



# **PROGRAM**

**2018 ARCTIC CIRCLE ASSEMBLY**

**OCTOBER 19-21**

**INCLUDES PRE-EVENTS AND POST-EVENT**

# WEDNESDAY, OCTOBER 17

## PRE-EVENT

13:00 – 16:00 THE NORTHERN VANTAGE POINT: ARCTIC CHANGES  
CURRENT & FUTURE OUTLOOKS

Organized by the Northern Research Forum

Location: University of Akureyri

*Open to all Assembly participants*

### SPEAKERS

- Harald Steen, Leader for Ice, Climate and Ecosystems (ICE), Norwegian Polar Institute: *Consequences of Arctic Sea Ice Loss*
- Auður Ingólfssdóttir, Researcher, the Icelandic Tourism Research Centre (ITRC): *Climate Change and Tourism*
- Hreiðar Þór Valtýsson, Assistant Professor, University of Akureyri: *Changes in Fish Distribution and Climate Change in the North Atlantic*
- Amy Wiita, Subsistence Resource Specialist, Alaska Department of Fish & Game; Senior Interdisciplinary Research Scientist, Cinza Research LLC: *Small Communities and Subsistence Resources*
- Jón Haukur Ingimundarson, Senior Scientist, Stefansson Arctic Institute; Associate Professor of Anthropology and Arctic Studies, University of Akureyri: *Arctic Youth and Sustainable Futures*
- Gunhild Hoogensen Gjør, Nansen Professor 2017-2018, University of Akureyri, Iceland; Professor, Critical Peace and Conflict Studies, Centre for Peace Studies, UiT – The Arctic University of Norway: *Tensions Between Energy, Economic, and Environmental Security*

### Musical Performance

- Byron Nicholai, U.S. State Department Arts Envoy musician; former Arctic Youth Ambassador from the Yup'ik community in Alaska

*Presented by the Embassy of the United States of America*

### ROUNDTABLE

- Bård Ivar Svendsen, Ambassador, Senior Arctic Official, Norway
- Eiríkur Björn Björgvinsson, Former Mayor of Akureyri
- Gunhild Hoogensen Gjør, Nansen Professor, University of Akureyri
- Larry Hinzman, President, International Arctic Science Committee; Vice Chancellor for Research, University of Alaska Fairbanks
- Joan Nymand Larsen, Professor of Economics and Arctic Studies, University of Akureyri; Senior Scientist, Stefansson Arctic Institute
- Rachael Lorna Johnstone, Professor, University of Akureyri

*Reception hosted by the Norwegian Embassy*

*Opening of the Norwegian Polar Institute exhibition "On Thin Ice"*

# THURSDAY, OCTOBER 18

## REGISTRATION 13:00 – 18:00

Location: Harpa

## PRE-EVENTS

### 12:00 – 15:00 ARCTIC CIRCLE ADVISORY BOARD MEETING

*By invitation only*

### 13:30 – 16:30 ARCTIC BUSINESS SUMMIT

Organized by the Arctic Economic Council

Location: SA Confederation of Icelandic Enterprise

*By invitation only*

### 17:00 – 18:30 HEIMABLÍÐNI: A FOOD EVENT

Organized by the North Atlantic Food and Tourism Network

Location: Representation of the Faroe Islands in Reykjavík, Túngata 14

*By invitation only*

## WELCOME RECEPTION 18:30 – 19:30

### Hosted by Icelandair Group

Open to all Assembly participants

Location: Reykjavík Art Museum – Harbor House (Hafnarhúsið)

Performance: Byron Nicholai, U.S. State Department Arts Envoy; former Arctic Youth Ambassador

# EXHIBITIONS DURING ASSEMBLY DAYS

## CERNY INUIT COLLECTION

Location: Sky Staircase, Harpa Second to Fourth Level

*Organized by the Museum Cerny Inuit Collection*

*With the support of the Canadian Government*

Friday, 17:00

Exhibition Opening by Alison LeClaire, Senior Arctic Official and Director General, Arctic, Eurasian and European Affairs, Canada

## ICEBERG!

Location: Outside Harpa Main Entrance

*Organized by Sermersooq Municipality, Greenland*

## ARCTIC TRUCKS: EFFICIENT AND SAFE TRANSPORT IN THE ARCTIC

Location: Outside Harpa Main Entrance

*Organized by Arctic Trucks*

## FROM THE HIGHEST GLACIER TO THE DEEPEST WELL

*Research in the Land of Renewable Energy*

Location: Norðurbryggja, Harpa Ground Level

*Organized by Landsvirkjun, the National Power Company of Iceland*

## RAX - GLACIER: A PHOTOGRAPHY EXHIBITION

Location: Ásmundarsalur, Freyjugata 41, Reykjavík

## ARCTIC COAST GUARD FORUM

Location: Norðurbryggja, Harpa Ground Level

*Organized by The Icelandic Coast Guard*

## ARCTIC FILM SERIES

Open to all Assembly participants

Location: Kaldalón, Harpa Ground Level

FRIDAY, OCTOBER 19, 20:00 – 21:30

THE ARCTIC: THE DRIFT OF TRADITIONS

Organized by The Québec Government (Ministry of International Relations and of La Francophonie)

Q&A with Director Jean Lemire, Envoy for Climate Change, Northern and Arctic Affairs, Québec, Canada

SATURDAY, OCTOBER 20, 21:00 – 22:30

INTO THE ARCTIC: EXPERIENCE THE NORTH LIKE NEVER BEFORE

Organized by the Embassy of Canada to Iceland and Campside Productions

Q&A with Director Cory Trepanier, Canada

SUNDAY, OCTOBER 21, 16:00 – 17:30

THE SUPERPOWERS OF THE BEAR

PRE-RELEASE SCREENING

Organized by Ministry of Foreign Affairs of France

Q&A with Dr. Etienne Lefai, Research Scientist at the French National Institute for Agricultural Research (INRA)

# FRIDAY, OCTOBER 19

## REGISTRATION 07:30 – 17:00

Location: Harpa

## PLENARY SESSION 08:30 – 11:00

Location: Silfurberg Hall, Harpa Second Level

### 08:30 – 11:00 OPENING SESSION

#### I. WELCOME

- H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle, President of Iceland 1996-2016

#### II. SPEECHES

- H.E. Katrín Jakobsdóttir, Prime Minister of Iceland
- H.E. Taro Kono, Minister of Foreign Affairs of Japan

#### III. DIALOGUES

##### THE UNITED STATES

- Lisa Murkowski, United States Senator

##### RUSSIA

- Sergey Kislyak, Senator in the Russian Federation Council, former Ambassador of Russia to the United States

##### THE EUROPEAN UNION

- Karmenu Vella, European Commissioner for Maritime Affairs and Fisheries

##### CHINA

- Fu Chengyu, former Chairman of SINOPEC Corporation; Member of the United Nations Global Compact Board

#### IV. STATEMENTS

- H.E. Poul Michelsen, Minister of Foreign Affairs and Trade of the Faroe Islands
- H.E. Sam Tan Chin Siong, Minister of State, Prime Minister's Office of Singapore

#### CHAIRS

- Frederik Paulsen, Founding Member, Swiss Polar Institute, Lausanne
- Alice Rogoff, Publisher, Arctic Today

---

### 11:00 – 11:15 COFFEE BREAK

---

FRIDAY, OCTOBER 19

## BREAKOUT SESSIONS 11:15-12:15

### 11:15 – 12:15 INNOVATIVE MANAGEMENT FOR SEA ICE VALUES: INTEGRATED, INTERNATIONAL, INDIGENOUS

Organized by WWF Canada

Location: Esja, Harpa Fifth Level

#### SPEAKERS

- Paul Crowley, Vice-president, Arctic, World Wildlife Fund Canada
- Kuupik Vandersee Kleist, Commissioner, Pikialasorsuaq Commission
- Alison Leclaire, Senior Arctic Official, Global Affairs Canada

Chair: Martine Giangioppi, Senior Specialist, Arctic Marine Conservation, WWF Canada

### 11:15 – 12:15 URBANIZATION IN THE ARCTIC – CHALLENGES AND OPPORTUNITIES FOR GROWING COMMUNITIES

Organized by the Municipality of Sermersooq, Greenland

Location: Ríma B, Harpa Ground Level

#### SPEAKERS

- Asii Chemnitz Narup, Mayor of Sermersooq: *Urbanization in the Arctic – City of Nuuk*
- Annika Olsen, Mayor of Torshavn: *Urbanization in the Arctic – City of Torshavn*
- Kristin Røymo, Mayor of Tromsø: *Urbanization in the Arctic – City of Tromsø*
- Madeleine Redfern, Mayor of Iqaluit: *Urbanization in the Arctic with Iqaluit as a Case Study*
- Verena Huppert, Ph.D. fellow: *Human Capital in the Light of Urbanization – Challenges and Solutions across the Arctic*

### 11:15 – 12:15 FROM POLAR BEARS TO PEOPLE: GETTING THE ARCTIC CLIMATE CHANGE STORY RIGHT

Organized by the Harvard Kennedy School Arctic Initiative and Arctic Today

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Elizabeth Arnold, Associate Professor, University of Alaska; former U.S. National Public Radio (NPR) correspondent; Producer, Arctic Profiles: *Combating Arctic Climate Change Fatigue by Bringing Indigenous People and Resilience into the Story*
- Alice Rogoff, Publisher and Editorial Director, Arctic Today: *Improving Global Reporting about Human Climate Change Impacts throughout the Warming Arctic*
- Thomas Nilsen, Editor, Independent Barents Observer: *Covering Complex Euro-Russian Arctic Challenges—From Energy to National Security*

## FRIDAY, OCTOBER 19

Chair: Cristine Russell, Science Journalist; Harvard Kennedy School Senior Fellow, Environment & Natural Resources Program

### 11:15 – 12:15 HIGH NORTH SERIES: BUSINESS IN THE ARCTIC

Organized by the High North Center, Nord University Business School; The Arctic Institute; Institute of the North  
Location: Háaloft, Harpa Eighth Level

#### PANEL

- Erlend Bullvåg, Dean, Nord University Business School: *Business Index North: Potential for Arctic Growth*
- Timur Makhmutov, Deputy Director of Programs, Russian International Affairs Council
- Sherry Campbell, President and CEO of The Gordon Foundation: *Northern Policy Hackathon: Developing Policy Recommendations to Support Small and Medium Sized Enterprises*
- Natalia Andreassen, High North Center, Nord University Business School: *Emergency Response to a Growing Maritime Sector*

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

### 11:15 – 12:15 SOLVING THE ARCTIC ENERGY CHALLENGE: EXAMPLES FOR GREEN TRANSITION AT SVALBARD AND THE FAROE ISLANDS

Organized by Nordic Energy Research  
Location: Norðurljós, Harpa Second Level

#### SPEAKERS

- Kevin Johnsen, Nordic Energy Research: *Welcome and Introduction to the Arctic Energy Situation*
- Hans-Kristian Ringkjøb, PhD Candidate, University of Bergen: *The Future Energy System in Longyearbyen*
- Morten Hørmann, Consultant, COWI A/S, responsible for the pilot project at the Faroe Islands: *Heat Supply in Leirvík – A Case Study*

### 11:15 – 12:15 ARCTIC FISHERIES AND THE CIRCULAR ECONOMY

Organized by the Fletcher School of Law and Diplomacy at Tufts University; National Taiwan Ocean University  
Location: Flói, Harpa Ground Level

#### SPEAKERS

- Rockford Weitz, Director of Maritime Studies, Fletcher School (Tufts University): *Fisheries and Innovation*
- Luis Alberto Villegas, Former Deputy Manager for Regions, Fondo Adaptación, Colombia: *Lessons from Colombia for Arctic Fisheries*
- *Using Cutting-Edge Technology to Utilize New Species in the Arctic*
  - Vilhjálmur Jens Árnason, Project Manager, Iceland Ocean Cluster
  - Davíð Freyr Jónsson



## FRIDAY, OCTOBER 19

- Matthew Merighi, CEO, Blue Water Metrics: *The Role of Ocean Youth and Entrepreneurship*

**Chair:** Rockford Weitz, Professor, Fletcher School of Law and Diplomacy at Tufts University

### 11:15 – 12:15 CLIMATE CHANGE IMPACTS, FRESH WATER & ETHICS

Organized by the Icelandic Arctic Cooperation Network; the Icelandic Meteorological Office; the Marine and Freshwater Institute; University of Akureyri; and Rif Research Station

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- Halldór Björnsson, Head of the Atmospheric Research Group, Icelandic Meteorological Office: *Emerging Signs of Climate Change in the Hydrology of Iceland*
- Brynhildur Davíðsdóttir, Professor, Environment and Natural Resources, University of Iceland: *The Impact of Climate Change on Infrastructure and Fresh Water Resources*
- Jón Ólafsson, Senior Scientist, Marine and Freshwater Research Institute: *Climate-Induced and Anthropogenic Drivers of Biodiversity in Icelandic Freshwaters*
- Hrönn G. Guðmundsdóttir, Director, Rif Field Station: *Freshwater Monitoring at the Edge of the Arctic: The Case of Rif Field Station, NE-Iceland*
- Skúli Skúlason Professor, Hólar University College: *The Impacts of Climate Change on Arctic Freshwaters Highlight Serious Ethical Concerns*

**Chair:** Allen Pope, Executive Secretary, International Arctic Science Committee

### 11:15 – 12:15 SHIPPING & BUSINESS IN AN INTERCONNECTED NORTH

Organized by the Arctic Working Group in the Danish Parliament

Location: Silfurberg A, Harpa Second Level

#### SPEAKERS

- Jacob Nitter Sørensen, CEO, Air Greenland
- Esther Dahl, Adviser, Faroese House of Industry
- Rúni M. Hansen, Chairman of the Board, Bakkafrost
- Bogi P. Nielsen, CEO, Faroe Ship

#### PANEL

- Magni Arge, Member of the Danish Parliament and former CEO of Atlantic Airways
- Aaja Chemnitz Larsen, Member of the Danish Parliament
- Aleqa Hammond, Member of the Danish Parliament

## FRIDAY, OCTOBER 19

**Chair:** Sjúrdur Skaale, Member of the Danish Parliament; Chairman of the Arctic Working Group in the Danish Parliament

### 11:15 – 12:15 INSPIRING ARCTIC VOICES THROUGH YOUTH: ENGAGING YOUTH IN ARCTIC BIODIVERSITY

Organized by the Conservation of Arctic Flora and Fauna (CAFF) Working Group of the Arctic Council; Youth Environmentalist Association of Iceland

Location: Viðey, Harpa Second Level

#### SPEAKERS

- Kári Fannar Lárusson, Programme Manager, CAFF
- Pétur Halldórsson Young Icelandic Environmentalists
- Eeva-Maija Kakko, WWF Finland
- Rafn Helgason, Young Icelandic Environmentalists
- Anna Lovísa Daníelsdóttir, Young Icelandic Environmentalists
- Alma Stefánsdóttir, Young Icelandic Environmentalists

**Chair:** Tom Barry, Executive Secretary, Conservation of Arctic Flora and Fauna (CAFF) Working Group of the Arctic Council

### 11:15 – 12:15 ROADMAP TO THE OPTIMIZATION OF ARCTIC ENVIRONMENTAL MONITORING AND MODELLING PROGRAMS AND NETWORKS

Organized by EU-PolarNet and SAON CON

Location: Ríma A, Harpa Ground Level

#### INTRODUCTION

- Nicole Biebow, Project Manager, EU-PolarNet; Head of International Cooperation Unit, Alfred Wegener Institute (AWI)

#### SPEAKERS

- Jan Rene Larsen, Deputy Executive Secretary, Arctic Monitoring and Assessment Programme (AMAP) Working Group of the Arctic Council: *Inventory of the Existing Arctic Monitoring and Modelling Programmes, Gap Analysis, and a Roadmap Towards Future Optimization*
- Sandy Starkweather, Executive Director, US Arctic Observing Network, NOAA-CIRES: *Optimization of Arctic Environmental Monitoring and Modelling Programs – Trans-Atlantic Approach*
- Annette Scheepstra, Coordinator, Arctic Centre, University of Groningen: *Inclusion of Community-Based Observations and Indigenous Knowledge into the Monitoring and Observation Schemes*

**Chair:** Hannele Savela, Research Coordinator, Thule Institute, University of Oulu

## FRIDAY, OCTOBER 19

### 11:15 – 12:15 CLIMATE CHANGE IMPACTS ON LIVELIHOODS, HEALTH, AND ECONOMIC DEVELOPMENT IN THE NORTH

Organized by the Labrador Institute and the Faculty of Humanities and Social Sciences at Memorial University, Canada

Location: Akrafjall, Harpa Fourth Level

#### SPEAKERS

- Anna K. Kukkonen, PhD Candidate, University of Helsinki, Finland: *The Power of Moral Justifications: Actors and Orders of Worth in Media Debates on Arctic Climate Change in Finland and Canada*
- Julie Uldam, Associate Professor, Roskilde University, Denmark: *Digital Media and Relations Between Business and Environmental Social Movements: Oil Exploration in the Arctic*
- Brigit Dale, Senior Researcher, Nordland Research Institute, Norway: *Petroleum as a Challenge to Arctic Societies: Findings, Conclusions and Suggestions for Further Research Based on the ARCTICCHALLENGE Project*
- Mark CJ Stoddart, Associate Professor, Memorial University, Canada: *Climate Change and Contact Points Between Offshore Oil and Nature-Based Tourism in Northern Coastal Societies*

### 11:15 – 12:15 THE INTERPLAY BETWEEN SCIENCE, POLITICS AND BUSINESS – EXPERIENCES AND LEARNED LESSONS HOW TO DEVELOP NEW ARCTIC STANDARDS, PROTOCOLS, SERVICES & TECHNOLOGIES

Organized by the Arctic Futures Initiative at the International Institute for Applied Systems Analysis (IIASA) in cooperation with the UArctic Thematic Network on Geopolitics and Security

Location: Björtuloft, Harpa Fifth Level

#### SPEAKERS

- Annika Nilsson, Senior Research Fellow, Stockholm Environment Institute; Affiliated Faculty in Environmental Politics, KTH Royal Institute of Technology, Sweden: *Science, Politics, and Business: Mutual Benefits or Trio of Tensions?*
- Markku Kulmala, PEEX Program; Director, University of Helsinki Institute for Atmospheric and Earth System Research (INAR): *Importance of the Social Relevance of Science and its Implementation to Decision-Making, in Practice – The Case of PEEX*
- Tero Vauraste, President and CEO, Arctia Ltd.; Chair, Arctic Economic Council (AEC): *How Can Science Contribute and Benefit Business, and Do Business People Listen to Science and Scientific Findings?*
- Heather Exner-Pirot, University of Saskatchewan & Arctic Yearbook: *Experiences and Best Practices – Innovation in the Arctic*
- Elisabeth A. Kirk, Nottingham-Trent University: *Responding to Uncertainty in the Arctic through Science and Law*

Chair: Lassi Heininen, IIASA & University of Lapland

**NETWORKING LUNCH 12:15 – 13:00**

HOSTED BY THE PRIME MINISTER OF ICELAND, H.E. KATRÍN JAKOBSDÓTTIR

---

**PLENARY SESSIONS 13:00 – 15:30**

Location: Silfurberg Hall, Harpa Second Level

**13:00 – 13:45 ALASKA SHOWCASE: ENERGY INNOVATION,  
COMMUNITY ADAPTATION, SCIENTIFIC COOPERATION**

**INTRODUCTION**

- Lisa Murkowski, United States Senator

**PANEL**

- Gwen Holdman, Director, Alaska Center for Energy and Power
- Clay Koplín, Mayor of Cordova, Alaska
- Brian Holst, Executive Director, Juneau Economic Development Council
- Larry Hinzman, President, International Arctic Science Committee; Vice-Chancellor for Research, University of Alaska Fairbanks
- Eric Utraq Billingsley, Vice President, Operations, NANA Regional Corporation

**Chair:** Lisa Murkowski, United States Senator

**13:45 – 14:35 ARCTIC TRANSPORT DIALOGUE**

**SPEECHES**

- H.E. Sigurður Ingi Jóhannsson, Minister of Transport and Local Government, Iceland
- Brage Baklien, Secretary of State, Ministry of Transport and Communications, Norway
- Evgeniy Ambrosov, Senior Executive Vice President & Chief Operating Officer of PAO Sovcomflot, Russia
- Scott Miner, Chief Investment Officer, Guggenheim Partners, USA

**Chair:** Gylfi Sigfússon, President/CEO, Eimskip, Iceland

**14:35 – 15:15 CHINA AND THE FUTURE OF THE ARCTIC – BELT AND ROAD**

**SPEAKERS**

- H.E. Gao Feng, Special Representative for Arctic Affairs, People's Republic of China
- Qian Wang, Deputy Director of International Cooperation, Ministry of Natural Resources – State Oceanic Administration, China

**Chair:** Jin Zhijian, Ambassador of the People's Republic of China to the Republic of Iceland

**15:15 – 15:30 COFFEE BREAK**

FRIDAY, OCTOBER 19

## BREAKOUT SESSIONS 15:30-17:00

### 15:30 – 17:00 PORT CITIES CONNECTED BY THE NORTH ATLANTIC: WORKSHOP ON LOGISTICS, BIOECONOMY AND TOURISM

Organized by Haleyg on behalf of the High North Atlantic Business Alliance (HiNABA)

Location: Stemma, Harpa Ground Level

#### SPEAKERS

- Kristin Røymo, Mayor of Tromsø, Norway: *Connectivity Map*
- Ben Ford, Partner, Verrill Dana, Portland, Maine: *Technology Transfer in Bioeconomy*
- Chris Newhook, General Manager, Port of Argentinia, Canada: *Canada Ocean Supercluster*
- Jon Nass, Deputy Chairman, Maine Port Authority: *Sustainable Cruise Destinations*

**Chair:** Nils Arne Johnsen, Director Regional Business Development, Troms County Council

*Networking Workshop on short-term business opportunities in North Atlantic Rim logistics, bioeconomy and tourism.*

### 15:30 – 17:00 PUTTING THE CHANGING ARCTIC IN CONTEXT AND PREDICTING FUTURE TRENDS

Organized by the Harvard Arctic Initiative and the World Economic Forum

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle: *Introductory Remarks*
- Tero Vauraste, CEO of Arctia Group and Chair of the Arctic Economic Council
- John Holdren, Co-Director of STPP at the Harvard Kennedy School and former Science Advisor to President Barack Obama
- Alice Rogoff, Founder of Arctic Today
- Yang Huigen, Director-General of the Polar Research Institute of China (PRIC)
- Silje Karine Muuotka, Member of Norway's Sami parliament
- Scott Miner, Chief Investment Officer, Guggenheim Partners, United States
- Kenneth Høegh, Deputy Minister for Foreign Affairs, Greenland
- Halla Hrund Logadóttir, Co-Founder and Director, Arctic Initiative, Harvard Kennedy School; Co-curator, World Economic Forum's Arctic Transformation Map
- John Letzing, Transformation Maps, World Economic Forum
- Sergey Vladimirovich Krivovichev, Chairman, Kola Science Centre

## FRIDAY, OCTOBER 19

### 15:30 – 17:00 ARCTIC LEADERSHIP: GENDER AND DIVERSITY IN POLITICS, SCIENCE AND INDUSTRY

Organized by the Ministry for Foreign Affairs of Iceland; the Icelandic Arctic Cooperation Network; the Icelandic Centre for Gender Equality, University of Akureyri; Centre for Arctic Policy Studies, University of Iceland

Location: Silfurberg A, Harpa Second Level

#### SPEAKERS

- Sarah Cox, Director, Circumpolar Affairs at Department of Crown Indigenous Relations and Northern Affairs Canada and Head of Delegation for SDWG, Arctic Council: *Perspectives on Arctic Leadership: Curiosity, Storytelling and Mindful Innovation*
- Gunhild Hoogensen Gjörv, Nansen Professor, University of Akureyri/Professor Peace and Conflict Studies, UiT The Arctic University of Norway: *The Gendered Arctic: Perspectives on Security and Migration*
- David C. Natcher, Professor, University of Saskatchewan, Saskatoon, Canada: *Gender and Climate Change Research in the Arctic*
- Liza M. Mack, Interim Executive Director, Aleut International Association, Anchorage, Alaska: *Unangam Ayagax: Aleut Women in Leadership*
- Elle Merete Omma, Head of the EU unit at the Saami Council
- Kirt Ejesiak, Chairman and CEO of Arctic UAV, Iqaluit, Nunavut: *Mapping our Future with Remotely Piloted Systems Combined with Indigenous Traditional Knowledge*

**Chair:** Silja Bára Ómarsdóttir, Assistant Professor, University of Iceland

### 15:30 – 17:00 ARCTIC PLAN FOR SUSTAINABLE GROWTH OF AQUACULTURE

Organized by EFLA Consulting Engineers

Location: Ríma A, Harpa Ground Level

#### SPEAKERS

- Helgi Thorarensen, Professor of Aquaculture, Hólar University: *The Future of Sustainable Salmonid Aquaculture in the Arctic*
- Kjetil Korsnes, Head of Research & Development, BioVivo Technologies: *Towards Sustainable Aquaculture*
- Stefán Thor Kristinsson, EFLA Engineering: *Aquaculture for the Facilitation of the Energy Transition*
- Hafsteinn Helgason, Director of Corporate Business Development and Research and Development, EFLA Engineering

## FRIDAY, OCTOBER 19

### 15:30 – 17:00 LIGHTNING TALKS FROM THE WINNERS OF THE MON PROJET NORDIQUE/MY NORTHERN PROJECT COMPETITION: PHD STUDENTS FROM QUÉBEC AND THE NORDICS

Organized by The Institut nordique du Québec (INQ); the Fonds de recherche du Québec – Nature et technologies (FRQNT); UArctic

Location: Norðurljós, Harpa Second Level

#### INTRODUCTION

- Representative of the Québec Nature and Technology Research Fund

#### SPEAKERS

- Samuel Gagnon, PhD student, geography, Université Laval: *Understanding Climate Change with Ice Wedges*
- Myriam Labbé, PhD student, microbiology, Université Laval: *Itsy-bitsy Secrets of an Aquatic Winogradsky Column: Viral Diversity and Genetic Potential*
- Pierrick Lamontagne-Hallé, PhD student, earth sciences, McGill University: *Cold Regions Groundwater Modelling: Impacts of Permafrost Thaw on Hydrology*
- Mafalda Miranda, PhD student, earth sciences, INRS-ETE: *Assessment of the Deep Geothermal Energy Resource Potential in Nunavik, Northern Québec, Canada*
- Charles-Olivier Simard, PhD student in demography, Université Montréal: *Housing and Household in Inuit Nunangat, 1991-2016: A Demographic Perspective*
- Marianne Falardeau, PhD student, natural resource sciences, McGill University: *Scenarios for a Rapidly Changing Arctic region: Looking Ahead for Planning Today*
- Kirill Gurvich, PhD student, social sciences, Bodø University College: *Sociocultural Adaptation of Refugees in the Circumpolar region: A Comparative Study of Social Work Practices in Norway and Canada*
- Anders Haglund, PhD student, history, philosophy and religious studies, Umeå University: *A New Sense of Community and Belonging: Citizenship, Welfare and Sami Policy in Swedish Arctic Regional Politics 1862-1960*
- Berta Morata, PhD student, environmental and natural resource engineering, Luleå University of Technology: *Spaces of Water, Energy and Resources. Territories of Urbanism in the Arctic*
- Mirva Salminen, PhD student, political science, University of Lapland: *Refocusing and Redefining Cybersecurity: Human Security in the Digitalising European High North*
- Sheridan Thompson, PhD student, geography, transdisciplinary approach, Memorial University of Newfoundland: *Geomorphological Evolution on the Southeast Coast of Iceland: Worldviews of Nature and Adaptation to Rapid Environmental and Climate Change*

## FRIDAY, OCTOBER 19

- Lauri Turpeinen, PhD student, European ethnology, University of Helsinki: *Understanding the Effects of Cultures of Migration in Northern Peripheries*

### SUMMARY AND ANNOUNCEMENT OF THE PUBLIC CHOICE WINNERS

#### 15:30 – 17:00 THE ARCTIC BUSINESS IMPACTS OF GLOBAL SUSTAINABLE DEVELOPMENT GOALS

Organized by the Arctic Working Group in the Danish Parliament

Location: Ríma B, Harpa Ground Level

##### SPEAKERS

- Ólavur Gregersen, Managing Director, Ocean Rainforest: *Embarking on a Sustainable Seaweed Adventure in North Atlantic.*
- Rúni M. Hansen, Chairman of the board, Bakkafrost: *Sustainable and Profitable Business*
- Nikolas Sellheim, Visiting Researcher, Helsinki Institute of Sustainability Science: *The EU Seal Regime and the Illusion of Sustainability*
- Anne Mette Christiansen, Head of Enact Advisory, Enact: *The SDG's and the Arctic*
- Jákup Sørensen, Senior Advisor, NORA: *Blue Fashion – A Sustainable Initiative*

**Moderator:** Magni Arge, Faroese Member of Danish Parliament

#### 15:30 – 17:00 OUT OF ICE: OPEN FORUM, FILM SCREENING, BOOK LAUNCH

Organized by the Universities of Edinburgh and Dundee Scotland; Black Dog Press, London; Stefansson Arctic Institute, Iceland; NordForsk-funded ARCPATH project

Location: Norðurbryggja, Harpa Ground Level

##### SPEAKERS

- Elizabeth Ogilvie, Environmental Artist, University of Edinburgh/Edinburgh College of Art
- Rob Page, Filmmaker, University of Dundee
- Níels Einarsson, Senior Scientist and Director, Stefansson Arctic Institute
- Astrid Ogilvie, Senior Scientist, Stefansson Arctic Institute; Fellow, Institute of Arctic and Alpine Research



## FRIDAY, OCTOBER 19

### 15:30 – 17:00 FULBRIGHT IN THE ARCTIC – MEET THE SCIENTISTS: INVITATION TO ENGAGE WITH FULBRIGHT ARCTIC RESEARCH SCIENTISTS AND PROVIDE INPUT INTO THEIR WORK

Organized by the Fulbright Commission Iceland in Cooperation with the United States Department of State Bureau of Educational and Cultural Affairs and the National Science Foundation

Location: Háaloft, Harpa Eighth Level

#### PANEL

- Joe Roman, Research Associate Professor, University of Vermont; Fulbright-NSF Arctic Research Scholar, University of Iceland: *The Ecological Role of Whales in Transporting Nutrients and Providing Ecosystem Services: Connecting Arctic and Temperate Waters*
- M Jackson, Postdoctoral Scholar, University of Oregon; Fulbright-NSF Arctic Research Scholar, University of Iceland: *Geography/In Tangible Ice: Feminist Perspectives of Glacier Change in Southeastern Iceland*
- Adam Smith, Postdoctoral Scholar, Woods Hole Oceanographic Institution; Fulbright-NSF Arctic Research Scholar, University of Iceland: *Using Soundscapes to Evaluate Anthropogenic Noise Exposure and Potential Impacts on Breeding Puffins*
- Victoria Buschman, PhD student, University of Washington, Fulbright-NSF Arctic research fellow at CAFF: *PhD research: Wildlife Conservation and Indigenous Food Security in the Arctic*
- Grace Cesario, PhD Student, CUNY; Fulbright fellow, Skagafjörður Heritage Museum / Stefánsson Arctic Institute: *PhD research: Archaeological Investigation of Wild Resource Use in Northern Iceland*
- Nathan Reigner, Principal, Recreation & Tourism Science, Fulbright-Ministry of Foreign Affairs Arctic Scholar at the University of Akureyri, Tourism Research Centre: *Informing and Adapting Nature-based Tourism Management in the Icelandic Periphery at Multiple Scales – A Model for the Arctic Periphery*
- Mike Sfraga, Fulbright Arctic Initiative (FAI) Co-Lead Scholar; Director of the Polar Initiative, Woodrow Wilson Center: *Introduction to the Fulbright Arctic Initiative*
- Lára Jóhannsdóttir, Professor, University of Iceland; Fulbright Arctic Initiative Scholar: *The Role of Non-Life Insurance Companies in Economic Development in the Arctic*
- Daria Gritsenko, Assistant Professor, University of Helsinki, FAI Scholar: *Sustainable Energy Mix for the Arctic Regions*
- Nicole Kanayurak, Assistant to the Director, North Slope Borough Department of Wildlife Management; Fulbright Arctic Initiative Scholar: *Virtual Qatnut - Innovative Arctic Food Security through Connectivity*

Chair: Belinda Theriault, Executive Director, Fulbright Commission Iceland

## FRIDAY, OCTOBER 19

### 15:30 – 17:00 SUPPORTING THE IMPLEMENTATION OF THE ARCTIC SCIENCE AGREEMENT

Organized by University of the Arctic (UArctic); the International Arctic Social Sciences Association (IASSA); the Science Diplomacy Center at Tufts University

Location: Esja, Harpa Fifth Level

#### SPEAKERS

- René Söderman, Ambassador, Senior Arctic Official, Finland: *The Arctic Science Agreement – A View from Finland*
- Hanne Eskjær, Senior Arctic Official for the Kingdom of Denmark: *Perspectives from the Depository Government of the Arctic Science Agreement*
- Andrey N. Petrov, President, IASSA: *Characteristics, Activities and Needs of IASSA with Regard to the Arctic Science Agreement*
- Kirsi Latola, Director, Thematic Networks, University of the Arctic; Chair, European Polar Board; Research Coordinator, Thule Institute, University of Oulu, Finland: *Implementation of the Arctic Science Agreement with Science Diplomacy*
- Larry Hinzman, President, International Arctic Science Committee; Vice-Chancellor for Research, University of Alaska Fairbanks: *Enhancing International Arctic Scientific Cooperation with the International Arctic Science Committee*
- Sara Olsvig, Member of Inatsisartut (Parliament of Greenland); Former Vice Premier and Minister of Social Affairs, Families, Gender Equality and Justice for the Government of Greenland: *Direct and meaningful participation in the implementation of the Arctic Science Agreement.*
- John Farrell, Executive Director, US Arctic Research Commission: *How the US Government is Implementing the Agreement*
- Volker Rachold, Head, German Arctic Office; Host of the Arctic Science Ministerial: *Perspectives of a Non-Arctic State with Regard to International Scientific Cooperation*

**Chair:** Paul Arthur Berkman, Director, Science Diplomacy Center, Tufts University

### 15:30 – 17:00 THE ROLE OF ARTS, CULTURE AND CREATIVE INDUSTRIES IN BUILDING SUSTAINABLE SOCIETIES IN THE ARCTIC

Organized by Troms County Council; Arctic Arts Summit, Norway

Location: Akrafjall, Harpa Fourth Level

#### SPEAKERS

- Willy Ørnebakk, Head of Troms County Government
- Madeleine Redfern, Mayor of Iqaluit
- Timo Jokela, Director Arctic Arts Summit Rovaniemi 2019
- Eva-Maria Hakola, Head of development Taika, Finland

**Chair:** Maria Utsi, Founder, Arctic Arts Summit

## FRIDAY, OCTOBER 19

### 15:30 – 17:00 A CHANGING ARCTIC – FORESEEN ECOLOGICAL AND SOCIO-ECONOMIC IMPACTS AND FEEDBACKS

Organized by the Arctic Futures Initiative, International Institute for Applied Systems Analysis (IIASA)

Location: Culture House (Þjóðmenningarhúsið) – see map

#### SPEAKERS

- Markku Kulmala, University of Helsinki & PEEEX: *Land – Atmosphere Interactions to Climate Change*
- Brynhildur Davíðsdóttir, University of Iceland: *Transitions to Low Carbon Societies Using Dynamic Modelling*
- Lise Lotte Sørensen, University of Århus: *Asses the Impacts and Feedbacks at Various Scales on Ecological and Socio-Economic due to New Economic Activities*

#### CHAIRS

- Lassi Heininen, IIASA & University of Lapland
- Hanna Lappalainen, PEEEX, University of Helsinki

### 15:30 – 17:00 BEST PRACTICES FOR RESPONSIBLE TOURISM IN THE ARCTIC

Organized by Festa – the Icelandic Center for Corporate Social Responsibility and Iceland Tourism

Location: Flói, Harpa Ground Level

#### SPEAKERS

- Ketill Berg Magnússon, Managing Director, Festa – the Icelandic Center for CSR: *One Year later - What can we Learn from the Icelandic Responsible Tourism Initiative?*
- Sveinn Hólmur Guðmundsson, Quality and Environmental Manager, Elding Adventure at Sea: *Getting to Know Whales Without Harming them*
- Randy Durband, CEO, Global Sustainable Tourism Council (GSTC): *What does a Good Sustainability Standard Consist of?*
- Mary Gibbons, Business Owner, Arctic Adventure Bucket List Tour: *Sustainable and Community Sensitive Tourism in the Arctic*

**Chair:** Ásta Kristín Sigurjónsdóttir, CEO, Iceland Tourism Cluster

## FRIDAY, OCTOBER 19

### 15:30 – 17:00 INTERNATIONAL COLLABORATION IN THE DANISH REALM- DATA, LOGISTICS AND PARTNERSHIPS

Organized by the Forum for Arctic Research; the Ministry of Higher Education; Science of Denmark and The Danish Universities

Location: Hafnarkot, Harpa Ground Level

#### SPEAKERS

- Malene Simon, Head of the Greenland Climate Research Centre, Greenland Institute of Natural Resources: *Future Visions for International Cooperation and the International Research-Hub in Greenland; Perspectives from Social and Natural Science*
- Peter Schmidt Mikkelsen, Lead Coordinator, Isaaffik Arctic Gateway, Arctic Research Centre (ARC), Greenland Institute of Natural Resources: *International Datasharing in ISAAFFIK Arctic Gateway; International Developments within User Driven Web Platform Supporting Research and Collaboration*
- Bettina Ovgaard, Science Liaison Officer, Danish Joint Arctic Command, Greenland: *International Collaboration on Logistic Challenges; Danish Joint Arctic Command's Logistic Support to Research in the Arctic*
- Niels Andersen, DTU Space Executive Board, Business & Public Authorities- Technical University of Denmark (DTU), Chair international IHO/IAG Advisory Board on the Law of the Sea (ABLOS): *International Cooperation on Navigational Safety in Greenland Waters*
- Ulrik Korsholm, Director of Research, Danish Meteorological Institute: *International cooperation on Arctic Research*
- Lene Kielsen Holm, Scientist and Project Leader, Greenland Institute of Natural Resources: *The Meaning of Ice; the Cooperative Dimensions of Humanistic Research within Arctic Science*
- Morten Meldgaard, Professor, Natural History Museum of Denmark, University of Greenland: *Activating Interdisciplinary Research: Qimmeq, the Greenlandic Sled Dog, Culture, Health and Genetics*

## FRIDAY, OCTOBER 19

### 15:30 – 17:00 THE FUTURE OF THE ARCTIC COUNCIL: FORM AND FUNCTION

Organized by the UArctic Thematic Network on Geopolitics and Security, together with The Arctic Yearbook

Location: Björtuloft, Harpa Fifth Level

#### SPEAKERS

- Natalia Loukacheva, Canada Research Chair in Aboriginal Governance and Law, University of Northern British Columbia: *Arctic Council and the Regional Legally Binding Agreements*
- Maria Ackren, University of Greenland: *Power Dynamics in the Arctic Council*
- Jennifer Spence, Carleton University: *Hope Is Not a Plan: Setting a Path Forward for the Arctic Council*
- Annika Nilsson, Stockholm Environment Institute: *Sustainable Development and Extractive Industries: Contradiction or Opportunity in Times of Rapid Change?*
- Heather Nicol, Trent University: *The Arctic Council and Economic Development Strategies*

**Chair:** Heather Exner-Pirot, Managing Editor, Arctic Yearbook

### 15:30 – 17:00 LOOKING NORTH: EXAMINING THE IMPORTANCE OF SCOTLAND'S GROWING RELATIONSHIP WITH THE ARCTIC

Organized by the Scottish Government

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Darren McAuley, Director, Arctic Centre, St Andrews University
- Mark Inall, Director, SAGES (Scottish Alliance for Geoscience, Environment and Society); Professor of Marine Physics, Scottish Marine Institute
- Tahseen Jafry, Director, Centre for Climate Justice; Professor, Glasgow Caledonian University
- Kateryna MacKinnon, European Policy Manager, Highlands and Islands Enterprise
- Frank Strang, Deputy Director of European Relations

**Chair:** Fiona Hyslop, MSP, Cabinet Secretary for Culture, Tourism and External Affairs, Scottish Government

## FRIDAY, OCTOBER 19

### 15:30 – 17:00 'TURNING THE PLASTIC TIDE' – USING SCIENCE AND INNOVATION TO FIGHT MARINE POLLUTION

Organized by the UK Science and Innovation Network; NERC Arctic Office

Location: Viðey, Harpa Second Level

#### SPEAKERS

- Alice Horton, Centre for Ecology and Hydrology, UK Microplastics Network: *How Microplastics Enter Marine Systems - Sources and Transport Pathways*
- Sarah Auffret, Environmental Agent, AECO - Association of Arctic Expedition Cruise Operators: *How the Tourism Industry can Help Fight Against Marine Litter*
- Bhavani Narayanaswamy, Scottish Association for Marine Science: *Plastic, Plastic Everywhere*
- John McGeehan, Professor, University of Portsmouth: *Engineering a PET-Degrading Enzyme for Circular Plastic Recycling*
- Ryan Taylor, Founder, CuanTec Ltd.: *A Plastic Problem Faced by Chitinous Waste*
- Safia Qureshi, Founder & CEO, CupClub: *Join the Reusable Revolution*

**Chair:** Henry Burgess, Head of the NERC Arctic Office

---

### 17:00 – 17:15 COFFEE BREAK

---

FRIDAY, OCTOBER 19

## BREAKOUT SESSIONS 17:15-18:45

### 17:15 – 18:45 RESEARCH FOR SOCIETAL BENEFIT: WHERE POLAR RESEARCH CAN MAKE A DIFFERENCE

Organized by EU-PolarNet

Location: Hafnarkot, Harpa Ground Level

#### INTRODUCTION

- Nicole Biebow, Project Manager, EU-PolarNet

#### SPEAKERS

- Malgorzata (Gosia) Smieszek, Researcher, University of Lapland and Finnish Environment Institute: *The Road to the Desired States of Social-Ecological Systems in the Polar Regions*
- Lise Lotte Sørensen, Associate Professor, Arctic Research Centre, Aarhus University: *The Coupled Polar Climate System: Global Context, Predictability and Regional Impacts*
- Hannele Savela, Research Coordinator, Thule Institute, University of Oulu: *Footprints on Changing Polar Ecosystems: Processes, Threats, Responses and Opportunities for Future Generations*
- Marcus Carson, Research Fellow, Stockholm Environment Institute: *Managing Resource Use, Conservation, and Human Impacts on the Polar Regions*
- Nils Arne Johnsen, Director Industry & Regional Development, Troms County, Norway: *Advancing operational informatics for polar regions*

Chair: Antonio Quesada, Executive Secretary, Spanish Polar Committee

### 17:15 – 18:45 THE COOPERATION OF ARCTIC SCIENCE WITH BUSINESS AND INDUSTRY

Organized by the International Arctic Science Committee

Location: Silfurberg A, Harpa Second Level

*Light catering will be provided*

#### SPEAKERS

- Tero Vauraste, Chair, Arctic Economic Council; CEO, Arctia Ltd.: *Shipping, International Cooperation*
- Jeanette Hammer Andersen, Biotech North Incubator: *Marine Bioprospecting, Research Collaboration with the Biotech Industry*
- John Holdren, Professor of Environmental Policy & Co-Director of the Arctic Innovation Initiative, Harvard Kennedy School of Government: *The Potential of Business-Government-Academic Partnerships*
- Stacy Ettinger, Partner, K&L Gates: *Foreign Investment in Arctic Resources and Infrastructure*
- Janet Weiss, President, BP Exploration Alaska Inc.: *Large*

## FRIDAY, OCTOBER 19

*Industry/Science Cooperation, Arctic Oil & Gas*

**Chair:** Larry Hinzman, President, International Arctic Science Committee;  
Vice-Chancellor for Research, University of Alaska Fairbanks

### 17:15 – 18:45 POLAR LAW: THE RIGHTS OF INDIGENOUS PEOPLES

Organized by the University of Akureyri

Location: Björtuloft, Harpa Fifth Level

#### SPEAKERS

- Tony Penikett, Author of *Hunting the Northern Character*; Visiting Professor, Simon Fraser University Public Policy School; former Yukon Premier: *Crossing Lines and Dotted Ice: Indigenous Government and Arctic Regions*
- Dorothée Cambou, Post-Doc Fellow, University of Helsinki: *Energy Justice and the Rights of Indigenous Peoples: The Impacts of Renewable Energy on the Rights of the Sami People*
- Jan Mikael Lundmark, PhD Fellow, Durham University, Durham Arctic Research Centre: *Protection of Arctic Indigenous Peoples' Land Rights: Understanding the Concept of Property in Relation to Indigenous Peoples - Case Law from the Human Rights Courts*
- Nina Larsson, Glassco Fellow, Gwich'in Nation citizen and Gordon alumnus: *Arctic Athabaskan Languages: Use Them or Lose Them*

**Moderator:** Mana Tugend, LLM Polar Law Candidate, University of Akureyri

### 17:15 – 18:45 ENERGY JUSTICE FOR THE NORTH: TOWARDS AN INCLUSIVE, SECURE, AND EQUITABLE ARCTIC NETWORK OF ENERGY JUSTICE RESEARCH

Organized by The Arctic Institute; Michigan Technological University; University of Dundee

Location: Háaloft, Harpa Eighth Level

#### SPEAKERS

- Victoria Herrmann, Managing Director, The Arctic Institute; Scott Polar Research Institute, University of Cambridge
- Roman Sidortsov, Assistant Professor of Energy Policy, Department of Social Sciences, Michigan Technological University
- Raphael Heffron, Professor for Global Energy Law & Sustainability, Center for Energy, Petroleum and Mineral Law and Policy, University of Dundee
- Darren McCauley, Senior Lecturer, University of St. Andrews
- Corine Wood-Donnelly, Postdoctoral Research Fellow, Centre for Russian and Eurasian Studies, Uppsala University



## FRIDAY, OCTOBER 19

- Marianne Pascale Bartels, Senior Research Associate, Institute for Advanced Sustainability Studies (IASS) Potsdam, Germany

**Chair:** Kathrin Stephen, Scientific Project Leader, Institute for Advanced Sustainability Studies (IASS) Potsdam; Senior Fellow, The Arctic Institute

### 17:15 – 18:45 THE THIRD POLE AS COMPLEX SOCIO-ECOLOGICAL SYSTEM – SUSTAINABILITY AND RESILIENCE

Organized by the Arctic Futures Initiative, International Institute for Applied Systems Analysis (IIASA); Third Pole Environment, Institute of Tibetan Plateau Research, Chinese Academy of Sciences

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- Pavel Kabat, Chief Scientist and Research Director, World Meteorological Organization (WMO): *WMO Integrative Approach on the Cryosphere*
- Tandong Yao, Chair of Third Pole Environment (TPE), Institute of Tibetan Plateau Research, Chinese Academy of Sciences: *Environment Change Study in the Third Pole Region*
- Dipak Gyawali, Director, Nepal Water Conservation Foundation; Academician, Nepal Academy of Science and Technology; former Minister of Water Resources of Nepal: *Interdisciplinarity and Nexus Approach at the Interface of Technology and Society: Assuring Benefits to the Marginalized*
- Eddy Moors, Rector & Professor, IHE Delft Institute for Water Education: *Water for Sustainable Development*
- Jie Fan, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences: *Discussion on the National Parks Cluster in Tibetan Plateau*
- Wei Liu, Research Scholar, Risk and Resilience Program (RISK), IIASA: *Multi-Stakeholder Partnership and Polycentric Governance for Climate and Disaster Resilience in the Third Pole*

#### CHAIRS

- Anni Reissell, IIASA & University of Helsinki
- Ailikun, Third Pole Environment, Institute of Tibetan Plateau Research, Chinese Academy of Sciences

## FRIDAY, OCTOBER 19

### 17:15 – 18:45 WIND POWER PROJECTS IN THE ARCTIC: DEVELOPMENT, FINANCING AND SYSTEM INTEGRATION

Organized by The U.S. Department of State Energy Bureau, The U.S. Embassy Reykjavik and National Energy Authority, Iceland.

Location: Ríma B, Harpa Ground Level

#### INTRODUCTION

- Jill Esposito, Chargé d'Affaires, U.S. Embassy Reykjavik
- Paul Hueper, Director of Energy Programs, Bureau of Energy Resources, U.S. Department of State
- Gwen Holdman, Director, Alaska Center for Energy and Power (ACEP): *Renewable Energy Integration in Alaska's Remote Islanded Microgrids*

#### SPEAKERS

- Owen Roberts, National Renewable Energy Laboratory: *Hybrid Power System Integration, Technology Selection, and Lessons Learned*
- Rob Bensin, Bering Straits Native Corporation, Alaska: *Experiences with Wind Development in Rural Alaska*
- Guðni Jóhannesson, Director General, National Energy Authority, Iceland: *Permits, Licenses, and Public Acceptance*
- Mogens Nielsen, Chief Technology Officer (CTO), Nukissiorfiit Greenland: *The Igaliku Test Project and Wind Development Planning in Greenland*

**Moderator:** Jenna Schroeder, Global Energy Programs Manager, Bureau of Energy Resources, U.S. Department of State

### 17:15 – 18:45 KINGDOM OF DENMARK EARLY CAREER SCIENTISTS

Organized by the Forum for Arctic Research; Ministry of Higher Education and Science of the Kingdom of Denmark; The Danish Universities

Location: Viðey, Harpa Second Level

#### SPEAKERS

- Marc Jacobsen, Copenhagen University: *Science as a Political Currency in the Arctic*
- Martin Nielsen, Copenhagen University: *Using DNA Metabarcoding to Assess Arctic Insect Diversity*
- Martin Mohr Olsen, University of Faroese Islands: *Transscalar Innovation and Sustainability: Creating Sustainability Agents in the High North and Arctic*
- Fang Peng, Greenland University: *Cultural Intelligence - a Useful Tool to Assist Greenland in Sailing into the Wind of Globalization?*
- Manumina Lund Jensen, Greenland University: *Sled Dogs in the Arctic*

## FRIDAY, OCTOBER 19

### 17:15 – 18:45 CONTENTIOUS YEARS IN ARCTIC POLITICS: LASTING IMPACTS OR FLEETING TROUBLES?

Organized by the Norwegian Institute of International Affairs (NUPI)

Location: Flói, Harpa Ground Level

#### SPEAKERS

- Klaus Dodds, Professor, Royal Holloway: *Flags, Fears and Fermentation: Arctic Politics in Contention (2007-2014)*
- Heather Exner-Pirot, Senior Strategist for Outreach and Indigenous Engagement, University of Saskatchewan: *The Current Arctic Policy Era: 2007-? What Comes Next*
- Jonathan Markowitz, Assistant Professor, University of Southern California: *Arctic Shock: Utilizing Climate Change to Test Theories of Resource Competition*
- Annika E. Nilsson, Senior Research Fellow, Stockholm Environment Institute: *Scalar Politics at the Intersection Between Global Narratives and Local Needs*
- Elana Wilson Rowe, Research Professor, Norwegian Institute of International Affairs/Nord University: *Cooperation in Conflict: The Diplomacy of Contentious Years*

#### DISCUSSANT

- Lassi Heininen, Professor, University of Lapland: *Better than its Reputation – Reflections on the Year of 2007*

### 17:15 – 18:45 EU SPACE PROGRAMMES FOR THE ARCTIC

Organized by the European Commission

Location: Silfurberg B, Harpa Second Level

#### SPEAKERS

- Philippe Brunet, European Commission Director of 'Space policy, Copernicus and Defence': *EU Space Activities in the Domain of Earth Observation, Satellite Communication, and Space Situational Awareness.*
- Matthias Petschke, European Commission Director of 'EU Satellite navigation Programmes': *The EU Satellite Navigation Programmes Galileo and Egnos.*
- Craig Donlon, European Space Agency, Noordwijk, the Netherlands: *Implementing the Integrated EU Arctic Policy: Measurement Evidence from Copernicus Satellites today and tomorrow*
- Ingibjörg Jónsdóttir, Associate Professor, University of Iceland: *Environmental Monitoring in the Arctic using SENTINEL Imagery from Copernicus*
- Éric Laliberté, Director General, Space Utilization, Canadian Space Agency: *Canadian Space for the Arctic*

## FRIDAY, OCTOBER 19

### PANEL

- Heidar Gudjonsson, Managing Director, Ursus Investments; AEC Vice Chair; Chairman, Icelandic-Arctic Chamber of Commerce
- Tomi Kivenjuuri, Member of the Arctic Coast Guard Forum
- Jannie Staffansson, Advisor, Arctic and Environment Unit, Saami Council
- Matilde Brandt Kreiner, Danish Meteorological Institute

**Moderator:** Marie-Anne Coninx, EEAS, Ambassador at Large for Arctic Affairs of the European Union

### 17:15 – 18:45 ARCTIC CRYOSPHERIC CHANGE AND ITS IMPACTS

Organized by University Corporation for Polar Research (UCPR); Beijing Normal University; Lanzhou University

Location: Akrafjall, Harpa Fourth Level

### SPEAKERS

- Zhang Tingjun, Professor, College of Earth and Environmental Sciences, Lanzhou University: *The Continued Climate Warming and its Impacts on Permafrost in Alaska*
- Cheng Xiao, Professor, Dean of College of Global Change and Earth System Science, Beijing Normal University, the secretary general of University Corporation for Polar Research (UCPR), China: *Interactions between the Ocean, Atmosphere and Ice Sheet*
- Wang Chenghai, Professor, College of Atmospheric Science, Lanzhou University: *Interactions Between Arctic Sea Ice and Circulation in Middle Latitudes*
- Shulga Valerii, Professor, Jilin University: *Microwave Studies of Polar Vortex*
- Geng Lei, University of Science and Technology of China (USTC): *Climate Sensitivity of Sea Ice, Reactive Halogens and Atmospheric Oxidation Capacity*
- An Jiachun, Wuhan University: *The Linear Trend and Periodic Variation of Vertical Deformation in Greenland over the Past Ten Years with GNSS Observations, Environmental Loading and Satellite Gravimetry*
- Li Teng, Ph.D. Candidate, College of Global Change and Earth System Science, Beijing Normal University: *The UAV-based Investigation of a Newly-formed Ice-doline near Dalk Glacier, East Antarctic.*

### CHAIRS

- Zhang Tingjun, Professor, College of Earth and Environmental Sciences, Lanzhou University
- Cheng Xiao, Professor, Secretary General of University Corporation for Polar Research (China); Dean, College of Global Change and Earth System Science, Beijing Normal University

## FRIDAY, OCTOBER 19

### 17:15 – 18:45 PAVING THE FROZEN SILK ROAD – EASTERN OUTLOOKS ON ARCTIC GEOPOLITICS AND SOCIO-ECONOMIC DEVELOPMENT

Organized by the UArctic Thematic Network on Geopolitics and Security in cooperation with the GlobalArctic Project

Location: Culture House (Þjóðmenningarhúsið) – see map

#### SPEAKERS

- Mia M. Bennett, Assistant Professor, Department of Geography and School of Modern Languages & Cultures (China Studies Programme), The University of Hong Kong: *Chinese Infrastructure Diplomacy in Russia under the Belt and Road Initiative: From the Far East to the Polar Silk Road*
- Jussi Huotari, PhD Candidate, Aleksanteri Institute, University of Helsinki, Finland: *Arctic LNG and global production network (GPN)*
- *China and Arctic Futures*
  - Liisa Kauppila, PhD Candidate, University of Turku, Finland
  - Sanna Kopra, Postdoctoral Researcher, Arctic Centre, University of Lapland, Finland
- Hilma Salonen, PhD Candidate, Aleksanteri Institute, University of Helsinki, Finland: *Energy Deliveries in the Russian Arctic: Established Systems and New Networks*
- Eero Hokkanen, MA, Arctia Ltd.: *International Cooperation in Icebreaking and other Maritime Services on the Northern Sea Route*

Chair: Sanna Kopra, Postdoctoral Researcher, University of Lapland

### 17:15 – 18:45 ARCTIC DECADES AHEAD

Organized by ArCS (Arctic Challenge for Sustainability)

Location: Ríma A, Harpa Ground Level

#### INTRODUCTION

- Masao Fukasawa, Project Director of Arctic Challenge for Sustainability (ArCS), Japan

#### SPEAKERS

- Tetsuo Sueyoshi, Research Administrator, National Institute of Polar Research, Japan: *Predicted State of the Arctic in 2030 – Changes in a Decade from 2018*
- Natsuhiko Otsuka, Professor, Hokkaido University, Japan: *The Northern Sea Route and its Socio-Economic Effects*
- Takashi Kikuchi, Deputy Director, Japan Agency for Marine-Earth Science and Technology, Japan: *Marine Ecosystems and Fisheries in the Arctic Ocean*
- Yuichiro Fujioka, Lecturer, Graduate School of Integrated Sciences for Global Society, Kyushu University
- Daisuke Doi, Deputy Director, Ocean and Earth Division, Research and Development Bureau, Ministry of Education, Culture, Sports, Science and Technology: *Summary*

## FRIDAY, OCTOBER 19

### 17:15 – 18:45 THE SECOND ARCTIC SCIENCE MINISTERIAL IN BERLIN – CHALLENGES, COMMITMENTS AND CO-OPERATION

Organized by the European Commission, DG Research & Innovation; The Ministry for Education and Culture of the Republic of Finland; The Ministry for Education and Research of the Federal Republic of Germany

Location: Esja, Harpa Fifth Level

#### SPEAKERS

- Volker Rachold, Director of the German Arctic Office, Alfred Wegener Institute, Helmholtz Center for Polar and Marine Research: *Format and Structure of the Second Arctic Science Ministerial*
- Kirsi Latola, Research Coordinator, Thule Institute, University of Oulu, Finland: *Second Arctic Science Ministerial and Finland's Chairmanship of the Arctic Council*
- Andrea Tilche, Head of Climate Action and Earth Observation Unit, European Commission, DG Research & Innovation: *The Principles and the Process Adopted to Draft of Joint Statement of the Ministers*
- Liza Mack, Executive Director, Aleut International Association: *Indigenous Knowledge and Science - The Importance of Meaningful Engagement*

**Chair:** Attilio Gambardella, European Commission, DG Research & Innovation

### 17:15 – 18:45 NRF YOUNG RESEARCHERS' SESSION: GLOBAL CHANGE IN THE ARCTIC AT A REGIONAL LEVEL

Organized by the Northern Research Forum (NRF) at the University of Akureyri and Rannís – the Icelandic Centre for Research

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Stanislav Ksenofontov, Fellow, International Arctic Science Committee: *Vulnerability of the Social-Ecological Systems of Arctic Yakutia in the Context of Global Change*
- Lara Wilhelmine Hoffmann, PhD Candidate, University of Akureyri: *Migration and Creative Work: The Example of Iceland*
- Egill Thor Nielsson, Ph.D. Candidate, University of Lapland and University of Iceland; Executive Secretary, CNARC; Visiting Scholar, Polar Research Institute of China and SIIS: *China-Nordic Arctic Relations: A Comparative Approach*
- Tukumminnguaq Nykjær Olsen, Graduate Student, University of Greenland: *A Youth Perspective on Global Change in Rural Greenland*

**Moderator:** Amy Wiita, Subsistence Resource Specialist, Alaska Department of Fish & Game; Senior Interdisciplinary Research Scientist, Cinza Research LLC

## RECEPTION 18:45 – 20:00

OPEN TO ALL ASSEMBLY ATTENDEES

Hosted by Minister for Foreign Affairs of Iceland H.E. Guðlaugur Þór Þórðarson

Location: Norðurljós Hall, Harpa Second Level

---

## BREAKOUT SESSIONS 20:00-21:30

### 20:00 – 21:30 CELEBRATING GREENLANDIC CULTURAL HERITAGE

Organized by Municipality of Sermersooq, Greenland

Location: Eyri, Harpa Second Level

#### SPEAKER

- Asii Chemnitz Narup, Mayor of Sermersooq municipality, Greenland: *Safeguarding and Promoting Cultural Heritage*

*Greenlandic performance, music, arts and food tasting*

### 20:00 – 21:00 THE ARCTIC YOUTH NETWORK – THE WAY FORWARD: RECEPTION

Organized by the Youth Environmentalist Association of Iceland

Location: Ríma A, Harpa Ground Level

#### SPEAKER

- Pétur Halldórsson, President of the Youth Environmentalist Association of Iceland: *What is the Arctic Youth Network?*

### 20:00 – 21:00 STRENGTHENING THE COOPERATION BETWEEN ARCTIC AND NON-ARCTIC COUNTRIES

Organized by the Konrad-Adenauer-Stiftung; Embassy of the Federal Republic of Germany in Iceland; in partnership with the Ecologic Institute

Location: Flói, Harpa Ground Level

#### INTRODUCTION

- Elina Klive, Konrad-Adenauer-Stiftung, Nordic Countries Project, Riga, Latvia, offices (KAS)
- Herbert Beck, Ambassador of the Federal Republic of Germany in Iceland

#### SPEAKERS

- Pia Hansson, Director, Institute of International Affairs and Centre for Arctic Policy Studies, University of Iceland: *A Small State Perspective on Arctic Cooperation*

## FRIDAY, OCTOBER 19

- Mikkel Runge Olesen, Senior Researcher Foreign Policy, Danish Institute for Foreign Studies: *The Kingdom of Denmark in the Arctic*
- Andreas Raspotnik, Senior Researcher, High North Center, Nord University, Bodø & Senior Fellow, The Arctic Institute, Washington
- Kathrin Stephen, Scientific Project Leader, Institute for Advanced Sustainability Studies (IASS) Potsdam; Senior Fellow, The Arctic Institute

**Chair:** R. Andreas Kraemer, Founder & Director Emeritus of Ecologic Institute in Berlin; Chairman of Ecologic Institute US

### 20:00 – 21:30 ARCTIC FILM SERIES: THE ARCTIC: THE DRIFT OF TRADITIONS

Organized by The Québec Government (Ministry of International Relations and of La Francophonie)

Location: Kaldalón, Harpa Ground Level

#### INTRODUCTION

Jean Lemire, Envoy for Climate change, Northern and Arctic Affairs, Government of Québec

---

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

Location: Björtuloft, Harpa Fifth Floor

Open to all Assembly participants

---



# SATURDAY, OCTOBER 20

## BREAKOUT SESSIONS 08:00 – 09:00

### 08:00 – 09:00 ARCTIC JOURNALISM AT THE CROSSROAD OF TECHNOLOGY, ECONOMY, AND POLITICS

Organized by the Stockholm Environment Institute

Location: Akrafjall, Harpa Fourth Level

-With breakfast for attendees

#### PANEL

- Alice Rogoff, Publisher & Editorial Director, Arctic Today
- Martin Breum, Journalist/Author
- Thomas Nilsen, Editor of the Barents Observer
- Eilis Quinn, Specialized Reporter, Eye on the Arctic/Regard sur l'Arctique, Radio Canada International

#### CONCLUSION

- Miyase Christensen, Professor of Media and Communication Studies, Stockholm

**Chair:** Annika E. Nilsson, Senior Research Fellow, Stockholm Environment Institute

### 08:00 – 09:00 BUILDING STRATEGIC PARTNERSHIPS FOR A HEALTHIER NORTH

Organized by UNE NORTH, University of New England; Verrill Dana LLP; Highlands and Islands Enterprise

Location: Esja, Harpa Fifth Level

#### SPEAKERS

- Benjamin Ford, Partner, Verrill Dana, LLP: *A New Model for Collaboration Between Industry and Academia to Create Lasting and Impactful Change*
- Barry Costa Pierce, Executive Director, UNE NORTH; Henry L. & Grace Doherty Professor of Marine Sciences, University of New England: *Building Transdisciplinary and Transcultural Strategic Partnerships to Support a Healthy and Thriving North.*
- Inga Burton, University Engagement Manager, Universities, Education and Skills Team, Highlands and Islands Enterprise, Scotland: *Place-Based Approaches to University Engagement in the Highlands and Islands of Scotland*

## SATURDAY, OCTOBER 20

### 08:00 – 09:00 PARTICIPATION, APPROPRIATION, REPRESENTATION: TOWARD AN INCLUSIVE, SUSTAINABLE ARCTIC

Organized by the Arctic Summer College; Ecologic Institute; Konrad-Adenauer-Stiftung's Nordic Countries Project

Location: Ríma B, Harpa Ground Level

#### SPEAKERS

- Victoria Herrmann, President and Managing Director, The Arctic Institute: *Just Representation: Visibilities and Invisibilities in Arctic Sustainability Narratives*
- Jocelyn Joe-Strack, Consultant, Subarctic Research & Strategy: *Self-Governing First Nation Land Planning in Yukon, Canada*
- Brendan O'Donnell, Coordinator, Arctic Summer College: *The Art of Arctic Erasure*
- Jannie Staffansson, Advisor, Arctic Environment Unit, Saami Council: *We Are the Nature Fighting Back*
- Aleksey Tsykarev, UN Independent Expert, UN Expert Mechanism on the Rights of Indigenous Peoples: *Indigenous participation and free prior and informed consent*

Chair: Max Gruenig, President, Ecologic Institute

### 08:00 – 09:00 ARCTIC SDI: MAKING ARCTIC DATA ACCESSIBLE AND REUSABLE – ROADMAP TO OPEN AND COST-EFFECTIVE DATA MANAGEMENT POLICY

Organized by Arctic Spatial Data Infrastructure (SDI); National Land Survey of Iceland; Conservation of Arctic Flora and Fauna (CAFF) Arctic Council Working Group

Location: Ríma A, Harpa Ground Level

#### SPEAKERS

- Eydís Líndal Finnbogadóttir, Director General, National Land Survey of Iceland
- Tom Barry, Executive Secretary, Conservation of Arctic Flora and Fauna (CAFF) Working Group of the Arctic Council

### 08:00 – 09:00 COLLABORATIVE INNOVATION IN CANADA'S ARCTIC: RESEARCH AND DEVELOPMENT PARTNERSHIPS BETWEEN INDIGENOUS BUSINESSES AND COMMUNITIES, GOVERNMENT AGENCIES AND UNIVERSITIES

Organized by the University of Saskatchewan and Mitacs

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Jennifer Wilkie, Chief Financial Officer, Mitacs: *Mitacs's Role as Facilitator in Indigenous Engagement, Research Funding and Arctic Innovation*

## SATURDAY, OCTOBER 20

- Ken Coates, Johnson, Shoyama Graduate School of Public Policy, Canada Research Chair in Regional Innovation: *The Potential of 21st Century Innovations for the Far North - Beneficial or Disruptive?*
- Greg Finnegan, CEO, Na-cho Nyäk Dun Development Corporation: *Case Study: Innovation and Applied Technology in a Remote Northern Indigenous Community.* (Video Statement)

**Chair:** Duncan Phillips, Vice-President, Strategic Markets, Mitacs

### PLENARY SESSIONS 09:00 – 11:30

Location: Silfurberg Hall, Harpa Second Level

#### 09:00 – 10:00 RUSSIAN SCIENCE ABOVE THE ARCTIC CIRCLE

Organized by the Russian Academy of Sciences

##### SPEAKERS

- Sergey Vladimirovich Krivovichev, Chairman, Kola Science Centre, Russian Academy of Sciences, Head, Department of Crystallography, St. Petersburg State University: *Russian Academy of Sciences in the Arctic: Kola Science Centre – Past, Present and Future*
- *Results of the Arctic Onshore and Offshore Hydrocarbon Resources Study and Development*
  - Vasily Igorevich Bogoyavlensky, Deputy Director, Oil and Gas Research Institute, Russian Academy of Sciences, & Head, Department of Geoecology, Gubkin Oil and Gas University
  - Igor Vasilievich Bogoyavlensky, Researcher, Oil and Gas Research Institute, Russian Academy of Sciences
- Vladimir Alekseevich Masloboev, Vice-Chairman, Kola Science Centre, Russian Academy of Sciences: *Environmental Safety of the Mining Industry in the Arctic*
- Alexey Mikhaylovich Fadeev, Leading Scientist, Kola Science Centre, Russian Academy of Sciences: *Russian Arctic Shelf Development: Challenges & Opportunities*
- Elena Mikhaylovna Klyuchnikova, Leading Scientist, Kola Science Centre, Russian Academy of Sciences: *Regional Aspects of Developing Adaptation Strategies to Climate Change in the Russian Arctic*
- Aleksei Evgenievich Cherepovitsyn, Leading Scientist, Kola Science Centre, Russian Academy of Sciences, Head, Department of Organization and Management, Professor, Mining University: *Assessment of Russian Regions Potential for Use Technologies CO<sub>2</sub>-EOR*

**Chair:** Sergey V. Krivovichev, Corresponding Member, Russian Academy of Sciences; Head, Kola Science Centre, Russian Academy of Sciences

#### 10:00 – 10:15 THE ARCTIC CIRCLE KOREA FORUM

##### SPEAKER

- Park Heung Kyeong, Ambassador for Arctic Affairs, Republic of Korea

10:15 – 10:30 COFFEE BREAK

---

10:30 – 10:50 SCOTLAND: A NEW ARCTIC STRATEGY

SPEECH

Fiona Hyslop, MSP, Cabinet Secretary for Culture, Tourism and External Affairs, Scottish Government

Chair: Dagfinnur Sveinbjörnsson, CEO, Arctic Circle

10:50 – 11:00 FRANCE AND THE ARCTIC

SPEECH

- Ségolène Royal, Ambassador for the Arctic and Antarctic Poles; Former Minister of the Environment, Republic of France

11:00 – 11:30 CLIMATE CHANGE AND THE ARCTIC:  
A DIALOGUE WITH SIR DAVID KING

SPEECHES

- Sir David King, former Special Representative for Climate Change, UK Foreign and Commonwealth Office (2013-2017); Senior Strategy Adviser to the President of Rwanda

Chair: H.E. Guðmundur Ingi Guðbrandsson, Minister for the Environment and Natural Resources, Iceland

---

## BREAKOUT SESSIONS 11:30 – 12:30

11:30 – 12:30 THE POLAR SILK ROAD – WHERE IS IT HEADING?

Organized by the WWF Arctic Programme

Location: Norðurljós, Harpa Second Level

SPEAKERS

- Martin Breum, Arctic correspondent: *China in Greenland - Why the Controversy?*
- Heather A. Conley, Senior VP for Europe, Eurasia, Arctic, and Director of the Europe Program, Center for Strategic and International Studies (CSIS): *Great Power Interaction in the Arctic: A U.S. Perspective*
- Nong Hong, Executive Director and Senior Fellow, Institute for China-America Studies: *Observing and being Observed: China's Role in the Arctic*
- Liselotte Odgaard, Associate Professor, Institute for Military Operations, Royal Danish Defence College: *China's Approach to Development and the Arctic*

Chair: Simon Walmsley, Senior Specialist, Sustainable Development with the WWF Arctic Programme

## SATURDAY, OCTOBER 20

### 11:30 – 12:30 FINLAND AND NEW ELEMENTS IN ARCTIC COOPERATION

Organized by the Ministry for Foreign Affairs of Finland

Location: Ríma A, Harpa Ground Level

#### SPEAKERS

- Paula Lehtomäki, State Secretary, Prime Minister's Office, Chair of Finland's Arctic Advisory Board: *Finland and the Arctic at Local, Regional, European and Global Levels*
- Johanna Ekman, Project Manager, Finnish Meteorological Institute: *Meteorological Collaboration in the Arctic*
- Kimmo Kanto, Director, Business Finland: *New Space Economy in Arctic Cooperation*
- Jaakko Henttonen, Special adviser: *Curbing Black Carbon Emissions*

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

### 11:30 – 12:30 CANADA'S COAST GUARD IN THE ARCTIC – DELIVERING SERVICES WITH INUIT AND NORTHERNERS

Organized by Canada's Coast Guard

Location: Akrafjall, Harpa Fourth Level

#### SPEAKERS

- Captain Peter Garapick, Superintendent, Search & Rescue/Environmental Response – Arctic: *Search and Rescue and Environmental Response with Indigenous Communities in the Arctic*
- Neil O'Rourke, Senior Director, Safe Shipping and Economic, Industry Intelligence: *Arctic Engagement*
- Zachary Schulman, Arctic Policy Coordinator, Marine Transportation Systems Directorate (CG-5PW), U.S. Coast Guard Headquarters

### 11:30 – 12:30 THE IMPACT OF GROWTH AND INFRASTRUCTURE IN THE WEST NORDIC COUNTRIES: FAROE ISLANDS, GREENLAND AND ICELAND

Organized by Air Greenland, Atlantic Airways and Icelandair Group

Location: Esja, Harpa Fifth Level

#### SPEAKERS

- Jacob Nitter Sørensen, CEO, Air Greenland: *The New Possibilities and Potential Effects of the Planned Investments in New International Airports in Nuuk and Ilulissat, Greenland.*
- Jóhanna á Bergi, CEO, Atlantic Airways: *Atlantic Airways, National Carrier and Lifeline: The Effects of Competition.*
- Gunnar Már Sigurfinnsson, Chief Commercial Officer, Icelandair: *Positive Impacts of Infrastructure Investments on the Icelandic Economy and Competitiveness.*

## SATURDAY, OCTOBER 20

### 11:30 – 12:30 ARCTIC SECURITY: TRENDS AND EMERGING ISSUES

Organized by the University of Southern Denmark; University of Loughborough (UK)

Location: Silfurberg A, Harpa Second Level

#### SPEAKERS

- James I. Rogers, Professor in War Studies, University of Southern Denmark: *Arctic Drones: Trends in Military Technology in the Arctic and High North*
- Vincent Keating, Associate Professor, Center for War Studies, University of Southern Denmark: *The Quadrant: Danish-Greenlandic Relations and the Impact of Great Power Politics*
- Jon Rahbek-Clemmensen, Associate Professor, Institute of Strategy, Royal Danish Defence College: *The Quadrant: Danish-Greenlandic Relations and the Impact of Great Power Politics*
- Caroline Kennedy-Pipe, Professor, International Security & International Relations at the University of Loughborough, UK: *India and the Arctic*

**Chair:** Paul Begley, Deputy Head of Mission, British Embassy in Iceland

### 11:30 – 12:30 INVESTMENTS IN THE ARCTIC – OPEN TO ALL?

Organized by the Bilateral Chambers of Commerce in Iceland in cooperation with the Icelandic Chamber of Commerce

Location: Björtuloft, Harpa Fifth Level

#### SPEAKERS

- Heiðar Guðjónsson, Chairman, Icelandic Arctic Chamber of Commerce: *Mutual Benefits - How Asia and the Arctic are Excellent Business Partners*
- Svend Hardenberg, Founder & Chairman, Greenland Invest: *Infrastructure and Investments – Opportunities in the Coming Years*
- Fanglu Wang, Senior Managing Director, CITIC Capital Partners: *Turning Point in Infrastructure Built up in the Arctic*
- Hugh S. Short, Chairman/CEO, Pt Capital: *Arctic Investments*

**Moderator:** Halla Hrund Logadóttir, Co-Founder & Co-director, Arctic Initiative, Harvard Kennedy School

### 11:30 – 12:30 ADVANCING OCEAN LITERACY TO PROMOTE HEALTHY ARCTIC COMMUNITIES

Organized by the Students on Ice Foundation

Location: Hafnarkot, Harpa Ground Level

#### PANEL

- Lisa Glithero, National Coordinator, Canadian Ocean Literacy Coalition: *Introduction to Ocean literacy*
- Enooyaq Sudlovenick, MSc Student, University of Prince Edward Island

## SATURDAY, OCTOBER 20

- Scott Carr, CEO, JASCO Applied Sciences (Canada) Ltd.
- Jeannette Menzies, Director of Knowledge Management and Engagement, Polar Knowledge Canada
- Paul Crowley, Vice-president, Arctic, World Wildlife Fund Canada

**Moderator:** Geoff Green, Founder & President, Students on Ice, Canada

### 11:30 – 12:30 NEW GEO-POLITICAL REALITY IN THE WEST NORDIC AREA

Organized by the Faroese Ministry of Foreign Affairs and Trade, and the West Nordic Council

Location: Ríma B, Harpa Ground Level

#### INTRODUCTION

- Poul Michelsen, Minister of Foreign Affairs and Trade, The Faroe Islands
- H.E. Ane Lone Bagger, Minister of Foreign Affairs, Government of Greenland
- Guðlaugur Þór Þórðarson, Minister for Foreign Affairs, Iceland

#### PANEL

- Rasmus Gjedssø Bertelsen, Professor, Department of Social Sciences, UiT – The Arctic University of Norway.
- Bjørt Samuelsen, Member, West Nordic Council's Committee on Arctic affairs
- Bryndís Haraldsdóttir, Member, West Nordic Council's Committee on Arctic affairs
- Múte Bourup Egede, Member, West Nordic Council's Committee on Arctic affairs

**Moderator:** Sigurður Ólafsson, Secretary General, West Nordic Council

### 11:30 – 12:30 FULL-UTILIZATION: POWERFUL IDEAS FOR ARCTIC ECONOMIC DEVELOPMENT

Organized by the Iceland Ocean Cluster; Nofima AS, Tromsø; New England Ocean Cluster, Maine; Kaiser Global Development Group, New York

Location: Háaloft, Harpa Eighth Level

#### SPEAKERS

- Kristinn Hjálmarsson, Iceland Ocean Cluster, Iceland: *Full-Utilization of Natural Resources and Cluster Models: Creating New Value from Fish by Multiple Industries Working Together in Food Production, Pharmaceuticals, Biotech, and Beyond*
- Oyvind Fylling-Jensen, CEO & Managing Director, Nofima AS, Norway: *Full-Utilization of Knowledge: Creating New Value from Shared Knowledge Networks that Fuse Scientific, Technological, and*

## SATURDAY, OCTOBER 20

### *Commercial Innovation*

- Patrick Arnold, President, New England Ocean Cluster, USA: *Full-Utilization of Networks: Creating New Value by Leveraging International Networks for New Market Entry, Regulatory and Compliance Support, Cost-Based Geography, and Public-Private Partnerships*
- William Patrowicz, CEO & Managing Director, Kaiser Global Development Corp, USA: *Full-Utilization of Clean Energy for Scientific Exploration: Creating New Value by Attracting Scientific and Tech Sector Interests to Iceland's Renewable Resources*

**Chair:** Geir H. Haarde, Ambassador of Iceland to the United States of America

### 11:30 – 12:30 LEVERAGING ABUNDANCE: A MINDSET AND FRAMEWORK TO ACHIEVE THE SDGS IN THE NORTH

Organized by the UNE NORTH, University of New England; College of the Atlantic; SustainaMetrix, LLC

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- Jay Friedlander, Sharpe-McNally Chair of Green and Socially Responsible Business, College of the Atlantic: *Applying the Abundance Cycle to Meet SDGs in the North*
- Holly Parker, Assistant Provost for Strategic Initiatives, University of New England; Associate Director, UNE NORTH: *The Responsibility and Opportunity of Abundance Thinking Education*
- Glenn G. Page, President/CEO, SustainaMetrix: *Exploring Transformation Systems, abundance and SDG's in the North: A Learning Journey in the Gulf of Maine*



## SATURDAY, OCTOBER 20

### 11:30 – 12:30 THE ARCTIC RESILIENCE ACTION FRAMEWORK

Organized by the Harvard Kennedy School Arctic Initiative; Stockholm Environment Institute

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Joel Clement, Senior Fellow, Harvard Kennedy School, Arctic Initiative: *The Role of the Arctic Resilience Action Framework*
- Kuupik Kleist, Greenlandic Commissioner, Pikialasorsuaq Commission, former Premier of Greenland: *Resilience in Action: The Pikialasorsuaq Vision*
- Rene Söderman, Senior Arctic Official, Finland: *Reflections on Finland's Arctic Resilience Forum*
- Jannie Staffansson, Advisor, Arctic Environmental Unit, Saami Council: *The Role of Indigenous Communities in Supporting the Arctic Resilience Action Framework*
- Leigh Welling, PhD, Associate Regional Director for Science, Communications, and Partnerships, National Park Service, Alaska Region, United States: *Sustaining Place-based Knowledge and Cultural Vitality in Communities of Northwest Alaska*
- Marcus Carson, Stockholm Environment Institute: *Taking Stock of Resilience Progress and Opportunities in the Arctic*

### 11:30 – 12:30 LESSONS FROM HOME: BUILDING ARCTIC IDENTITIES IN THE INTERNATIONAL SYSTEM

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

Location: Viðey, Harpa Second Level

#### SPEAKERS

- Marc Lanteigne, Senior Lecturer in Security Studies, Massey University Auckland: *Switzerland's Observer Status in the Arctic Council: Building Blocks for a Polar Identity*
- Mingming Shi, Project Manager, Icelandic Times; Graduate Student, University of Iceland: *Geography isn't Everything: Singapore's Intelligent Diplomacy in the Arctic*
- Baldur Thorhallsson, Professor in Political Science & Jean Monnet Chair in European Studies, University of Iceland: *Iceland and its Arctic Identity*

**Chair:** Pia Hansson, Director, Institute of International Affairs and Centre for Arctic Policy Studies, University of Iceland

---

## NETWORKING LUNCH 12:30 – 13:15

HOSTED BY ARCTIC GREEN ENERGY

---

## SATURDAY, OCTOBER 20

### PLENARY SESSIONS 13:15 – 16:00

Location: Silfurberg Hall, Harpa Second Level

#### 13:15 – 14:00 THE PACIFIC-ARCTIC PARTNERSHIP FOR 21<sup>ST</sup>-CENTURY SUSTAINABLE FISHERIES

*Organized in cooperation with Nia Tero & Conservation International*

##### SPEAKERS

- Hon. Tetabo Nakara, Minister of Fisheries and Marine Resources Development (MFMRD), Kiribati
- Ben Ponia, Chief of Staff, Office of the Prime Minister, Cook Islands

##### PANEL

- Ferral Lasi, Under Secretary Technical, Ministry of Fisheries and Marine Resources
- Salome Tupou, Pacific Catalyst, University of the Pacific
- Guðmundur Kristjánsson, Brim hf.
- Guðmundur Fertram Sigurjónsson, President & CEO, Kerecis

##### CHAIRS

- Sue Taei, Executive Director, Conservation International New Zealand
- Grímur Valdimarsson, Former Director, Fish & Industry Division, UN Food & Agriculture Organization (FAO)

#### 14:00 – 14:45 ARCTIC-GLOBAL INDIGENOUS DIALOGUE: INDIGENOUS GUARDIANSHIP and self-governance; ecosystems and thriving communities

*Organized in cooperation with Nia Tero*

- Kuupik Kleist, Greenlandic Commissioner, Pikialasorsuaq Commission, former Premier of Greenland
- Tukumminnguaq Nykjær Olsen, Graduate Student, University of Greenland
- Aili Keskitalo, President, Sámi Parliament, Norway
- Hon. Tetabo Nakara, Minister of Fisheries and Maritime Resources Development, Kiribati
- Eldebechel Secilil, Chief of Staff, Office of the President of Palau

**Chair:** Peter Seligmann, CEO, Nia Tero

## SATURDAY, OCTOBER 20

### 14:45 – 15:15 THE ARCTIC AND THE THIRD POLE – HIMALAYA

#### SPEAKERS

- Yaoming Ma, Professor, Head of International Cooperation, Institute of Tibetan Plateau Research, Chinese Academy of Sciences
- Dagfinnur Sveinbjörnsson, CEO, Arctic Circle

Chair: Peter Seligmann, CEO, Nia Tero

### 15:15 – 16:00 THE EUROPEAN UNION AND THE ARCTIC

#### SPEAKERS

- Joao Aguiar Machado, Director General, DG Maritime Affairs and Fisheries (DG MARE), European Commission
- Marie-Anne Coninx, European Union Ambassador at Large for the Arctic
- Philippe Brunet, European Commission Director of 'Space policy, Copernicus and Defence'
- Magda Kopczynska, Director, Mobility and Transport (DG MOVE), European Commission
- Piotr Szymanski, Director, Joint Research Center (JRC), European Commission
- Andrea Tilche, Acting Director, Research and Innovation (DG RTD), European Commission

Chair: Michael Mann, Ambassador of the European Union to Iceland

---

### 16:00 – 16:15 COFFEE BREAK

---

## BREAKOUT SESSIONS 16:15-17:45

### 16:15 – 17:45 “A POLAR SILK ROAD” AT THE INTERSECTION OF RESEARCH, POLICY AND INDUSTRY

Organized by the Centre for High North Logistics; China-Nordic Arctic Research Center (CNARC)

Location: Esja, Harpa Fifth Level

#### INTRODUCTION

- Marie-Anne Coninx, European Union Ambassador at Large for the Arctic
- Bjørn Olsen, Rector, Nord University
- Yang Huigen, General Director, Polar Research Institute of China (PRIC); Director, China-Nordic Arctic Research Center (CNARC)

#### SPEAKERS

- Bjørn Gunnarsson, Centre for High North Logistics (CHNL), Nord University: *Shipping on the NSR*

## SATURDAY, OCTOBER 20

- Natsuhiko Otsuka, Arctic Research Center, Hokkaido University: *Cargo Base for the NSR*
  - Harri Mäkki-Reinikka, Ambassador, Secretary General, Finland Arctic Advisory Board: *The Arctic Railway*
  - Heidar Gudjonsson, Managing Director, Ursus Investments; AEC Vice Chair; Chairman, Icelandic-Arctic Chamber of Commerce: *Arctic Investments of China*
  - Evgeniy Ambrasov Vice President, Sovcomflot; Vice Chair, Arctic Economic Council: *Future Operations - NSR 2.0*
  - Egill Thor Nielsson, Executive Secretary, CNARC; Visiting Scholar, Polar Research Institute of China (PRIC) & SIIS: *The Polar Silk Road – Contributions from the Experience of the CNARC Roundtable*
- Chair:** Kjell Stokvik, Managing Director, Centre for High North Logistics (CHNL), Nord University

### 16:15 – 17:45 BUILDING A 21<sup>ST</sup> CENTURY INFRASTRUCTURE SYSTEM FOR THE NORTH AMERICAN ARCTIC: A DISCUSSION ON PUBLIC PRIVATE PARTNERSHIPS

Organized by Arctic360

Location: Björtuloft, Harpa Fifth Level

#### INTRODUCTION

- Honourable Bob McLeod, Premier, NWT, Canada: *The Northern Infrastructure Gap*

#### SPEAKERS

- Mike Aumond, Cabinet Secretary and Vice Chair of the Northwest Territories Power Corporation, NWT, Canada
- Darrell Beaulieu, President and CEO, Denendeh Investments Incorporated
- Robert Blaauw, Executive Director, RJBC Arctic & Energy; Board Member, Netherlands Polar Programme, Dutch National Science Organisation; former Head of Arctic Programme, Shell, The Hague.
- Clint Davis, CEO, North35, Capital Partners; Chair, Labrador Inuit Capital Strategy Trust (LICST), Nunatsiavut Group of Companies
- Scott Northey, COO, Nunavut Resources Corporation, Nunavut
- Scott Morey, Vice President, Human Resources, OP Trust, Canada
- Hugh Short, CEO, Pt. Capital,
- Mead Treadwell, Anchorage, Alaska
- Jakob Smith, Project Director, Arctic Infrastructure Alliance, Danish Trade Mission in Toronto, Canada, Ministry of Foreign Affairs of Denmark

#### CHAIRS

- Jessica M. Shadian, CEO, Arctic360
- Madeleine Redfern, Mayor, Iqaluit, Nunavut

## SATURDAY, OCTOBER 20

### 16:15 – 17:45 COMMERCE, CULTURE AND THE ENVIRONMENT: ICELAND, MAINE, AND THE NORTH ATLANTIC

Organized by the University of Southern Maine

Location: Hafró (Marine & Freshwater Research Institute) – see map

#### SPEAKERS

- John Muthyala, Professor, Department of English, University of Southern Maine: *Re-imagining Iceland in a Transatlantic Global Colonial Economy*
- Jan Piribeck, Professor, Department of Art, University of Southern Maine: *The Moving Tides: An Arctic Journey*
- Libby Bischof, Professor, Department of History, University of Southern Maine: *Photography on the Edge: Maine and Iceland at the Turn-of-the-Century*

### 16:15 – 17:45 AND ACTION! MOVING BEYOND BENEVOLENT RHETORIC IN STAKEHOLDER ENGAGEMENT

Organized by FRAM – High North Research Centre for Climate and the Environment (The Fram Centre); the Norwegian Institute for Nature Research; EU-PolarNet; Alfred Wegener Institute

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Kuno Fencker, Chairman of the Board, Royal Arctic Line, Greenland
- Kirsi Latola, Chair, European Polar Board; Research Coordinator, Thule Institute, University of Oulu, Finland
- Per Fauchald, Researcher, Norwegian Institute for Nature Research; Chair, Fram Center Flagship MIKON
- Danielle Conway, Dean & Professor, University of Maine
- Henry Burgess, Head, NERC Arctic Office
- Aili Keskitalo, President of Sami Parliament of Norway
- Kristin Røymo, Mayor of Tromsø

**Chair:** Nils Arne Johnsen, Director Regional Business Development, Troms County Council

### 16:15 – 17:45 CLIMATE CHANGE IN ARCTIC ICELAND

Organized by the Ministry for Foreign Affairs of Iceland

Location: Ríma B, Harpa Ground Level

#### INTRODUCTION

- H.E. Guðlaugur Þór Þórðarson, Minister for Foreign Affairs, Iceland

#### SPEAKERS

- Halldór Björnsson, Head of the Atmospheric Research Group, Iceland

## SATURDAY, OCTOBER 20

Meteorological Office: *Climate Change Impacts in Iceland: Summary of the Recent Climate Change Impact Assessment for Iceland*

- Brynhildur Davíðsdóttir, Professor, Environment and Natural Resources, University of Iceland: *Climate change Mitigation and Adaptation in Iceland*
- Níels Einarsson, Director, Stefansson Arctic Institute; ArcPath – Nordic Centre of Excellence in Arctic Research on Climate: *Arctic Climate Change, International Collaboration and Multidisciplinary Research: The ARCPATH Project*
- Hugli Ólafsson, Director, Ministry of the Environment and Natural Resources, Iceland: *Climate Change Policy in Iceland*
- Sólveig Rósa Ólafsdóttir, Senior Scientist, Marine & Freshwater Research Institute: *Ocean Acidification*
- Edda Sif Pind Aradóttir, Project Manager, CarbFix & Head of Innovation and Strategic Planning, Department of R&D, Reykjavík Energy: *CarbFix – Turning the CO<sub>2</sub> troll to stone*
- Sævar Helgi Bragason, Science Communicator and TV host: *Climate Change: Saga Film trailer, Introduction*

Film trailer: “Climate Change: Saga Film”

**Chair:** Ari Trausti Guðmundsson, Member of Parliament & Chair of Icelandic Conference of Parliamentarians of the Arctic Region

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

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

Location: Norðurljós, Harpa Second Level

#### REMARKS

- Halla Hrund Logadóttir, Co-Founder and Director, Arctic Initiative, Harvard Kennedy School; Co-curator, World Economic Forum’s Arctic Transformation Map

#### SPEAKERS

- Patrick Lynch, Harvard Kennedy School: *Great Rivers of the Arctic: Filmmaking as a Catalyst for Community Engagement and Conservation*
- Gauri Gupta, The Fletcher School: *Creating Economic Opportunity in the Changing Arctic*
- Renata Barajas, Iceland School of Energy, Reykjavik University: *Wind-Sourced Power Reserves: A Roadmap to Sustainability in the Arctic*
- Brittney Melloy, Harvard Kennedy School: *From Threatened to Thriving: Using Technology to Preserve Arctic Indigenous Languages*

## SATURDAY, OCTOBER 20

- Colleen Narlock, Harvard Kennedy School: *Preserving the Polar Pharmacy*
- Stuart James, University of Iceland: *Energy Prospects Beyond Oil: Harnessing Arctic Renewables*
- Ross Eisenberg, Harvard Kennedy School: *Financing Solid Ground: Permafrost Thaw-Resistant Communities*
- Ágústa Gunnarsdóttir, University of Iceland: *Community Greenhouse*
- Manumina Jensen, University of Greenland: *Research for and with the Arctic People*
- Cayla Calderwood, Harvard Kennedy School: *Current' Events in Arctic Shipping: Monitoring's Potential to Optimize Trade Routes*
- Katie Segal, Harvard Kennedy School: *Waste as an Arctic Resource: Tackling Waste Volume while Solving Energy Challenges*
- Mette Jensen, University of Greenland: *Limiting the Social Impacts of Climate Change*
- Alexander Zystev, Harvard Kennedy School: *Gas Flaring in the Russian Arctic: Stop Burning Money*
- Sydney Le Cras, Iceland School of Energy, Reykjavik University: *Waste to Food: A Solution for Tackling Persistent Pollutants and Food Scarcity*
- Riene Rambert, Harvard Kennedy School: *Reimagining the Arctic Landscape for Film and Creative Pursuits*

**Moderator:** Mehek Sethi, Research Assistant and Student Organizer at the Arctic Initiative, Harvard Kennedy School of Government

### 16:15 – 17:45 INDIGENOUS STRATEGIES ON MAXIMIZING PRESENCE AND CAPABILITIES IN THE ARCTIC

Organized by Ukpeaġvik Iñupiat Corporation (UIC)

Location: Háaloft, Harpa Eighth Level

#### SPEAKERS

- Nagruk Harcharek, UIC Science General Manager, Ukpeaġvik Iñupiat Corporation (USA): *Arctic Network Strategies*
- Anu Fredrikson, Director, Arctic Economic Council Secretariat: *Economic Perspective on Traditional Indigenous Knowledge, Stewardship and Small Business in the Arctic*
- Mike Sfraga, Director, Polar Initiative, Wilson Center: *Defining and Developing the Arctic of Tomorrow: The Centrality of Indigenous Leadership*
- Mikhael Pogodaev, Executive Director, Northern Forum: *Interregional Cooperation in the Arctic on Business Development and Indigenous Peoples*
- Alice Rogoff, Founder, Arctic Today: *Building Awareness of the Arctic*
- Hank W. Loescher, Director of Strategic Development, Battelle-National Ecological Observatory Network: *Challenges and Solutions to*

## SATURDAY, OCTOBER 20

### *Integrate Arctic Indigenous Strategies in Academic and Agency Environments*

#### 16:15 – 17:45 ARCTIC TIPPING POINTS

Organized by the Technical University of Denmark, Section for Oceans and Arctic

Location: Culture House (Þjóðmenningarhúsið) – see map

##### SPEAKERS

- Stefan Rahmstorf, Professor, Potsdam University, Germany: *Tipping Points of Arctic Ice and the North Atlantic Ocean Circulation*
- Mads Forchhammer, Professor, The University Centre in Svalbard: *Biological Tipping Points in Terrestrial Systems?*
- Marit-Solveig Seidenkrantz, Professor, Aarhus University, Denmark: *Tipping Points in the Climatic and Biological Systems Based on Geological Records*
- André Visser, Professor, Technical University of Denmark: *Tipping Points and Marine Ecosystem Services of the Subpolar North Atlantic*

#### 16:15 – 17:45 HUMAN SECURITY IN THE BARENTS REGION

Organized by the University of Helsinki in cooperation with the UArctic Thematic Network on Geopolitics and Security

Location: Akrafjall, Harpa Fourth Level

##### SPEAKERS

- Lassi Heininen, Professor, University of Lapland: *What was up there in the Barents Sea Area Before an 'Euro-Arctic Region' and 'Human Security'?*
- Tahnee Prior, Trudeau Scholar-Doctoral Candidate Balsillie School of International Affairs, University of Waterloo: *Personal Security in the Barents Region: An Intersectional Focus on Women & Indigenous Peoples*
- Hanna Lempinen, Post-doctoral Researcher, University of Helsinki: *Societal Aspects of Energy Security: Insights from the Euro-Arctic Region*
- Mirva Salminen, Researcher and Doctoral Candidate, University of Lapland-Arctic Centre: *Digital Security in the Barents Region*

Chair: Dorothee Cambou, Post-doctoral Researcher, University of Helsinki



## SATURDAY, OCTOBER 20

### 16:15 – 17:45 THE DISAPPEARING ARCTIC SEA ICE AND UNCHARTED OCEANS OF OPPORTUNITIES: SATELLITE, SHIPPING AND SUSTAINABILITY

Organized by the Korea Arctic Research Consortium (KoARC)

Location: Flói, Harpa Ground Level

#### SPEAKERS

- Hyoung Chul Shin, Korean Arctic Research Consortium: *Short Introduction; Arctic Ocean without Sea Ice in Natural and Human History*
- Paul Arthur Berkman, Director, Science Diplomacy Center, Tufts University: *Next generation Arctic Shipping Assessments*
- Hyun-cheol Kim, Korea Polar Research Institute: *Arctic Sea Ice Tracked, Traced and Compared with Shipping Records: Ramifications for Future Sea-Route Development and Implementation*
- Brooks Kaiser, University of Southern Denmark: *Losing Sea-Ice in the Arctic; is it Necessarily a Losing Game for Northern Communities?*

### 16:15 – 17:45 GREEN TECHNOLOGIES AND BIOMIMICRY: INNOVATION INSPIRED BY THE ARCTIC

Organized by the Ministry of Foreign Affairs of France

Location: Ríma A, Harpa Ground Level

#### SPEAKERS

- Jean-Christophe Allo, Business Development Manager, SABELLA: *Tidal Energy Solution for the Energy Transition of Arctic Remote Areas*
- Nicolas Dubreuil, Director, Expedition Cruises, Le Ponant: *Towards Safe and Sustainable Arctic Expedition Cruising*
- Marion Moreau, Director, Sigfox Foundation, Sigfox: *The Power of Low: About a New Internet to Monitor the Planet*
- Anne Pajot, General Manager, Bioegy: *How can Polar Ecosystems Contribute to Biomimicry's Innovation Potential?*
- Géraldine Deliencourt, Chief scientific Officer & Founder, TFChem/Sirona Biochem: *From Polar Sea Fishes to Innovative Therapeutics*
- Etienne Lefai, Research Scientist, French National Institute for Agricultural Research (INRA): *The Hibernating Scandinavian Brown Bear Physiology to Fight Human Muscle Atrophy*

Chair: Nathalie Morata, Advisor for the French Ambassador for the Poles Ségolène Royal

## SATURDAY, OCTOBER 20

### 16:15 – 17:45 ALASKA SHOWCASE: COMMUNITY ADAPTATION IN THE ARCTIC: A FOCUS ON ALASKA

Organized by United States Senator Lisa Murkowski

Location: Silfurberg A, Harpa Second Level

#### SPEAKERS

- Matt Emerson, President, PDC Engineers: *Building in Permafrost*
- Ethan Schutt, Chief of Staff, Alaska Native Tribal Health Consortium
- Tina Pidgeon, General Counsel, Chief Compliance Officer, and SVP of Governmental Affairs, General Communication Inc.

**Chair:** Clay Koplin, CEO, Cordova Electric Coop. and Mayor of Cordova

### 16:15 – 17:45 COORDINATION ACROSS BORDERS - ARCTIC TRANSBOUNDARY ADMINISTRATION IN THE BERING REGION

Organized by WWF-US Arctic Program, WWF-Russia, and Center for Arctic Study & Policy (United States Coast Guard)

Location: Sæbjörg ICE-SAR Training Vessel – see map

#### PANEL

- Cara Condit, Director, Center for Arctic Study and Policy, United States Coast Guard Academy: *Presence, Responsibility, and Influence - The US Coast Guard in the Bering Region*
- Leigh Welling, Associate Regional Director, Alaska Region, United States National Park Service: *The Role of the US National Park Service in Arctic International Collaboration and Protecting Transboundary Territories*
- Vlada Valchenko, Public Relations Specialist Beringia National Park: *Russian Protected Areas in the Bering Region – Successes and Challenges of Coordinating with other Russian Government Structures and International Regulators*
- Austin Ahmasuk, Marine Advocate, Kawerak, Inc.: *Bering Strait Ecosystems and Anthropogenic Impacts*
- Vitaly Klyuev, Deputy Head, Pacific & East-Arctic Ports, Maritime Administration of the Russian Federation
- Alexander Moiseev, Coordinator, Marine Program, WWF Russia: *Bering Strait Ecosystems and Anthropogenic Impacts*
- Captain Kevin Kiefer, Deputy Director, Marine Transportation Systems, USCG

**Moderator:** Nathan Reigner, Principal, Recreation & Tourism Science

## SATURDAY, OCTOBER 20

### 16:15 – 17:45 HOPE IN A CHANGING ARCTIC AND GLOBAL CLIMATE: RELIGIOUS AND ETHICAL DIMENSIONS OF THE GLOBAL CLIMATE CHANGE AND THE GREAT ARCTIC MELT

Organized by Research Institute of Theology at the Faculty of Theology and Religion, University of Iceland; Stofnun Sigurbjörns Einarssonar, The Icelandic Institute for Religion and Reconciliation.

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- Sólveig Anna Bóasdóttir, Professor of Theological Ethics, University of Iceland: *Hope in a Changing Climate*
- Sigríður Guðmarsdóttir, Associate Professor, Faculty of Theology, Diaconia and Leadership Studies, VID Specialized University, Tromsø, Norway: *The Wind Blows Where It Wills: Negotiating Reindeers, Windmills and the Holy Spirit in the Arctic.*
- Hilda P. Koster, Associate Professor, Faculty of Religion, Faculty of Women's and Gender Studies, Concordia College, Moorhead, Minnesota, USA: *Trafficked Lands and Fractured Bodies: Climate Justice, Oil and Native Women in the Dakotas.*
- Arnfríður Guðmundsdóttir, Professor, Faculty of Theology and Religious Studies, University of Iceland: *How climate change is changing the lives of women and why we need to know about it.*

**Chair:** Bogi Ágústsson, Reporter and Broadcaster; Chair of Stofnun Sigurbjörns Einarssonar, The Icelandic Institute for Religion and Reconciliation.

### 16:15 – 17:45 IDEAS AND THOUGHTS ON THE THIRD POLE FORUM: BEIJING, CHINA, MAY 2019

Organized by Arctic Circle & Nia Tero

Location: Stemma, Harpa Ground Level

**Chair:** Peter Seligmann, CEO, Nia Tero; Chairman of Conservation International

### 16:15 – 17:45 SUSTAINABLE TOURISM IN THE NORTH ATLANTIC – A DRIVER FOR LOCAL ECONOMIC DEVELOPMENT; CLUSTER-TO-CLUSTER COLLABORATION

Organized by Búnaðarstovan - Agricultural Agency Faroe Islands, Austurbru - the East Iceland Bridge, Innovative opplevelser i Nord, Norway and Sermersooq Business Council, Greenland

Location: Viðey, Harpa Second Level

#### SPEAKERS

## SATURDAY, OCTOBER 20

- Tróndur Gilli Leivsson, Director, Búnaðarstovan
- Elfa Hlín Pétursdóttir, Project Manager, Austurbru
- Moa Björnson, Head of Development and Innovation, Træna, Norway
- Anne Nivika Grødem, Project Manager, Food Cluster Development, Sermersooq Business Council
- Berglind Hallgrímsdóttir, Managing Director International Division - Innovation Centre Iceland

**Moderator:** Lars Albæk, Baltic Sea Cluster Development Centre

---

17:45 – 18:00 COFFEE BREAK

---

### BREAKOUT SESSIONS 18:00-19:30

18:00 – 19:30 CHALLENGES, OPPORTUNITIES AND QUALITY OF LIFE OF YOUNG PEOPLE IN THE ARCTIC: INTERVIEW RESULTS

Organized by the Stefansson Arctic Institute and the University of Akureyri  
Location: Hafró (Marine & Freshwater Research Institute) – see map

#### SPEAKERS

- Joan Nymand Larsen, Professor of Economics and Arctic Studies, University of Akureyri; Senior Scientist, Stefansson Arctic Institute: *Young People in the Arctic: Current Challenges and Future Aspirations: An Overview and Highlights from the Greenland and the Nordic Countries.*
- Timothy Heleniak, Senior Research Fellow, Nordregio, Sweden: *Demographics of Youth in the Arctic.*
- Andrey Petrov, Associate Professor, Department of Geography, University of Northern Iowa: *Challenges and Future Visions of Young People in Arctic Russia.*
- Jón Haukur Ingimundarson, Senior Scientist, Stefansson Arctic Institute; Associate Professor of Anthropology and Arctic Studies, University of Akureyri: *Icelandic Youth and Sustainable Futures: Results from Interviews with Young People in Iceland.*
- Javier Arnaut, Assistant Professor of Economics, University of Greenland: *The Evolution of the Youth Labor Market in Nuuk, Greenland*

#### CHAIRS

- Joan Nymand Larsen, Professor of Economics and Arctic Studies, University of Akureyri; Senior Scientist, Stefansson Arctic Institute
- Jón Haukur Ingimundarson, Senior Scientist, Stefansson Arctic Institute; Associate Professor, University of Akureyri

## SATURDAY, OCTOBER 20

### 18:00 – 19:30 THE ARCTIC RENEWABLE ENERGY ATLAS (AREA) PROJECT: KEY TAKEAWAYS FROM THE SINGAPORE WORKSHOP

Organized by the Energy Studies Institute, National University of Singapore; The Institute of the North

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- *Sustainable Energy Access in Remote Locations: Connecting the Arctic and Southeast Asia*
  - Christopher Len, Senior Research Fellow Energy Studies Institute, National University of Singapore
  - Gail Mosey, Project Leader, Arctic Renewable Energy Atlas (AREA) Project; Project Lead and Senior Energy Analyst, National Renewable Energy Laboratory (NREL)
- *AREA Project Overview, Data Management and Visualisation*
  - Halldór Jóhannsson, Executive Director, Arctic Portal
  - Gail Mosey, Project Leader, Arctic Renewable Energy Atlas (AREA) Project; Project Lead and Senior Energy Analyst, National Renewable Energy Laboratory (NREL)
- *Key Takeaways from the Singapore Workshop*
  - Gail Mosey, Project Leader, Arctic Renewable Energy Atlas (AREA) Project; Project Lead and Senior Energy Analyst, National Renewable Energy Laboratory (NREL)
  - Mikhail Pogodaev, Executive Director, Secretariat of the Northern Forum, Sakha Republic (Yakutia); Chair of the Association of World Reindeer Herders
  - Liu Yang, Senior Research Fellow, Energy Studies Institute, National University of Singapore
- Hema Nadarajah, PhD Candidate, Department of Political Science, University of British Columbia: *Arctic Science and Technology Agenda as a Platform for International Dialogue and Collaboration*

#### CHAIRS

- Christopher Len, Senior Research Fellow, Energy Studies Institute (ESI), National University of Singapore (NUS)
- Nils Andreassen, Project Leader, Arctic Renewable Energy Atlas (AREA) Project; Executive Director, Institute of the North

### 18:00 – 19:30 SEARCH AND RESCUE IN THE EMERGING ARCTIC

Organized by the Finnish Border Guard

Location: Sæbjörg ICE-SAR Training Vessel – see map

#### SPEAKERS

- Tomi Kivenjuuri, Senior Policy Advisor, Finnish Border Guard: *The Arctic Coast Guard Forum - Practical Level Search and Rescue Cooperation in the Arctic*

## SATURDAY, OCTOBER 20

- Emmi Ikonen, Researcher, Nord University: *Complexity of Incident Coordination in Large-scale Operations in the Arctic*
- Frigg Jørgensen, Executive Director, Association of Arctic Expedition Cruise Operators (AECO): *Arctic Expedition Cruise Industry – Collaborations for Enhanced SAR Readiness and Response*
- Rebecca Pincus, Assistant Professor, United States Naval War College: *Navy-Coast Guard Cooperation in Arctic SAR and Emergency Response*
- Auðunn F. Kristinsson, Deputy Chief of Operation, Icelandic Coast Guard: *Search and Rescue Cooperation in the North – Operational Exercises and Best Practices*
- Bent-Ove Jamtli, General Director, Joint Rescue Coordination Center of North Norway: *Search and Rescue in the Norwegian Arctic - Challenges, Examples from Recent Real-life Incidents*

**Chair:** René Söderman, Ambassador, Senior Arctic Official, Finland

### 18:00 – 19:30 TOWARD AN ARCTIC WOMEN SUMMIT

Organized by the Centre for Gender Equality; Arctic Centre, University of Lapland, Finland

Location: Silfurberg B, Harpa Second Level

#### SPEAKERS

- Katrín Björg Ríkarðsdóttir, Director, Centre for Gender Equality, Iceland: *Gender Equality in the Arctic*
- Sara Olsvig, Leader of Inuit Ataqatigiit; Member of Inatsisartut, the parliament of Greenland; Former Vice Premier & Minister of Social Affairs, Families, Gender Equality; Justice for the Government of Greenland: *Arctic Women Summit - Views from a Political Perspective*
- Jane Francis, Director, British Antarctic Survey, United Kingdom: *Arctic Women Summit - Views from Science Perspective*
- Nina Larsson, Organizer, Founding Member and Organizer, Dene Nahjo, Indigenous Circumpolar Women's Gathering 2014, Gwich'in, Sweden: *Indigenous Women Leading Change, Together*
- Tahnee Prior, Pierre Elliot Trudeau Scholar and PhD Candidate, University of Waterloo, Canada; Co-lead of the "Women of the Arctic": *Women of the Arctic – Lessons Learnt and Paths Forward*

**Chair:** Malgorzata (Gosia) Smieszek, Co-organizer of the event "Women of the Arctic: Bridging Research, Policy and Lived Experience"; Arctic Centre, University of Lapland, Finland

## SATURDAY, OCTOBER 20

### 18:00 – 19:30 POLAR LAW: THE INTERNATIONAL ARCTIC

Organized by the University of Akureyri

Location: Ríma A, Harpa Ground Level

#### SPEAKERS

- Michael Byers, Professor of Law, University of British Columbia: *Outer Space and the Arctic: The Final Frontiers of International Law?*
- Annelien Ramakers, MA Polar Law candidate, University of Akureyri: *Use and Conservation of Resources in the Arctic Ocean beyond National Jurisdiction*
- Constance Johnson, PhD Candidate, Australian National Centre for Ocean Resources & Security, University of Wollongong: *Governing beyond National Jurisdiction: The Southern Ocean*

**Moderator:** Katharina Heinrich, MA Polar Law Candidate, University of Akureyri

### 18:00 – 19:30 MOVING FORWARD BY LEARNING FROM EACH OTHER

Organized by the Cerny Inuit Collection, Bern

Location: Björtuloft, Harpa Fifth Level

#### SPEAKERS

- Sebastian Drude, Director, Vigdis International Centre for Multilingualism and Intercultural Understanding: *Language as an Exhibit and Cultural Heritage*
- Mattijusi Manukuluk Iyaituk, Hunter and Abstract Artist: *From Nomadic Life to Computer Age*
- Martin Schultz, Curator, North American Collection, National Museums of World Culture, Stockholm & Gothenburg, Sweden: *Fast Forward into the Past*
- Marilyn Yadultin Jensen, Performing Artist, Advocate, Speaker, Educator, Consultant: *Dancing to make our Spirits Strong: Reclaiming our Indigenous Identity, Ceremony and Self-determination through our Performing Arts (Video Statement)*
- Stephen Borys, Director & CEO, Winnipeg Art Gallery: *Bridging a Gap: Creating an Inuit Art Centre in Canada's South*
- William W. Fitzhugh, Director, Arctic Studies Center, Smithsonian: *Narwhal: Revealing an Arctic Legend*
- Jason Fox, Graduate Researcher & Composer, Western Kentucky University: *Voices of the Arctic: Communicating Narratives of Climate Change through Choral Music*

**Chair:** Martha Cerny, Curator, Museum Cerny Inuit Collection, Bern, Switzerland

## SATURDAY, OCTOBER 20

### 18:00 – 19:00 CHARTING THE ARCTIC-GLOBAL INDIGENOUS DIALOGUE: INDIGENOUS GUARDIANSHIP AND SELF-GOVERNANCE; ECOSYSTEMS AND THRIVING COMMUNITIES

Organized by Nia Tero and Arctic Circle

Location: Akrafjall, Harpa Fourth Level

*Open consultative meeting*

**Chair:** Peter Seligmann, CEO, Nia Tero

### 18:00 – 19:30 ITALY AND THE ARCTIC: POLITICS, SCIENCE, BUSINESS

Organized by the Embassy of Italy

Location: Esja, Harpa Fifth Level

#### INTRODUCTION

- Alberto Colella, Ambassador of Italy to Norway and Iceland

#### SPEAKERS

- Antonello Provenzale, Italian National Council of Research (CNR): *The Scientific Activities and Results of the Dirigibile Italia Base in Svalbard*
- Ingrid Hunstadt, Italian National Institute of Geophysics and Volcanology (INGV): *The NARWHALS (Navigation in Arctic With GNSS High Accuracy Low power Solution) project*
- Maurizio Demarte, Commander, Italian Hydrographic Institute (IIM): *High North: The Italian Navy Arctic Marine Geophysics Joint Research Program*
- Donatella Giampaolo, e-GEOS: *COSMO-SkyMed Satellite Data with A.I Data Analysis in support of New Arctic Navigation Routes*

### 18:00 – 19:30 EMPOWERING SUSTAINABLE ARCTIC ENTREPRENEURS

Organized by Danish Technical University; University of Greenland;  
University of the Faroe Islands; College of the Atlantic (USA)

Location: Ríma B, Harpa Ground Level

#### SPEAKERS

- Jay Friedlander, Sharpe-McNally Chair of Green and Socially Responsible Business, College of the Atlantic: *The Abundance Cycle: An Entrepreneurship Framework Actualizing the UN Sustainable Development Goals*
- Hanne Thomasen, Special Advisor, DTU Space: *Soil-less Farming in Arctic Settlements: A Case of Student-driven Triple Bottom Line Entrepreneurship*
- Anne Lise Kappel, Head of Department of Economics and Business, Ilisimatusarfik, University of Greenland: *From Teaching Entrepreneurship to Working with Sustainable Entrepreneurship Projects in Higher Education*



## SATURDAY, OCTOBER 20

- *Experiences Developing a Public-Private Innovation*
  - Martin Mohr Olsen, PhD Student, Head of Centre for Innovation, The University of the Faroe Islands
  - Lau Øfjord Blaxekjær, Leader, University of the Arctic Thematic Network on Arctic Coastal Communities for Sustainability, The University of the Faroe Islands

### 18:00 – 19:30 PRESERVING THE BIODIVERSITY – EXPLORING NEW CONSERVATION PLANNING MODELS

Organized by the Government of Québec (Société du Plan Nord, Ministry of International Relations and of La Francophonie); Institut Nordique du Québec

Location: Háaloft, Harpa Eighth Level

#### INTRODUCTION

- Jean Lemire, Envoy for Climate Change, Northern and Arctic Affairs, Gouvernement du Québec (*Video Message*)

#### SPEAKERS

- Alexandre Baillargeon, Director, Société du Plan Nord: *The Development of a New Mechanism to Dedicate a part of the Territory Covered by the Plan Nord to Environmental Protection and Biodiversity Conservation*
- Louis Fortier, Director of Science and Innovation, Institut nordique du Québec: *State of the Science*
- Kaisu Mustonen, Head, Biodiversity Unit Snowchange Cooperative, Finland: *Challenges of Environmental Protection and Biodiversity Conservation – an International Perspective*
- Paul Crowley, Vice-president, Arctic, WWF Canada: *New Ideas and Environmental Protection Solutions*

**Moderator:** Robert Sauvé, Former CEO, Société du Plan Nord

### 18:00 – 19:30 TECHNOLOGY, OPEN SOURCE SOFTWARE SOLUTIONS AND COOPERATION - THE GLOBAL ARCTIC IN CRITICAL SECURITY STUDIES

Organized by the UArctic Thematic Network on Geopolitics and Security

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Matthaios Melas, PhD Candidate, Department of Geography and Earth Sciences, Aberystwyth University: *Environmental and Human Security in the Barents Region in the Context of Critical Security Studies*
- Rasmus Gjedssø Bertelsen, Professor, UiT – The Arctic University of Norway: *Interaction of International System and Technology for Arctic Security*
- Gerald Zojer, Researcher & PhD Candidate, Northern Institute for Environmental and Minority Law, University of Lapland: *Open Source*

## SATURDAY, OCTOBER 20

*Software Solutions as a Contribution to Human Security in a Digitalised Arctic*

- Gustav Pétursson, PhD Candidate, University of Lapland: *The 2005-2006 U.S.–Icelandic Base Negotiations: Lessons Learned for Defence Negotiations Between a Small and Large Power?*
- Lassi Heininen, Professor, University of Lapland & IIASA: *Stability vis-à-vis Security – Confidence-Building as Common Interest and Means for Environmental Protection and Sustainable Development*

### 18:00 – 19:30 THREE POLES ENVIRONMENT AND CLIMATE CHANGES

Organized by University Corporation for Polar Research (UCPR); Beijing Normal University; Institute of Tibetan Plateau Research, Chinese Academy of Sciences

Location: Flói, Harpa Ground Level

#### SPEAKERS

- Yao Tandong, Professor, Member, Chinese Academy of Sciences (CAS); Academician, Chinese Academy of Sciences; Co-Chair, Third Pole Environment (TPE); Director, CAS Center for Excellence in Tibetan Plateau Earth Sciences (CETES): *Introduction to the International Programme 'Three Poles Environment and Climate Changes (TPEC)*
- Cheng Xiao, Professor, Dean of College of Global Change and Earth System Science, Beijing Normal University: *Prospect of Satellite Mission for Three Poles*
- Xu Baiqing, Institute of Tibetan Plateau Research, Chinese Academy of Sciences: *Pan-TPE Environment Changes*
- Li Rongxing, Professor, Tongji University: *Advanced Remote Sensing Methods and Products for Three Poles Studies*
- Zhou Chunxia, Professor, Wuhan University: *Change Monitoring of Grounding line in Northwestern Greenland*
- Ding Minghu, Chinese Academy of Meteorological Sciences, China; Meteorological Administration: *The BC Aerosol Distribution and its Sources Along CHINARE Arctic Traverse*
- Li Xinwu, Professor, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences: *The Comparative Study on Global Environmental Change for High Mountain Asia, Arctic and Antarctic Using Remote Sensing Technology*
- Zhuoqi Chen, College of Global Change and Earth System Science, Beijing Normal University: *Calving Front Dynamics of Jakobshavn Glacier in Recent 30 Years*

#### CHAIRS

- Yao Tandong, Professor, Chair of Third Pole Environment (TPE), Institute of Tibetan Plateau Research, Chinese Academy of Sciences
- Cheng Xiao, Professor, Secretary General of University Corporation for Polar Research (China); Dean of College of Global Change and Earth System Science, Beijing Normal University

## SATURDAY, OCTOBER 20

### 18:00 – 19:30 SCOTLAND AND THE ARCTIC: ENCOUNTERS AND REPRESENTATIONS IN LITERATURE AND ART

Organized by the Vigdís Finnbogadóttir Institute of Foreign Languages, University of Iceland

Location: Culture House (Þjóðmenningarhúsið) – see map

#### SPEAKERS

- Ingibjörg Ágústsdóttir, Senior Lecturer in Literature, University of Iceland: *Arctic Encounters in Scottish Literature*
- Monica Germanà, Senior Lecturer, University of Westminster: *Sublime Mindscapes: Mythologised Other Places and the Creative Imagination in Mary Shelley's Frankenstein*
- Lizanne Henderson, Senior Lecturer in History, School of Interdisciplinary Studies, University of Glasgow: *Nineteenth Century Scottish Polar Explorers and their Observations of the Natural World*
- Jane Rushton, Independent Artist: *The Draw of the Arctic for Contemporary Scottish Artists: Inspirations and Incentives*

### 18:00 – 19:30 ALASKA SHOWCASE: ENERGY INNOVATION IN ALASKA

Organized by United States Senator Lisa Murkowski

Location: Silfurberg A, Harpa Second Level

#### SPEAKERS

- Janet Weiss, President, BP Exploration Alaska Inc.: *Drones, Data & Dimensions: Technological Innovation in the Arctic*
  - Natalie Hanson, Executive Director, Nuvista Light and Electric Coop
  - Janet Reiser, Executive Director, Alaska Energy Authority
  - Ethan Schutt, Chief of Staff, Alaska Native Tribal Health Consortium
- Chair:** Gwen Holdman, Director, Alaska Center for Energy and Power

## SATURDAY, OCTOBER 20

### CHINA NIGHT 19:45 – 21:00

RECEPTION FOR ALL ASSEMBLY ATTENDEES

Hosted by the Ministry of Foreign Affairs of the People's Republic of China

Location: Norðurljós Hall, Harpa Second Level

#### Welcome

- Jin Zhijian, Ambassador of the People's Republic of China to the Republic of Iceland

#### Remarks

- H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle
- Huang Xinchu, Executive Vice Chairman of the Standing Committee, Sichuan Provincial People's Congress

#### Performances by the Sichuan Art Delegation

- Face Changing of Sichuan Opera
- Kong Fu
- Chinese Magic and Ethnic Dances

---

### BREAKOUT SESSIONS 20:30-22:30

#### 20:30 – 22:00 STUDENTS ON ICE FOUNDATION RECEPTION

Organized by the Students on Ice Foundation

Location: Ríma A, Harpa Ground Level

#### SPEAKERS

- Geoff Green, Founder & President, Students on Ice: *Introductory Remarks*
- Josh Komangapika, SOI Alumnus 2018 Arctic Expedition
- Aurora Eide, SOI Alumnus 2018 Arctic Expedition

#### 21:00 – 22:30 ARCTIC FILM SERIES: INTO THE ARCTIC: EXPERIENCE THE NORTH LIKE NEVER BEFORE

Organized by the Embassy of Canada to Iceland; Campside Productions

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- Anne-Tamara Lorre, Ambassador of Canada to Iceland
- Cory Trépanier: Artist, Filmmaker, Explorer

**Chair:** Jeannette Menzies, Director, Knowledge Management and Engagement, Polar Knowledge Canada

## SATURDAY, OCTOBER 20

### 20:30 – 22:00 CURRICULUM DEVELOPMENT FOR THE GLOBALARCTIC

Organized by The GlobalArctic Project

Location: Flói, Harpa Ground Level

#### SPEAKERS

- Matthias Finger, Professor, EPFL: *How to Explain the Relationship between Earth System Dynamics and Arctic Changes?*
- Daria Gritsenko, Assistant Professor, University of Helsinki: *Large Infrastructure Development in the Arctic: Governance, Planning and Sustainability*
- Florian Vidal, PhD Candidate, Paris Descartes University: *The Global Arctic: Discussions and Thoughts about Interdisciplinary Research and teaching in the Anthropocene Era*
- Lassi Heininen, University of Lapland, IIASA, Professor University of Helsinki: *Teaching Geopolitics and Governance of the Arctic*

---

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

Location: Björtuloft, Harpa Fifth Floor

Open to all Assembly participants

---

# SUNDAY, OCTOBER 21

## PLENARY SESSIONS 09:00 – 11:00

Location: Silfurberg Hall, Harpa Second Level

### 09:00 – 09:10 REPORT FROM THE ARCTIC BUSINESS SUMMIT

- Heiðar Guðjónsson, Vice-Chair of the Arctic Economic Council

### 09:10 – 09:50 21<sup>ST</sup> CENTURY INFRASTRUCTURE FOR THE NORTH AMERICAN ARCTIC

#### KEYNOTE

- The Honourable Bob McLeod, Premier of the Northwest Territories

#### PANEL

- Scott Morey, Vice President, Human Resources, OP Trust, Canada
- Darrell Beaulieu, President and CEO, Denedeh Investments Incorporated, Yellowknife, NWT
- Clint Davis, CEO, North35, Capital Partners; Chair, Labrador Inuit Capital Strategy Trust (LICST), Nunatsiavut Group of Companies
- Hugh Short, CEO, Pt. Capital

#### CHAIRS

- Jessica M. Shadian, CEO, Arctic360
- Madeleine Redfern, Mayor of Iqaluit, Nunavut

### 09:50 – 10:30 THE FAROE ISLANDS AS A MODEL ARCTIC HUB

#### SPEAKERS

- H.E. Poul Michelsen, Minister of Foreign Affairs and Trade of the Faroe Islands
- Jan Ziskasen, CEO, Føroya Tele, Faroese Telecom
- Rúni M. Hansen, Chairman of the Board, Bakkafrost

Chair: Sigurður Ólafsson, Secretary General, West Nordic Council

### 10:30 – 10:45 REPORT: ITALY'S ENGAGEMENT IN THE ARCTIC

#### SPEAKER

- H.E. Carmine Robustelli, Special Envoy for the Arctic, Italy

Chair: H.E. Alberto Colella, Ambassador of Italy to Norway and Iceland

---

### 10:45 – 11:00 COFFEE BREAK

---

## BREAKOUT SESSIONS 11:00-12:00

### 11:00 – 12:00 MINIMISING THE FOOTPRINT OF ARCTIC RESEARCH

Organized by the European Polar Board (EPB) and INTERACT

Location: Háaloft, Harpa Eighth Level

#### SPEAKERS

- Brenda Konar, Associate Dean of Research, College of Fisheries and Ocean Sciences, University of Alaska Fairbanks: *Best Practices for Scientific Research Vessels Operating near Indigenous Communities*
- Birgit Njåstad, Senior Environmental and Policy Adviser, Environment and Mapping Department, Norwegian Polar Institute: *Environmental Protection and Management, Lessons from Antarctica*
- Hannele Savela, Transnational Access Coordinator, INTERACT, the International Network for Terrestrial Research and Monitoring in the Arctic: *Minimising Physical Field Presence by Virtual and Remote Access, and by Using Existing Data*
- Annette Scheepstra, Coordinator of the Arctic Centre, University of Groningen Netherlands: *Research Impacts on Arctic Communities*
- Elmer Topp-Jørgensen, Head of FARO Secretariat, Coordinator for INTERACT Station Managers' Forum: *Best Practice Guidelines for Research and Logistics, Sharing Resources, New Technologies*

**Chair:** Kirsi Latola, Chair, European Polar Board; Research Coordinator, Thule Institute, University of Oulu, Finland

### 11:00 – 12:00 STRATEGY OF THE NORTHERN FORUM – STRENGTHENING THE VOICE OF NORTHERN REGIONS

Organized by the Northern Forum

Location: Silfurberg A, Harpa Second Level

#### SPEAKERS

- Aleksandr Komissarov, Deputy Director of the Department of Subsoil Use and Natural Resources of the Khanty-Mansiysk Autonomous Okrug-Yugra
- Alexander Pilyasov, Professor, Director, Center for the Arctic and North America Assembly of the Russian Federation
- Anna Shishigina, Vice-Rector for Science and Innovations of the Graduate School of Innovation Management under the Head of the Republic of Sakha
- Ásthildur Sturludóttir, Vice-Chair of the Northern Forum from Northern Europe, Mayor of Akureyri, Iceland
- Elena Antipina, Director of the Arctic College of the Northern Nations of the Republic of Sakha
- Halla Björk Reynisdóttir, the President of the Akureyri city council, Iceland

## SUNDAY, OCTOBER 21

- Halldór Jóhannsson, Executive Director, Arctic Portal, Iceland
- Kristina Baiborodova, UIC Corporate Director of Arctic Business Relations
- Ksenia Shvidkaya, Consultant of the Department of International Cooperation of the Office for External Relations of the Khanty-Mansiysk Autonomous Okrug – Ugra
- Lars Kullerud, President, University of the Arctic
- Lyudmila Alferova, President, Public Organization “Rescue of Ugra” of the Khanty-Mansiysk Autonomous Okrug; Director of the budgetary institution of the Khanty-Mansiysk Autonomous Okrug – Ugra “Ethnographic open-air museum”
- Sargylana Ignatieva, Rector of the Arctic State Institute of Culture and Arts
- Sergey Filatov, Director of the Department of Subsoil Use and Natural Resources of the Khanty-Mansiysk Autonomous Okrug-Yugra
- Sergey Kungurtsev, Head of the Sector of International and Interregional Relations of the Organizational and Legal Department, Nenets Autonomous Okrug
- Stepan Kechimov, Vice-President of the Public Organization “Rescue of Ugra” of the Khanty-Mansiysk Autonomous Okrug – Ugra

**Moderator:** Mikhail Pogodaev, Executive Director of the Northern Forum Secretariat

### 11:00 – 12:00 RELEASE OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE SPECIAL REPORT ON GLOBAL WARMING OF 1.5 °C: FROM ARCTIC IMPACTS TO GLOBAL RESPONSE

Organized by WWF Arctic Programme

Location: Norðurljós, Harpa Second Level

#### SPEAKERS

- Philip B. Duffy, President, Executive Director, Woods Hole Research Center: *Meeting the 1.5°C Goal: Carbon Budgets, Emissions, and the Need for CO<sub>2</sub> Removal*
- Jannie Staffansson, Advisor, Arctic and Environment Unit, Saami Council: *Reflections from an Arctic in Need of a Global Response*
- Hans-Otto Poertner, Senior Scientist, Section Head, Alfred Wegener Institut, & Co-Chair of IPCC WG II: *The Arctic in light of IPCC's Special Report on Global Warming by 1.5 °C*
- Marianne Kroglund, Chair, Arctic Monitoring and Assessment Programme (AMAP): *Climate Change and the Future Arctic – the Choice is Ours*

**Chair:** Stephen Cornelius, Member, WWF's International Climate & Energy Leadership Team and Leads on 1.5 °C and the IPCC for WWF



## SUNDAY, OCTOBER 21

### 11:00 – 12:00 BIOTIC INDICATORS OF THE ARCTIC ENVIRONMENTAL CHANGES

Organized by the Polish Polar Consortium, Institute of Geography and Regional Development at University of Wrocław, Institute of Geography and Spatial Management at Jagiellonian University

Location: Ríma A, Harpa Ground Level

#### SPEAKERS

- Stéphane Boudreau, Professor, Université Laval, Centre for Northern Studies (CEN), Québec, Canada: *Impacts of Climate Change on the Dynamics of Terrestrial Ecosystems in Nunavik (Subarctic Québec)*
- *Influence of Extreme Climatic Conditions on Growth Rings of Low Arctic Shrubs*
  - Magdalena Opała-Owczarek, PhD, University of Silesia in Katowice, Department of Climatology, Sosnowiec, Poland
  - Piotr Owczarek, Associate Professor, University of Wrocław, Institute of Geography and Regional Development, Wrocław, Poland
- Ingibjörg Svala Jónsdóttir, Professor, Faculty of Life and Environmental Sciences, University of Iceland: *Vegetation and Ecosystem Responses to Climate Warming in the High Arctic*
- Wiesław Ziaja, Professor, Institute of Geography and Spatial Management, Jagiellonian University, Krakow, Poland: *Increase in Biodiversity after Glacial Recession in the SE Spitsbergen Coast*
- Bogdan Zagajewski, Associate Professor, Department of Geoinformatics, Cartography and Remote Sensing, University of Warsaw, Poland: *Spectral Properties of Selected High-Arctic Plants*

#### CHAIRS

- Piotr Owczarek, Professor, Institute of Geography and Regional Development, University of Wrocław, Poland
- Wiesław Ziaja, Vice-President, Polish Polar Consortium; Professor, Institute of Geography and Spatial Management Jagiellonian University, Krakow, Poland

### 11:00 – 12:00 RESTORING ARCTIC ICE WITH STRATEGICALLY-PLACED REFLECTIVE SAND

Organized by Ice911 Research

Location: Viðey, Harpa Second Level

#### SPEAKERS

- Leslie Field, Founder & CEO, Ice911: *Restoring Arctic Ice with Strategically-Placed Reflective Sand*
- Roman Decca, Strategy and Engineering, Ice911: *Restoring Arctic Ice with Strategically-Placed Reflective Sand*

## SUNDAY, OCTOBER 21

### 11:00 – 12:00 8BOXES: PUBLIC PLAZA ART INSTALLATIONS TO CONNECT THE PEOPLE OF THE CIRCUMPOLAR NORTH

Organized by The Anchorage Museum

Location: Kaldalón, Harpa Ground Level

#### SPEAKERS

- Bruce Farnsworth, Project Organiser: *The 8Boxes Project Unveiled*
- John Hirst, Project Organiser: *The 8Boxes Project Unveiled*
- Alexey Glukhob, 8Boxes Art Lead for Russia
- Andrey Kovalov, 8Boxes Art Lead for Russia

### 11:00 – 12:00 HUMAN MOBILITY IN ARCTIC REGIONS: THE CASE OF NORTHERN ICELAND

Organized by the University of Akureyri

Location: Ríma B, Harpa Ground Level

#### SPEAKERS

- Markus Meckl, Professor, University of Akureyri: *Immigration in Northern Iceland*
- Unnur Dís Skaptadóttir, Professor of Anthropology, University of Iceland: *Migrants, Work and Belonging in Iceland*
- Bergsveinn Þórsson, Doctoral Research Fellow, University of Oslo: *When Matter Becomes a Monster: On Mobility of Material in the Anthropocene*

### 11:00 – 12:00 THE VOICE OF THE YOUTH AT THE ARCTIC CIRCLE 2018

Organized by Ungmenna-Húsið Akureyri

Location: Flói, Harpa Ground Level

Young people (16+) will share their thoughts on issues relevant to life in the Arctic.

### 11:00 – 12:00 ALASKA SHOWCASE – SCIENTIFIC COOPERATION

Organized by United States Senator Lisa Murkowski

Location: Björtuloft, Harpa Fifth Level

#### SPEAKERS

- Cathy Cahill, Director, Alaska Center for Unmanned Aircraft Systems Integration, UAF
- Lori Parrott, Manager of Atmospheric Sciences, Sandia National Labs: *Arctic Earth Systems Research at Sandia National Laboratories*
- Liza Mack, Interim Executive Director, Aleut International Association: *CONAS: Community Based Research in Arctic Indigenous Communities*
- Fran Ulmer, Chair, U.S. Arctic Research Commission

**Chair:** Larry Hinzman, President, International Arctic Science Committee;  
Vice-Chancellor for Research, University of Alaska Fairbanks

## SUNDAY, OCTOBER 21

### 11:00 – 12:00 THE VALUE OF ARCTIC MARINE ECOSYSTEM SERVICES

Organized by the University of Iceland; University of Vermont; Norwegian University of Life Sciences

Location: Esja, Harpa Fifth Level

#### SPEAKERS

- Tom Barry, Executive Secretary, Conservation of Arctic Flora and Fauna (CAFF) Working Group of the Arctic Council: *Arctic Ecosystem Services*
- Laura Malinauskaite, PhD Candidate, University of Iceland: *Economic Valuation of Ecosystem Services of Whales in Faxaflói Bay*
- Ståle Navrud, Professor, Norwegian University of Life Sciences: *Valuing Marine and Coastal Ecosystem Services in Arctic Areas for Policy Use*
- David Cook, Post-Doctoral Researcher, University of Iceland: *Classifying and Valuing Ecosystem Services Sourced from Whales*
- Joe Roman, Research Associate Professor, University of Vermont; Fulbright-NSF Arctic Research Scholar, University of Iceland: *Assessing Regulation and Supporting Services Derived from Whales*

### 11:00 – 12:00 HOW CAN ENVIRONMENTAL MONITORING IN THE HIGH-ARCTIC CONTRIBUTE TO SOCIETY

Organized by Svalbard Integrated Arctic Earth Observing System (SIOS)

Location: Skarðsheiði, Harpa Third Level

#### SPEAKERS

- Heikki Lihavainen, Director, SIOS: *SIOS – an International Collaboration to Create a Regional Observing System for Arctic Earth System Science*
- Þorsteinn Gunnarsson, Chair, Sustaining Arctic Observing Networks (SAON): *SIOS as an Important Contributor to SAON*
- Shridhar Jawak, Remote Sensing Officer, SIOS: *Giving Added Value Through Integration of Data*
- Elizabeth Orr, Member of the Editorial Board, State of Environmental Science in Svalbard (SESS) Report: *The SESS report – Setting the Stage for Future Earth System Science in Svalbard*
- JC Gallet, Researcher, Norwegian Polar Institute: *How to Integrate the Different Earth System Components in Svalbard Within SIOS: The Natural Example and Crucial Role of Snow*

## SUNDAY, OCTOBER 21

### 11:00 - 12:00 THE PACIFIC-ARCTIC PARTNERSHIP FOR 21ST-CENTURY FISHERIES

Organized by Arctic Circle, Conservation International and Nia Tero

Location: Akrafjall, Harpa Fourth Level

*Speakers from Pacific Island States, delegates of the Fisheries Exchange and representatives from Arctic States and Arctic Fishing Sectors*

#### DIALOGUE

#### CHAIRS

- Grímur Valdimarsson, Former Director, Fish & Industry Division, UN Food & Agriculture Organization (FAO)
- Sue Taei, Executive Director, Conservation International New Zealand

---

## NETWORKING LUNCH 12:00 - 12:45

---

### 12:00 - 12:45 MEETING OF THE ORGANIZING PARTIES OF THE THIRD POLE FORUM

Organized by Arctic Circle, Nia Tero, Conservation International, Institute of Tibetan Plateau Research (ITPS), Chinese Academy of Sciences (CAS), and Third Pole Environment (TPE)

Location: Stemma, Harpa Ground Level

*By Invitation Only*

---

## PLENARY SESSIONS 12:45 - 15:00

Location: Silfurberg Hall, Harpa Second Level

---

### 12:45 - 13:30 DEVELOPING GREENLAND THROUGH RESEARCH

#### SPEAKERS

- H.E. Ane Lone Bagger, Minister of Foreign Affairs, Government of Greenland
- Jens K. Lyberth, Director for Corporate Relations, Royal Greenland

**Chair:** Malene Juul Simon, Head of Department, Greenland Climate Research Centre

## SUNDAY, OCTOBER 21

### 13:30 – 14:15 FAITH IN THE TRANSFORMATION OF SOCIETIES AND LIFESTYLES; STEWARDSHIP OF THE ARCTIC AND THE EARTH

#### PANEL

- Antje Jackelén, Archbishop of Uppsala, Primate of Sweden, Church of Sweden
- Tapio Luoma, Archbishop of Turku, Evangelical Lutheran Church of Finland
- Helga Haugland Byfuglien, Bishop Preses, Primate of the Church of Norway
- Agnes M. Sigurðardóttir, Bishop of Iceland, National Church of Iceland
- Jógvan Fríðriksson, Bishop of the Faroe Islands, Church of the Faroe Islands

**Chair:** Ögmundur Jónasson, Former Minister of Justice and Church of Iceland

### 14:15 – 14:30 ARCTIC SCIENCE MINISTERIAL COOPERATION – THE WAY FORWARD

#### SPEAKER

- H.E. Lilja Dögg Alfreðsdóttir, Minister of Education, Science and Culture, Iceland

**Chair:** H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle

### 14:30 – 15:00 TOGETHER FOR A SUSTAINABLE ARCTIC; TOWARDS ICELAND'S 2019-2021 ARCTIC COUNCIL CHAIRMANSHIP

#### SPEAKER

- H.E. Guðlaugur Þór Þórðarson, Minister for Foreign Affairs, Iceland

**Chair:** H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle

---

### 15:00 – 15:30 COFFEE BREAK

---

## 15:30 – 17:30 ARCTIC FILM SERIES

### THE SUPERPOWERS OF THE BEAR: PRE-RELEASE SCREENING

Organized by Ministry of Foreign Affairs of France

Location: Kaldalón, Harpa Ground Level

*Directed by Thierry Robert and Remy Marion*

*Produced by Arte France, Le Cinquième Rêve and Pôles D'Images*

*Q&A with Dr. Etienne Lefai, Research Scientist at the French National Institute for Agricultural Research (INRA)*

# MONDAY, OCTOBER 22

## POST-EVENT

### 16:30 – 18:30 FROM THE ARCTIC TO THE UNIVERSE

Location: China-Iceland Arctic Science Observatory (CIAO), Kárhóll, Píngeyjarsveit, North Iceland

*Open House celebrating the beginning of scientific activities and observations at the China-Iceland Arctic Science Observatory (CIAO)*

#### WELCOME

- Hallgrímur Jónasson, Director, RANNÍS, the Icelandic Centre for Research

#### SPEECHES

- Huigen Yang, Director-General, Polar Research Institute of China (PRIC)
- H.E. Lilja Dögg Alfreðsdóttir, Minister of Education, Science and Culture, Iceland
- Jin Zhijian, Ambassador of the People's Republic of China to the Republic of Iceland
- Larry Hinzman, President, International Arctic Science Committee (IASC)
- H.E. Ólafur Ragnar Grímsson, Chairman Arctic Circle

*Ribbon-cutting*