



The Royal Institution of Naval Architects

Energy Efficient Ships

4th November 2015, Rotterdam, Netherlands

In Partnership with

EUROPORT

exhibition for
maritime technology
3-6 November 2015
Ahoy Rotterdam



Wednesday 4 th November 2015		
09.30-09.55	Coffee and Registration	
09.55-10.00	Welcome Address-	
10.00-10.20	HYDRODYNAMICS FOR ENERGY-EFFICIENT SHIPS <i>M Aarnio, J Niittymaki, and M Patey, Foreship Ltd., Finland</i>	Session 1
10.20-10.40	ENERGY EFFICIENT SHIP DESIGN AND OPERATION <i>Jan O. de Kat, Director of Energy Efficiency and Vessel Performance, ABS, USA</i>	
10.40-11.00	HOLISTIC SHIP ENERGY SYSTEMS MODELING FOR EFFICIENT SHIP DESIGN AND OPERATION <i>Fabian Tillig, Jonas W. Ringsberg, Wengang Mao, Bengt Ramne, Chalmers University of Technology, Sweden</i>	
11.00-11.20	PRACTICAL ASPECTS OF ENERGY SAVING DEVICES <i>D Ponkratov, A Caldas, and C Craddock, Ship Performance Group, Technical Investigation Department, Lloyd's Register, Southampton, UK</i>	
11.20-11.50	Coffee	
11.50-12.10	DEVELOPING A ROUTE MAP TO NOVEL GREEN TECHNOLOGY INTEGRATION AND ACCEPTANCE <i>Sam Hill and G. Littlewood, QinetiQ, UK</i>	Session 2
12.10-12.30	INTEGRATED DESIGN OF AN ASYMMETRIC AFTBODY AND A PROPELLER TO MAXIMIZE THE ENERGY EFFICIENCY <i>Ir. L. Rueda and Dr. Ir. J. Dan, Marin, the Netherlands</i>	
12.30-12.50	BULBOUS BOWS FOR ENERGY EFFICIENT SHIPS: A NOVEL APPROACH <i>Andrea Grech La Rosa, Prof Giles Thomas, Ema Muk-Pavic, UCL, UK, Tom Dinham-Peren, BMT DSL, UK</i>	
12.50-13.10	DESIGN OPTIMIZATION FOR OPERATIONAL PROFILE - WHAT CAN BE ACHIEVED FOR BULKY HULLS? <i>J Henrichs, J Heimann, K Hochkirch and V Bertram, DNV GL, Germany, U Kowalewski, Intership Navigation, Cyprus, C Li, Odely Marine, China</i>	
13.10-14.10	Lunch	
14.10-14.30	POTENTIAL FOR IMPROVEMENT OF SHIP LIFECYCLE COSTS THROUGH DEVIATION FROM STANDARD SHIP DESIGNS AND PRACTICES <i>Hans Richard Hansen, Ph.D, Low Carbon Shipping AS, Norway, Thomas Dinham-Peren, B.Sc, BMT Defence Services Ltd., UK</i>	Session 3
14.30-14.50	A RESEARCH ON DECREASING WIND RESISTANCE OF LARGE CONTAINERSHIP <i>Kazuyuki Ouchi, Ouchi Ocean Consultant Inc, Japan, Tingyao Zhu and Junichi Hirata, ClassNK, Japan, Yoshikazu Tanaka and Akira Taniguchi, MOL Techno-trade Ltd, Japan, Yoshikazu Kawagoe and Takanori Hisajima, Mitsui OSK Lines Ltd, Japan, Junshi Takashina and Naoya Matsubara, Akishima Laboratories (MITSUI ZOSEN) Inc, Japan, Katsuyuki Suzuki, The University of Tokyo, Japan</i>	
14.50-15.10	PERFORMANCE MONITORING AND AUTOMATIC OPERATING MODE SELECTION BASED ON STATISTICAL ANALYSIS OF SHIP DATA. <i>Md Ibna Zaman, Kayvan Pazouki, Shirley Coleman, Shervin Younessi, Rose Norman, Newcastle University, UK</i>	
15.10-15.30	MEASURING NOW IS IMPROVING THE FUTURE: USING VESSEL DATA TO OPTIMIZE SPEED, TRIM AND MORE <i>Fenneke Sterlini, Jaap Jan Stoker and Leon Adegeest, ABB Competence Center Voyage and Operation Advisory, Marine and Ports, the Netherlands</i>	
15.30-16.00	Coffee	
16.00-16.20	A METHODOLOGY FOR SYSTEMATIC FLEET PERFORMANCE EVALUATION <i>Stefanos Glaros, Eastern Mediterranean Maritime (EMM) Ltd., Greece, Antonios Tzamaloukas, Eastern Mediterranean Maritime (EMM) Ltd., Greece</i>	Session 4
16.20-16.40	AIR LUBRICATION: FROM CONCEPT, TO SEA TRIALS, TO COMMERCIALISATION <i>Silverstream Technologies, UK</i>	
16.40-17.00	SUPPORTING THE ENERGY EFFICIENT SHIP DESIGN PROCESS WITH ENERGY FLOW SIMULATIONS: CASE EFFICIENT COOLING WATER SYSTEM <i>Mia Elg, Deltamarin Ltd. and VTT Ltd., Finland</i>	
17.00-17.20	THE BENEFITS OF SHIP WASTE HEAT RECOVERY USING A SUPERCRITICAL ORGANIC RANKINE CYCLE <i>Sean McCracken, Granite Power Limited, UK, John Buckingham, BMT Defence Services Limited, UK</i>	
17.20-18.00	General Discussion & Close	