Robotics in Marine & Maritime Environmental Monitoring

Robotics in Marine & Maritime Environmental Monitoring Piraeus Business Center - April 29, 2022			
SESSION	**TIME**	**SPEAKER - AFFILIATION**	**TITLE**
REGISTRATION	09:45 – 10:00		
OPENING SESSION	10:00 – 10:15	Dr. Gregory Yovanof STRATEGIS Maritime ICT Cluster	STRATEGIS - Activities in Blue Robotics & the MAQUAM project
UNDERWATER ROBOTICS **Blue RoSES Project**	10:15 - 10:45	Dr. Massimo Caccia Director of Research, CNR-INM, Italy	The Blue-RoSES Project
	10:45-11:00	Jose de la Maza, IMCW Europe, Spain	Blue-RoSES Business Case & next steps
MARINE ROBOTICS	11:00 - 11:30	Dr. Nikos B. Pronios Innovate UK	Subsea Autonomous Systems: next generation technologies & applications
	11:20 – 11:40	Dimitris Kosmidis TECHNOSCAPE	Water Quality Monitoring / Inland & Coastal areas
COFFEE BREAK	11:40-12:00		
SHIPPING & MARITIME	12:00 – 12:10	Bureau Veritas Classification society Dr. John Kokarakis, Technical Director	Regulating shipping emissions, present and future
	12:10 – 12:25	ALTUS LSA Manolis Batzelis	Land – Sea – Air Unmanned systems and innovative solutions for shipping
	12:25 – 12:40	Maritime Technology Innovative Solutions [MTIS] G. Christakos	UAS Emissions Monitoring Real-time ship emissions compliance measuring system
	12:40 – 12:55	Prof. Nikitas Nikitakos Univ. of the Aegean - Dept. of Shipping Trade & Transport	Robotics and Security Issues in Marine & Maritime Environmental Monitoring
ENABLING TECHNOLOGIES & GLOBAL ISSUES	12:55-13:10	N. Mentis ERICSSON	Robotics and 5G
	13:10-13:30	L. Perivoliotis HCMR - Hellenic Centre For Marine Research	Ocean gliders in Marine Research
LUNCH	13:30 – 14:00		

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Seas and the ocean are the least-explored region of the Earth. Nonetheless, oceans cover most of the Earth's surface and host most of its biodiversity.

The UN has proclaimed a Decade of Ocean Science for Sustainable Development (2021-2030) to support efforts to reverse the cycle of decline in ocean health and gather ocean stakeholders worldwide behind a common framework. SDG 14 "Life below water", one of the 17 Sustainable Development Goals established by the United Nations in 2015 aims to "Conserve and sustainably use the oceans, seas and marine resources for sustainable development".

The efficient monitoring of the environmental conditions of the ocean, seas & inland waterbodies play a critical role in the implementation of any strategic plan for marine & maritime sustainable development. Standard monitoring technologies & operations are affected by high complexity, labor intensity, high cost, inability to operate in remote areas and under harsh environmental conditions.

Advances in blue technologies and a new generation of marine robotic systems have the potential to revolutionize the monitoring of the marine and marine environment on a global scale, offering the ability to collect and process data in unprecedented spatial and temporal resolution.

The workshop on "Robotics in Marine & Maritime Environmental Monitoring" brings together professionals and executives from research institutes, academia, industry, and the regulatory field with the aim to draw a picture of the state-of-the-art in blue robotics with applications in marine monitoring and marine environment; present cases of innovative product and service solutions; and identify opportunities for new business development in the marine and maritime sustainable development sector.

Following the workshop at the same venue there will be a presentation of the ERASMUS+ program, MaQuaM "International Qualification on Marine and Tourism for the Mediterranean Harbors." The MaQuaM training program will be delivered by Strategis Maritime Center of Excellence in collaboration with the GMC Maritime Training Center & Maritime Academy from May to Oct. 2022 to a group of 30 Greek students (free of charge).

The workshop on *"Robotics in Marine & Maritime Environmental Monitoring"* is co-organized by Strategis Maritime ICT Cluster and the EMFF project, BlueRoSES "Blue Robotics for Sustainable Eco-friendly Services for Innovative Marinas and leisure boats".

It is a free workshop, open to the public, but pre-registration via email is required.

Workshop: **Robotics in Marine & Maritime Environmental Monitoring**
Place: Piraeus Business Center, Agiou Dimitriou 41, Pireas 185 46
Date: April 29, 2022. **Time**: 10:00 – 14:00
Registration: robotics@strategis-cluster.net (**Deadline**: EOB April 27, 2022)