Steve McPhail (NOC) and **Prof Alberto Naveira Garabato** (University of Southampton)

Boaty's perilous adventure this April in the deep Southern Ocean – and future plans for the Autosub long Range AUV

Steve McPhail led the development of the Autosub6000 and ALR AUVS, and currently heads the AUV development team at NOC. During a career of 36 years he has participated in far too many science cruises to remember, supporting platforms ranging from free-fall seabed penetrators to AUVs navigating under ice shelves.

Alberto Naveira Garabato is a Professor of Physical Oceanography at the University of Southampton. He is interested in the processes shaping the ocean circulation and its role in the global climate system, and has specific expertise in measuring and understanding oceanic turbulence and mixing using novel technology.

Prof Karen Heywood (University of East Anglia)

Gliders: surveying the parts of the ocean other vehicles cannot reach

Karen Heywood is Professor of Physical Oceanography at the University of East Anglia. She leads the UEA Glider Science group and operates a fleet of eight Seagliders worldwide, addressing multidisciplinary science challenges from the North Sea to the Indian Ocean. Her main research interests are processes in the Southern Ocean and Antarctica

Peter Bennett (Kongsberg Maritime Ltd)

Development and applications of the Eelume marine robot

Peter Bennett is Subsea Business Manager for Kongsberg Maritime Ltd, responsible for the P&L of Kongsberg Subsea products in the UK and Ireland region. He has worked for Kongsberg for the past 16 years in sales and management roles, prior to which he worked in the UK and Norway Oil and Gas sectors. Educated in engineering and marine science, Peter started his working life as a Hydrographic Surveyor in South Wales.

Prof Jim Scanlan (University of Southampton)

Unmanned aircraft research at Southampton

Jim leads the university strategic research centre in Autonomous Systems. He produced the worlds first 'printed aircraft' flown by the UK Navy on HMS Protector in the Antarctic. He has been PI on projects of over £17M. He is a qualified full-size aircraft pilot and also has UAV flight qualifications.

Commander Peter Pipkin (Royal Navy)

Unmanned Warrior and beyond: Royal Navy perspectives on Marine Autonomous Systems

Peter has served around the world in Carriers, Frigates and Destroyers as a weapon engineer and has worked in acquisition projects, including future radar and air defence missile systems. He was responsible for delivering Unmanned Warrior as the Fleet Robotics Officer, which remains his current role in Navy Command Headquarters

Sudhir Pai (MD, Schlumberger Robotics Services)

Current and future applications of marine robotics in the offshore energy sector

Sudhir Pai is Managing Director at Schlumberger Robotics Services. He has held a variety of management leadership positions within Schlumberger. He is an active member of SPE and vice-chairman of Arctic Technology Conference (ATC-2018). Sudhir was recognized by the United States National Diversity Council with the 2016 Texas Multicultural Leadership Award.

Jonathan Read (Boeing Defence UK)

Building a family of innovative Maritime Autonomous Systems

Jonathan Read spent 20 years as a submariner in the Royal Navy. For the past 15 years he has specialised in the application of simulation technology to the development of complex systems. He now heads up Boeing Phantom Works International in the UK, developing prototype solutions for military and commercial applications.

Gordon Meadow (Warsash School of maritime science and engineering)

Autonomous Shipping – Succession planning for the seafarers of the future.

Gordon Meadow is Associate Professor in the Warsash School of Maritime Science and Engineering at Southampton Solent University. His main research interest is in technologically influenced pedagogy. Gordon is Chair of the new IMarEST Special Interest Group in Unmanned Surface Vessels and PI for the Rolls Royce SSU collaborative autonomous ship engineering project, IMAGINE.

Nick Lambert (Satellite Applications Catapult)

Marine Autonomous Systems – a critical enabler of the transition from sea blindness to sea vision

A master mariner, Rear Admiral Nick Lambert concluded a long naval operational career as the UK National Hydrographer in 2012. He advises on a wide range of maritime issues, has a particular interest in the Polar Regions, and is also engaged in a variety of situational awareness, marine autonomous systems and vessel efficiency projects.