

AFTERNOON PROGRAMME



The Nippon Foundation-GEBCO

Seabed 2030 Project

From Vision to Action

The Royal Society, London
Tuesday, 22 October, 2019



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PROGRAMME

- 12:30-14:00 **Registration, light refreshments in the Marble Hall**
- 14:00-14:05 **Mapping the way forward:** introductory film
- 14:05-14:10 **Address:** HE Mr Koji Tsuruoka, Ambassador Extraordinary and Plenipotentiary, Embassy of Japan in the United Kingdom
- 14:10-14:15 **Welcome:** Professor Andy Hopper CBE FRS FIET FEng, Treasurer and Vice-President of the Royal Society
- 14:15-14:25 **Opening remarks:** Mr Yohei Sasakawa, Chairman of The Nippon Foundation
- 14:25-14:55 **Seabed 2030 – Progress and Achievements:** Dr Boris Dorschel, Head of the Southern Ocean Regional Center, and Dr Vicki Ferrini, Head of the Atlantic and Indian Ocean Regional Center
- 14:55-15:25 **Coffee break**

Our Vision – The Future of Seabed 2030

- 15:25-15:30 **Planning the way forward and presentation of the new Seabed 2030 Director:** Vice-Admiral (Rtd) Shin Tani, Chairman of the GEBCO Guiding Committee
- 15:30-15:50 **Keynote speech:** Rear Admiral Shepard Smith, Director of Coast Survey, National Oceanic and Atmospheric Administration (NOAA)
- 15:50-16:05 **Expanding the Frontiers of Ocean Mapping:** Professor Martin Jakobsson, Co-Head of the Arctic and North Pacific Ocean Regional Center
- 16:05-16:20 **Engagement in Seabed 2030 by the GEBCO-Nippon Foundation Alumni:** Mr Mitsuyuki Unno, Executive Director of The Nippon Foundation, and Ms Aileen Bohan, Geological Survey of Ireland
- 16:20-16:35 **Accelerating Seabed 2030 progress through technological innovation:** Professor Larry Mayer, Co-Head of the Arctic and North Pacific Ocean Regional Center
- 16:35-16:50 **Next steps:** Message from Regional Centers with Director Designate
- 16:50-17:00 **Closing Remarks:** Dr Mathias Jonas, Secretary General of the International Hydrographic Organization (IHO)
- 17:30-20:00 **Reception in the Dining Room**
- 17:30 **Address:** Dr Vladimir Ryabinin, Executive Secretary of the Intergovernmental Oceanographic Commission (IOC) and Assistant Director General of UNESCO
- 20:00 **End of reception**

HE Mr Koji Tsuruoka – Ambassador Extraordinary and Plenipotentiary, Embassy of Japan in the United Kingdom

Mr Tsuruoka was appointed as the Ambassador of Japan to the United Kingdom in June 2016. He entered the Ministry of Foreign Affairs 40 years ago, and as the first Director-General for Global Issues, a position he held until 2008, Mr Tsuruoka worked on a wide range of global matters including climate change and battling infectious diseases. His previous roles include Deputy Vice Minister in charge of Foreign Policy and Deputy Minister for Foreign Affairs.

Prof Andrew Hopper – Treasurer and Vice-President of the Royal Society

Prof Hopper is Treasurer and Vice-President of the Royal Society. He is Professor of Computer Technology at the University of Cambridge and former Head of the Department of Computer Science and Technology. Prof Hopper's research interests include pervasive and sensor-driven computing, and using computer technology to ensure sustainability of the planet. His work under the theme of *Computing for the Future of the Planet* examined the use of technology for addressing international environmental challenges.

Vice Admiral (Rtd) Shin Tani – Chairman of the GEBCO Guiding Committee

Admiral Tani is the Chairman of the joint IHO-IOC GEBCO Guiding Committee, a post he has held since October 2013. Admiral Tani has made major contributions to GEBCO's work and activities for more than 24 years. He has been Cabinet Counsellor for the Cabinet Secretariat of the Government of Japan in charge of ocean policy, renewable energy, ocean survey and monitoring, data management, marine land register, and UNCLOS Extended Continental Shelf.

Mr Yohei Sasakawa – Chairman of The Nippon Foundation

Mr Sasakawa has taken the helm in shaping The Nippon Foundation into the unique entity that it is today – one that works with governments, international organizations, academia, the private sector and the public to develop models for solving a wide range of global challenges. Among the many projects he has been involved in, Mr Sasakawa has been a key figure in the fight against leprosy, the national reconciliation process in Myanmar, and protecting our oceans for future generations. In 2017, he launched The Nippon Foundation-GEBCO Seabed 2030 Project at the UN Ocean Conference.

Mr Mitsuyuki Unno – Executive Director of The Nippon Foundation

Mr Unno was appointed Executive Director of The Nippon Foundation in 2011 and has been involved in maritime matters for more than 18 years. Together with GEBCO, Mr Unno established a training programme at the University of New Hampshire to create a new generation of ocean mappers. Under his leadership, projects at The Nippon Foundation addressing various issues related to the ocean continue to grow and diversify.

Dr Boris Dorschel – Head of the Southern Ocean Regional Center

Dr Dorschel is head of the bathymetry working group at the Alfred Wegener Institute Helmholtz Center for Polar and Marine Research (AWI) in Germany. Dr Dorschel previously conducted his research at University College Cork, where he investigated the influence of environmental factors on cold-water coral carbonate mound development. Since 2012, his scientific focus has been on the geo-morphology of the seafloor in high latitudes with special emphasis on the reconstruction of past ice sheet behaviour and habitat mapping.

Dr Vicki Ferrini – Head of the Atlantic and Indian Ocean Regional Center

Dr Ferrini is a Research Scientist at Columbia University's Lamont-Doherty Earth Observatory (LDEO) and an Affiliate Associate Professor at the Center for Coastal and Ocean Mapping at the University of New Hampshire. She specializes in geoinformatics and data management and has spent the last 15 years focused on ensuring that high-quality marine geoscience research data are made available to the science community and to the public. Her scientific research focuses on using seafloor mapping techniques to understand the processes that shape the seafloor.

Rear Admiral Shepard Smith – Director of Coast Survey, National Oceanic and Atmospheric Administration (NOAA)

Rear Admiral Smith became Coast Survey director in August 2016. He is dedicated to advancing the Coast Survey initiatives of modernizing digital charting, increasing use of autonomous systems for hydrography, and improved integrated navigation services for seaports. Rear Admiral Smith also serves as the chair of the International Hydrographic Organization's (IHO) Council that comprises 30 leading IHO member nations and oversees performance management and the business side of the IHO.

Prof Martin Jakobsson – Co-Head of the Arctic and North Pacific Ocean Regional Center

Prof Jakobsson is Professor of Marine Geology and Geophysics at Stockholm University, where his research includes the oceanographic and geological history of oceans. He applies geophysical mapping methods to study seafloor morphology and has specialized in the development of Digital Bathymetric Models (DBMs) from a mixture of data sources. Prof Jakobsson is the main compiler of the International Bathymetric Chart of the Arctic Ocean (IBCAO) and serves as the Chairman of the IBCAO Editorial Board.

Ms Aileen Bohan – Marine Geologist/Hydrographer, INFOMAR, Geological Survey of Ireland

Ms Bohan recently completed a Postgraduate Certificate in Ocean Bathymetry as part of The Nippon Foundation/GEBCO training programme, which aims to create a new generation of scientists and hydrographers in ocean bathymetry. She now works as a Marine Geologist with the INFOMAR project, where her work consists of acquiring, processing and interpreting Hydrographic and Geophysical marine data, in order to produce a range of products. Ms Bohan was part of the GEBCO-Nippon Foundation Alumni Team which won the Shell Ocean Discovery XPRIZE.

Prof Larry Mayer – Co-Head of the Arctic and North Pacific Regional Center

Prof Mayer is the Director of the Center for Coastal and Ocean Mapping (CCOM) at the University of New Hampshire. His research deals with sonar imaging, remote characterization of the seafloor and advanced applications of 3D visualization to ocean mapping problems. Prof Mayer is a Presidentially-appointed member of The U.S. Arctic Research Commission and has been elected to the Hydrographic Society of America's Hall of Fame, the U.S. National Academy of Engineering, and the Royal Swedish Academy of Sciences.

Dr Mathias Jonas – Secretary General of the International Hydrographic Organization (IHO)

Dr Jonas was elected Secretary General of the IHO in April 2017. Prior to his election, he was the Vice President of the German Federal Maritime and Hydrographic Agency, and National Hydrographer of Germany where he was responsible for sea survey and sea cartography. In 1999, Dr Jonas completed the world's first ECDIS type approval. He continues to contribute to IMO and IHO navigation activities. Dr Jonas is a Master Mariner, and holds a PhD in Nautical Engineering.

Dr Vladimir Ryabinin – Executive Secretary of the Intergovernmental Oceanographic Commission (IOC)

Dr Ryabinin became Executive Secretary of the Intergovernmental Oceanographic Commission (IOC-UNESCO) and Assistant Director General in March 2015. Prior to this, he was a Senior Scientific Officer in the World Climate Research Programme (WCRP) and a staff member of the World Meteorological Organization (WMO), where he was responsible for the international coordination of climate research with a focus on the polar regions and cryosphere, the ocean, sea level, and contribution of research into the creation of climate services.