



The Royal Institution of Naval Architects  
**Warship 2015: Future Surface Vessels**  
 10-11 June 2015, Bath, UK

Supported by



Wednesday 10 <sup>th</sup> June		
08.30-09.00	Coffee and Registration.	
09.00-09.05	Welcome Address- <i>Trevor Blakeley, The Royal Institution of Naval Architects</i>	Session 1
09.05-09.10	Sponsor Presentation - BMT	
09.10-09.45	Keynote- RAdm Henry Parker, <i>Director Ship Acquisition, Ministry of Defence, UK</i>	
09.45-10.20	THE SHAPE OF FLEETS TO COME <i>Matthew W Hood, Phine Consulting Ltd, UK</i>	
10.20-10.55	A TRADE-OFF SPACE FOR THE EVALUATION OF WARSHIP PROCUREMENT STRATEGIES <i>Oscar D Tascon, Colombian Navy, Colombia, M E Sanjuan, Universidad del Norte, Colombia</i>	
10.55-11.25	Coffee	
11.25-12.00	MODULARITY IN SHIPDESIGN AND CONSTRUCTION <i>Rodrigo Pérez, C González, F Sánchez, F Alonso, SENER, Spain</i>	
12.00-12.35	EVALUATION OF SUPPORTABILITY IN THE PRELIMINARY DESIGN OF NAVAL SHIPS <i>Syavash Esbati, A S Piperakis, R J Pawling, D J Andrews, Design Research Centre, Marine Research Group, Department of Mechanical Engineering, University College London, UK</i>	
12.35-13.30	Lunch	
13.30-14.05	FUTURE RISK BASED APPROACHES IN WARSHIP DESIGN <i>Paul James, Alan Bain, Lloyd's Register EMEA, UK</i>	Catriona Savage-BMT Defence Services Ltd, UK
14.05-14.40	BAE SYSTEMS NAVAL SHIPS: CHALLENGES AND TRANSFORMATION <i>Gavin Rudgley and C Muskett, BAE Systems Naval Ships, UK</i>	
14.40-15.15	DEVELOPMENTS IN NAVAL SAFETY AND ASSURANCE <i>Ben Cuckson, Lloyds Register Marine UK and Tim Lear, BMT Defence Services Ltd UK</i>	
15.15-15.45	Coffee	
15.45-16.20	DESIGNING FUTURE WARSHIPS TO SURVIVE ACCIDENTAL DAMAGE <i>Steve Marshall CEng MRINA RCNC, Naval Authority Area: Ship Stability, Ministry of Defence, UK., I Randles MEng (Hons) MSc RCNC, Warship Support Naval Architect, Ministry of Defence, UK</i>	
16.20-16.55	DEVELOPMENT OF AN ULTRASONIC NON-DESTRUCTIVE EXAMINATION METHOD FOR USE ON COMPOSITE WARSHIPS <i>J. Downing, A. Hook and M. Sansom, Babcock International, Devonport, UK</i>	
16.55-	General Discussion & Evening Drinks Reception	



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08.30-09.00	Coffee and Registration.	
09.05-09.40	REJUVENATION OF THE FAST MARINE CRAFT SECTOR IN THE UNITED KINGDOM <i>Andy White, CTruk Boats Ltd., UK</i>	Session 3
09.40-10.15	HUMAN-CENTRED, SCALABLE, COMBAT SYSTEM DESIGN FOR LITTORAL OPERATIONS <i>Trevor Dobbins, STRResearch, UK and Chalmers University Sweden, J Hill, Trident Marine, UK, T Thompson, T-Design, Coventry, UK, S McCartan, EBDIG-IRC, Department of Industrial Design, Coventry University, UK, T Brand, Strongwake, Canada, A Smoker, Lund University, Sweden</i>	
10.15-10.45	Coffee	
10.45-11.20	HUMAN-SYSTEM INTEGRATION TO ACHIEVE THROUGH LIFE COST REDUCTION <i>Chris Greenbank, BMT Reliability Consultants Ltd, UK, D Richards, Coventry University, UK, S Harmer, BMT Defence Services Ltd., UK</i>	
11.20-11.55	HUMAN INTERACTION AND INTEGRATION WITH FUTURE WARSHIPS <i>Richard E J Westgarth, W Biggs and H J Dudfield QinetiQ, UK</i>	
11.55-13.00	Lunch	
13.00-13.35	THE LOSS OF HMS SHEFFIELD: A TECHNICAL RE -ASSESSMENT <i>David Manley FRINA, RCNC, UK Ministry of Defence</i>	Andy Kimber - BMT Defence Services Ltd, UK
13.35-14.10	THE LEGACY OF WWII VULNERABILITY TO MODERN WARSHIP DESIGN - LESSONS LEARNED AND FORGOTTEN <i>Doug J Wright, Survivability Consulting Limited, UK</i>	
14.10-14.40	Coffee	
14.40-15.15	SURVIVABILITY: THE HUMAN ELEMENT <i>Rachel Pawling, UCL, UK, Steve Harmer, James D. C. Campbell, Claire Launchbury, BMT Defence Services Limited, UK</i>	
15.15-15.50	ASSURING A SURVIVABLE FUTURE SURFACE VESSEL -COST EFFECTIVE SHOCK MODELLING AND TESTING IN THE 21 <sup>ST</sup> CENTURY <i>Alex Whatley, Weidlinger Associates Ltd, UK</i>	
15.50-	General Discussion	