

MARINE AUTONOMY & TECHNOLOGY SHOWCASE

TUESDAY 05 NOVEMBER 2024

TIME	EVENT TITLE	PRESENTER	ORGANISATION
12.00	Welcome Lunch		
13.00	Welcome featuring a Pre-recorded Keynote message from Mike Kane MP Minister for Aviation, Maritime and Security	Huw Gullick	National Oceanography Centre
13.30	Dr John Siddorn NOC's Chief Executive who will share his thoughts on the role of autonomy and the challenges for the future in his keynote slot at the Marine Autonomy & Technology Showcase.	Dr John Siddorn	National Oceanography Centre
13.50	Navigating AI in Yachting	Conrad Humphreys international yachtsman	
14.15	Winds of Change – Fast Rig a world first trial in fixed wing sails for commercial shipping	Prof Damon Teagle	University of Southampton and Smart Green Shipping
14.35	Future Marine Research Infrastructure: Opportunities to advance integration for greater impact (FMRI)	Dr Katy Hill	NERC FMRI
15.00	Panel Discussion	Hosted by Huw Gullick	
15.20	Theme 1: The Blue Economy, Sustainability and Future Marine Research Infrastructure	Victoria Savage and Mark Hamson , Session Chair	National Oceanography Centre
15.40	A Zero Carbon Method to Recover Ocean Data	Mark Burnett	Seiche

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16.00	Increasing Essential Ocean Variable Measurements Through Scientific and Industrial Collaboration	Dr Sara Fowell	National Oceanography Centre
16.20	Refreshments		
16.50	Boaty McBoatFace's Adventures in the Iceland Basin	Alex Phillips	National Oceanography Centre
17.15	ORE Catapult's 'Accelerating Consenting for Offshore Renewables Deployment' (ACORD) Programme	Melissa Sandison	ORE Catapult
17.35	Panel Discussion	Mark Hamson	
18.00	Funding Opportunities, Join Mark Hamson, Catherine Colby-Johnson and Elizabeth Cluytton to hear information on upcoming opportunities.	Mark Hamson	
18.30	MA Challenge 2025	Geraint West	
19.00	Drinks Reception	Sponsored by National Oceanography Centre Innovations Centre	

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WEDNESDAY 06 NOVEMBER 2024

TIME	EVENT TITLE	PRESENTER	ORGANISATION
8.30	Welcome Coffee		
9.15	Welcome Day Two and NOC NEWS	Alex Phillips	National Oceanography Centre
9.30	Theme 2: Robotics and Remote Data Collection	Dr Sara Fowell, Session Chair	National Oceanography Centre
9.50	Adaptive Sampling Techniques Using Autosub Long Range AUVs for Environmental Impact Monitoring in Deep-Ocean Exploration/Exploitation: The TRIDENT Project	Georgios Salavasidis	National Oceanography Centre
10.10	Advancing Beyond the Horizon: Overcoming Technical Challenges in Remote Robot Operations via Satellite Connectivity	Axel Durbec	Exail
10.30	Remote Data Collection for Seagrass Mapping	Nicholas Swift	Wavefront Systems
10.50	Smart Ports, Clean Waters - a USV-based water quality monitoring pilot in South West England	David Hull	Hydro-Survey
11.10	Refreshments		
11.30	Developments in Arctic sea ice thickness measurements using a long range AUV	Dr Sourav Sahoo	National Oceanography Centre
11.50	Tightly integrated, visual-based 3D real-time quality control enabling autonomous inspections	Mike Gallo	EIVA

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12.10	Using Autosub Long-Range to monitor Marine Protected Areas - example in the Fladen Grounds	Samual Stanton	National Oceanography Centre
12.30	Lunch		
13.20	NAUTILUS UUV	Luca Dofing	NAUTILUS ARIS (Academic Spaceflight Initiative Switzerland)
13.40	The SeaExplorer glider line latest developments overview, a new glider, a new payload and new piloting capabilities.	Jeremy Sitbon	Alseamar
14.00	Panel session		
14.20	Theme 3: Artificial Intelligence (AI) and Machine Learning in the Maritime World	Dr Katy Hill, Session Chair	MEDIN Chair
14.50	Advancements in Marine Autonomy: Remote & Real-Time Data Collection Techniques	Mark Burnett	Seiche
15.15	Project MARLIN: Machine Learning for Classifying Marine Mammal and Vessel Activity	Martin Stemp	RS Aqua
15.35	Refreshments		
15.55	Advancing AI for Uncrewed Systems	Justin Manley	Open Ocean Robotics
16.15	Maximising the quality of AI-based seabed object detection	Natasya Savina	Seabed.AI
16.35	Using a digital twin to Bring researchers closer to ocean glider observations	Justin Buck	National Oceanography Centre

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16.55	Robust control for AUV control in turbulent flows	Artur Lidtke	Maritime Research Institute Netherlands (MARIN)
17.20	Building a Data Science Platform for rapid data analysis and machine learning	Colin Sauze	National Oceanography Centre
17.40	Using ML algorithms to develop a low power cetacean vocalisation classifier	Clemen Kok / Aranya Gupta	Imperial College
18.00	Panel Session		
18.30	Drinks Reception	Sponsor to be EXAIL	
18.00	Hydrographic Society	The NOC Seminar Room	

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THURSDAY 07 NOVEMBER 2024

TIME	EVENT TITLE	PRESENTER	ORGANISATION
8.30	Welcome Coffee		
9.15	Welcome Day Three and NOC NEWS	Maaten Furlong	National Oceanography Centre
9.30	Theme 4: Autonomous Platforms: the Next Generation and Supporting Technology	Chloe Yarrien, Session Chair	BMT
9.50	Connecting subsea to satellites	George Morton	Online Oceans
10.10	Delivering Marine Robotic launch, recovery and residency through acoustic and optical positioning, communications and navigation	John Houlder	Sonardyne
10.30	Designing for and assuring situational awareness for remote operation	Matt Smith	BMT
10.50	Achieving Class Society Certification for a COLREGS Complaint Autonomous Tug	Nigel Lee	Robosys Automation
11.10	Refreshments		
11.30	Persistent Autonomy: long range AUV operations utilizing alternative energy sources	Richard Mills	Cellula Robotics Ltd
11.50	Enabling resident subsea operations through autonomous charging station technology	Graceann Robertson	Verlume

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12.10	Architecture for future autonomous vessels	Dan Hook	RAD Propulsion
12.30	Panel Discussion		
12.45	Lunch		
13.30	Next-Generation Autonomous Vessels: Innovation in Marine Sensing	Anahita Laverick	OSHEN Ltd
13.50	Unmanned surface Vessels driving sustainable and safer operations with diverse capabilities	David Rennie	Unique Group
14.10	Optimizing and securing Autonomous Underwater Vehicles navigation through a tight integration of INS and various acoustic solutions (DVL, USBL, LBL)	Ludovic Bazin	Exail
14.30	Refreshment		
14.50	Maritime Nested Robotics	John Hunnibell	ACUA Ocean
15.10	Marine Autonomous Systems and their role in oil spill responses of the future	Jonathan Beaumont	Oil Spill Response Ltd
15.30	ecoSUB goes deep – affordable AUV systems deployed down to 2,000m!	Iain Vincent	ecoSUB Robotics
15.50	Enhanced autonomous survey capabilities with ROTVs	Mike Gallo	EIVA
16.15	Panel Discussion		

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16.30

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