National
Oceanography
Centre

MARINE AUTONOMY & TECHNOLOGY SHOWCASE

8-10 NOVEMBER 2022
EVENT PROGRAMME

TIME	EVENT TITLE	PRESENTER	ORGANISATION
9.30	Exhibits Open		
10.00	Welcome and NOCNews	Huw Gullick	National Oceanography Centre
10.20	Keynote	Stuart Baker	Maritime UK Solent / Solent Local Enterprise Partnership
10.50	Keynote	Tim Gallaudet	CEO of Ocean STL Consulting
11.20	Keynote	Cdr Tuckett	Royal Navy
11.50	Keynote	Carlo Pinto	Sulmara
12.20	Panel discusssion		
12.50	Lunch Exhibits		
13.50	Theme 1 - Sustainability and Net Zero Capability	Peter Collinson	
14.15	Autonomous Lab-on-Chip Biogeochemical Sensors on the RAPID East Mooring Array	Dr Sara Fowell	National Oceanography Centre
14.35	Quantifying the Environmental Benefits of Autonomy	Aaron McMaster / Hugh Williams	BMT
15.00	Saildrone 'A Chronological History Of Applications To Date And The Near Future'	Trevor Hughes	Saildrone
15.20	Demonstration of new in-situ biogeochemical sensors integrated in the Autosub Long Range (aka 'Boaty McBoatface')	Matt Mowlem	National Oceanography Centre
15.40	A New USV for OWF BoP Inspection and Survey	Fabio D'Agostino	UTEC - Acteon Geo-Services
16.00	NZOC: Risk Sharing in Innovation, Testing and Delivery	Dr Kristian Thaller	National Oceanography Centre
16.20	Panel discusssion		
16.50	MAChallenge Overview 2021 and launch 2023	Aidan Thorn	SMI
17.15	Icebreaker Reception		

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9.00	Exhibits		
9.15	Welcome and NOCNews - ALR / LOC	Alex Phillips	National Oceanography Centre
	Alex Phillips talking about ALR with Guest Speaker Daniel Jones talking about the AT-SEA project	Dan Jones	National Oceanography Centre
9.50	Theme 2 - Users & Applications	Aidan Thorn	Sonardyne
10.10	YUCO micro-AUV – case studies from Dalhousie University, JERICO, and REP(MUS) 2022'	Nathan Hunt / Hugh Williams	RS Aqua
10.30	Marex	Greg Trunnell	Marex
10.50	Tea / Coffee		
11.10	Multi-domain Collaborative autonomy:	Nigel Lee	Robosys
11.30	Successful Demonstration of the Towed Array Glider	James King / Mark Burnett	Blue Ocean Marine Tech Systems / Seiche Group
11.50	The use of Artificial Intelligence / Machine Learning for the automated processing of bathymetry data	Richard Dowdeswell	GeoAccoustics Ltd
12.10	Enabling efficient remote and autonomous robotics inspections	Antonio Felipe Silva	EIVA Ltd
12.30	Panel discusssion		
12.50	Lunch Exhibits		
13.40	Theme 3 - Data Collection and Information Generation	Matt Kingsland	National Oceanography Centre
14.00	Using Single Turnover Active Fluorometry to monitor primary productivity on wide spatial and temporal scales	Kevin Oxborough	Chelsea Technologies Ltd / University of Southampton
14.20	Bioglider Project	Laurent Mortier	ENSTA
14.50	Shallow water seagrass mapping: USV-based acoustics, deep learning algorithms and cloud-based hosting assessing Natural Capital	Tim Scott	University of Plymouth
15.15	Break		
15.35	Rapid environmental characterisation: delivering actionable information for the offshore energy sector	Aidan Thorn	Sonardyne
15.55	Using Mutli-Sensor AUV's for Complete Monitoring of Marine Protected Environments	Brendan St John	VOYIS
16.15	Deployment of Oceanids BioCam on Autosub Long Range: High-resolution visual mapping with over-the-horizon quality control for future ship-free seafloor surveys	Adrian Bodenmann	University of Southampton
16.35	Automated interpretation of AUV imagery for monitoring seagrass distribution in Studland bay	Miquel Massot-campos	University of Southampton
16.55	Panel discusssion		
17.20	Marine Robotics Innovation Centre Reception	Huw Gullick / Mark Hamson	National Oceanography Centre

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9.00	Exhibits		
9.15	Welcome and NOCNews - NZOC	Maaten Furlong	National Oceanography Centre
	Maaten Furlong talking about NZOC with Guest Speaker Veerle Huvenne talking about Autosub 5 on JC237	Veerle Huvenne	National Oceanography Centre
9.50	Theme 4 - Planning & Control	Nathan Hunt	RS Aqua
10.10	Enabling MASS operations in port waters.	Tim Wilkes	NASH Maritime
10.30	Robotic and Autonomous Maritime Systems – Building the next generation maritime workforce	Gordon Meadow	SeaBot Maritime Ltd
10.50	C2 in a Box: Enabling Science with MAS in Remote Offline Environments	Ashley Morris	National Oceanography Centre
11.10	To me. To you. Building the systems for remote operation of autonomous USV fleets.	Howard Tripp	L3Harris ASV
11.30	Oceaneering Subsea Autonomy & Residency – The future of truly uncrewed operations	Alexander Steele	Oceaneering
11.50	Panel Discussion		
12.10	Theme 5 - Autonomous platforms and supporting technology	Dan Hook	Ocean Infinity
12.30	GROOM II - Designing the future European Glider Research Infrastructure	Alvaro Lorenzo Lopez	National Oceanography Centre
12.50	Security and cyber-resisiance of maritime autonomy technology	Kimberley Tam	University of Plymouth
13.10	Lunch Break / Exhibits		
14.10	Validating Combined Navigational Sensor Packages for Small Vehicle Platforms	Rory Findlay	Nortek
14.30	Virtual buoys as a tool to aid safer navigation of autonomous vessels	Babak Khodaparast	Clean Oil International
14.50	The Future of Autonomous Systems Collaboration: AUV + USV Remote Supervision & Communication	Olivier Cervantes	EIVA AS
15.10	Break		
15.30	Novel missions using a fuel cell powered autonomous underwater vehicle	Adrian Woodroffe	Cellula Robotics Ltd
15.50	Expanding capabilities of the micro/small AUV class: ecoSUB Robotics	Iain Vincent	Planet Ocean
16.10	Learning Navigation: From Model-Based to Machine-Learning Approaches for Autonomous Underwater Vehicle Navigation	Itzik Klein	University of Haifax
16.30	Mayflower Autonomous Ship - Lessons Learnt	Aranya Mitra	Msubs Ltd
16.45	Round Up & Panel Discussion		
17.05	Finish		

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Find out more at National Oceanography Centre.ac.uk