



National
Oceanography
Centre

2020 MARINE AUTONOMY & TECHNOLOGY SHOWCASE

MATS 2020 Programme 10th November

10.00	Exhibition opens		
10.50	Introducing Huw Gullick Associate Director Strategic Business Development	National Oceanography Centre (NOC)	Aidan Thorn Huw Gullick
11.10	Welcome to MATS2020	National Oceanography Centre (NOC)	Professor Ed Hill CBE
11.25	Sea-Kit Presentation	Sea-Kit	Nick Swift
11.55	Woods Hole Oceanographic Institution Presentation	Woods Hole Oceanographic Institution (WHOI)	Leslie-Ann McGee
12.25	Q&A Panel session		All above
13.05	Users and Applications Session Chair Theme	National Oceanography Centre (NOC)	Professor Doug Connelly
13.20	Developing AutoNaut USV for high latitude extreme environments	AutoNaut	Mike Poole
13.40	The Armada fleet	Ocean Infinity	Michael King
14.00	The design of a low-cost autonomous surface vehicle for tracking the fine-scale movements of fish	Bangor University	John Zachary Nash
14.20	Characterising subsea chemical sources with autonomous sensors	National Oceanography Centre (NOC)	Dr Allison Schaap
14.40	Round up and panel discussion	National Oceanography Centre (NOC)	Professor Doug Connelly
15:00	Finish		

MATS 2020 Programme 11th November

10.00	Exhibition opens		
10.20	Net Zero Oceanographic Capability (NZOC)	National Oceanography Centre (NOC)	Leigh Storey Aidan Thorn
10.40	Generating Information from Data Session Chair Theme	Independent	Peter Collinson
11.00	Fast, Faster, Fastest Meeting the need for accurate measurements of speed through water during America's Cup training	Nortek	Torstein Pedersen
11.20	Extracting the maximum value from geospatial data	EIVA	Matthew Brannan
11.40	How can simulation build trust in autonomous systems	Abyssal	Manuel Parente
12.00	Unmanned bathymetric survey in UK waters Utilising CARIS Mira AI and globally-distributed Nippon Foundation / GEBCO training	University of New Hampshire	Rochelle Wigley
12.20	Round up and panel discussion	Independent	Peter Collinson
13.05	Planning and Control Session Chair Theme	BMT Group	Dan Ridgewell
13.20	Oceanids C2 Piloting from an armchair	National Oceanography Centre (NOC)	Ashley Morris Alvaro Lorenzo Lopez

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13.40	Regulating autonomy	Maritime and Coastguard Agency	Katrina Kemp
14.00	Evolving networking philosophies for exploitation of autonomous maritime offboard assets	BMT Group	Ben Lindley-Start
14.20	Adaptive autonomous mission planning	L3Harris	Howard Tripp
14.40	Learning from experience to build confidence in MAS planning and control	Thales UK	Stewart Radcliffe
15.00	Round up and panel discussion	BMT Group	Dan Ridgewell
15.30	Overview of the Oceanids programme	Oceanids	
15.55	Workshop discussion Split into three groups	Oceanids	
16.15	Workshop discussion Swap groups	Oceanids	
16.35	Round up and results	Oceanids	
15:15	Finish		

MATS 2020 Programme 12th November

10.00	Exhibition opens		
10.20	Marine Robotics Innovation Centre 5 years of partnership	National Oceanography Centre (NOC)	Aidan Thorn
10.40	Data Collection Session Chair Theme	Nortek	Claire Cardy
11.00	Maritime autonomous systems (MAS) sensor design Integrated instruments or open architectures? Not a binary answer	Sonardyne	Ioseba Tena
11.20	UUV operations in complex mission and training environments	General Dynamics Mission Systems	Graham Clark
11.40	Autonomous systems at Projeto Azul	Collecte Localisation Satellites (CLS Group)	Marc Lucas
12.00	Measurement of dissolved methane using surface plasmon sensor	National Oceanography Centre (NOC)	Rand Ismaeel
12.20	Round up and panel discussion	Nortek	Claire Cardy
13.00	The System Session Chair Theme	Ocean Infinity	Dan Hook

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13.15	Amphibious crawlers for the coastal environment	Wight Ocean	Graham Lester
13.35	The key design stage considerations for the assurance and certification of autonomous systems	BMT Group	Chloe Woodger-Smith
13.55	Using one robot to deploy another robot Deploying an ocean glider in remote locations	University of East Anglia - Autonaut	Beth Siddle - Ali Nichol
14.15	The introduction of networked low cost AUVs for seabed mapping	Planet Ocean	Iain Vincent
14.35	Autonomous offshore power systems	EC-OG	Paul Storch
14.55	Sea trial results from an experimental fuel cell powered, long range, autonomous underwater vehicle with anchoring capability	Cellula Robotics	Adrian Woodroffe
15.15	Round up and panel discussion	Ocean Infinity	Dan Hook
15.30	Overview of the week	National Oceanography Centre (NOC)	Aidan Thorn
15:45	Finish		



Panel discussion at MATS2019 in NOC Southampton



**National
Oceanography
Centre**

Registered Address

European Way
Southampton
SO14 3ZH
United Kingdom

Joseph Proudman Building
6 Brownlow Street
Liverpool
L3 5DA
United Kingdom

+44 (0)23 8059 6666

+44 (0)151 795 4800



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