

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. | 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 | Dr Katy Hill | National Oceanography Centre |
| 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 | Sara Fowell | National Oceanography Centre |
| 15.00 | 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 | | |
| 18.00 | Funding 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 | 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 | |

MARINE AUTONOMY & TECHNOLOGY SHOWCASE

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 Yarren, 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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