

ASIAQ 1 Workshop

Date: 24-25 May 2018

Location: Stockholm University

Participants from Northern (Arctic) Federal University



Elena Golubeva is Professor of the Department of Social Work and Social Security of Northern Arctic Federal University (NArFU). She received her first PhD in 1998 about 'Human Physiology' from Pomor State University (PSU), Arkhangelsk in Russia. Her second PhD was received in 2012 about 'Gerontology and Geriatrics', Institute of Bioregulation and Gerontology of the Russian Academy of Medical Sciences (North-West Branch), St- Petersburg.

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Elena Gusakova is a qualified engineer-biotechnologist. Her study field is within ecotoxicology. She studies impacts from industrial effluents on coregonic fishes. The goal of her PhD project is to characterize the physiological response of fish to the contamination from the wood processing industry. For this, she will focus on fish of the genus *Coregonus*, a group of fish belonging to the Salmonidae family and known as valuable whitefishes.

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Marina Kalinina has been professionally involved to the cross-border cooperation in the North since 1993 when she was appointed the Director of the Norwegian-Pomor University Centre in Arkhangelsk. For the period of 1993-2010, the Centre under her lead had been a facilitator of numerous educational and research projects between the universities in Arkhangelsk and Norway and turned to be an arena for Scandinavian studies. In 2010-2016 as the NArFU Vice-rector of international cooperation, and from 2016 until present, in her capacity of NArFU Rector's Advisor for international cooperation, Dr. Kalinina has been involved into internationalization and modernization of higher education, international cooperation in the North, strategic development and capacity building.

Her professional and research interests include transformation of higher education, international and regional cooperation in the North as well as science

	<p>diplomacy, democracy and gender. In 2011-2017 Kalinina has been chairing the Barents Euro-Arctic Council Joint Working Group on Education and Research targeting to promote international cooperation between higher educational institutions in the Barents Region and to address the challenges of regional development to the field of education and science.</p> <p>For more than a decade Dr. Kalinina has been contributing to collaboration within the University of the Arctic and to the international organization`s capacity building.</p> <p>m.r.kalinina@narfu.ru</p>
	<p>Nikolai Kondratov is currently teaching at the Northern (Arctic) Federal University, High School of Natural Sciences and Technologies at the Department of Geography and Hydrometeorology. Courses taught by him include Nature Management, Regional Natural Resource Management and others.</p> <p>In 2003, he obtained his PhD from Moscow State Pedagogical University and the subject was: “Sweden: economic, social and political - geographical characteristics (and experience of its comparison with the Arkhangelsk region of the Russian Federation)”.</p> <p>n.kondratov@narfu.ru</p>
	<p>Pavel Maryandyshchev (Ph.D.), is Vice Director of the Higher School of Energy, Oil and Gas, and Associate Professor of the department of the heating engineering, Northern (Arctic) Federal University named after M.V. Lomonosov. He received his PhD in 2015 in Industrial Power engineering. Winds, solar and wood are deeply investigated in his research, in addition to other areas.</p> <p>p.marjandyshchev@narfu.ru</p>



Tatiana Sorokina is an Associate Professor in Environmental Law and Law of the Sea at Northern (Arctic) Federal University. In 2006, she graduated from the law faculty of the Pomor State University. In 2009, she graduated from the Institute of State and Law of the Russian Academy of Sciences in Moscow and was awarded the title of candidate of law in 2011. Since then, she has been working in the Northern (Arctic) Federal University named after M. V. Lomonosov in Arkhangelsk.

Her dissertation topic is "Mechanisms of Protection of the Right to a Favorable Environment".

She is currently the Head of the Arctic Biomonitoring Laboratory in NArFU and also a manager of the research project supported by the Government of the Russian Federation about the "Development of methodology for monitoring, assessment, prediction and prevention of risks associated with the high level toxic polluting substances transfer via biological pathways."

Research areas:

- a) Environmental Rights
- b) Environmental Monitoring
- c) Legal Status of the Northern Sea Route
- d) Environmental Regulation of the Offshore Activities in the Arctic
- e) Legal Regulation of the Transboundary Pollution of the Arctic Region by Organic and Inorganic Contaminants

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Participants from The University of Tokyo



Daisuke Kitazawa graduated from the doctoral course of Department of Environment and Ocean Engineering, Graduate School of Engineering, The University of Tokyo in 2002. He is working at Institute of Industrial Science at The University of Tokyo since 2002. His academic interests are in the following: numerical simulation of the environment using a hydrodynamic and ecosystem coupled model, water tank testing related to offshore aquaculture, marine renewable energy development and ice breaking ships.

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Hideaki Murayama, PhD, is a professor of Graduate School of Frontier Sciences, the University of Tokyo and a member of the Japan Society of Mechanical Engineers, the Society of Naval Architectures of Japan, the Japan Society for Composite Materials, Japan Society of Civil Engineers and Japan Society of Maintenance. His research topics are structural health monitoring with fiber-optic sensors and composite structures. He received the B.E., M.E., and Dr. Eng. from the University of Tokyo in 1996, 1998, 2001, respectively.

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Liyanarachchi Waruna Arampath De Silva is a researcher from the University of Tokyo. His research interests include numerical forecast of sea ice and utilization of wave energies for marine propulsion.

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Ryota Wada is Assistant Professor at the University of Tokyo. He received his B.S. and M.S. in Engineering and Ph.D in Environmental Studies at the University of Tokyo. His research is about extreme statistics and ocean engineering. He is currently interested in the trend analysis of extreme waves.

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Tsubasa Kodaira is an Assistant Professor at The University of Tokyo. He received both his M.S. in Environmental Science and B.S. in Engineering from The University of Tokyo.

In 2014, he obtained his Ph.D. also from The University of Tokyo. His dissertation was about “Nonlinear internal wave generation around islands in stratified shear flow”.

During his studies, he worked as Postdoctoral Research Fellow at Dalhousie University (2014 – 2016). And as JSPS Special Research Fellow at the University of Tokyo (2011- 2014).

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**Participants from
University of New Hampshire**



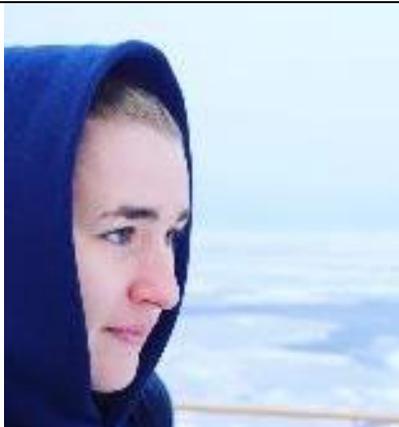
Claire Eaton is a graduate student in the Department of Natural Resources and the Environment at the University of New Hampshire, where she studies marine science and policy with a focus on Arctic ocean observing networks. Claire's research currently leverages a stakeholder assessment approach to better understand the potential for facilitating Arctic long-term monitoring efforts within the context of science diplomacy and international collaboration. She is particularly interested in future expansion of a Distributed Biological Observatory (DBO) to the Baffin Bay-Davis Strait area of the Northwest Atlantic.

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Clarice Perryman is a PhD student in the University of New Hampshire, enrolled in Earth and Environmental Science program. Her research focuses on how permafrost thaw affects rates of methane oxidation and the community composition of methane oxidizing bacteria in northern peatlands. She is also interested in fostering better collaborations between scientists, local communities, and policymakers, as well as using dance to communicate science to broad audiences.

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Elizabeth Weidner is currently pursuing her Ph.D. in Oceanography through a joint appointment at the University of New Hampshire and Stockholm University. She graduated from the University of Washington in 2012 with a B.S. in Oceanography and worked for the following 3 years at C&C Technologies as geophysicist. She completed her M.S. in Earth Science in April 2018 at the University of New Hampshire, where she developed a method for quantifying marine seep gas flux using calibrated broadband split-beam echo-sounder data. As a Ph.D. student her thesis is focused on the differentiation of freshwater and gas seeps via broadband acoustics.

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Jessica Ernakovich is an assistant professor at University of New Hampshire in the department of Natural Resources and the Environment. My research interests lie in how microbial communities and soil chemistry interact to affect ecosystem function. She is particularly interested in permafrost soils and how permafrost soil chemistry and biology control greenhouse gas fluxes after thaw.

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Julia Bryce is a Professor of Geochemistry and is Chair of the Department of Earth Sciences at the University of New Hampshire. She is interested in trace metal and metal isotope applications to track environmental change and study feedbacks between the Earth System and its constituents. In the Arctic she has studied mercury dynamics and geological and plant feedbacks on nutrient acquisition.

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Ruth Varner is a Professor of Biogeochemistry in the Department of Earth Sciences and the Director for the Earth Systems Research Center in the Institute for the Study of Earth, Oceans, and Space at the University of New Hampshire (UNH). She is also the Director of UNH's Joan and James Leitzel Center for Mathematics, Science and Engineering Education. Her current research focus is on carbon dioxide, methane and nitrous oxide emissions in terrestrial ecosystems, with a focus on the measurement of trace gas emissions from agricultural, forested, wetland and lake ecosystems with funded projects from NASA, DOE and NSF.

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Tamara Marcus is a graduate student at University of New Hampshire, studying microbial controls on methane emissions from three arctic lakes in Stordalen Mire. She is also working to develop ways to disseminate relevant results to Arctic indigenous communities.

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Participants from Umeå University



David Chapman is a chartered member of Royal Institute of British Architects (RIBA) and Royal Town Planning Institute (RTPI) and dual registered with Swedish Association of Architects (SAR/ MSA & FPR/MSA).

Using urban design as a research method he has been immersed in a number of significant design and development initiatives. While often working as a key member of a larger team, he engaged with a wide variety of individuals, community groups and agencies. He has also been continuously involved in teaching, research and publication and he draw upon his practical experience when developing and delivering innovative teaching and learning approaches. Thus, his experience combines contemporary practice in urbanism including social learning and engagement, together with pedagogy, research and academic development.

At present, his research is trying to understand how seasonal climate variation and climate change is, and will, affect people's outdoor activity in the streets and spaces of the cities. This has numerous dimensions, including the wellbeing and health benefits that come from being outdoors and active on a regular basis.

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Gabriella Nordin holds a PhD in History and her main research area is family history and demography. Nordin has focused on the Sámi, Sweden's only indigenous population, with a special interest in marriage behavior and fertility during the colonization process going on in the 18th and 19th centuries in northernmost Sweden. Nordin's research consequently explores the family pattern during the transition where the Sami people went from majority to marginalized people in the area. To meet the aim of the analysis of Sami and non-Sami family patterns world unique parish registers digitized by the Demographic Data Base (DDB), Umeå University are utilized. Beside her PhD thesis, Nordin has written a number of articles and book chapters on Sámi family history and has been affiliated to the Centre for Sámi Research at Umeå University for several years as Post Doc and research assistant. Nordin currently hold a position as research coordinator at Arctic Research Centre at Umeå University (Arcum).

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Jelmer Jeuring is a postdoctoral researcher at the Department of Geography and Economic History of Umeå University. He has a PhD in Cultural Geography and is currently involved in the SALIENSEAS project. In his research he aims to understand the various relations between weather/climate and society from an interdisciplinary perspective. He is interested in subjective experiences of the weather and the challenges of communicating extreme weather information, particularly in the context of tourism mobility.

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Lena Maria Nilsson is a Research Coordinator at the Arctic Research Centre at Umeå university (Arcum). She obtained her PhD in public health in 2012, with her thesis focusing on traditional Sami lifestyle factors as determinants of public health. Since autumn 2012 she has been involved in an Arctic food and water security project, initiated by the The Arctic Human Health Experts Group within the Arctic Council. Overall, in April 2018, Nilsson had written or contributed to 54 peer-reviewed, 5 popular-science papers and 5 book chapters. Nilsson is the secretary of the Nordic Society for Circumpolar Health, and a member of the steering group of Neon, the Nordic nutrition epidemiological network, and the University of the Arctic (UArctic) nomination committee. She is also a board member of Vaartoe, the Centre for Sami Research at Umeå university. Based on her broad expertise, Nilsson is often invited to speak to both scientific and public audiences.

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Marco Eimermann is a research assistant professor at the Department of Geography and Economic History, Umeå University (Sweden). His current research is based in two projects: “Mobilising the rural” (2014-2017) and “Mobilities, micro-urbanisation and changing settlement patterns in the sparsely populated North” (2017-2021). The former project combines innovation capacity of lagging rural areas with incoming entrepreneurs’ contribution to rural development. The latter project studies the ever-changing mobility patterns to and within rural Västerbotten and Norrbotten (Sweden), in order to understand how they have changed regional settlement patterns and functional settlement structures in northern Sweden. Marco is involved in the Lifestyle Migration Hub, an expanding network of migration scholars studying social rather than economic reasons for voluntary movements across the globe. In particular, he is interested in transient and strategically switching populations in Europe. He is also an affiliated researcher with the Arctic Research Centre (ARCUM) at Umeå University.

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Niklas Eklund, Ph.D. is Senior lecturer and Associate professor in Political science at the Department of Political Science, Umeå University. He specializes in public administration, security, and crisis management and is currently affiliated with the Arctic Research Centre at Umeå University (Arcum). See also www.varietiesofpeace.net. Among his recent publications is “Refracting (geo) political choices in the Arctic” (2017 w/Lize-Marié van der Watt, *The Polar Journal*) and he is currently working on the chapter about Sweden in *The Routledge Handbook of Arctic Security* (to be published in 2019).

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**Participants from
KTH Royal Institute of Technology**



Clemens Deutsch is a PhD student in underwater robotics at the KTH Centre for Naval Architecture. His research focuses on vehicle system performance optimisation. Parts of this research include the deployment of underwater vehicles at the polar ice caps. During his studies, Clemens has visited Svalbard several times and developed personal and professional interest in Arctic sciences.

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Jakob Kutteneuler is professor in Naval Architecture at KTH, Stockholm. His background is in aeronautical engineering and aeroelasticity. In later years his research interests has more turned into maritime robotics with current projects ranging from autonomous sailing oceanographic sensing platforms to autonomous underwater vehicles via stationary sensor nodes for arctic conditions.

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Magnus Burman is a researcher at the Lightweight structures group, Department of Aeronautical and Vehicle Engineering, KTH. His current focus is on implementation of light weight carbon fibre composites and sandwich structures in marine and transport applications. Reducing the weight of such structures will result in reduced life cycle energy consumption and/or increased performance.

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Per Wikman-Svahn, Ph.D., is a researcher at the Department of Philosophy and History at KTH in Stockholm. His research is focused on philosophical issues in the science-policy interface, especially involving climate change and sea level rise.

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Sebastian Thuné is a research engineer at KTH within SMaRC (Swedish Maritime Robotic Centre).

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Sriharsha Bhat is a PhD student at KTH. His research looks into simulating and controlling the dynamics of autonomous underwater vehicles for use in environmental monitoring, ocean production and security. Originally from India, he has studied and worked in the fields of robotics and automotive engineering in Singapore, Sweden and Germany prior to his PhD.

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Viktor Lidström is a PhD student at KTH, affiliated with FOI and SMaRC, in the field of underwater communication. His research is aimed towards acoustic point-to-point communication links, with a focus on robustness, bandwidth and energy efficiency.

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Participants from Stockholm University



Arvid Bring's research is focused on three main themes: 1) large-scale hydroclimate, with a focus on the Arctic; 2) hydrological information: model evaluation, monitoring systems, and water data for societal adaptation; and 3) hydrology and society: water, climate and conflicts, and co-evolution of human society and the water side of the geophysical system across timescales.

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	<p>Andrew Frampton is a climate scientist and hydrogeologist investigating water and groundwater systems in polar regions, and particularly interested in solute and waterborne transport of carbon and methane in permafrost environments.</p> <p>andrew.frampton@natgeo.su.se</p>
	<p>Elena Gorokhova is a Professor in Molecular Ecology, Department of Environmental Science and Analytical Chemistry. She received her PhD degree in Systems Ecology from Stockholm University in 1999. She published over 90 papers in various fields of plankton ecology, ecotoxicology and environmental assessment using broad experimental approaches, field surveys and modeling. Research interests are: environmental risk assessment, stress ecology, biological oceanography.</p> <p>Elena.Gorokhova@aces.su.se</p>
	<p>Elisabet Idermark is Senior Advisor on international relations at Research Support Office, Stockholm University. She coordinates international projects to promote research collaborations. She is project manager of the ASIAQ project. Elisabet has a background in journalism and communication.</p> <p>elisabet.idermark@su.se</p>
	<p>Gabriele Messori obtained his Ph.D. from the Department of Physics of Imperial College London at the beginning of 2014. Since then, he has worked at the UK Met Office and in Stockholm University, where he is currently a researcher in the Department of Meteorology. His research focusses on atmospheric dynamics and the role of large-scale motions in driving regional climate extremes. He is specifically interested in the drivers of temperature extremes in the high Arctic and how these may change in the future.</p> <p>gabriele.messori@misu.su.se</p>



Georgia Destouni is Professor of Hydrology and Head of the Department of Physical Geography at Stockholm University. Her research focuses on water resources and their natural and human-driven changes, in terms of water fluxes and water availability and quality, on different scales, and in various parts of the world, including the Arctic region. Her research interests include water-related changes to terrestrial and aquatic ecosystems and ecosystem services, and interactions with climate change, urbanisation and other human change drivers. Interactions of interest also include the nexus of water, energy and food supply and security, and water pollution and eutrophication impacts of anthropogenic point, diffuse and legacy sources. Among many national and international assignments and commissions of trust, Professor Destouni was the former Secretary General of The Swedish Research Council Formas, and is currently Vice President of the International Association of Hydrological Sciences (IAHS) and member of the scientific advisory committee of Science Europe. She is also fellow of the American Geophysical Union (AGU), Henry Darcy medallist of the European Geosciences Union (EGU), and member of the Royal Swedish Academy of Sciences and of the Royal Swedish Academy of Engineering Sciences.

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Nina Kirchner is one of the leaders of the ASIAQ project. Nina is also Director of Research at the Bolin Centre for Climate Research, and Associate professor of Glaciology, at Stockholm university. Her research focuses on the interaction of ice sheets and glaciers with the polar oceans, both in the Arctic and the Antarctic, where Nina has spent more than 8 months at sea to collect data so far. Nina is also active in SMaRC, the Swedish Maritime Robotics Centre.

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Ylva Sjöberg is a researcher at the Department of Physical Geography at Stockholm University. Her research focuses on permafrost and arctic hydrology, which she studies using both numerical modeling and field investigations in Sweden, Greenland and Alaska.

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Zahra Kalantari is a Research Area Co-Leader of Bolin Centre for Climate Research and Senior Researcher at Stockholm University. She has broad interest in the areas of: Nature-Based Solutions for sustainable land management and development, vulnerability assessment to water-related disasters; linking climate change assessments with adaptation policies, including in relation to disaster risk resilience; adaptive land-use planning for decision support; ecosystem services; sustainable urban and rural development; and environmental impacts and solution strategies. She is an investigator in a number of prestigious national and EU projects and author of numerous reports on applied research, consultancy projects and scientific papers. She is an expert in collaborative research with stakeholders, authorities and decision makers.

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