

MARINE AUTONOMY & TECHNOLOGY SHOWCASE

12-14 NOVEMBER 2019

National Oceanography Centre

conference.noc.ac.uk/matshowcase

MATS 2019

Day 2 – Theme 2 – Planning and Control Chaired by Ben Pritchard – Thales UK



Mr. Alvaro Lorenzo-Lopez:

Senior Software Engineer – National Oceanography Centre
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OCEANIDS C2 - A unified command and control infrastructure for the NERC long range fleet.

Mr. Alvaro Lorenzo-Lopez: is a Senior Software Engineer in the Marine Autonomous and Robotic Systems Development group at the NOC. He has been working with underwater gliders for 10 years, progressing from a junior technician to be in charge of defining the piloting strategies for over the horizon operations of gliders. Liaise with different stakeholders (DSTL, NATO...) to maximize the scientific impact of several high profile missions (MASSMO). He is the delivery lead for the NERC £3M NERC Oceanids Command and Control (C2), developing a unified software infrastructure to unify the piloting of the UK long range fleet and automating the data delivery for the UK science community.

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Dr Stewart Radcliffe

Maritime Autonomous Systems Technical Lead - Thales

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Experimenting with an Integrated Mission Management Systems for Maritime Autonomy

A substantial part of Stewart's more than 20 years of experience, 12 years of which have been with Thales, has been focused on research and feasibility projects in both technical and leadership roles with an emphasis on collaborative activities. In addition to significant experience in the maritime domain following on from his PhD research into the impact of the ocean structure on acoustic propagation at the University of Southampton, Stewart has worked across a range of environmental domains. Stewart is providing leadership in the development of Thales UK's capability and assurance in Maritime Autonomous Systems. This builds on the significant achievements of the company's Maritime Mine Countermeasures (MMCM) project that delivers an assured, multi-platform, system of systems capability and the Thales Maritime Autonomy Centre at Turnchapel Wharf, Plymouth. Stewart's focus is on the rapid changes in the problems that are being faced, and how they can be solved.

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Hannah Thomas

Data Science lead - L3Harris

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The Autonomy Toolbox Enabling Safe Autonomous Navigation in Real-World Field Operations.

Hannah Thomas is the data science lead at L3Harris ASV with expertise in machine learning and AI. She has worked in these areas across various industries, including investment banking and autonomy. Hannah has a Masters degree in Mathematics and Computer Science from the University of Oxford and enjoys explaining and teaching machine learning and data science techniques in industry.

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Miss Chloe Woodger-Smith

Engineer, Mission Systems - BMT

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Simulation Methods for Novel Autonomous System Applications

Chloe Woodger-Smith is an Engineer in the Mission Systems team at BMT. She graduated Swansea University with a degree in Theoretical Physics before joining QinetiQ on their magnetic trials and analysis team. Chloe has been at BMT for three years, in which time she has worked on the MoD's Common Support Model, BMT's Venator 110 ship concept design and most recently as an embedded team member in the MoD Mine Countermeasure and Hydrographic Capability team working on Project Wilton.

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DAVID GENTLE

Vice President of Business Development

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Coordination of Multiple Marine Assets for Port Security - ANTX 19 Exercise

Dave is currently Vice President of Business Development at ION. In this role he is responsible for exploring new markets for ION's dual use technologies developed over five decades in the Oil and Gas Seismic Exploration business. Dave has 25 years of experience in the Marine Technology sector managing business and product development for software command and control systems and marine survey equipment. He has held various operations and business management positions within the ION companies. Dave obtained a B.Sc. Degree in Physics from Heriot-Watt university in 1993 and was a member of the RAF Universities Air squadron based at RAF Turnhouse.

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Rafael Simão

Abyssal– CEO

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How to leverage Subsea Digitalization to Plan & Control the operation of MAS

Rafael is an economist and MBA from the University of Porto Business School. He is the co-founder and CEO of Abyssal and has over 15 years of experience in managing complex projects and teams. Prior to founding Abyssal, he was responsible for raising capital and managing several investment projects in different institutions and industries. Rafael has a particular interest in Finance, Entrepreneurship and Technology Commercialization and, for the past years, has co-founded and been involved in the creation of several science-based companies.