues are available for booking through the Arctic Circle Assembly room reservation system. Availability is restricted to certain times coinciding with the Arctic Circle Assembly morning and afternoon Breakout Sessions, and to terms assigned by the vessel owner. The vessel will be open to the general public through a restricted tour on board on Friday, Saturday and Sunday (October 13-15) from 10:00 until 14:00. Video montages by a Finnish and an Icelandic artist will be projected on the hull of the vessel every evening.

**FRIDAY, OCTOBER 13**

## **FRIDAY, OCTOBER 13: PLENARY SESSIONS**

Location: Harpa

07:30 – 17:00 REGISTRATION

08:30 – 09:45 WELCOME

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

### OPENING SESSION I

- Bjarni Benediktsson, Prime Minister of Iceland
- Bob McLeod, Premier of the Northwest Territories
- Ségolène Royal, Ambassador for the Arctic and Antarctic Poles, former Minister of Climate and Environment, France
- H.E. Guðni Th. Jóhannesson, President of Iceland

### 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

**Chair – Opening I-II:** Peter Seligmann, Chairman of the Board, Conservation International

**Chair – Opening III-IV:** Alice Rogoff, Publisher, Arctic Now

09:45 – 10:10 THE WAY FORWARD IN GLOBAL CLIMATE COOPERATION

### KEYNOTES

- Patricia Espinosa, Executive Secretary of the United Nations Framework Convention on Climate Change (UNFCCC)
- Adnan Z. Amin, Director-General, International Renewable Energy Agency (IRENA)

## FRIDAY, OCTOBER 13

**Chair:** Össur Skarphéðinsson, former Icelandic Minister of Foreign Affairs, Energy and Environment

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10:10 – 10:25 COFFEE BREAK

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10:25 – 10:50 A DIALOGUE WITH NICOLA STURGEON, FIRST MINISTER OF SCOTLAND

- Nicola Sturgeon, First Minister of Scotland

**Chair:** Ólafur Ragnar Grímsson, Chairman Arctic Circle

10:50 – 11:10 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

**Chair:** Ólafur Ragnar Grímsson, Chairman Arctic Circle

11:10 – 11:25 ARCTIC CLIMATE SCIENCE AND POLICY: REGIONAL AND GLOBAL DIMENSIONS

SPEECH

- John Holdren, former Science Advisor to the President of the United States; Chairman of the White House Executive Steering Committee on the Arctic: Arctic Climate Science and Policy: Regional and Global Dimensions

**Chair:** Jan-Gunnar Winther, Specialist Director, Norwegian Polar Institute

## FRIDAY, OCTOBER 13

### 11:25 – 12:10 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 Tilchbe, Head of the Climate action and Earth observation Unit

**Chair:** David Eades, BBC

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## NETWORKING LUNCH 12:10 – 13:00

*Hosted by Bjarni Benediktsson, Prime Minister of Iceland*

## 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)

**Location: Kaldalón, Ground Level**

#### 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

**Location: Norðurljós, Second Level**

#### SPEAKERS

Eva Wu - Co-Founder, Finance and Media Coordinator of North in Focus;

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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)

**Location: Skarðsheiði, Third Level**

#### SPEAKERS

Rebecca Pincus, United States 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 routing 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

David Aplin, Interim Managing Director, WWF-US Arctic Program: Bering Beaufort Chukchi ecosystem – shared marine values

Michael 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

Yury Kostin, Deputy Head, Federal Agency for Maritime and River Transport, Russian Federation: Safety of navigation in the Russian Arctic/Bering Strait

**Chair:** Victoria Elias, Programme Director, WWF-Russia

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

Organized by: SE2T International, Ltd., USA

**Location: Flói, Ground Level**

#### 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

“Brazil as an Example for Oil Spill Prevention Regulations in High-stakes Environments”

- Celma Regina Hellebust, Lawyer, member of the Brazilian and Norwegian Bar Associations. Business consultant on Brazilian and



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Norwegian Health, Safety and Environment (HSE) regulations for the petroleum industry

- 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)

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 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

**Location: Esja, Fifth Level**

#### 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

Jane Francis, the Director of the 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

**Location: Ríma B, Ground Level**

#### SPEAKERS

Magnus Eckeskog, Oceans campaigner, Greenpeace Nordic: Introduction  
Timo Koivurova, Director of Arctic Centre in Finland, University of

## FRIDAY, OCTOBER 13

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

### 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)

**Location: Háaloft, Eighth Level**

#### SPEAKERS

Svein Rottem, FNI Senior Research Fellow: Policy Networks and oil Spill Prevention

Christian Prip, FNI, Senior Policy Adviser: Policy Networks and Arctic Biodiversity

Leif Jensen, FNI, Senior Research Fellow: Policy Networks – Comparison to Antarctica

Indra Overland, NUPI, Professor: Arctic Corporate Responsibility Index

#### PANELISTS

Emma Wilson, Scott Polar Research Institute/ECW Consulting

Anatoli Bourmistov, Professor, High North Centre for Business, Nord University

Michael Denison, Group Political Advisor, BP

**Chair:** Elana Wilson Rowe, Senior Research Fellow (NUPI)

### 13:00 – 14:00 ADAPTING POWER PRODUCTION TO A CHANGING CLIMATE

Organized by Landsvirkjun, the National Power Company of Iceland

**Location: Silfurberg, Second Level**

#### SPEAKERS

Marco Braun, PhD, Hydroclimatology Specialist, Ouranos - Climate Scenarios and Services Group, Ouranos- Responding to the Inevitable: Building Climate Resilience into the Energy Sector

Úlfar Linnét, Manager of Resources Department, Landsvirkjun: How Climate Affects Renewable Energy Production in Iceland

Ragna Árnadóttir, Deputy CEO, Landsvirkjun: Decision Making in an Uncertain Future: Climate Change and its Effect on System Planning

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

Organized by the Maine Department of Transportation

**Location: Björtuloft, Fifth Level**

#### 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

**Chair:** Dana Eidsness, Director, Maine North Atlantic Development Office  
(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

**Location: Akrafjall, Fourth Level**

#### 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

**Location: Viðey, Second Level**

#### 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

## FRIDAY, OCTOBER 13

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 – 14:25 DIALOGUE WITH SENATOR LISA MURKOWSKI

- Lisa Murkowski, United States Senator from Alaska; Chair of the Energy and Natural Resources of the United States Senate

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

**Introduction:** Alice Rogoff, Publisher, Arctic Now

#### 14:25 – 15:15 JUST PEACE WITH EARTH

##### KEYNOTE

- His All Holiness, Ecumenical Orthodox Patriarch Bartholomew I

##### PANEL

- Darren McCartney, Suffragan Bishop of the Diocese of the Arctic in Canada
- Peter Loy Chong, PhD., Catholic Archbishop of Suva, Fiji, Roman Catholic Church
- Clarisse Kehler Siebert, International Lawyer and Research Fellow at the Stockholm Environment Institute
- Reverend Tore Johnson, former General secretary, Sami Church Council Norway

**Chair:** Anders Weyjryd, PhD., Archbishop Emeritus of the Church of Sweden, World Council of Churches European President

#### 15:15 – 16:00 ROADMAP: DEMOCRATIZING CLIMATE ACTION

##### INTRODUCTION

- Ólafur Ragnar Grímsson, Chairman Arctic Circle

##### SPEAKERS

- Laurene Powell Jobs, Founder & President, Emerson Collective
- Peter Seligmann, Chairman of the Board, Conservation International
- Christoph Wolff, Managing Director, European Climate Foundation
- H.E. Prime Minister Henry Puna of the Cook Islands

**Chair:** Andy Karsner, Managing Partner, Emerson Collective; Senior Strategist & Space Cowboy, X; former United States Assistant Secretary for Energy Efficiency and Renewable Energy

## FRIDAY, OCTOBER 13

16:00 – 16:10 FROM THE ARCTIC TO THE UNIVERSE:

Cooperation on the new observatory in Northeastern Iceland

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

**Chair:** Barbara Ryan, Secretariat Director, Group on Earth Observations

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16:10 – 16:25 COFFEE BREAK

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## BREAKOUT SESSIONS 16:25-17:55

16:25 – 17:55 NORTHERN SUSTAINABLE DEVELOPMENT CHALLENGES: A  
COMPARATIVE APPROACH

Organized by the Institut nordique du Québec (INQ), and Québec  
Government

**Location: Ríma A, Ground Level**

### 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

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,  
Ilisimatuseq, University of Greenland: Traditional Food,  
Benefit/Risk communication in Arctic communities

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

Einar E. Sæmundsen, Director, Thingvellir National Park: environmental  
issues

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

## FRIDAY, OCTOBER 13

### 16:25 – 17:55 ARCTIC INNOVATION LAB: 12 IDEAS FOR A BETTER ARCTIC

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

**Location: Norðurljós, Second Level**

#### INTRODUCTION:

John Holdren, Teresa and John Heinz Professor of Environmental Policy at the Harvard Kennedy School of Government and former Director of the White House Office of Science and Technology Policy

Halla Hrunð Logadóttir, Fellow and Co-Founder, Arctic Initiative at the Harvard Kennedy School's Belfer Center for Science and International Affairs

#### PRESENTATIONS:

Gabrielle Scrimshaw, MPA Candidate, Harvard Kennedy School of Government: Indigenous Led Arctic Tourism

Mauricio Latapi, PhD Candidate, University of Iceland: Does Iceland Dream of Electric Shipping?

Morgan Brown, MPA Candidate, Harvard Kennedy School of Government: Identity and Adaptation: Food Production and Climate Change

Vanessa DiDomenico, MALD Candidate, Fletcher School of Law and Diplomacy at Tufts University: Navigating Vessels Through Compliance

Evelyn Gunawan, MSc Candidate, Iceland School of Energy, Reykjavik University: Iceland as a Blank Slate to Develop Zero Waste Arctic Communities

Charlotte McEwen, MPP Candidate, Harvard Kennedy School of Government: Using Drones to Support Remote Arctic Communities

Martina Muller, MPP Candidate, Harvard Kennedy School of Government: Protecting Marine Biodiversity through Subnational Action

Tukumminnguaq Nykjær Olsen, MA Candidate, University of Greenland: Innovation is About Inclusion: Lets Make the Arctic Inclusive

Anja Kathrin Rueß, MSc Candidate, Iceland School of Energy, Reykjavik University: Democracy on Ice – Towards Deliberative Decision-making in the Arctic

Meredith Davis Tavera, MPP Candidate, Harvard Kennedy School of Government: Knowing Your Value: Successfully Negotiating for the Interests of Arctic Communities

Ziad Reslan, MPP Candidate, Harvard Kennedy School of Government: Digital Jobs, Not Handouts!

Ryan Uljua, MALD Candidate, Fletcher School of Law and Diplomacy at Tufts University: An Arctic Investment Index

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**Chair:** Cole Wheeler, MPP Candidate, Harvard Kennedy School of Government

### 16:25 – 17:55 GLOBAL PERSPECTIVES ON TRADITIONAL KNOWLEDGE, SCIENCE AND CLIMATE CHANGE

Organized by Conservation International

**Location: Björtuloft, Fifth Level**

#### SPEAKERS:

Beatrice Lempaira, Conservationist, Conservation International, Africa - Kenya Massai nomadic herding

Hindou Ibrahim, International Indigenous Peoples Forum on Climate Change, Chad

Cristelle Pratt, Fiji

Prasert Trakansuphakon, Karen elder from Thailand, Conservationist, Conservation International: Asia - Rotational agriculture

**Chair:** Kristen Walker, Vice-president, Conservation International Policy Center for Environment and Peace

### 16:25 – 17:55 ARMS RACE, ARMS CONTROL AND DISARMAMENT IN THE ARCTIC – RUSSIAN-US DIALOGUE

Organized by NRF-UArctic Thematic Network on Geopolitics and Security

**Location: Háaloft, Eighth Level**

#### SPEAKERS

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

Nikita Lomagin, Professor, European University in St. Petersburg: Russia's Security-Policy in the Arctic

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

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

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

## FRIDAY, OCTOBER 13

### 16:25 – 17:55 THE BLUE AND THE GREEN ARCTIC – CHALLENGES AND OPPORTUNITIES

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

**Location: Skarðsheiði, Third Level**

#### SPEAKERS

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

Halfdán Helga Helgason, Project Coordinator, Seatrack, Norwegian Polar Institute: SEATRACK – Large Scale Seabird Tracking in the Northeast Atlantic

Ingibjörg Svala Jónsdóttir, Professor, UIT The Arctic University of Norway, Tromsø: 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

Jennifer Stien, Researcher at the Norwegian Institute for Nature Research (NINA): Reindeerherding, challenges and opportunities

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

### 16:25 – 17:55 EU ARCTIC POLICY: CLIMATE CHANGE, SCIENCE AND SAFEGUARDING THE ARCTIC ENVIRONMENT

Organized by ICE-ARC

**Location: Akrafjall, Fourth Level**

#### 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

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

### 16:25 – 17:55 THE NORDIC UNIVERSITIES' ROLE IN THE NEW ARCTIC

Organized by AAU Arctic, Aalborg University

**Location: Esja, Fifth Level**

#### SPEAKERS

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

Anne Husebekk, RectorUiT, Tromsø University: Sustainable business development

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

Silja Bára Ómarsdóttir, Adjunct Lecturer, University of Iceland: Safety and Peace

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

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

### 16:25 – 17:55 ECONOMIC DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP IN THE ARCTIC

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

**Location: Kaldalón, Ground Level**

#### SPEAKERS

Nauja Bianco, Senior Arctic Adviser, Nordic Council of Ministers: Welcome and introduction: The Nordic cooperation as a change agent in Arctic economies

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

Mikhail Pogodaev, Chair, Association of World Reindeer Herders, Director of The Northern Forum: An indigenous perspective on business development in the Arctic

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### CASE DISCUSSIONS

Robert Gudfinnsson, CEO of Genis, entrepreneur and investor (Iceland):  
What's needed 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, demand, and requirements

Thomas Westergaard, Senior Vice President, Hurtigruten: New Nordic Cuisine as a competitive advantage in Arctic tourism

Sveinn Margeirsson, CEO, Matís: Arctic's bio-economy as a stepping stone for growth in the Arctic

### CONCLUDING REMARKS

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

## 16:25 – 17:55 MARINE & COASTAL ARCTIC TOURISM MANAGEMENT

Organized by the Icelandic Tourism Research Center

**Location: Hafnarkot, Ground Level**

### PANELISTS

Auður Ingólfssdóttir, Icelandic Tourism Research Center: Links between climate change, human security, and sustainable tourism: an Icelandic perspective.

Frigg Jørgensen, Association of Arctic Expedition Cruise Operators: Arctic expedition cruising and sustainable marine and coastal tourism.

Jessica Shadian, Arctic 360: Tourism search and rescue financing and community participation.

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

Sergey Shirokiy, World Commission on Protected Areas: Ecological and cultural issues, opportunities, and constraints in high-latitude tourism.

Wilfred Richard, Uummannaq Polar Institute & Smithsonian Arctic Studies Center: Institutional and community dimensions of Arctic tourism.

### CHAIR:

Edward Huijbens, University of Akureyri

Guðrún Þóra Gunnarsdóttir, Icelandic Tourism Research Center

Nathan Reigner, Recreation and Tourism Science

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### 16:25 – 17:55 GLOBAL DYNAMICS AND ACTORS AFFECTING THE ARCTIC - ECOLOGICAL, TECHNOLOGICAL, ECONOMIC

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

**Location: Silfurberg A, Second Level**

#### SPEAKERS

Matthias Finger, Professor, Ecole Polytechnique Fédérale Lausanne (EPFL):  
Resources Curse in the Arctic?

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

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

“Geeconomy, Public Choice and SAR in the Arctic Region - A critical  
analysis”

- Mário Pontes Associated Researcher, CAPP (P&G), Lisboa, Portugal
- Sandra Balão, Associate Professor, CAPP (P&G), ISCSP, Universidade de Lisboa, Portugal

Hanna Katriina Lappalainen, Secretary General, Pan-Eurasian Experiment  
(PEEX), University of Helsinki & Finnish Meteorological Institute:  
Finding solutions to environmental challenges relevant to Arctic-  
boreal regions

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

### 16:25 – 17:55 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

**Location: Þjóðmenningarhúsið, Hverfisgata 15**

#### PANEL:

Rev. Thore Johnson, former General Secretary of Sami Council in Norway  
Pauliina Kainulainen, PhD., Eco Theologist, Finland

Frances Namoumo, The Coordinator Pacific Conference of Churches  
Stewardship Program/Member of the Gender and Climate Justice  
Movement in Fijii and the Region

Archpriest. Michael Oleksa, J. Alaska

**Chair:** Rev. Henrik Grape, Coordinator of the WCC working Group on  
Climate Change

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### 16:25 – 17:55 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

**Location: Ríma B, Ground Level**

#### SPEAKERS

- Natalia Andreassen, Associate Professor, Nord Business School;  
Cooperation across borders: 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
- Bjørn Olsen, Rector, 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
- Brian Holst, Executive Director, Juneau Economic Development Council:  
Blue Economy opportunities in Alaska

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

### 16:25 - 17:55 THE FUTURE OF ARCTIC FISHERIES

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

**Location: Flói, Ground Level**

#### 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

#### CHAIRS:

Jong-Deog Kim, Director General of Industry Intelligence and Strategy

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Research Division, Korea Maritime Institute  
Geir Hønneland, Director, Fridtjof Nansen Institute

### 16:25 – 17:55 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

**Location: Stemma, Ground Level**

#### SPEAKERS

Tom Barry, CAFF Executive Secretary: Overview of CAFF education and youth engagement program

"Nomadic reindeer herders"

- Alena Gerasimova, Association of World Reindeer Herders
- Svein Mathiesen Association of World Reindeer Herders:

Jeehye Kim, Korean Arctic Academy: "South Korea's Engagement with Future Generations for a Sustainable Arctic"

Gina Goh, Republic of Singapore, representing a number of Arctic youth programs in Singapore [still awaiting title of presentation]

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

#### ARCTIC YOUTH AMBASSADORS:

Perspectives for Successful Youth involvement on Arctic Sustainability

Macy Kenworthy (US Arctic Youth Ambassador Program)

Cade Terada (US Arctic Youth Ambassador Program)

Alejandro Soto (US Arctic Youth Ambassador Program)

Alliana Salanguit (US Arctic Youth Ambassador Program)

Bobbie McNeley (Aleut International)

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

### 17:55 – 19:25 WE ARE THE ARCTIC

Organized by Tromsø Kommune

**Location: Akrafjall, Fourth Level**

#### 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 Turisme in the Arctic

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

Arild Olsen, Longyearbyen, Svalbard

Niklas Nordström, Deputy Mayor of Luleå, Sweden: New Business Areas

Asii Chemnitz Narup, Mayor, Nuuk Greenland

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Madeleine Redfern, Mayor Iqaluit, Canada\*

### 17:55 – 19:25 POLAR LAW: "RELIABLE CATCH DATA: A CRUCIAL PRECONDITION FOR SUSTAINABLE OCEAN RESOURCE MANAGEMENT"

Organized by the Polar Law Institute

**Location: Þjóðmenningarhúsið, Hverfisgata 15**

#### SPEAKERS:

Eva-Kristin Varheim: Founder and Head of TIMOC Project: The moment of catch and its key role in the seafood value chain

Hjalti Ómar Ágústsson, Polar Law Institute, University of Akureyri

Jóhann Ásmundsson, Polar Law Institute, University of Akureyri

Hilmar Ögmundsson, Senior Advisor, Ministry of Finance, Greenland

**Chair:** Demian Schane, Fulbright Research Scholar at the University of Akureyri

### 17:55 – 19:25 INNOVATION FOR SUSTAINABLE DEVELOPMENT

Organized by Government of Canada

**Location: Silfurberg B, Second Level**

#### OPENING

H.E. Stéphane Dion, Ambassador to Germany and Special Envoy to the European Union and Europe, Canada

T.H. Carolyn Bennett, Minister of Crown-Indigenous Relations and Northern Affairs, Canada

#### 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 to Cabinet 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

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Canada

Mitchell White Jane Glassco Northern Fellowship Alumni, Gordon Foundation

John Higginbotham, Head of Arctic Program, Centre for International Governance Innovation

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

### 17:55 – 19:25 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)

**Location: Flói, Ground Level**

#### 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 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

**Chair:** Sune Nordentoft Lauritsen

### 17:55 – 19:25 POLAR LAW: INDIGENOUS GOVERNANCE

Organized by: University of Akureyri

**Location: Skarðsheiði, Third Level**

#### 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

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Sámi under International Law: assessed by the most recent case law.  
Tanya Joona, 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, B.A., Jane Glassco Northern Fellowship Alumna, Gordon Foundation (Canada): We don't want a brown version of the YTG, in Nän K'atädàth'ät (Changing times, continuing ways)

**Chair:** Apostolos Tsiouvalas, LL.M. Polar Law Candidate, University of Akureyri

### 17:55 – 19:25 GLOBAL IMPACTS IN THE ARCTIC – IMPLICATIONS OF THE GLOBALIZED ARCTIC WORLDWIDE

Organized by the GlobalArctic Project, and Thematic Network on Geopolitics and Security

**Location: Silfurberg A, Second Level**

#### SPEAKERS

Cécile Pelaudeix, Associate Professor, Aarhus University & Research associate PACTE-Sciences Po Grenoble: International Norm Dynamics and Arctic Governance

Michael Byers, Professor & Canada Research Chair, Department of Political Science, University of British Columbia: Arctic International Law is Global International Law

Florian Vidal – PhD Candidate, University of Paris Descartes: Globalized Arctic: From the Andean Mountains to the Barents region

Alexander Pelyasov, Director, Center for the Arctic and Northern economies: Corporate Russian Arctic: Role of Russian Arctic Resource Corporations Locally and Globally

Lassi Heininen, Professor, University of Lapland: A Lesson to Learn from Arctic Geopolitics – High Stability as an Asset to (Re)Formulate World Politics?

**Chair:** Matthias Finger, Professor, Ecole Polytechnique Fédérale Lausanne (EPFL):

### 17:55 – 19:25 PLANNING OUR LOW CARBON FUTURE - SHARED EXPERIENCES OF NATIONAL AND CITY SPATIAL PLANNING

Organized by the Scottish Government

**Location: Kaldalón, Ground Level**

#### 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



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Ásdís Hlökk Theodórsdóttir, Director, National Planning Agency, Iceland:  
Planning for resilience at the national level

Björn Axelsson, Director of Planning, the City of Reykjavík Council:  
Sustainable neighbourhood plans from a local perspective

Ólög Örvarsdóttir, Head of Department of Environment and Planning, City  
of Reykjavik Council: Sustainable future

**Discussion:** What are the common challenges? What needs to change?  
How can we share innovation?

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

### 17:55 – 19:25 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

**Location: Háaloft, Eighth Level**

#### PANELISTS

Gail Whiteman: Welcome and Introduction to the ICE-ARC Project

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 Institute; Fellow at Polar Research and Policy Initiative:  
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)

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### 17:55 – 19:25 THE EVOLUTION OF THE CHINA-NORDIC ARCTIC COOPERATION

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

**Location: Esja, Fifth Level**

#### 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

### 17:55 – 19:25 MARINE LITTER: NEW EVIDENCE FROM THE ARCTIC

Organized by the Dutch Ministry of Foreign Affairs

**Location: Ríma A, Ground Level**

#### SPEAKERS

Tom van Oorschot, Ambassador of the Kingdom of the Netherlands to  
Iceland: Welcome

Erik van Sebille, Associate Professor, Utrecht University: Chasing plastic:  
sources, fate and impact of marine litter in the Arctic

“Arctic Marine Litter, sources, solutions and action”

- Wouter Jan Strietman, Project Manager and Researcher,  
Wageningen University and Research
- Eelco Leemans, Founder and CEO, Leemans Maritime Consultancy

Jan Belgers, Senior Expedition Leader, Oceanwide Expeditions: A Cruise  
Company’s Take on Reducing Arctic Waste

**Chair:** Jorden Splinter, Senior Adviser on Polar Affairs, Senior Arctic  
Official Netherlands Ministry of Foreign Affairs

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### 17:55 – 19:25 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

**Location: Hafnarkot, Ground Level**

#### 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

### 17:55 – 19:25 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.

**Location: Viðey, Second Level**

#### 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

Søren Rysgaard, Aarhus University: A Short History of Marine Research

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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.

### 17:55 – 19:25 OBSERVING THE ARCTIC COUNCIL

Organized by the West Nordic Council

**Location: Ríma B, Ground Level**

cSPEAKERS:

Bryndís Haraldsdóttir, Vice-President of the West Nordic Council, and MP, Iceland: Introduction.

Eirik Sivertsen, Chair of the Standing Committee of Parliamentarians of the Arctic Region (SCPAR), and MP, Norway: Arctic Parliamentarians and the Arctic Council

Nauja Bianco, Senior Advisor at the Nordic Council of Ministers: A Pragmatic Reciprocal Approach to Being an Observer in the Arctic Council – a Nordic Case.

Allen Pope, Executive Secretary of the International Arctic Science Committee: Contributing Scientific Expertise to the Arctic Council.

Árni Þór Sigurðsson, Ambassador for Arctic Affairs, Senior Arctic Official, Iceland: How can the observers influence the work of the Arctic Council?

### 17:55 – 19:25 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*

## BREAKOUT SESSIONS 21:00-22:00

### 20:30 – 22:00 RECEPTION: SCOTLAND AND THE NEW NORTH

Organized by the Scottish Government

**Location: Skarðsheiði, Third Level**

*Announcing the Arctic Circle Forum in Edinburgh*

Hosted by Nicola Sturgeon, First Minister of Scotland

Refreshments will be served.

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

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

**Location: Esja, Fifth Level**

#### 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

“Perspectives on Greenlandic Extractive Industries”

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

Eduardo Periera, Professor of Natural Resources and Energy Law, Externado U, Colombia: Joint Operating Agreement: Risk Control for the Non-Operators within Arctic Operations

**Chair:** Anita L. Parlow, Esq., MSt. Fulbright-MFA Arctic Scholar at the University of Akureyri and National Energy Authority, Advisor, Harvard-MIT Arctic Fisheries

wine and soft drinks will be served

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

Organized by INTERACT and Lund University

**Location: Akrafjall, Fourth Level**

#### 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

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and an Introduction to the Station Card and  
"Access to the Arctic through INTERACT"

- Hannele Savela, Research Coordinator, Thule Institute, University of Oulu
- Kirsi Latola, PhD, Research Coordinator, Director of UArctic Thematic Networks, Thule Institute, University of Oulu

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

### 21:00 – 23:00 ANGRY INUK FILM SCREENING AND Q&A WITH FILM DIRECTOR ALETHEA ARNAQUQ-BARIL

Organized by the Polar Research and Policy Initiative in collaboration with the Embassy of Canada

**Location: Kaldalón, Ground Level**

#### SPEAKERS

Dwayne Ryan Menezes, Director, Polar Research and Policy Initiative

Anne-Tamara Lorre PhD, Ambassador of Canada to Iceland

T.H. Carolyn Bennett, Minister of Crown-Indigenous Relations and Northern Affairs, Canada

Alethea Arnaquq-Baril, Angry Inuk

Penny Goodman FRGS, British academic and Hon Secretary of the Arctic Club

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

*Location: Björtuloft – Harpa Fifth Level*

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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

**Location: Flói, Ground Level**

### 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

**Location: Ríma A, Ground Level**

### 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

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

**Location: Björtuloff, Fifth Level**

### SPEAKERS

## SATURDAY, OCTOBER 14

Sheila Downer, Strategic Northern Liaison, Public Engagement and Labrador Institute, Memorial University, Newfoundland and Labrador, Canada: "Thriving Communities: The Sustainable Northern and Coastal Communities Initiative"

Sveinung Eikeland, Vice Rector of University of Tromsø

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 STUDENT AND STAFF MOBILITY AS AN INSTRUMENT FOR DEVELOPING HUMAN CAPITAL IN THE NORTH

Organized by University of the Arctic

**Location: Akrafjall, Fourth Level**

#### 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: 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 Science and Higher Education, The Kingdom of 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

**Location: Skarðsheiði, Third Level**

#### SPEAKERS

Emily McKenzie, Chief Adviser – Economics and Sustainability, WWF Global Science: Screening Tools and Standards for Sustainable, Resilient Infrastructure

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



## SATURDAY, OCTOBER 14

Washington: Developing Decision Support Tools for Communities, Governments and Investors

**Discussant:** Jim Pass, Senior Managing Director, Municipal and Infrastructure Sector Manager and Portfolio Manager

**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 – 09:55 EFFECTIVE TRANSPORTATION SOLUTIONS FOR LARGE-SCALE OIL AND GAS PROJECTS IN THE ARCTIC

- Evgeny Ambrosov, Senior Executive Vice President & Chief Operating Officer of PAO "Sovcomflot"

**Chair:** Anton Vasiliev, Ambassador of Russia to Iceland

### 09:55 – 10:35 NEW OPPORTUNITIES. ARCTIC SCIENCE FROM RESEARCH TO PRACTICE: KINGDOM OF DENMARK

#### PANEL

- Karen Ellemann, Danish Minister for Fisheries and Equal Opportunities; Minister for Nordic Cooperation
- Lone Nukaaraq Møller, Deputy Minister, Ministry 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
- Fritz Köster, Professor, Technical University of Denmark
- Jens Hesselbjerg Christensen, Professor, University of Copenhagen
- Peter Bjerregaard, Professor, University of Southern Denmark

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- Anne Merrild Hansen, Head AAU Arctic, Aalborg University

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

### 10:35 – 10:45 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:** Dagfinnur Sveinbjörnsson, CEO, Arctic Circle

### 10:45 – 11:05 THE ARCTIC FUTURES INITIATIVE: A SYSTEMS ANALYSIS PERSPECTIVE ON THE PLAUSIBLE FUTURES OF THE ARCTIC

#### INTRODUCTION

- Ólafur Ragnar Grímsson, Chairman Arctic Circle

#### KEYNOTE

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

#### LAUNCH OF THE ARCTIC YEARBOOK 2017: Change & Innovation in the Arctic: Policy, Society & Environment

- 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)

**Location: Skarðsheiði, Third Level**

#### SPEAKERS

Pavel Kabat, Director General and CEO of IIASA: Welcome “Short-Lived Climate Forcers and the Arctic”

- Kaarle Kupiainen, SYKE and IIASA
- Zbigniew Klimont, Air Quality and Greenhouse Gases (AIR) Program, IIASA

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- Markus Amann, Air Quality and Greenhouse Gases (AIR) Program, IIASA

Permafrost Thawing Strongly Reduces Allowable CO2 Emissions

- Thomas Gasser, Ecosystem Services and Management (ESM) Program, IIASA
- Michael Obersteiner, Ecosystem Services and Management (ESM) Program, IIASA

Lassi Heininen, University of Lapland and IIASA: Stakeholders Contributions for Arctic Policy Shaping and Making

Timur Makhmutov, Russian International Affairs Council (RIAC): East-Asian countries - AC observers - interests to cooperate in the Arctic\*

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

### 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

**Location: Norðurljós, Second Level**

#### 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

Henri Myrtilinen, the Head of Gender, International Alert, Peacebuilding Organisation, London: Gender Champions and Feminist Foreign Policies: Bringing in Critical Masculinities Perspectives into Gender Policy in the Arctic Region

**Chair:** Gunn-Britt Retter, Head of Arctic and Environmental Unit of the Saami Council

### 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 in collaboration with University of Saskatchewan and Trent University

**Location: Silfurberg, Second Level**

#### SPEAKERS

Sturla Sigurjónsson, Permanent secretary of state, Iceland: the Opening Address

Aleqa Hammond, Former Premier of Greenland

Tony Penikett, Former Premier of Yukon

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María Mjöll Jónsdóttir, Director on UN Affairs and Gender Equality,  
Icelandic Ministry of Foreign Affairs (Iceland)

Mitchell White, Jane Glassco 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)

Dwayne Ryan Menezes, Director, Polar Research and Policy Initiative  
(UK): Closing Address

**Chair:** Dalee Sambo Dorrough, Former Chair of UN Permanent Forum on  
Indigenous Issues; Associate Professor, University of Alaska  
Fairbanks

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

Organized by the World Policy Institute, Arctic in Context Initiative

**Location: Kaldalón, Ground Level**

#### 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

Dario Schwoerer, Climatologist, explorer and climate activist: Climate  
Change - a blessing for the Arctic? The findings and conclusion of the  
17 years long Top to Top Global Climate Expedition

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

**Location: Sjávarklasinn, Grandagardur 16**

#### 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 Daniëlsdóttir 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

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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

Karen Gillis, Alaska Ocean Cluster – Alaska: Alaska Ocean Cluster

Ronny Isaksen, CEO Linken Business Garden Båtsfjord – Norway:

Establishing Ocean Cluster in Northern Norway

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

Organized by Innovation Centre Iceland (ICI)

**Location: Flói, Ground Level**

#### SPEAKERS

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

“Heating an Arctic Island With the Gulf Stream”

- Kolbrún Ragnarsdóttir, HS veitur
- Thorsteinn I. Sigfusson ICI and University of Iceland

“The Arctic Telecom project”

- Saemundur Thorsteinsson University of Iceland
- Thorsteinn I. Sigfusson ICI

“Green Basalt Fibres for use in the Industry”

- Birgir Johannesson ICI
- Thorsteinn I. Sigfusson

“The XRG Low Temperature Electricity Generator”

- Mjöll Waldorff ICI and XRG
- Thorsteinn I. Sigfusson:

Olafur Wallevik, ICI and University of Reykjavik: The Greenest Concrete in the World

“Carbfix: Capturing CO2 from air”

- Christoph Gebald, Founder and Director, Climeworks AG
- Edda Sif Aradóttir, Project Manager, The Carbfix Team, Reykjavík Energy

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

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

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

**Location: Björtuloft, Fifth Level**

#### SPEAKERS

Karl Andreassen, CEO, Istak: The Ilulissat hydropower plant planning and construction history: Implementatio of a Hydropower Plant Under Extreme Arctic Conditions

Svend Hardenberg, Director, Mannvit Greenland: Challenges of Switching

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to Local Green Energy in a Small Isolated Community: Impact of The Implementation of Hydropower For Local People and Local Industry Such as Fisheries and Tourism

Svend Hardenberg, Director, Mannvit Greenland: First-hand experience: How the Implementation of the Ilulissat Hydropower Plant Impacted the Local Community With Increased Tourism

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

**Chair:** Guðmundur Þorbjörnsson, CEO, EFLA

### 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.

**Location: Hafnarkot, Ground Level**

#### 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

Odd-Geir Lademo Research Manager at SINTEF: Industrial Partnerships and R&D portfolio to realize Offshore Geothermal Energy

**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

**Location: Háaloft, Eighth Level**

#### 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

Ögmundur Knútsson, Dean, The School of Business and Science, University

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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, President, North Atlantic Ports Association.

### 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

**Location: Ríma A, Ground Level**

#### 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 Global Issues, Coordinator of Arctic Policies, Federal Department of Foreign Affairs, Switzerland

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

Organized by Uapishka Station

**Location: Ríma B, Ground Level**

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

**Location: Viðey, Second Level**

#### 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

Ann Christin Auestad, Project Manager; Arctic Safety Centre, University Centre in Svalbard: Arctic Safety Centre Project Description

Hanne Hvidtfeldt Christiansen, Professor, Department leader; Arctic

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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

**Location: Esja, Fifth Level**

#### 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

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



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### 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

**Location: Akrafjall, Fourth Level**

#### 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

Jónína S. Þorlákssdóttir, Rif Field Station, Northeast Iceland: Learning by doing: Using experience for establishing, implementing and harmonizing freshwater monitoring efforts in the Arctic

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

Halldór Björnsson, head of the Atmospheric Research Group at the Icelandic Meteorological Office

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

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## NETWORKING LUNCH 12:20 – 13:05

*Hosted by Arctic Green Energy*

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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**

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

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

**13:45 – 14:00 LISTENING TO INDIGENOUS AND NORTHERN VOICES:**

**COLLABORATING TOWARD A SHARED ARCTIC FUTURE**

- T.H. Carolyn Bennett, Minister of Crown-Indigenous Relations and Northern Affairs, Canada

**Chair:** Ólafur Ragnar Grímsson, Chairman Arctic Circle

**14:00 – 14:50 21ST-CENTURY OCEAN AND FISHERIES SUSTAINABILITY: LEADERSHIP AND LESSONS FROM ISLAND STATES**

*Organized in Cooperation with Conservation International*

### **INTRODUCTION**

- Ólafur Ragnar Grímsson, Chairman Arctic Circle

### **KEYNOTES**

- H.E. Prime Minister Henry Puna of the Cook Islands
- H.E. Tetabo Nakara, Minister of Fisheries, Kiribati

### **PANEL**

- James Movick, Director General, Pacific Island Forum Fisheries Agency
- Cristelle Pratt, Deputy Director General, Pacific Islands Forum Secretariat
- Moses Amos, Director, Head of Fisheries, Secretariat of the Pacific Community
- Ferral Lasi, Under-Secretary Technical of Fisheries, Solomon Islands

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- Jóhann Sigurjónsson, Special Envoy on Oceans, Ministry for Foreign Affairs of Iceland; former Head of the Marine Research Institute
- Erla Ósk Pétursdóttir, Quality and Development Manager, Vísir

Keynote speakers will take part in the panel

**Chair:** Peter Seligmann, Chairman, Conservation International

### 14:50 – 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)
- Bjorn Dahlback, Director-General, Swedish Polar Research Secretariat
- Admiral Charles Michel, Vice Commandant, United States Coast Guard

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

### 15:30 – 15:40 MISSION COUNCILS: A NEW ARCTIC CIRCLE INITIATIVE

#### INTRODUCTION

- Ólafur Ragnar Grímsson, Chairman Arctic Circle

#### MISSION COUNCIL ON PORTS AND SHIPPING

- Mead Treadwell, President, Pt Capital, former Lieutenant Governor of Alaska

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### 15:40 – 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

**Location: Silfurberg A, Second Level**

#### 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

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### 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

### 16:00 – 17:30 THE BEST PHD STUDENTS OF QUÉBEC AND THE NORDICS: LIGHTNING TALKS FROM 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

**Location: Björtuloft, Fifth Level**

#### 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

Mélessande 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,

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Stockholm University, Sweden

Mariia Nesterenko, PhD student, Department of Sociology, Arkhangelsk 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

### 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

**Location: Ríma B, Ground Level**

#### SPEAKERS

Aaja Chemnitz Larsen, Member of the Danish Parliament

Aleqa Hammond, Member of the 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

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

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

**Chair:** The Arctic Working Group of the Danish Parliament

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

Organized by Ukpeaġvik Iñupiat Corporation (UIC)

**Location: Skarðsheiði, Third Level**

#### 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

Alice Rogoff, Arctic Now, Founder: Importance of Community-Based Development

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“Constructive Collaborations Between Indigenous Peoples and the Researchers”

- Nagruk Harcharek, UIC Science, General Manager
- Harry K. Brower Jr., North Slope Borough Mayor

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

### 16:00 – 17:30 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.

**Location: Háaloft, Eighth Level**

#### ROUNDTABLE DISCUSSIONS

Bradley Barr, University of New Hampshire, Affiliate Professor, Fulbright-NSF Arctic Research Scholar at the Stefánsson Arctic Institute: Preserving Whaling Heritage in Iceland

John Bodinger, Chair, Department of Sociology & 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, 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

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### Iceland

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

### ADDITIONAL SPEAKERS

Mike Sfraga, Co-Lead Scholar, Fulbright Arctic Initiative, Belinda Theriault, Executive Director, Fulbright Commission Iceland

Michael Hawes, Chief Executive Officer, Fulbright Canada: An Overview of Fulbright Opportunities in the Arctic.

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

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

Organized by Troms County Council, Norway

**Location: Akrafjall, Fourth Level**

### THE FIRST PANEL

Marina Krasilnikova, Living Standards Research Director, Analytical Center of Yuri Levada (Levada-Center, Moscow, Russia)

Kjell Dragnes, Former Foreign Editor of Aftenposten, Norway

### THE SECOND PANEL

Willy Ørnebakk, Chair of the Troms County Government.

Andrey Shalyov, Director, Russian office of the Norwegian Barents Secretariat Honorary consul of Norway in Arkhangelsk

### THE THIRD PANEL

Kristin Røymo, The Mayor of the City of Tromsø,

Anne Husebakk, Rector UiT, Tromsø University

Maria Utsi, Director of Arctic Arts Festival and Co-Founder of Arctic Arts Summit

Knut-Eirik Dybdal, CEO, Arctic Race of Norway

### **Chair:**

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

**Location: Kaldalón, Ground Level**

### SPEAKERS

## SATURDAY, OCTOBER 14

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

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

### 16:00 – 17:30 POLAR LAW: ALASKA

Organized by University of Akureyri

**Location: Viðey, Second Level**

#### SPEAKERS

Charles Norchi, Professor of Law, Director, Center for Oceans and Coastal Law, University of Maine School of Law & Fulbright-Ministry for Foreign Affairs Arctic Scholar: The Extended Continental Shelf of the American Arctic: Lex Imperfecta?

Demian Schane, Attorney-Advisor, National Oceanic & Atmospheric 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

**Chair:** 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

**Location: Norðurljós, Second Level**

#### 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



## SATURDAY, OCTOBER 14

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

### 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

**Location: Esja, Fifth Level**

#### SPEAKERS

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

Sonya Kelliher Combs, artist, Alaska, USA

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 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

**Location: Þjóðmenningarhúsið, Hverfisgata 15**

Opening Remarks by His ALL-Holiness Ecumenical Orthodox Patriarch Bartholomew I

#### PANAL

Anders Wejryd, Archbishop Emeritus of the Church of Sweden, European President of the World Council of Churches

Clarisse Kehler Siebert, International lawyer and research fellow at the Stockholm Environment Institute

Rev. Rodney Petersen, PhD, Executive Director of Cooperative Metropolitan Ministries and Visiting Researcher, Boston University School of Theology

Halldór Björnsson, the Group leader of Weather and Climate Research, Icelandic Met. Office

**Chair:** Ögmundur Jónasson, Former Minister of Health and Interior, Iceland

### 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

**Location: Hafnarkot, Ground Level**

#### SPEAKERS

## SATURDAY, OCTOBER 14

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

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

Andy Kerr, Executive Director, Edinburgh Centre for Carbon Innovation (ECCI), University of Edinburgh: Shared lessons for the Arctic from developing vibrant low carbon communities and regions

**Chair:** 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)

**Location: Ríma A, Ground Level**

#### KEYNOTES

Yuriy Kostin, Deputy Head of Federal Agency for Maritime and River Transportation, Russian Federation: Russian perspective

Sampo Viheriälä, Master Mariner, Chartering Manager, Arctia Ltd.: Practitioner's perspective

#### INTRODUCTION

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, Director, Ecosystems Services and Management (ESM) Program, IIASA

#### SPEAKERS

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 University of Cambridge: Long-term projections for the NSR trade: economic

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gains vs losses due to the route's net climatic feedback  
Natsuhiko Otsuka, Professor, Arctic Research Center, Hokkaido University:

Possibility and issues of liner shipping via the Northern Sea Route  
"The Arctic University of Norway: China-Arctic Maritime and Energy  
Systems in the Making: Functional Regionalisation in the High North"

- Liisa Kauppila, PhD Candidate, University of Turku
- Rasmus Gjedssø Bertelsen, Professor, University of Tromsø

**Chair:** Ambassador Hannu Halinen, IIASA

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

Organized by the Korea Arctic Research Consortium (KoARC)

**Location: Flói, Ground Level**

#### SPEAKERS

Hyoung 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 ARCTIC SEALING: THREAT OR BLUE PROSPECT?

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

**Location: Þjóðmenningarhúsið, Hverfisgata 15**

#### SPEAKERS

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: Importance of sealing for Arctic communities

David Lee, Department of Wildlife and Environment, Nunavut Tunngavik Inc.: Expectations of the Nunavut Agreement in Sustaining Wildlife

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Populations.

Gert Polet, Head of Forests & Wildlife Unit, WWF: Perception and reality: threats to ice seals in a changing Arctic.

### PANEL

Adamie Alaku, Vice President-Resource Development, Makivik Corporation, Quebec, Canada

Aaja Chemnitz Larsen, Member of the Danish Parliament, Greenland

Alethea Arnaquq-Baril, Producer of Angry Inuk, Canada

Dwayne Ryan Menezes, Director, Polar Research and Policy Initiative (PRPI); UK

Eggert Jóhannsson, Furrier, Iceland

Geir Oddsson, Senior Adviser, Nordic Council of Ministers

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

### 17:30 – 19:00 A WORLD WITHOUT ICE – GEOPOLITICAL IMAGINATION OR A VISION FOR THE FUTURE?

Organized by Northern Research Forum (NRF) and University of Akureyri

**Location: Ríma B, Ground Level**

#### SPEAKERS

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

Violetta Gassiy, postdoc fellow, IASC, Kuban State University: Resilient Arctic communities: is there a life during natural resources extraction?

Suzanne Dunn, University of Ottawa: Digital Access in The North: Rights, Risks, and Opportunities for Young People\*

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

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

Organized by the Ministry of Foreign Affairs of Japan

**Location: Silfurberg B, Second Level**

#### SPEAKERS

Keiji Ide Ambassador in Charge of Arctic Affairs Ministry of Foreign Affairs(MOFA): Welcome address

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

Fukasawa, PhD., Project Director of ArCS, Investigator of ArCS, guest

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performer, MOFA, MEXT

Daisuke Doi Deputy Director of Ministry of Education, Culture, Sports and Technology(MEXT)

### PANELISTS

Larry Hinzman; Vice Chancellor for Research, University of Alaska Fairbanks

Jeremy P. Wilkinson; Senior scientist British Antarctic Survey

### 17:30 – 19:00 ARCTIC CLIMATE PREDICTIONS: PATHWAYS TO RESILIENT, SUSTAINABLE SOCIETIES (ARCPATH)

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

**Location: Ríma A, Ground Level**

### SPEAKERS

Astrid Ogilvie, Senior Scientist, Stefansson Arctic Institute and INSTAAR: Introduction to the ARCPATH and GREENICE Projects: Arctic Climate and Environmental Change and Human Eco-Dynamics.

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

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

Marianne Rasmussen, Director, the University of Iceland's Research Centre in Húsavík: Climate, Cetaceans and Tourism and Anthropogenic Noise

Leslie King, Professor and Director, Canadian Centre for Environmental Education, Royal Roads University: Interdisciplinary Projects: The Challenge of Synthesis.

Elizabeth Ogilvie, University of Edinburgh/Edinburgh College of Art: Out of Ice: Sea Ice and Northern Communities

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

### 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

**Location: Viðey, Second Level**

### SPEAKERS:

Joan Nymand Larsen, Professor of Economics and Arctic Studies, University of Akureyri, and Senior Scientist, Stefansson Arctic Institute, Akureyri, Iceland: Arctic Youth and Sustainable Futures: An Overview and Highlights from the Nordic Countries and Greenland.

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: Arctic Youth and

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the Case of Alaska and Greenland

Klaus Georg Hansen, Acting Head of Department, Ministry of Finance,  
Government of Greenland: Arctic youth and demographic  
sustainability in Greenland

Jón Haukur Ingimundarson, Senior Scientist, Stefansson Arctic Institute,  
and Associate Professor of Anthropology and Arctic Studies,  
University of Akureyri: Icelandic Youth and Sustainable Futures

Leneisja Jungsborg, Research Fellow, Nordregio, Sweden: Spatial  
disparities in education and employment outcomes and Arctic youth  
future perspectives.

Timothy Heleniak, Senior Research Fellow, Nordregio, Sweden:  
Newcomers to the North: International Migration of Youth into the  
Arctic

### CHAIRS:

Joan Nymand 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

**Location: Esja, Fifth Level**

### 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:** 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)

**Location: Skarðsheiði, Third Level**

#### 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

Noor Johnson, Research Scientist, National Snow and Ice Data Center, University of Colorado Boulder & The Fletcher School, Tufts University: Community-based monitoring and Indigenous knowledge as/in Arctic observing systems

#### PANEL:

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

**Location: Háaloft, Eighth Level**

#### SPEAKERS

Karmenu Vella, Commissioner for Maritime Affairs and Fisheries, European Commission: (opening address via video message)

Margareta Johansson, Coordinator INTERACT: Sustained transnational access to Arctic Terrestrial Infrastructures.

Martin Jeffries, Assistant Director for Polar Sciences & Executive Director,

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U.S. 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.

Hyoung 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 Institut nordique du Québec (INQ), and Québec Government

**Location: Kaldalón, Ground Level**

#### 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 Thérout, Assistant Deputy Minister, Ministère des Relations Internationales et de la Francophonie, Québec

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

**Chair:** Jean Lemire, Envoy for Climate change, Northern and Arctic Affairs

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

Organized by the International Arctic Science Committee (IASC)

**Location: Silfurberg A, Second Level**

#### 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, former 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

**Location: Björtuloft, Fifth Level**

#### SPEAKERS:

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

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

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

**Location: Akrafjall, Fourth Level**

#### INTRODUCTION

Ambassador David A. Balton, Deputy Assistant Secretary for Oceans and Fisheries, US Department of State, former Chair of Arctic Council Senior Arctic Officials (2015-17)

#### 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

Petr Havlík, Senior Research Scholar, IIASA: An Integrated Economic Model of Global Fisheries, Aquaculture, and Agriculture

**Chair:** Eyjólfur Guðmundsson, Rector, University of Akureyri, Iceland

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

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

**Location: Hafnarkot, Ground Level**

#### SPEAKERS

Hans-Christen Hansson, Professor, Stockholm University: Modeling the Effect of Air Quality Regulation on the Arctic Climate

Eyal Freud, Postdoctoral researcher, Stockholm University: Pan Arctic Study of Aerosol Properties and Sources

Antti Lauri, Research Director, University of Helsinki: Climate Whirl at High Latitudes: Combining Natural and Social Sciences in Higher Education and Science Outreach

Josefin Ahlkrona, Postdoctoral researcher, University of Kiel/Cluster of Excellence "The Future Ocean": The Impact of Ice Sheet Melting on the Ocean – Reducing Uncertainty in Predictions of Future Sea-Level Rise and Ocean Circulation by Improving Computer Models

Guðfinna Aðalgeirsdóttir, Professor, University of Iceland: Interaction of the Greenland Ice Sheet with the Climate System in Warm Scenarios as Simulated in the Coupled Model System EC-Earth–PISM

**Chair:** Helmut Neukirchen, Professor, University of Iceland

## RECEPTION 19:00 – 20:00

### JAPAN NIGHT

Location: Norðurljós, Harpa Second Level  
Hosted by Japan's Ministry of Foreign Affairs

#### WELCOME

- Yasuhiko Kitagawa, Ambassador of Japan to Iceland
- Ólafur Ragnar Grímsson, Chairman Arctic Circle
- Keiji Ide, Ambassador in charge of Arctic Affairs, Ministry of Foreign Affairs of Japan

#### PERFORMANCE

- *Shamisen: Hibiki Ichikawa*
  - *Enka singer: Akari Mochizuki*
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## 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 and the Konrad-Adenauer-Stiftung

**Location: Esja, Fifth Level**

#### 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

#### PANEL

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

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### 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.

**Location: Akrafjall, Fourth Level**

#### SPEAKERS

Ágúst Hjörtur Ingbórsson, 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

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

*Light refreshments will be served.*

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

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

**Location: Kaldalón, Ground Level**

#### 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

Chair: Piotr Głowacki, Associate Professor, Institute of Geophysics, Polish Academy of Sciences, Warsaw

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

*Location: Björtuloft – Harpa Fifth Level*

**SUNDAY, OCTOBER 15**

## **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

**Location: Esja, Fifth Level**

#### **SPEAKERS**

Nils Andersson, Director Institute of the North, Alaska, USA

Dan Lewis, Nairobi, Chief Risk Reduction Unit UN Habitat

Grete Ellingsen, State Secretary to the Minister of Local Government and Modernisation, Norway

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

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

Organized by: Climate-KIC Aps

**Location: Akrafjall, Fourth Level**

#### **SPEAKERS:**

Mark Payne, Senior Researcher, Danish Technical University: Introduction to Climate-Services: The Opportunities and the Benefits

Mads Randbøll Wolff, Project Manager Nordic Ministry Council for the Nordic Pavilion at COP23: Arctic SME's and Achieving Climate Resilience

Øivin Aarnes, DNV GL: Climate-Services and Their Role in Long-Term Business Strategy

#### **PANEL:**

Peter Vangsbo, Nordic Business Developer Climate-KIC: Facilitating Greater Innovation Within Climate Services and Climate-Resilience, Breaking Down Knowledge Silos

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**Chair:** Solveig Zophoniasdottir, Climate KIC

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

Organized by Danish Meteorological Institute

**Location:** Björtuloft, Fifth Level

#### SPEAKERS

Pia Englyst: Researcher at the Danish Meteorological Institute: Sea ice in a changing Arctic climate

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

**Location:** Skarðsheiði, Third Level

#### SPEAKERS

Julie Decker, Director of the Anchorage Museum, Alaska

Graham Hogg, Lateral North, Scotland

## PLENARY SESSIONS 9:00 – 12:00

### 09:00 – 09:30 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

**Chair:** Dagfinnur Sveinbjörnsson, CEO, Arctic Circle

### 09:30– 10:15 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

## SUNDAY, OCTOBER 15

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

### 10:15 – 11:00 NORTH MEETS SOUTH: INDIGENOUS ARCTIC-GLOBAL DIALOGUE

*Traditional knowledge in climate change policies and action*

*Organized in collaboration with Conservation International*

#### OPENING

- Minnie Degawan, Director of the Indigenous and Traditional Peoples Program of CI

#### PANEL

- Hindou Ibrahim, Coordinator, International Indigenous Peoples' Forum on Climate Change
- Henry Puna, Prime Minister, Cook Islands

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

### 11:00 – 11:35 BIODIVERSITY – OCEANS – FOOD

#### SPEAKERS

- Tom Barry, Executive Secretary, Conservation of Arctic Flora and Fauna (CAFF) Working Group of the Arctic Council
- Manuel Barange, Director, Fisheries and Aquaculture Policy and Resources Division, Food and Agriculture Organisation of the United Nations (FAO)

### 11:35 – 12:05 THE OPENING OF THE ARCTIC OCEAN

#### PANEL

- David Balton, Deputy Assistant Secretary for Oceans and Fisheries, United States Department of State
- Vyacheslav Zilanov, former Vice-Governor of Murmansk Oblast

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

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## NETWORKING LUNCH 12:05 – 12:45

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## BREAKOUT SESSIONS 12:45 – 13:45

## SUNDAY, OCTOBER 15

### 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  
**Location: Björtuloft, Fifth Level**

#### SPEAKERS

Lassi Heininen, Professor, University of Lapland: Environmental Impacts and Risks of the Military, in Peacetime – an Overview

Anatoly Shevchuk, Deputy Chairman of the SOPS VAVT under the Ministry of Economic Development, Professor of RANEPa, Academician of REA: Evaluation and Elimination of Accumulated Ecological Damage in the Russian Arctic Zone

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

**Chair:** 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

**Location: Ríma B, Ground Level**

#### 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, Scotland

**Location: Flói, Ground Level**

#### 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



## SUNDAY, OCTOBER 15

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

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

Organized by: Navigo

**Location: Esja, Fifth Level**

#### 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: A Community Solutions Framework.

Albertína Friðbjörg Elíasdóttir, Managing Director at EIMUR will replace Guðmundur.

**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

**Location: Kaldalón, Ground Level**

#### SPEAKERS

Phil Anderson - Head of Marine Technology, Scottish Association for Marine Science, United Kingdom: Blowin' in the Wind: Answering Questions on How Weather Interacts with Sea-Ice and Ocean by Combining Sub-Surface and Airborne Marine Robotics

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: Programme Manager, EKOE, Centre for Maritime Research and Experimentation, Italy: 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

## SUNDAY, OCTOBER 15

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

Organized by the Institute of Geophysics, Polish Academy of Sciences

**Location: Ríma A, Ground Level**

#### 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 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

Piotr Stankiewicz, Educational methodological expert 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

**Location: Skarðsheiði, Third Level**

#### SPEAKERS

Tero Vauraste, Chair, Arctic Economic Council; President & CEO, Arctia  
Ltd.

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

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, Wilkinson Eyre Head; Built Environment Unit,  
Polar Research and Policy Initiative: Architecture and Infrastructure

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

Nic Craig, Fellow, Energy Unit, Polar Research and Policy Initiative;  
University of Copenhagen: Energy

Danielle Turkov, Director, Think-Film Impact Production; EU Representative,  
Polar Research and Policy Initiative: Arts and Culture

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

## SUNDAY, OCTOBER 15

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

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

**Location: Akrafjall, Fourth Level**

#### 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, Executive Secretary, CNARC and Visiting Scholar,  
PRIC: An Ice Silk Road from China to the Nordics

Mingming Shi, Project manager: China's Economic Diplomacy in  
Greenland: an Issue for Denmark?

Chip Comins, Chairman & CEO AREI, American Renewable Energy  
Institute, Founder AREDAY: Building a Green Bridge with China:  
Bridging the Divide

**Chair:** Pia Hansson, Director, Institute of International Affairs, University  
of Iceland

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

Organized by the International Arctic Science Committee (IASC)

**Location: Norðurljós, Second Level**

#### 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

## SUNDAY, OCTOBER 15

University of Alaska Fairbanks

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13:45 – 14:00 COFFEE BREAK

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### PLENARY SESSIONS 14:00 – 15:35

14:00 – 14:30 ARCTIC ERUPTION: POLAR AVIATION AND VOLCANIC ASH

- Vilhjálmur Arnasson, Captain and Director of Safety, Icelandair
- Ásgeir Pálsson, Director of Air Navigation Services, Isavia
- Ingvar Kristinsson, Managing Director, Icelandic Met Office

**Chair:** Árni Guðbrandsson, Senior ATM Expert, Isavia

14:30 – 15:10 DEVELOPING A SOCIETY UNDER EXTREME WEATHER CONDITIONS

*The Icelandic examples*

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

15:10 – 15:25 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.

**Chair:** Herbert Ludwig Beck, Ambassador of Germany to Iceland

15:25 – 15:35 HUNTING THE NORTHERN CHARACTER

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

**Chair:** Ólafur Ragnar Grímsson, Chairman Arctic Circle