IMarEST Oceans of Knowledge 2025

8th October National Oceanography Centre Southampton



	Introduction and Welcome	
9:15	Professor Stephen de Mora, IMarEST President	
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9:35	Keynote Address	
	Professor John Siddorn, <i>Chief Executive,</i> National Oceanography Centre	
The Concepts		
Chair: Dr Edward Steele, IT Fellow Data Scientist, Met Office		
10:00	Al Technologies	
	Niall Robinson, Developer Relationship Manager Earth 2, Nvidia	
10:20	Al Techniques	
	Dr Marcus Juniper, Senior Marine Applications Scientist, Met Office	
10:40	Al Explainability	
	Madeleine Waller, Kings College London	
	Q&A	
11:00	Dr Edward Steele (moderator)	
	Niall Robinson	
	Dr Marcus Juniper	
	Madeleine Waller	
11:20-11:50	Break	
	The Domains	
Chair: Professor Ralph Rayner FIMarEST, Professorial Research Fellow, Grantham Research Institute and National Oceanic and Atmospheric Administration		
Dr Peter Lean, Senior Scientist, ECMWF		
12:10	Data Driven Physical Ocean Modelling	
	Dr Rachel Furner, Machine Learning & Ocean Modelling Scientist, ECMWF	
12:30	Ocean Biogeochemistry	
	Dr Josef Skakala, Plymouth Marine Laboratory	
12:50	Ocean Climate	
	Professor Caroline Rowland, Head Oceans Cryosphere and Climate Change, Met Office	
13:10	Q&A	

	Professor Ralph Rayner (moderator)	
	Dr Peter Lean	
	Dr Rachel Furner	
	Dr Josef Skakala	
	Professor Caroline Rowland	
13:30-14:30	Lunch	
Case Studies		
Chair: Dr Sophie Arana, Research Application Manager, The Alan Turing Institute		
	Sensor Networks	
14:30	Dr Ajit Pillai, Offshore Renewable Energy Researcher, Senior Lecturer, Royal Academy of Engineering Research Fellow, University of Exeter/ RAEng	
14:50	Shipping & Polar	
	Dr Jonathan Smith, Deputy Science Leader of Al Lab/ Principal Research Scientist in Al/ML, British Antarctic Survey	
15:10	Fisheries	
	Dr Thomas Catchpole, Principal Fisheries Science Advisor, Cefas	
15:30	Break	
	Coastal Hazards	
16:00	Professor Jenny Brown, Coastal Oceanographer, National Oceanography Centre	
16:20	Q&A	
	Dr Sophie Arana (moderator)	
	Dr Ajit Pillai	
	Dr Jonathan Smith	
	Dr Thomas Catchpole	
	Professor Jenny Brown	
16:40	Closing Remarks	
	Professor Ralph Rayner	
17:00	Drinks reception	