

CHALLENGES AND INNOVATIONS IN GREEN SHIPPING, DIGITAL TWINS FOR OCEAN HEALTH AND MARITIME CONNECTIVITY

Monday 15 April 2024, 15.00-15.50

Lead: School of Naval Architecture & Marine Engineering National Technical University of Athens
Co-organizers: Dept. Environmental Engin. DU Thrace, School Geoinformatics Engin. NTU Athens

The side event aims to

- (i) Present recent advances in Green Shipping concerning reduction of emissions, energy saving, ship electrification and alternative fuels, and the regulatory landscape, on the basis of work in recently EU funded projects, with parallel presentation of key results.*
- (ii) Discuss technological advances, legislative enforcement and policy implications to minimize ocean pollution, and particularly oil spills, through the newly-introduced concept of Digital Twins. The discussion will explore the concept of Digital Twins, which involves mirroring real-world systems in virtual digital space and vice versa, through the experience of the Iliad project.*
- (iii) Presentation of the role of Maritime Connectivity Platforms (MCPs) in bolstering ocean security and fostering sustainable shipping. Discussions will range from the integration of cutting-edge maritime services like IoT, AI, and blockchain to the implications of increased connectivity on autonomous shipping and eco-friendly shipping practices. delve into effective data sharing and collaborative strategies, tackle regulatory challenges in maritime operations, and address cybersecurity within maritime connectivity.*



SIDE EVENT AGENDA

Chairperson Prof. Kostas Belibassakis, School NA&ME NTU Athens

15.00-15.03	Session introduction Prof. Kostas Belibassakis, School Naval Architecture & Marine Engineering NTU Athens
15.03-15.15	Green Shipping: Recent advances Prof. Dimitris Lyridis, School NA&ME NTU Athens
15.15-15:30	Digital Twin for Ocean Health Prof. Georgios Sylaios, Dept. Environmental Engineering DU Thrace (incl. discussion with panelists moderated by the presenter)
15.30:15:45	Open Earth Science and Maritime Connectivity Dr Stelios Contarinis, School Geoinformatics Engin. NTU Athens (incl. discussion with panelists)
15:45-15:50	Discussion – interaction with the audience



OUR OCEAN

GREECE - APRIL 15-17, 2024

AN OCEAN OF POTENTIAL

