

## Arctic Circle 2017 Assembly: session “Arctic Climate Predictions: Pathways to Resilient, Sustainable Societies (ARCPATH)”, October 14<sup>th</sup>, Reykjavík, Iceland

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Where: Harpa Concert Hall and Conference Center

Registration: <http://www.arcticcircle.org/>

### *Session Description:*

Panel introducing and discussing the NordForsk-funded Nordic Centre of Excellence *Arctic Climate Predictions: Pathways to Resilient, Sustainable Societies (ARCPATH)* - a direct continuation of the NordForsk project *Impacts of Sea-Ice and Snow-Cover Changes on Climate, Green Growth, and Society (GREENICE)*. The scope and aims of the session reflect those of the projects: to supply new knowledge on Arctic issues by combining improved regional climate predictions with enhanced understanding of environmental, societal, and economic interactions. This involves extensive cross-disciplinary collaboration encompassing: climatology (regional and global modelling; dynamic downscaling; historical climatology); environmental science; environmental economics; oceanography and cryosphere research; marine and fisheries biology; fisheries management; anthropology; governance systems; human eco-dynamics; and traditional ecological knowledge. Drawing on these separate but interlinking disciplines will ensure the foundation of a truly synergistic Centre of Excellence where the overarching goal is to foster responsible and sustainable development in northern communities.

### *Presentation Titles:*

- \* *Global and Arctic Climate Predictions*. Noel Keenlyside, Geophysical Institute, University of Bergen.
- \* *Syntheses of Arctic Climate and Environmental Change and Human Eco-Dynamics*. Astrid Ogilvie, Stefansson Arctic Institute and INSTAAR; Leslie King, Royal Roads University.
- \* *Sea Change in North Atlantic Arctic Coastal Communities*. Niels Einarsson, Stefansson Arctic Institute.
- \* *Climate, Cetaceans and Tourism*. Marianne Rasmussen, University of Iceland.
- \* *Out of Ice: Sea Ice and Northern Communities*. Elizabeth Ogilvie, Environmental Artist.

Moderator: Brynhildur Daviðsdóttir, University of Iceland.

### *Confirmed Speakers:*

- \* Noel Keenlyside, climate scientist and Professor at the Geophysical Institute, University of Bergen and Bjerknes Centre for Climate Research. He has 20 years of research experience and has published more than 80 scientific articles on the climate variability, climate prediction, and climate change of many regions of the globe, including the Arctic, North Atlantic and Europe. He leads the NordForsk GREENICE project, and is a Co-PI on the NordForsk Nordic Centre of Excellence ARCPATH project. Currently, he serves on the World Climate Research Programmes CLIVAR Climate Dynamics and Atlantic Regional Panels.
- \* Astrid Ogilvie, climate historian and human ecologist. Her overarching career goal is to build bridges between the arts, humanities, and the natural sciences, in order to foster interdisciplinary cross-fertilization. Her current research interests focus primarily on climatic and socio-economic changes in Arctic coastal communities and she co-leads the Nordic Centre of Excellence project *Arctic Climate Predictions: Pathways to Resilient, Sustainable Societies (ARCPATH)*. She is the author of some 100 scientific papers and two edited books. She is a Senior Affiliate Scientist at the Stefansson Arctic

Institute and a Fellow of the Institute of Arctic and Alpine Research (INSTAAR) at the University of Colorado.

- ✳ Leslie King, Professor of Environment and Sustainability at the Canadian Centre for Environmental Education, Royal Roads University. She holds degrees from the University of British Columbia, York University, University of Toronto and the London School of Economics. King was faculty at the University of Vermont, the Founding Chair of Environment at the University of Northern British Columbia, Founding Dean of the Clayton H. Riddell Faculty of Environment, Earth and Resources at the University of Manitoba and Vice President Academic at Vancouver Island University. Recent research projects include *Protected Areas and Poverty Reduction in Africa and Canada* and *Clam Gardens in BC: Eco-cultural Restoration*.
- ✳ Niels Einarsson, anthropologist and Director of the Stefansson Arctic Institute in Akureyri, Iceland. His main professional interests include the social, cultural and environmental dimensions of marine resource governance; climate change, whale watching and whaling in Iceland, and North Atlantic Arctic sustainability and social change issues. He has led and participated in numerous international research and scientific assessment projects with a focus on the circumpolar region, including co-editing the first Arctic Human Development Report, and as Co-PI on the current ARCPATH and GREENICE (<https://greenice.b.uib.no/>) projects, with the primary goal of investigating environmental and social change in Arctic coastal communities.
- ✳ Marianne Rasmussen, leading specialist in marine-mammal research with a particular interest in white-beaked dolphins and blue whales. She directs the University of Iceland's Research Centre in Húsavík. The Centre directs and supports marine biology research in cooperation with universities and other institutes, in Iceland and abroad. Dr Rasmussen is a Co-PI in the ARCPATH project and leads the work package "Climate, Socio-Ecological Systems, Cetaceans and Tourism".
- ✳ Elizabeth Ogilvie, one of the foremost Scottish artists of her generation. Her work fuses art, architecture, science and water/ice as a medium. Working internationally, she highlights one of the world's most challenging problems through large-scale solo projects. She has been working on the project *Out of Ice* for several years, conducting field research and collaborating with residents in northwest Greenland. The associated book will be published shortly by Black Dog Publishing. She has also taught at the University of Edinburgh and has the rare distinction of simultaneously being acknowledged for her academic credentials, interdisciplinary networks and research. See [www.outoffice.org.uk](http://www.outoffice.org.uk); [www.elizabethogilvie.com](http://www.elizabethogilvie.com).
- ✳ Brynhildur Daviðsdóttir, Professor of Environment and Natural Resources at the University of Iceland and Director of the University of Iceland Arctic Initiative. She has extensive teaching, research and consulting experience with a focus on energy transitions, ecosystem services, sustainability indicators and climate change mitigation and adaptation. She has served on government appointed committees linked to natural resources and the environment. In addition to her academic duties she is a board member of several Icelandic companies and foundations, including the position of chairman of the board of Reykjavik Energy and is also on the board of the Climate Research Foundation.