

# The Royal Institution of Naval Architects

## Marine Industry 4.0

5<sup>th</sup> November, Rotterdam, the Netherlands



9:00 – 9:30	Coffee and Registration	
9:30 – 10:05	<b>Practical Guide for Adopting Industry 4.0 in CAD Systems</b> <i>J. A. Muñoz and R. Pérez Fernández, SENER, Spain</i>	SESSION 1
10:05 – 10:40	<b>Living on the Edge - a New Paradigm for Remote Monitoring of Vessels and Marine Equipment</b> <i>K. Rau, Flicq Inc, USA</i>	
10:40 – 11:10	Coffee	
11:10 – 11:45	<b>SMART Shipyards (Naval Dockyards, Ship building and Ship repair)</b> <i>G. Fox, First Marine International, UK</i>	
11:45 – 12:20	<b>Aero-triangulation and photogrammetry in sensible infrastructures – how the industry benefits from low-cost 3d modelling conducted by unmanned aerial vehicles (UAV)</b> <i>M. Stein, Hapag Lloyd Centre of Shipping and Global Logistics, Germany</i>	
12:20- 12:25	CDP Studio Sponsor Presentation	
12:25 – 13:30	Lunch	
13:30 – 14:05	<b>The Challenges and Opportunities for Developing Digital Twins to support Marine Operations</b> <i>S. Willmore, G. Mercer, J. Rigby, BMT, UK</i>	SESSION 2
14:05 – 14:40	<b>Classifying bow entry events of wave piercing catamarans in random waves using unsupervised and supervised techniques</b> <i>B. Shabani, J. Lavroff, D. S. Holloway, University of Tasmania, Australia</i> <i>S. Penev, UNSW Sydney, Australia</i> <i>D. Dessi, Italian National Research Council, Italy</i> <i>G. Thomas, University College London, UK</i>	
14:40 – 15:00	Coffee	
15:00 – 15:35	<b>One Sea - on the road towards an autonomous maritime transport system</b> <i>P. Haikkola and J. Merenluoto, One Sea / DIMECC, Finland</i>	
15:35 - 16:10	<b>IconIC – the autonomous health monitoring system</b> <i>D. Garrity, STS Defence Ltd, UK</i>	
16:10 – 16:45	<b>Future Workforce and Training in the Fourth Maritime Revolution</b> <i>R. Westgarth and J. Rigby, BMT, UK</i>	
16:45 – 17:30	TBC	

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