

United Nations Open-ended Informal Consultative Process on Oceans and the Law of the Sea
Twenty-third meeting
5 – 9 June 2023
Panel
“New Maritime Technologies: Challenges and Opportunities”

Segment 1

New maritime technologies: the technologies, their uses and their contributions to sustainable development

Monday, 5 June
3 – 6 pm EDT

Panellist	Affiliation	Presentation
Sebastiaan “Bas” de Vos	Algae Specialist, SeaH4	<i><u>Ulva (seaweed) as a biofuel feedstock</u></i>
Madadh MacLaine	Founder and Secretary General, Zero Emissions Ship Technology Association (Zestas)	<i><u>Zero Emissions Ship Technologies and Ocean Health’s Impact on Climate Change</u></i>
Jörn Schmidt	Chair of ICES Science Committee	<i><u>ICES Perspectives on New Maritime Technologies</u></i>
Kathleen O’Neil	Deputy Director, NWS National Data Buoy Center	<i><u>New Maritime Technologies</u></i>
Linda Weilgart	Adjunct Professor in the Department of Biology, Dalhousie University, Canada, and Senior Ocean Noise Expert and Policy Consultant for OceanCare	<i><u>Best Available Technology (BAT) for Mitigating Three Noise Sources: Shipping, Seismic Airgun Surveys, and Pile Driving</u></i>
Mark Sokol	Director, FiberSense and Chief Technology Officer, AtlasEdge	<i><u>New maritime technologies & contributions to sustainable development: Distributed Acoustic Sensing</u></i>

Segment 1*New maritime technologies: the technologies, their uses and their contributions to sustainable development***Tuesday, 6 June****10 am - 1 pm EDT**

Panellist	Affiliation	Presentation
Nguyen Ba Thuy	Deputy Director, Vietnam National Centre for Hydrometeorological Forecasting	<i><u>Forecasting for sustainable development of marine economy</u></i>
Noah Silberschmidt	CEO/Founder, Silverstream Tech	<i><u>Changing the world with billions of bubbles</u></i>
Peer Fietzek	Senior Business Development Manager Ocean Science, Kongsberg Discovery	<i><u>Shaping the Future Ocean Observing & Services Market – Maturing the Ocean Enterprise</u></i>
Natalie Andersen	Scientific Lead, International Programme on the State of the Ocean (IPSO)	<i><u>Is the ocean our climate savior? Emerging maritime technologies and the need for a precautionary approach</u></i>
Gavin Allwright	Secretary General, International Windship Association (IWSA)	<i><u>Wind Propulsion: Meeting the Sustainable Shipping Challenge</u></i>
Luca Centurioni	Director, Lagrangian Drifter Laboratory, Scripps Institution of Oceanography; Principal Investigator of the Global Drifter Program	<i><u>New opportunities for global ocean observing: a scientific research and operation perspective</u></i>

Segment 1***New maritime technologies: the technologies, their uses and their contributions to sustainable development*****Tuesday, 6 June****3 - 6 pm EDT**

Panellist	Affiliation	Presentation
Elizabeth Jewett	Director, United States National Oceanic and Atmospheric Administration Ocean Acidification Program	<u><i>Role of Marine Technologies in the Implementation of marine Carbon Dioxide Removal (mCDR)</i></u>
Tarmo Soomere	Professor of Coastal Engineering, Laboratory of Wave Engineering, Department of Cybernetics, School of Science, Tallinn University of Technology; President, Estonian Academy of Sciences	<u><i>Vessel detection, localization and identification based on wake measurements</i></u>
Lisa Levin	Distinguished Professor Emerita at the Scripps Institution of Oceanography, University of California, San Diego	<u><i>New Technology to Enable Sustainability in the High Seas and Deep Ocean</i></u>
A.J. Reiss	Director, NWS Ocean Prediction Center	<u><i>New maritime technologies: the technologies, their uses and their contributions to sustainable development - "from the Mariners Perspective."</i></u>
Douglas McCauley	Professor, University of California Santa Barbara; Adjunct Professor, University of California at Berkeley; Director of the Benioff Ocean Science Laboratory	<u><i>Leveraging marine technology and data science to identify regions for protection in areas beyond national jurisdiction</i></u>
Ellen Pikitch	Endowed Professor of Ocean Conservation Science; Institute for Ocean Conservation Science, School of Marine and Atmospheric Sciences; Stony Brook University	<u><i>Accelerating the power and reach of eDNA for ocean observation</i></u>

Segment 2

International cooperation and coordination in promoting new maritime technologies for sustainable development

Wednesday, 7 June

10 am - 1 pm EDT

Panellist	Affiliation	Presentation
Frida Armas-Pfirter	Professor of Public International Law - Buenos Aires University and Austral University - Argentina	<u><i>International cooperation on new maritime technologies under UNCLOS and related instruments</i></u>
Júlia Schütz Veiga	Researcher at the Research Center on Law of the Sea at the University of São Paulo	<u><i>Who owns the ocean? Ensuring the transfer of marine technology to achieve equity among States</i></u>
Masanori Kobayashi	Senior Research Fellow, Ocean Policy Research Institute	<u><i>Promoting ocean based renewable energy and decarbonization in island countries and local communities – Enabling factors and challenges</i></u>
Nicolas Entrup	Director International Relations, OceanCare on the Results of the SAVeWhales Project, Challenges and Next Policy Steps	<u><i>The SAVe Whales Project Challenges and next policy steps</i></u>
Bruce Howe	Chair, Joint Task Force for SMART Subsea Cables; Research Professor, University of Hawai'i at Mānoa	<u><i>SMART Subsea Cables: Science Monitoring And Reliable Telecommunications</i></u>
Emma Heslop	Acting Director Global Ocean Observing System	<u><i>Evolving global ocean observing with the private sector</i></u>

Segment 2

International cooperation and coordination in promoting new maritime technologies for sustainable development

Wednesday, 7 June

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Panellist	Affiliation	Presentation
Kelly Goodwin	Marine microbiologist; NOAA Ocean Exploration; Omics Portfolio Manager for NOAA /OAR	<u><i>Biomolecular Ocean Observations</i></u>
Sylvain Gambert	Policy Officer for Environment and Oceans, Delegation of the European Union to the United Nations	<u><i>Capacity-Building and the Transfer of Marine Technology under the BBNJ Agreement</i></u>
José Dallo	Director, Office of Environmental Management and Mineral Resources, International Seabed Authority	<u><i>ISA's Technology and Monitoring Road Map</i></u>
Kim Friedman	Senior Fishery Resources Officer and Team Leader, Resilience	<u><i>Ocean Technologies for People and the Rest of Nature</i></u>
Jon Kaye	Gordon and Betty Moore Foundation, Program Director (Science), and Member of the Ocean Decade Technology and Innovation Informal Working Group	<i>Roles for Philanthropy in Supporting Technology Development</i>
Anya Waite	Co-Chair of IOC Global Ocean Observing System Steering Committee; Scientific Director and CEO, Ocean Frontier Institute; Professor, Dalhousie University	<u><i>An Ocean of Information</i></u>