



The Royal Institution of Naval Architects  
**Warship 2019: Multi-Role Vessels**  
 25-26 June 2019, Bristol, UK

Sponsored by:



Tuesday 25 <sup>th</sup> June	
08.45-09.10	Coffee and Registration
09.10-09.15	<b>Welcome Address</b> , Karl Monk, Technical Director, Royal Institution of Naval Architects, UK
09.15-09.20	<b>BMT Welcome</b>
09.20-09.55	<b>KEYNOTE:</b>
09.55-10.30	<b>Allied Maritime Forces Transformation: Towards a Defence Planning Process that Includes Adaptable Warships</b> Richard Logtmeijer, Ministry of Defence, NL David Manley, Ministry of Defence, UK Co-authors from NATO partner AUS and NATO countries CA, GE, IT, NL, UK and USA
10.30-11.05	<b>Multi-Role Vessels: Manning, Design &amp; Cost Drivers</b> Daniel Smith, Naval Design Partnering Team, UK
11.05-11.30	Coffee
11.30-12.05	<b>The Multi Role Combatant - Jack of All Trades Master of None?</b> David Andrews, UCL, UK
12.05-12.40	<b>When is the Adaptable or Multi-Role Ship the Right Answer?</b> Charles Moss, Andy Kimber, BMT, UK
12.40-13.35	Lunch
13.35-14.10	<b>The Affordable Surface Combatant, the Application of Modularity and Flexibility in Delivering the Future Fleet</b> Malcolm Robb, David Lewis, BAE Systems Maritime, UK Giota Paparistodimou, University of Strathclyde, UK Charles McPartland, Ministry of Defence, UK
14.10-14.45	<b>A Common Hull Design Methodology for Multi – Role Ships</b> Dr Ibiba Emmanuel Douglas, Rivers State University, Nigeria
14.45-15.20	<b>The Importance of Onboard Infrastructure to Enable Future Vessel Enhancements at Build and Through Life</b> Simon Willmore, BMT, UK
15.20-15.45	Coffee
15.45-16.20	<b>The Use of CAD Systems to Manage Modularity in Multi-Role Warships</b> Rodrigo Perez, Erno Peter Cosma, SENER, Spain
16.20-16.55	<b>A Control System to Enhancing the Operationability of Autonomous Planing Crafts in Seaways with the Aid of Vision Sensors</b> Hima Bindu Hallaka, Deborah Levy, Asaf Levy, Tali Treibitz, Morel Groper, University of Haifa, Israel
16.55-	General Discussion & Evening Drinks Reception

Session 1:

Session 2: David Andrews, UCL, UK



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Wednesday 26 <sup>th</sup> June		
08.50-09.20	Coffee and Registration	
09.20-09.55	<b>KEYNOTE:</b>	Session 3:
09.55-10.30	<b>Norway's New Multi-Role Logistics and Support Vessel (LSV)</b> <i>Simon Jones, Alex Aitken, BMT, UK</i>	
10.30-11.05	<b>Pushing the Limit: The Role-less Multirole Warship</b> <i>Dr Rachel Pawling, Dr Nick Bradbeer, UCL, UK</i>	
11.05-11.30	Coffee	
11.30-12.05	<b>The Multi-Role Support Ship and Humanitarian Assistance and Disaster Relief Operations</b> <i>Derek Buxton, VARD Marine Inc., Canada</i>	
12.05-12.40	<b>Development of a Twin Stern Ramp LARS for Rapid Response Craft on a Multi-Role Naval Vessel</b> <i>N L Koh, D B Wong, Y M J Tan, B H Chew, T S Gan, Defence Science and Technology Agency, Singapore</i>	
12.40-13.35	Lunch	
13.35-14.10	<b>The Development of a Modular Multi-Role Vessel for Naval and Coastguard Operations</b> <i>Andrew Humphries, Les Davies, Chris Browning, John Fox-Robinson, Vectis Marine Design Ltd, UK</i>	Session 4:
14.10-14.45	<b>Standardisation of Naval Containerised Modules - Enabling Interoperability across NATO</b> <i>Hayden Cole, Julia Alvarez, Naval Design Partnering, UK</i>	
14.45-15.10	Coffee	
15.10-15.45	<b>A Review of UCL MSc Warship Designs</b> <i>Cat Savage, Dr Rachel Pawling, Dr Nick Bradbeer, UCL, UK</i>	
15.45-16.20	<b>MissionEase Boat Handling System for Multi-Role Mission Ships</b> <i>Rolf Andreas Wigand, Atle Klave, Vestdavit AS, Norway</i>	
16.20-	General Discussion & Coffee	