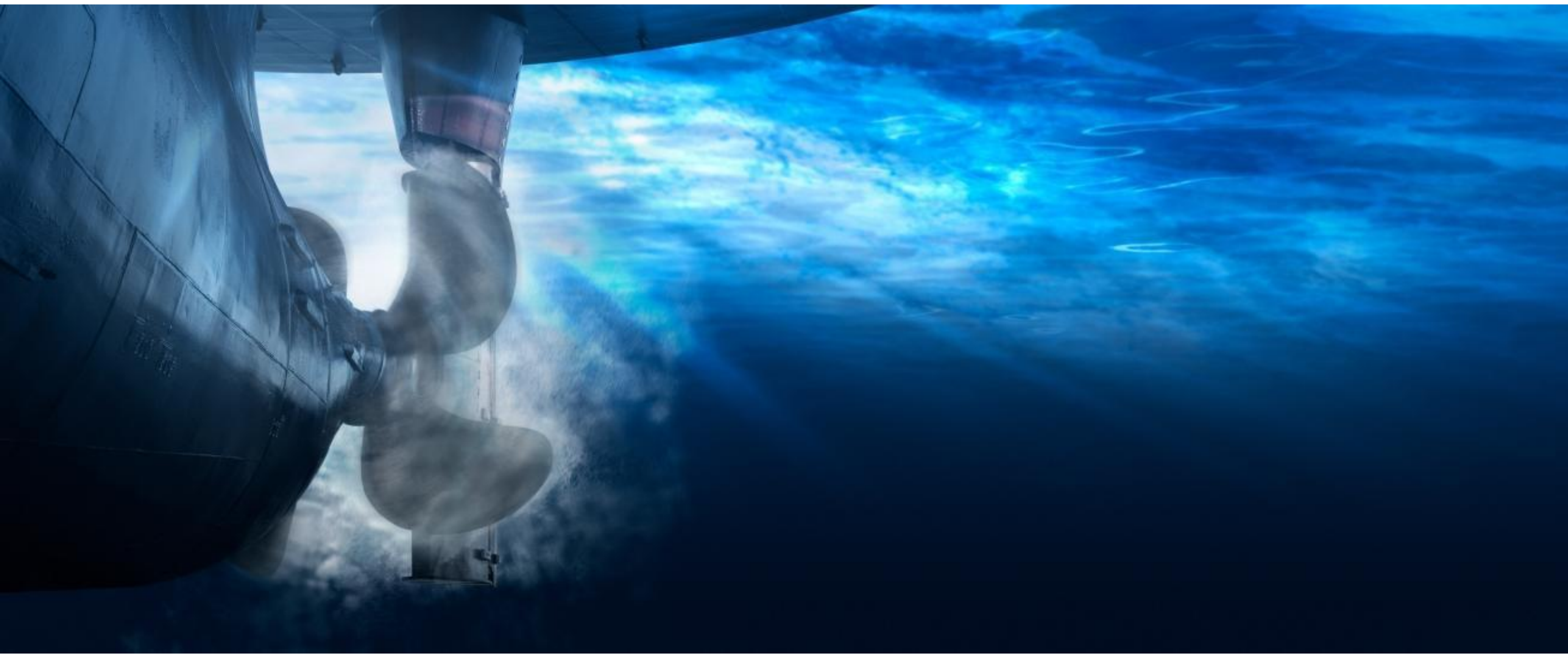
POSTER SESSION

Co-sponsored by IMO and GEF-UNDP-IMO GloNoise Partnership

2025 WORKSHOP ON THE RELATIONSHIP BETWEEN SHIP ENERGY EFFICIENCY AND UNDERWATER RADIATED NOISE

6 NOVEMBER 2025 AT IMO HEADQUARTERS IN LONDON



The poster session will take place during the evening reception after Day 1 (Nov 6) from 6-8 PM in the Delegates Lounge on the 1st floor.

Vessel Speed Reduction Initiatives in Critical Habitat for Endangered Whales: Repeated Demonstrations of Quieting the Salish Sea *Dr. Chloe Malinka, Senior Scientist, SMRU Consulting*
The Challenge of Reducing Underwater Radiated Noise by 2030 *Ms. Prashanna Pokharel, Ms. Breanna Bishop, Ms. Elissama Menezes, Equal Routes*
Underwater Radiated Noise from LNG Tanker Traffic in the Gulf of California *Ms. Prashanna Pokharel, Ms. Breanna Bishop, Ms. Elissama Menezes, Equal Routes*
The ICS/BIMCO best practice guide to Underwater Radiated Noise *Dr. Bev Mackenzie, BIMCO and Mr. Chris Waddington, Technical Director International Chamber of Shipping*
Overview of the EU Horizon-funded LOWNOISER project - Demonstrating Energy Efficiency Technologies for Quieter Oceans *Dr. Kourosh Koushan and Ms. Emilie Dorgeville, Project Manager, Maritime CleanTech*
Superyacht Eco Association (SEA) Index by Yacht Club de Monaco *Ms. Natalie Quévert, SEA Index Project Lead & General Secretary and Ms. Rachel Ercole, SEA Index Development Manager*
VARD EE-URN related work *Mr. E. Mete Sireli, P.Eng., Senior Naval Architect, Naval Architecure, VARD*
S3 Silent Ship Solutions for controlling Underwater Radiated Noise below limits *Mr. Publio Beltrán Palomo, General Manager, Técnicas y Servicios de Ingeniería (TSI) and Mr. Santiago Molins Riera, Head of R&D Department, Técnicas y Servicios de Ingeniería (TSI)*
Noise Ship index *Mr. Thomas Folegot, Director of Strategic Initiatives and Innovation at Quiet Oceans*
Practical Experiences on URN management, measurement, and troubleshooting *Mr. Per Trojgaard Andersen, Lead Specialist Noise & Vibration, Lloyd's Register Advisory*
Using noise energy input from ships as a trend indicator *Dr. Mathias H. Andersson, Deputy Research Director at the Division of Underwater Technology at FOI, the Swedish Defence Research Agency*
Towards Quiet Oceans: The GloNoise Partnership and the IMO Toolkit for URN Assessment *Ms. Sevtap Özdoğan, IMO Secretariat*
The DEMASK project: from knowledge to impact *Mr. Maarten Verdaasdonk, Project Manager, The North Sea Foundation*

2025 EE/URN WORKSHOP

Poster session bios

Dr. Chloe Malinka

Chloe is a marine-focused bioacoustician who uses passive acoustic monitoring technologies to investigate a suite of conservation issues. These include acoustically tracking the fine scale movements of porpoises and dolphins around operational tidal turbines, to setting up real-time passive acoustic mitigation monitoring for industrial projects at sea, to quantitatively evaluating ocean-quieting initiatives such as vessel speed reduction initiatives (e.g. ECHO, Quiet Sound). Her current work focuses on soundscape monitoring and mitigating noise impacts, with projects predominately in the UK and Pacific Northwest.

Chloe's expertise in investigating interactions between marine mammals and humans in a variety of pure and applied science contexts has led her to a new project which she is presently co-leading with Southall Environmental Associates. This Sound & Marine Life JIP-funded project is entitled COSIMMAS: A review of COntinuous Sound Impacts on Marine Mammals and Mitigating these impacts At Source. This project is using international and multi-disciplinary subject matter expert working groups to assess current knowledge, identify evidence gaps and generate a roadmap to reduce noise impacts. She is especially interested in learning more about the soundscape impacts on energy efficiency measures within the shipping industry, as being presented at this workshop. Please reach out to her to discuss COSIMMAS.

Ms. Prashanna Pokharel

Prashanna has a background in biology/ecology, science communications, and nonprofit project coordination. She is passionate about knowledge translation and storytelling, making complex science accessible to a diverse audience through clear and engaging narratives. At Equal Routes, her work blends clarity with creativity, from streamlining internal workflows, to designing and strategizing digital communications.

Dr. Breanna Bishop

Breanna Bishop holds a PhD in Interdisciplinary Studies and brings extensive experience conducting research with coastal communities on climate and marine issues. She is committed to ensuring our research is transparent, inclusive, and amplifies the voices shaping a just, sustainable maritime future.

Ms. Elissama Menezes

Eli is one of the Co-Directors at Equal Routes, an oceanographer and marine governance graduate who works with communities and the shipping sector to push for solutions in the intersection of climate, biodiversity, health, justice, and equity. Growing up in Brazil's favelas and building a life in Canada shaped her approach that real change happens when research, advocacy, and lived experience come together.

Dr. Bev Mackenzie

Dr Mackenzie is Head of Intergovernmental Engagement at BIMCO, the world's largest direct-entry membership organisation for the shipping industry. She is the London-based Representative at the International Maritime Organization and also provides the link between BIMCO and IMO and other intergovernmental organisations, particularly those within the UN Ocean family, across the globe. Her role is to ensure that BIMCO's technical expertise can be best utilised by decisions makers- to support practical and harmonised regulation for the shipping industry.

She has a degree in chemical oceanography and a PhD in physical oceanography from the University of Liverpool, UK and applies that scientific knowledge to help understand the science-engineering-policy interface. She has expertise in operational oceanography and ocean observing. Her role at BIMCO means she leads on several issues relating to maritime industries and the environment including issues such as biodiversity beyond national jurisdiction, sea-based sources of marine plastics, biofouling management, whale strikes, scientific aspects of climate change and air and marine pollution.

She is a Trustee of Plymouth Marine Laboratory and is a Fellow of the IMarEST and of the Marine Biological Association of the UK and a Chartered Scientist and Chartered Marine Scientist.

Mr. Chris Waddington

Chris Waddington is Technical Director at the International Chamber of Shipping (ICS). He is responsible, in conjunction with the Nautical Director for the development and implementation of ICS policy on technical, operational and environmental regulatory risks affecting international shipping. He actively participates in IMO Committees and industry associations, to represent the interests of ICS Members, shipowners and operators.

The first 23 years of his career has been founded in the shipping sector, mainly working on the design, construction and operational support of passenger ferries. For the subsequent 15 years he has focused on the floating production sector of the Oil and Gas industry, project managing FPSO and FLNG design work, supporting field developments, and supervising procurement of floating production vessels. He has also acted as Lenders' Technical Advisor on behalf of banks and Export Credit Agencies. He is a chartered engineer, a Fellow of the Royal Institution of Naval Architects, and a member of the Society of Naval Architects and Marine Engineers.

Dr. Koushan

Kourosh Koushan is a Special Advisor at SINTEF Ocean and Adjunct Professor at the Norwegian University of Science and Technology. With a Ph.D. in Ship and Ocean Technology from Technische Universität Berlin, he has built a distinguished career in marine hydrodynamics, propulsion systems, and sustainable maritime technologies. He has held leadership roles including Research Director and Research Manager.

Koushan has managed numerous national and international research projects funded by the EU, the Research Council of Norway, and industry partners. His portfolio includes work on air lubrication systems, contra-rotating propellers, and noise prediction technologies. He is a founding chair of the International Symposium on Marine Propulsors and the International Symposium on Air Lubrication Technologies, and serves as Chairman of the ITTC Association.

Ms. Emilie Dorgeville

Emilie Dorgeville is Head of EU Projects at Maritime CleanTech, where she leads international collaboration and innovation initiatives focused on accelerating the transition to sustainable and energy-efficient shipping. She has extensive experience in coordinating large-scale EU Horizon-funded projects, with a particular focus on technologies that reduce underwater radiated noise and greenhouse gas emissions from vessels. Her work bridges industry, research, and policy stakeholders to foster cleaner, quieter oceans.

Ms. Natalie Quévert

Natalie Quévert has been a professional in the yachting sector since 2014. As Project Lead and General Secretary of the SEA Index®, a not-for-profit initiative by the Yacht Club de Monaco, she oversees and manages the delivery of an impartial, third-party verified CO_2 certification framework for the superyacht sector. In this role, she drives credible and transparent pathways toward yachting decarbonisation, equipping maritime stakeholders with trusted sustainability insights.

Her career in yachting began after earning a yachtmaster qualification, which marked a significant professional transition. She is an alumna of the University of Cambridge Institute for Sustainability Leadership, a certified professional with the CSRD Institute, and a graduate of the inaugural FMES (Mediterranean Foundation for Strategic Studies) SHEM programme—further strengthening her expertise in environmental governance within the maritime sector.

Ms. Rachel Ercole

With over 20 years of experience across the luxury hospitality and maritime sectors, my career has focused on finance, administration, and strategic development. I spent more than 15 years at the Grand-Hôtel du Cap-Ferrat, a Four Seasons Hotel, where I progressed from Executive Assistant to Finance Manager. In 2020, I joined the Yacht Club de Monaco as Financial Controller, and since 2025, I've also been contributing to development efforts for the SEA Index® Superyacht Eco Association, driving sustainability initiatives in the superyacht industry.

Holding a Master’s degree in Business Administration from IAE Nice, with a focused on Intercultural Management, I’m passionate about financial planning, cross-functional collaboration, and supporting purpose-driven projects.

Mr. E. Mete Sireli

E. Mete Sireli is a Senior Naval Architect with VARD Marine Inc., a leading naval architecture and marine engineering company in North America. He leads hydrodynamic and performance assessments across a diverse range of vessels and marine systems. His expertise spans resistance and propulsion, seakeeping, maneuvering, dynamic positioning, and CFD-driven design validation.

Mr. Sireli earned his M.A.Sc. in Coastal & Ocean Engineering from the University of British Columbia and earlier completed a M.Sc. in Naval Architecture & Ocean Engineering at the Istanbul Technical University. He received his B.Eng. in Naval Architecture & Marine Engineering at the Yildiz Technical University.

Prior to joining VARD, Mr. Sireli worked in both Canada and Ireland on marine renewable energy technologies. At Clean Current Power Systems, he contributed to hydrodynamic and structural designs of in-stream turbines and oversaw experimental programs including towing-tank tests. Later, at OpenHydro Technology, he led performance and R&D teams, introducing coupled CFD/BEM methods and driving design optimization for tidal turbines.

Mr. Sireli has participated in national and international collaborations, including roles with Natural Resources Canada’s ecoEnergy Innovation Initiative and the IEC’s TC114 subcommittee on marine energy standards. He is the co-author of several technical publications, holds patents in turbine and generator design, and is a registered professional engineer in Canada. He is fluent in English and Turkish and speaks German.

Mr. Publio Beltrán Palomo

Publio Beltrán Palomo holds an MSc in Naval Engineering from the Polytechnic Institute of Marine and Naval Engineers (Polytechnic University of Madrid), and an MBA from the School of Industrial Organization (Escuela de Organización Industrial – EOI).

After an initial career at GESI-Consulting, where he worked for seven years, he founded TSI – Técnicas y Servicios de Ingeniería in 1983, a company he has led for over four decades and which has become a benchmark in dynamic analysis, noise and vibration in the naval and industrial sectors.

With more than 44 years of experience and over 3,500 project references, Mr Beltrán is a recognized expert in vibration and noise analysis, particularly in sea trials, underwater radiated noise prediction, and the integrated management of vibration, airborne and underwater noise. His consulting expertise includes failure detection and diagnostics, predictive maintenance, monitoring systems and experimental dynamic testing.

He is deeply committed to training and knowledge transfer, regularly delivering professional seminars on Vibration and Noise on board ships and Condition-Based Maintenance (CBM), contributing to the technical development of the industry.

Mr. Santiago Molins Riera

Santiago Molins Riera is a Telecommunications Engineer from the Polytechnic University of Madrid (UPM), with pre-doctoral studies (Research Proficiency) from the Higher Technical School of Telecommunications Engineering (ETSIT – UPM).

His professional path has been shaped by a strong focus on research, innovation, and advanced technology, starting in the late 1990s with his involvement in publicly funded R&D projects in the Telecom sector. Over the years, he expanded his expertise into the Energy, Defence, HealthTech, Automotive, Aerospace, and Industrial sectors, leading multidisciplinary teams and cutting-edge innovation initiatives.

For more than two decades, he has managed R&D departments at several high-tech SMEs, with a particular emphasis on digital health, cybersecurity, embedded systems, and applied artificial intelligence.

In recent years, Mr Molins has brought his extensive cross-sector expertise into the naval industry, currently serving as Head of R&D at TSI. His work now focuses on the development of advanced solutions for underwater radiated noise, especially within the context of naval acoustic performance and also of marine renewable energy.

He is currently leading several forward-looking R&D projects integrating AI, predictive modelling, and dynamic analysis for URN abatement solutions, helping shape the future of maritime sustainability and acoustic management.

Mr. Thomas Folegot

Dr. Thomas Folegot is an internationally recognized expert in ocean acoustics, with over 30 years of experience in the field. He holds an M.Sc. in Physical Acoustics (1995) from École Centr
ale de Lyon and a Ph.D. in Physical Acoustics (2003) from the University of Paris. Dr. Folegot began his career as a scientist with the French Military Centre of Oceanography, focusing on ocean acoustic tomography. He later served as Project Manager for the French Ministry of Defence, where he led the design of the first high-frequency underwater Source Receiver Array.

Following a five-year tenure as a senior scientist and project leader at the NATO Undersea Research Centre (now CMRE), Dr. Folegot founded Quiet-Oceans in 2010. Quiet-Oceans was established to tackle the growing concerns around anthropogenic noise and its impact on marine life, aligning with emerging regulations.

As a member of the Technical Subgroup on “Noise” appointed by the European Commission, Dr. Folegot contributes his extensive expertise in ocean noise modeling, signal processing, and measurement. In addition to his scientific qualifications, he holds an Executive Master in Business Unit Management, bridging the gap between cutting-edge research and practical solutions for ocean sustainability.

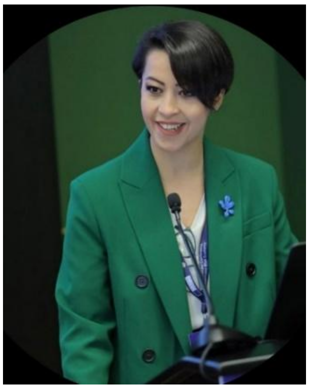
Mr. Per Trojgaard Andersen

Per has more than 25 years' experience with measurements, predictions, and troubleshooting within noise & vibration, underwater noise, architectural acoustics and speech intelligibility. Per has worked as project responsible discipline engineer on several large projects all over the world within energy, marine, industry and transport. Per previously worked as Operations and Managing Director for Vysus Denmark A/S. Here he also worked as Principal Consultant in the noise & vibration team within the energy and marine businesses. He has previously had the role of Technical Lead for Lloyds Register - Engineering Dynamics team. In this role he had the responsibility to mentoring and training staff, and maintaining the team's quality assurance ISO certification. Per has participated in ISO certification workgroups developing standards within sound and underwater noise. Per also works as an appointed expert witness for the Danish courts.

Dr. Mathias H. Andersson

Mathias H. Andersson, Deputy Research Director at the division of Underwater technology at FOI, the Swedish Defence Research Agency. I have a PhD in fish ecology and have been working 16 years in the field of bioacoustics. My main field of expertise is measurements of underwater noise from anthropogenic sound sources and their impact on marine animals, especially fish.

Ms. Sevtap Özdoğan



Sevtap Özdoğan is a senior maritime professional with extensive expertise in international and EU maritime policies, as well as the blue economy. She currently serves as the manager of the GloNoise project at the International Maritime Organization (IMO). With over two decades of experience in transport policy and project management, she has played a key role in the development and execution of numerous high-impact projects supported by the EU and the World Bank.

Mr. Maarten Verdaasdonk

Maarten Verdaasdonk is Project Manager at the North Sea Foundation in the Netherlands. This NGO is part of the Clean Shipping Coalition at IMO. Maarten is focused on reducing emissions to water by ships, such as discharges and underwater noise. During this workshop he is representing the international project DEMASK, in which the North Sea Foundation is a project partner.