

# NORTH ATLANTIC OPPORTUNITIES

## PROGRAM

Hilton Reykjavík Nordica Hotel  
Reykjavík 18-19 May, 2010



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## Who?

North Atlantic Opportunities is arranged by Nordic Atlantic Cooperation (NORA).

NORA is an intergovernmental agency financed by the Nordic Council of Ministers. Its activities are supplemented by grants from within the various collaborating regions: the Faroe Islands, Greenland, Iceland and the west coast of Norway. NORA operates under the aegis of the Nordic Council framework, which fosters Nordic goals and values both regionally and internationally. This framework enables NORA to stimulate and facilitate transnational collaboration via a project-based platform.

North Atlantic Opportunities is made possible by a special grant from a Nordic Council of Ministers allocation with the purpose of facilitating a closer Nordic cooperation with the neighbours to the west.

## What?

Under the joint headline, NORTH ATLANTIC OPPORTUNITIES, NORA hosts a half-day conference combined with two parallel project development seminars with one common goal: to explore and seize the opportunities for collaboration that exist among countries that share not only their geographical location around the North Atlantic Ocean, but also have a number of similar challenges and opportunities.

## Why?

It is a Nordic objective to strengthen the North Atlantic cooperation. International challenges demand transnational solutions, and in the North Atlantic it is natural to incorporate the neighbouring regions of Canada, Scotland and Northern Ireland into projects forming the future through a common endeavour.

A closer cooperation with our neighbours to the west is obvious, as these countries and regions face many of the same challenges and opportunities facing the NORA Region. These issues include, for example, out-migration from sparsely populated coastal communities; the need for new solutions regarding the environment, energy and tourism; research in and the exploitation of marine resources and aquaculture, and the possible extraction of raw materials like hydrocarbons and minerals.



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## Program

### DAY ONE TUESDAY 18th OF MAY

8.30 Registration

9.00 Opening of conference

**Mrs. Katrín Júlíusdóttir**, Minister of Industry, Energy and Tourism in Iceland, officially opens the conference and shares her thoughts on the future transatlantic cooperation

**Mrs. Birna Lárusdóttir** will be the moderator during the conference

9.15 **Mr. Shawn Skinner**, Minister for Innovation, Trade and Rural Development, Newfoundland and Labrador, presents an Atlantic Canadian perspective on transatlantic cooperation

9.30 Perspectives on Transatlantic Cooperation – from a Nordic Angle

**Mr. Tryggvi Felixson**, Head of Division, Nordic Council of Ministers

9.45 Coffee break

10.10 Collaboration around the North Atlantic Rim: Lessons from Atlantic Canada

**Mr. Rob Greenwood**, Ph.D., director of the Harris Centre, Memorial University of Newfoundland

10.30 Perspectives on Transatlantic Cooperation – within the Marine and Aquaculture Sector

Panel participants:

- **Mrs. Rannveig Björnsdóttir**, Matis, Island
- **Dr. Steven Armstrong**, Genome Atlantic, Nova Scotia, Canada
- **Mr. Allan Drumm**, Marine Institute, Ireland



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- 11.15 Perspectives on Transatlantic Cooperation – within Renewable Energy  
 Panel participants:  
 - **Mr. Ólavur Gregersen**, Bitland, Faroe Islands  
 - **Mr. Jens-Peter Bak Henriksen**, Nukissiorfiit (the national energy company in Greenland), Greenland  
 - **Mr. Walter Parsons**, Nalcor, New Foundland and Labrador, Canada
- 12.00 Perspectives on Transatlantic Cooperation – from the point of view of a project funding agency  
  
 Nordic agencies: **Mr. Lars Thostrup**, NORA, **Mrs. Heidi Hautajärvi**, Nordic Energy Research, and **Mrs. Kari Winqvist**, Nordic Innovation Center  
 Canadian Agencies: **Mr. Ken Martin**, ACOA, and **Mr. Johannes Larsen**, NRC-IRAP
- 12.30 End of conference part of North Atlantic Opportunities
- LUNCH**
- 13.30 The Two Parallel Project Seminars start  
  
 The facilitators in the theme “Renewable Energy Solutions in Sparsely Populated Areas” will be **Mr. Vilhjálmur Nielsen** and **Mr. Andreas Flensburg**  
 The facilitator in the theme “Innovation in the North Atlantic Aquaculture Sector” will be **Mrs. Sjöfn Sigurgísladóttir** and **Mr. Leif av Reyni**
- 13.30-15.00 Identification of the local challenges and opportunities: Presentation  
  
 This session will start out with a presentation round focusing on the possibilities for collaboration, which each participant is especially interested to investigate during the seminar. In addition, the presentation should offer a short introduction to the companies or institutions, which the participant represents.



15.00-16.30 Identification of project ideas and mutual interest: Brainstorm

Taking point of departure in the panel debate during the conference and the presentation round in the seminar, this session will focus on concrete project ideas and mutual interest.

17.45 Bus will leave from the hotel

18.00-19.30 The Embassy of Canada and NORA will co-host a reception

Venue: The official residence of the Canadian Embassy  
Skildinganes 50, 101 Reykjavik

19.40 Bus will leave from the residence of the Canadian Embassy

20.00- Conference Dinner at Restaurant Perlan

#### **DAY TWO WEDNESDAY 19TH OF MAY**

9.00-11.30 The concrete projects. Discussion in plenum and in smaller groups on the concrete project ideas from the first day. Preliminary project descriptions will be finalized

11.30-12.00 Joint closing session with round up of the two seminars



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## Who Is Who?

### Facilitators

*The conference-part of North Atlantic Opportunities will be moderated by Birna Lárusdóttir.*

**Birna Lárusdóttir** has a degree in broadcast journalism from the University of Washington in Seattle. She worked in the field of Icelandic radio and TV for a number of years, both as a foreign correspondent in Norway and as a reporter in Iceland. For the past twelve years she has focused on local and regional politics, mostly as elected chairman of the city council of Ísafjörður municipality on the coast of West Iceland, the Westfjords. The region is among the country's most promising areas for aquaculture, especially cod farming. Companies, institutions and local governments in the region are cooperating to maximize the results of cod farming as well as experimenting with farming of other species. While the future of aquaculture in the Westfjords looks bright, energy resources in the region are both limited and unstable. Both conference topics are therefore of great interest to Birna Lárusdóttir as a local politician from the Westfjords.

*The project development seminar on renewable energy solutions in sparsely populated areas will be facilitated by Vilhjálmur Nielsen and Andreas Flensborg.*

**Vilhjálmur Nielsen** is an energy planner and holds a Ph.D. in External Environmental Costs of Energy. He has 15 years of experience in managing and working on national and international energy projects. The projects include national energy planning, policy development and issues relating to financing and promotion of energy savings and renewable energy technologies. In recent years he has been working on identification of innovative transatlantic cleantech projects and forming of clusters that can develop them. Vilhjálmur Nielsen is currently working on establishing Kambsdalur Renewable Energy Centre that will act as a knowledge and demonstration centre on renewable energy in the Faroe Islands. The centre is currently involved in documentation and promotion of solar thermal energy in cooperation with Greenland, utilization of wind-hydrogen systems in cooperation with Shetland and in the NPP-project SMALLEST that establishes a renewable energy advisory service dedicated to sparsely populated areas.

**Andreas Flensborg** is a research assistant at UNEP Risø Centre (URC) and M.Sc. in Management of Innovation and Business Development. He has experience in project management and project development, with a focus on commercialization processes and has worked for various start-up companies. During his time at URC he has been engaged in NordSESIL (Nordic Network for Sustainable Energy Solutions in Isolated Locations), which focuses on nurturing new sustainable energy projects, collaboration and knowledge sharing in the Nordic and Arctic region. Prior to his current job he has experience with



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conducting, facilitating and organizing output-oriented workshops and seminars, i.e. last year's workshop on "Innovative Trans-Atlantic Cleantech Projects".

*The project development seminar on innovation in the North Atlantic Aquaculture Sector will be facilitated by Sjöfn Sigurgísladóttir and Leif av Reyni.*

**Sjöfn Sigurgísladóttir** has been the Chief Executive Officer of Matís Ltd. from 2007 and is also a professor at the University of Iceland. Matís is an independent Food and Biotech research institute located in 7 different cities and towns in Iceland and is responsible for all activities related to food processing, food products, food safety and biotechnology. Matís has 100 employees that all are working with research and development for the food industry, fisheries and aquaculture. Prior to Matís, Sjöfn Sigurgísladóttir was the Director of the Icelandic Fisheries Laboratories, dealing with fish processing and quality. Sjöfn Sigurgísladóttir holds a B.Sc. in Food Science from the University of Iceland, a M.Sc. in Food Science and Technology from DalTec University in Canada and is also a Ph.D. from the University of Bergen, Norway.

**Leif av Reyni** is a Fresh Water Manager at the major Faroese aquaculture company, Bakkafrost, where he is responsible for the salmon hatcheries. He has previously served as Production Manager and later General Manager (CEO) at P/F Vestlax until merger with Bakkafrost. Bakkafrost is the leading Faroese producer and exporter of salmon products and is engaged in creating an aquaculture characterized by sustainable growth. Leif av Reyni has many years of experience working in different areas within the fishing industry. He holds a B.Sc. in Aquaculture from Sogndal University College in Norway and a M.Sc. in Aquaculture from Stirling University in Scotland. He serves at the Board of the Faroese Aquaculture Research Station and teaches at the Fishery College.

## Presenters and Panelists

**Katrín Júlíusdóttir** was appointed Minister of Industry, Energy and Tourism in May 2009. She has been a member of Althingi, the Icelandic parliament, for the Social Democratic Alliance (SDA), representing the Southwestern Constituency, since 2003. She sat on the Althingi's Committee on Industry from 2005 to 2009, and was its chairman from 2007. She has served as a member in several other parliamentary committees, most recently the Committee on the Environment and the Committee on Education, Science and Culture. Katrín Júlíusdóttir has studied Anthropology at the University of Iceland from 1995 to 1999 and attended a course in project management in software production at the University of Iceland's Institute of Continuing Education in 2001. She worked as a project manager and consultant at the software house and consultancy Inn Ltd before she was elected to Althingi.



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**Shawn Skinner** was elected as a Progressive Conservative Member of the House of Assembly for the district of St. John's Centre in 2003. On October 31, 2008, he was appointed Minister of Innovation, Trade and Rural Development and Minister Responsible for the Rural Secretariat. He has also served as Parliamentary Assistant to the Premier, Minister of Human Resources, Labour and Employment, Minister responsible for Newfoundland and Labrador Housing Corporation, Minister Responsible for Persons with Disabilities, and Minister Responsible for the Labour Relations Agency. Prior to entering provincial politics, Shawn Skinner served as a Municipal Councilor in the City of St. John's and worked primarily in the field of adult education and skills training. Shawn Skinner has attended Memorial University, Cabot College and St. Francis Xavier University earning a Diploma in Applied Arts and a Certificate in Adult Education.

**Tryggvi Felixson** has served as Head of Department in the Nordic Council of Ministers for the last four years, currently for the Department of Culture and Resources. Prior to his current position, Tryggvi Felixson has worked as the managing director of Landvernd, an Icelandic environmental NGO, and for the Icelandic Government in the Ministry of Finance and the Ministry for the Environment as well as the Central Bank of Iceland. He has also served as a senior advisor at the secretariat for the Nordic Council of Ministers. Tryggvi Felixson has a degree in Resource Economics from the University of Massachusetts as well as a degree in Social Studies from the University of Oslo. He has published a number of articles concerning resource managements, economics, nature conservation and environmental protection.

**Rob Greenwood** is the founding Director at the Leslie Harris Centre of Regional Policy and Development at Memorial University of Newfoundland, which coordinate and facilitate the University's educational, research and outreach activities in the areas of regional policy and development. He is also currently serving as Acting Director of Memorial's International Centre. He has taught, consulted, published and presented extensively on community economic and regional development, strategic economic planning, sectoral and cluster development and knowledge mobilization. His past experience counts among other things operating his own consulting business and serving as Director and Assistant Deputy Minister of Policy in Economic Development departments in Newfoundland and Labrador and in Saskatchewan. He was Newfoundland's representative on the International Advisory Board of the North Atlantic Islands Program and has been a co-editor on 'Competing Strategies of Socio-Economic Development for Small Islands' (1998) and 'Remote Control: Lessons in Governance for and from Small, Insular and Remote Regions' (2009). He holds a Ph.D. in Industrial and Business Studies from the University of Warwick.

**Rannveig Bjørnsdóttir** is Group Leader of Aquaculture at Matís and an Associate Professor at the University of Akureyri at the Faculty of Natural Resource Sciences. Matís is an independent Food and Biotech research institute working with research and development for the food industry, fisheries and aquaculture. Rannveig Bjørnsdóttir is an experienced project manager and has over 15 years of experience collaborating with the fish farming and fish & seafood processing industries in Iceland as well as within the Nordic countries. She



has many years of experience in administration of mainly Icelandic but also Nordic and EU scientific projects. At the moment Rannveig Björnsdóttir is engaged in the Matís project BASECOD, that aims to analyze the situation, objectives and processes for the production of cod. By bringing together key players involved in fish farming in the Nordic countries the project seeks to present strategies on how to improve the production.

**Steve Armstrong** is President and CEO at Genome Atlantic in Nova Scotia. Steve Armstrong's career to date has encompassed a rare mix of science and business. He completed a Ph.D. in Pharmacology at Dalhousie University in 1992, after which he worked as a Research Associate with the Ontario Cancer Treatment and Research Foundation and McMaster University. Thereafter, he joined the National firm of CanTox Inc. to provide consulting support to both local and national clients in the context of regulatory approvals within Health Canada and the United States FDA. He served as the Director of the Life Sciences Industry Partnership at the Nova Scotia Innovation Corporation from 1998 to 2001, in parallel with supporting the establishment and incorporation of Genome Atlantic in June of 2000. Since that time, he has served as Genome Atlantic's Chief Scientific Officer and Vice-President Business Development, and was appointed President in April 2007. The Genome Atlantic Team is proud to have enabled nearly \$70 million CDN in genomics (gene discovery) research spanning many sectors, but with a particular focus on aquaculture.

**Alan Drumm** is a member of the Marine Institutes Aquaculture team in Ireland. Having spent some years with Marine Harvest Ireland he moved to the Salmon Research Agency. In 1999 the Salmon Research Agency was assimilated into the expanding Marine Institute. In 2003 he became Irish Co-ordinator of the INTERREG IIIC AquaReg RFO Programme. He is also Aquaculture Liaison Officer and Project Co-ordinator PREVENT Escape (FP7) project that works with assessing the causes and developing measures to prevent the escape of fish from sea-cage aquaculture. Alan Drumm co-ordinates and develops Aquaculture projects on behalf of the Marine Institute. In particular his work revolves around areas such as new species development, offshore aquaculture and promotion of the development of sustainable aquaculture in Ireland's coastal fringes.

**Ólavur Gregersen** is M.Sc. in Business Administration, Economics and International Trade from Aarhus, Denmark. Entrepreneur since 1993 and co-founder of companies within textile, telecom, ICT, education, tourism, renewable energy and food business. Before, Ólavur Gregersen was Business Development Adviser for Italian oil & gas company Eni (former Agip) with responsibility to contribute to a diversification of the Faroese economy, and at the same time develop new export opportunities in the Faroese business community. Prior to that, he was leading a non-profit joint venture organisation between the Faroese Government and the Danish TIC Denmark providing information and consulting services to the Faroese Industry. He is the general manager of the Bitland Enterprise, which in 2008 initiated the Trans Atlantic



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Climate Conference in Faroe Islands followed by the Blue Green Future with the objective of initiating Trans Atlantic cleantech projects.

**Jens-Peter Bak Henriksen** currently holds a position as development adviser in the development department of Nukissiorfiit, the national energy company in Greenland. He has worked with renewable energy resources and their storage since 2005. Jens-Peter Bak Henriksen has been with Nukissiorfiit since 1997 holding positions as planner and project manager where he among other things works with renewable energy sources and green transport solutions. Jens-Peter Bak Henriksen is on the board of the North Atlantic Hydrogen Association (NAHA), and is also a member of the Greenlandic Regional Advisory Group (RAG) to the Northern Periphery Programme.

**Walter Parsons** is a Senior Business Development Engineer at Nalcor Energy, a Crown corporation under the Government of Newfoundland and Labrador. Nalcor manages the province's interests in the energy sector, including hydroelectric and wind power, the Bull Arm fabrication facility, and various offshore oil and gas interests. Walter Parson's role includes expanding the corporation's activities in research and development and supporting the Business Development division on a broad range of technical assessment and feasibility issues across the wind power and alternate energy sectors. He is an advisor on energy marketing issues, including open access transmission and electricity market trends in North America. Prior to joining Nalcor Energy, Walter Parson worked in business development for ten years in the software industry.

**Ken Martin** is the Director of Enterprise Development in the Atlantic Canada Opportunities Agency (ACOA) in the Newfoundland and Labrador Region. He joined ACOA, the Government of Canada's lead agency for economic development in the Atlantic Region, in 1991. Following progressive roles within ACOA as a commercial Account Manager, Policy Analyst and Programs Manager, Ken Martin assumed his current position of Director of Enterprise Development, which principally involves overseeing the delivery of ACOA's core business programming in the region (the Atlantic Innovation Fund; Business Development Program; and ACOA's Trade, Investment and Entrepreneurship activities). He holds a Bachelor of Commerce from Memorial University of Newfoundland and a Master of Business Administration from the University of Calgary. Prior to joining ACOA, Ken Martin worked as a senior commercial lender with the Bank of Montreal in St. John's and as a Financial Analyst with Exxon-Mobil in Calgary.

**Johannes Larsen** is Innovation and Network Advisor for the National Research Council in Canada, in the Industrial Research Assistance Program (NRC-IRAP) for the Atlantic and Nunavut Region. Johannes Larsen has extensive experience in management, business development, international sales and marketing, technology licensing, and management consulting. Prior to joining NRC-IRAP in 2001, Johannes Larsen has among other things been Executive Director of Miratech Inc., a high tech centre and he has established



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several joint venture companies. Among his many professional accomplishments, Johannes Larsen was named one of Atlantic Canada's Top 50 CEOs for 2001 by Atlantic Business Magazine. He has a B.Sc. in Business Administration from the Danish School of Commerce, and has studied further at the European Management Centre in Brussels.

**Kari Winqvist** has been Administrative Manager at Nordic Innovation Centre since January 2009. Nordic Innovation Centre initiates and finances projects that contribute to competitiveness of the Nordic industry through enhancing innovation work and collaboration across borders. Nordic Innovation Centre is governed by the Nordic Council of Ministers and is co-located with other Nordic organizations in Oslo. Prior to her position as Administrative Manager Kari Winqvist worked ten years at the University of Oslo, and before that ten years at the Norwegian University of Life Sciences. She holds a university degree in Social Science. Kari Winqvist participates in the conference on behalf of Senior Advisor Sigridur Thormodsdottir, also from Nordic Innovation Centre.

**Heidi Hautajärvi** is Senior Adviser at the Nordic Energy Research with responsibility for international projects. The Nordic Energy Research is an institution under the Nordic Council of Ministers – an intergovernmental body between Sweden, Denmark, Finland, Norway and Iceland. The institution funds research and research programs, organizes and coordinates various projects, provides administrative expertise, facilitates network building and gives policy advice. She is also coordinating the Nordic Council of Minister's Working Group for Renewable Energy and the Working Group for Sparsely Populated Regions. Heidi Hautajärvi's educational background consists of a Masters degree from Växjö and Uppsala Universities in Political Science and EU Studies. Before joining the Nordic Energy Research she was working at the British embassy in Stockholm on research and innovation issues.

**Lars Thostrup** is the Executive Director of Nordic Atlantic Cooperation, NORA. He is a trained journalist and has worked as a reporter for Danish newspapers and the national news agency of Denmark before entering the Danish Foreign Service in 1992. In the Ministry of Foreign Affairs, he has especially been occupied with matters concerning North Atlantic Affairs, foreign trade and EU-related issues. Lars Thostrup has been posted as First Secretary/Counselor to the Danish embassies in Helsinki, Finland; Santiago, Chile; and Lusaka, Zambia. After having moved to the Faroe Islands, Lars Thostrup took over his present position as director of NORA in August 2007. Lars Thostrup has a Master in Political Science from the University of Aarhus.



## Participants in Project Development Seminars

### Energy Solutions in Sparsely Populated Areas

Name	Email	Institution/ Company	Institution/Company description	Main focus in future project collaboration
<b>Adalsteinn Oskarsson</b>	adalsteinn@fjordungssamband.is	Fjórðungs-samband Vestfirðinga, Association of municipalities of the West fjords	Is an association working for the common interests of ten municipalities of the West fjords, a sparsely populated region in Iceland with around 7.300 inhabitants. The region is not self-sufficient with energy and the region is connected to the main grid, but only with one weak line.	<ul style="list-style-type: none"> <li>• Small-scale energy production</li> <li>• Renewable energy sources</li> <li>• Improving the strength of the electric grid</li> </ul>
<b>Alexandre Pavlovski</b>	ampavlovski@greenpowerlabs.com	Green Power Labs Inc.	Is a company of solar resource experts and engineers. The company provides clean energy asset mapping, monitoring and forecasting services.	<ul style="list-style-type: none"> <li>• Integrated renewable energy solutions for remote and sparsely populated areas</li> <li>• Net zero energy housing and commercial buildings</li> </ul>
<b>Anna Geo</b>	ange@sermersooq.gl	Kommuneqarfik Sermersooq, Section of Nature and Sustainability, Greenland.	Sermersooq is the second largest municipality in Greenland area wise, but has the largest number of inhabitants. The Section of Nature and Sustainability works with a broad span of activities in the environmental field. Energy planning is one of those activities.	<ul style="list-style-type: none"> <li>• Energy solutions</li> <li>• Innovation</li> </ul>



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<b>Bill Semple</b>	bsemple@cmhc.ca	Canada Mortgage and Housing Corporation (CMHC)	The leading supplier of mortgage insurance in Canada. The Policy and Research Division carries out research to support the development of Sustainable Housing and Communities in Canada. Has focused on the Northern Sustainable House.	<ul style="list-style-type: none"> <li>• Alternative energy technologies</li> <li>• Energy efficient northern housing</li> </ul>
<b>Björn H. Halldórsson</b>	Bjorn.halldorsson@sorpa.is metan@metan.is	SORPA bs. Metan Ltd.	Sorpa: Waste management in Reykjavík Capital Area. Runs a receiving and baling station and runs a landfill where the landfill gas is collected, cleaned and used as vehicle fuel. Metan: Development and marketing of methane.	<ul style="list-style-type: none"> <li>• Utilization of (ocean) local resources for energy and fuel production</li> </ul>
<b>Christopher Willson</b>	c.willson@H2storagemedia.com	HSM Systems, Inc.	A New Brunswick Corporation organized for the exploration and development of hydrogen storage products and for the purposes of conducting research on materials and processes for low cost, high density, bulk storage of hydrogen.	<ul style="list-style-type: none"> <li>• Hydrogen</li> <li>• Hydrides</li> <li>• Integrated energy systems</li> <li>• Remote communities</li> <li>• Supercritical fluids</li> <li>• Thermal transfer</li> </ul>
<b>Guðrún Lilja Kristinsdóttir</b>	glk@newenergy.is	Icelandic New Energy	Is the promoter for using hydrogen as a fuel in the transportation sector in Iceland, thereby making it possible to head for an economy which is only run on renewable, local energy sources.	<ul style="list-style-type: none"> <li>• Hydrogen</li> <li>• Domestic fuel</li> <li>• Public acceptance</li> <li>• New technology</li> </ul>



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<b>Hans Henrik Olsen</b>	hanshenrik@erhvervsraad.gl	Qeqqata Trade and Industrial Council – Qeqqata Erhvervsråd	Counseling for companies and entrepreneurs, networking and industrial development.	<ul style="list-style-type: none"> <li>• Construction with focus on low energy building</li> <li>• Environmentally assessment construction</li> </ul>
<b>Ingólfur Þorbjörnsson</b>	ingo@nmi.is	Innovation Center Iceland	Participating in various international R&D projects on mainly seven competence areas: Energy, renewable energy technologies; materials technology; nano-technology; chemical processing; energy and environmental technology; and building technology.	<ul style="list-style-type: none"> <li>• Osmotic energy</li> <li>• Tidal energy</li> <li>• Material development for geothermal energy</li> <li>• Renewable energy</li> </ul>
<b>Jens-Peter Bak Henriksen</b>	JPH@nukissiorfiit.gl	Nukissiorfiit, the national energy company in Greenland	To produce and distribute electricity, water and heat to 17 towns and 54 settlements. The vision is to develop sources of energy that are environmentally friendly in the best and least expensive possible manner.	<ul style="list-style-type: none"> <li>• Hydropower</li> <li>• Energy storage</li> <li>• Geo energy</li> <li>• Heat pumps</li> <li>• Replicable solutions</li> <li>• Isolated grids</li> <li>• Energy efficiency</li> <li>• Energy behavior</li> </ul>
<b>John Ingar Jenssen</b>	jije@cowi.no	COWI AS	Consulting group providing services within the fields of engineering, environmental science and economics with due consideration for the environment and society.	<ul style="list-style-type: none"> <li>• Energy saving</li> <li>• Fishing fleet</li> <li>• Fishing industry</li> <li>• Optimizing operations</li> <li>• Developing plants and vessels</li> <li>• Salmon breeding</li> </ul>



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<b>Jørgen Erik Christensen</b>	jec@byg.dtu.dk	Danish Technical University (DTU), Department of Civil Engineering, The section for Building Physics and Services	To create buildings with good indoor climate and low energy consumption based on interaction between building envelope, installations and renewable energy sources.	<ul style="list-style-type: none"> <li>• Building energy simulation</li> <li>• Renewable energy sources</li> <li>• Solar energy</li> <li>• Sustainable energy</li> </ul>
<b>Kári Mortensen</b>	km@jf.fo	Jarðfeingi, Faroese Earth and Energy Directorate	Tasks related to petroleum exploitation and production activities. Works with all aspects of renewable energy related to use and production. Research in geology and physical geography on shore, on the seabed and in the underground.	<ul style="list-style-type: none"> <li>• Pumped storage</li> <li>• Wind to heat</li> <li>• Heatpumps (ground, seawater)</li> <li>• Electrification (heating, transport)</li> <li>• Biogas</li> <li>• Cultivating seaweed</li> </ul>
<b>Knud Simonsen</b>	University of the Faroe Islands, Faculty of Science and Technology	knuds@setur.fo	Offers bachelor programmes within ocean and earth science, biology and ITC. Occasionally courses at Master and PhD-level. Research within ocean circulation, tidal currents and waves, marine and terrestrial biology, oil and seismic exploration, and ocean fish farming.	<ul style="list-style-type: none"> <li>• Utilization of tidal stream</li> </ul>
<b>Patrick Ross-Smith</b>	patrick.ross-smith@communityenergyscotland.org.uk	Community Energy Scotland	Promotes community development through renewable energy projects. This can be through funding, technical advice and encouraging network between members of our charitable organization.	<ul style="list-style-type: none"> <li>• Community District Heating and Transport</li> <li>• Including off-grid locations</li> </ul>



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<b>Paul MacArtain</b>	paul.macartain@dkit.ie	Centre for Renewable Energy at Dundalk Institute of Technology (CREDIT)	Is a research centre focusing on wind energy, energy storage and biofuels. Also works with small companies and communities developing and testing various renewable energy technologies. Partner in the Interreg IVA funded BioMara project.	<ul style="list-style-type: none"> <li>• Renewable Energy</li> <li>• Wind</li> <li>• Storage</li> <li>• Biofuels</li> <li>• Community Groups</li> <li>• SME</li> <li>• Innovation</li> <li>• Training</li> <li>• Testing</li> <li>• Evaluation</li> </ul>
<b>Ragnheidur Þórarins-dóttir</b>	rith@os.is	Orkustofnun	Government agency with the responsibility of advising the Government of Iceland on energy issues and related topics, promoting energy research and administrating development and exploitation of the energy resources.	<ul style="list-style-type: none"> <li>• Geothermal/waste water</li> <li>• Energy efficiency</li> <li>• Public awareness</li> <li>• Alternative energy solutions</li> </ul>
<b>Raymond Byrne</b>	raymond.byrne@dkit.ie	Centre for Renewable Energy at Dundalk Institute of Technology (CREDIT)	Is a research centre focusing on wind energy, energy storage and biofuels.	<ul style="list-style-type: none"> <li>• Renewable Energy</li> <li>• Wind</li> <li>• Storage</li> <li>• Etc.</li> </ul>
<b>Sigurður Friðleifsson</b>	sif@os.is	Orkusetur, Energy Agency Iceland	The main role of the agency is to increase awareness about energy efficiency in households and industry. Makes education material about different energy issues.	<ul style="list-style-type: none"> <li>• Efficiency</li> <li>• Transport</li> <li>• Emissions</li> <li>• Hydropower</li> <li>• Geothermal power</li> <li>• Heat pumps</li> </ul>



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<b>Terji Nielsen</b>	tn@sev.fo	SEV	National electrical power supply, Faroe Islands.	<ul style="list-style-type: none"> <li>• Converting 40% (renewable)-60% (fossil) to 75%-25% electrical power from renewable sources</li> </ul>
<b>Terry Waugh</b>	terry.waugh@actionrenewables.co.uk	Action Renewables	Is the lead organization on energy efficiency and renewable energy in Northern Ireland. Operates in the public and the private sector and is currently participating in two NPP-programmes.	<ul style="list-style-type: none"> <li>• Renewable Energy</li> <li>• Energy Efficiency</li> <li>• Community Groups</li> <li>• Rural, European Programmes</li> </ul>
<b>Walter Parsons</b>	walterparsons@nalcorenergy.com	Nalcor Energy	Crown corporation under the Government of Newfoundland and Labrador. Manages the province's interests in the energy sector, including hydroelectric and wind power. Research and development in the areas of wind power in harsh environments and alternate energy.	<ul style="list-style-type: none"> <li>• Business development</li> <li>• Energy storage</li> <li>• Wind in harsh environments</li> <li>• Energy management systems</li> </ul>
<b>Øystein Dale</b>	ode@cowi.no	COWI AS	Consulting group providing services within the fields of engineering, environmental science and economics with due consideration for the environment and society.	<ul style="list-style-type: none"> <li>• Energy saving</li> <li>• Fishing fleet</li> <li>• Fishing industry</li> <li>• Optimizing operations</li> <li>• Developing plants and vessels</li> <li>• Project plans</li> <li>• Network projects</li> </ul>



# North Atlantic Opportunities

## Innovation in the North Atlantic Aquaculture Sector

Name	Email	Institution/ Company	Institution/Company description	Main focus in future project collaboration
<b>Alan Drumm</b>	alan.drumm@marine.ie	Marine Institute	Responsible for Marine Research, Technology Development and Innovation in Ireland. Promotes sustainable development of marine industry through strategic funding programs, essential scientific services and research.	<ul style="list-style-type: none"> <li>• Aquaculture innovation</li> <li>• Species development</li> <li>• Networking</li> <li>• Offshore aquaculture</li> <li>• Coastal communities</li> </ul>
<b>Asbjørn Berghein</b>	asbjorn.bergheim@iris.no	IRIS Biomiljø	Develops biological effect measures as cost efficient methods for pollution monitoring, aquaculture practices, bioactive compounds from marine sources, biologically based sensor methodology and works with environmental risk and impact assessments.	<ul style="list-style-type: none"> <li>• Aquaculture engineering</li> <li>• Intensification/ optimization of aquaculture systems</li> <li>• Effluent treatment</li> <li>• Utilization of waste products from fish farms</li> </ul>
<b>Eilif Gaard</b>	eilifg@hav.fo	Faroe Marine Research Institute (FAMRI)	Marine Research, Technology Development and Innovation.	<ul style="list-style-type: none"> <li>• Mussel farming</li> <li>• Environmental research</li> <li>• Environmental research in aquaculture</li> <li>• Marine ecology</li> </ul>
<b>Gilli Trónd</b>	lgt@oceanrainforest.fo	Ocean Rainforest	Developing installations for cultivating seaweed in open ocean conditions.	<ul style="list-style-type: none"> <li>• Industrial partners</li> </ul>



<b>Hans Henrik Olsen</b>	hanshenrik@erhvervsraad.gl	Qeqqata Trade and Industrial Council – Qeqqata Erhvervsråd	Counseling for companies and entrepreneurs, networking and industrial development.	<ul style="list-style-type: none"> <li>• Aquaculture development</li> <li>• Seaweed</li> </ul>
<b>Helgi Thorarensen</b>	helgi@holar.is	Holar University College, Department of Aquaculture and Fish Biology	Research program in aquaculture and fish biology. Research areas include feed development, effect of rearing environment (mainly temperature and water quality) on the growth of fish and fish breeding. Research programs on basic fish biology, ecology, evolution of fish, fish behavior and fish physiology.	<ul style="list-style-type: none"> <li>• Feed development</li> <li>• Effect of environment and internal factors on the growth of fish</li> <li>• Water quality</li> <li>• Fish breeding</li> </ul>
<b>John Holmyard</b>	john@offshoreshellfish.com	Offshore Shellfish Ltd	Is in the process of developing a large scale, offshore, rope culture, mussel farming business that will operate in a high energy environment and meet European mussel market requirements.	<ul style="list-style-type: none"> <li>• High security moorings</li> <li>• Submersible floatation</li> <li>• Secure connection systems</li> </ul>
<b>Jón Árnason</b>	jon.arnason@matis.is	Matis ohf	Development of aquaculture with main emphasis on nutrition. Determination of protein requirement for different size of fish and substitution of amrine raw materials by plant materials. Main species: Arctic charr, Atlantic cod, Atlantic halibut and turbot.	<ul style="list-style-type: none"> <li>• Cold water species</li> <li>• Cost efficiency</li> <li>• Sustainability</li> <li>• Technical solutions</li> <li>• Product quality</li> </ul>



# North Atlantic Opportunities

<b>Jørgen Borthen</b>	borthen@sjomat.no	Norwegian Seafood Centre	Development projects in the intersection between business, research and management.	<ul style="list-style-type: none"> <li>• Seafood</li> <li>• Quality</li> <li>• Economy</li> <li>• Environment</li> <li>• Tourism</li> </ul>
<b>Knud Simonsen</b>	University of the Faroe Islands, Faculty of Science and Technology	knuds@setur.fo	Offers bachelor science programmes within ocean and earth science, biology and ITC. Occasionally also courses at Master and PhD-level. Research within ocean circulation, tidal currents and waves, marine and terrestrial biology, oil and seismic exploration, and ocean fish farming.	<ul style="list-style-type: none"> <li>• Optimization in sea fish farming through improved adaptation to the physical ocean environment</li> </ul>
<b>Larry Hammell</b>	lhammell@upe.ca	Atlantic Veterinary College, University of Prince Edward Island	Epidemiology and clinical research for aquaculture. Studies include epidemiology of Infectious Salmon Anemia, sea lice, vaccination clinical field trials, bio security work. Co-founders of the OIE Collaborating Centre for Aquatic Epidemiology and Risk Assessment.	<ul style="list-style-type: none"> <li>• Aquaculture epidemiology</li> <li>• Field trials</li> <li>• Bio security</li> <li>• Salmon, halibut, cod</li> </ul>
<b>Marlies Rise</b>	marliesr@mun.ca	Ocean Sciences Centre, Memorial University of Newfoundland	Is a cold-ocean research facility Located in Logy Bay, NL. The Centre houses laboratories where research is conducted on the North Atlantic fishery, aquaculture, oceanography, ecology, behavior and physiology.	<ul style="list-style-type: none"> <li>• Finfish Disease</li> <li>• Diet and Early Development</li> <li>• Diversification/ Aquaculture Development</li> <li>• Atlantic cod</li> <li>• Salmonids</li> </ul>



# North Atlantic Opportunities

<b>Peter Weiss</b>	weiss@ uwestfjords.is	University Centre of the Westfjords, Iceland	Teaching an international master's programme in Coastal and Marine Management with invited teachers from Scandinavia, Canada and Iceland. 85% of all students are from abroad, 20% from Canada. Distance Learning Centre, summer schools; School for International Training on renewable energies.	<ul style="list-style-type: none"> <li>• Organizing teaching in aquaculture/ marine innovation in the Westfjords</li> <li>• Promoting research in aquaculture/ marine innovation in the Westfjords</li> </ul>
<b>Ragnheidur Þórarins- dóttir</b>	rith@os.is	Orkustofnun	Government agency with the responsibility of advising the Government of Iceland on energy issues and related topics, promoting energy research and administrating development and exploitation of the energy resources.	<ul style="list-style-type: none"> <li>• Whitefish aquaculture</li> </ul>
<b>Rannveig Bjornsdottir</b>	rannveig. bjornsdottir@matis.is, rannveig@unak.is	Matís Ltd./ University of Akureyri	Matís is an Icelandic Food and Biotech R&D institute. Matis also operates Prokaria, a private biotechnology company and is a shareholder in Iceprotein, a protein production company. Several of Matís employees have a part- time position at universities in Iceland.	<ul style="list-style-type: none"> <li>• Aquaculture</li> <li>• Larvae</li> <li>• Development</li> <li>• Nutrition</li> <li>• Health</li> <li>• Environment</li> </ul>



# North Atlantic Opportunities

<b>Robert Eliassen</b>	robert.eliassen@hibo.no	Applied Biology and Extension, Faculty of Biosciences and Aquaculture, Bodø University College	The research focus is in the field of aquaculture, marine ecology, marine genomics and the interaction between these fields. The Applied Biology and Extension Group is doing applied research and transferring scientific knowledge to the regional aquaculture and fisheries industry.	<ul style="list-style-type: none"> <li>• Salmon production</li> <li>• Fish welfare</li> <li>• Stress monitoring</li> <li>• Smolt production and quality control</li> <li>• Harvesting of mussel and crab</li> </ul>
<b>Shiran Thorisson</b>	shiran@vaxvest.is	Vaxvest – Westfjords Economic Growth Agreement	Development of seafood cluster, tourism clusters and development and innovation projects in seafood and tourism	<ul style="list-style-type: none"> <li>• Innovation</li> <li>• Seafood</li> <li>• Value added, aquaculture, clusters</li> <li>• Market research</li> <li>• By-products</li> </ul>
<b>Snorri Gunnarsson</b>	snorri.gunnarsson@akvaplan.niva.no	Akvaplan niva AS Island	R&D institute that works with optimization and modernization of commercial aquaculture practices and techniques, providing solutions to problems faced by the fish farming industry. Direct involvement of both industry and academic institutes in the planning and execution of the projects.	<ul style="list-style-type: none"> <li>• Aquaculture</li> <li>• Atlantic cod</li> <li>• Arctic charr</li> <li>• Marine species</li> <li>• Production optimization</li> <li>• Growth rate</li> <li>• Feeding efficiency</li> </ul>



# North Atlantic Opportunities

<b>Steve Armstrong</b>	sarmstrong@genomeatlantic.ca	Genome Atlantic	To help develop, invest in, manage and govern large-scale genomics projects.	<ul style="list-style-type: none"> <li>• Marker assisted selection</li> <li>• Disease management</li> <li>• Challenge of early sexual maturation, with a particular interest in Atlantic cod and salmon</li> </ul>
<b>Øystein Patursson</b>	oystein@fiskaaling.fo	Fiskaaling (Aquaculture research station of the Faroes)	Is working with farming equipment and environment, optimization of farming husbandry (feed etc.) and biotechnology	<ul style="list-style-type: none"> <li>• Fish farming</li> <li>• Water quality within sea cages</li> <li>• Quality and byproducts</li> <li>• Marine larvae</li> <li>• Zooplankton</li> </ul>



# North Atlantic Opportunities

## North Atlantic Opportunities

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# North Atlantic Opportunities

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