

The Royal Institution of Naval Architects
Power and Propulsion Alternatives for Ships

8th November, Rotterdam, The Netherlands



Wednesday 8 th November	
9:00 – 9:30	Coffee and Registration
9:30 – 9:50	CURRENT AND FUTURE SCALE LIMITATIONS FOR ALTERNATIVE MARINE POWER AND PROPULSION SOLUTIONS <i>Jan-Erik Räsänen, Head of New Technology, Foreship Ltd</i>
9:50 – 10:10	WIN WIN WIND SITUATION: COMMERCIAL CASE FOR COMMERCIAL WIND PROPULSION <i>Gavin Allwright, Secretary, International Windship Association (IWSA), UK</i>
10:10 – 10:30	NORSEPOWER ROTOR SAILS – EFFICIENT AND RELIABLE AUXILIARY WIND PROPULSION FOR SHIPS <i>Jukka Kuuskoski, Norsepower Oy Ltd, Finland</i>
10:30 – 10:50	INFLUENCE ANALYSIS OF THE WINGSAIL SYSTEM CONFIGURATION ON THE TECHNICAL PERFORMANCES AND FINANCIAL RETURN OF THE TECHNOLOGY ON SAIL-ASSISTED VESSELS <i>D Ferrer Desclaux*, M Mantilla Sánchez, A García Plaza, J M Bermúdez Miquel, C Aleixendri Muñoz, Bound 4 Blue S.L., Spain</i>
10:50 – 11:20	Coffee
11:20 – 11:40	WIND POWERED VESSELS WITH HYBRID AND AUTONOMOUS TECHNOLOGIES <i>Ken Goh, Knud E. Hansen, Australia</i>
11:40 – 12:00	ROLE OF RIM DRIVEN PROPULSORS IN FUTURE ELECTRIC SHIPS <i>Steven Fletcher, Frazer-Nash Consultancy Ltd, UK</i>
12:00 – 12:20	REDUCE EUROPEAN PORT AND SHIPPING EMISSIONS - 3 STEP PROCESS <i>Brent Perry, PBES, Canada</i>
12:20 – 13:20	Lunch
13:20 – 13:40	REPLACEMENT OF A DIESEL GENERATOR WITH A CONTAINERISED BATTERY SYSTEM ON-BOARD A CONTAINERSHIP <i>I Dimakopoulos, P Menegakis, N Lampris, S Gkinis and G Panagoulas, Newcastle University, UK</i>
13:40 – 14:00	WIND ASSISTED SHIPS DESIGN ANALYSIS AND OPERATIONAL CONSTRAINTS <i>R Eggers, G Gaillarde, Maritime Research Institute Netherlands, The Netherlands</i>
14:00 – 14:20	LNG POWERED DRY BULK CARRIER <i>A. Trakakis, Arista Shipping, GR; M. Ioannou, M. Penfold and E. Kariambas, ABS, GR and UK; D. Antonopoulos, Wärtsilä</i>
14:20 – 14:50	Coffee
14:50 – 15:10	HYBRID ENERGY AND PROPULSION SYSTEM FOR VESSELS IN TIMETABLE OPERATION <i>Martin Einsiedler, SHIPTEC AG, Switzerland</i>
15:10 – 15:30	DESIGN-SIDE INNOVATION TO MINIMIZE THE ENVIRONMENTAL FOOTPRINT OF A RO/PAX FERRY , Donald MacPherson, Technical Director, HydroComp, Inc., USA, Ioannis Bakas, Special Projects Manager, NAP Engineering P.C. , Greece
15:30 – 15:45	General Discussion

SESSION 1

SESSION 2