



The Royal Institution of Naval Architects
**Propellers & Impellers: Research, Design,
 Construction and Application**

27 - 28 March 2019, London, UK

Supported by:



Wednesday 27 th March		
08.55-09.25	Coffee and Registration	
09.20-09.25	Welcome Address , <i>Karl Monk, Technical Director, Royal Institution of Naval Architects, UK</i>	Hrvoje Jasak, Wikki Ltd, UK
09.25-09.30	NUMECA presentation	
09.30-10.05	KEYNOTE: Current Trends in Marine Propulsion <i>John Carlton, Director of Maritime Studies, City, University of London</i>	
10.05-10.40	Usage of Digital Tools for the Optimum Propeller Design <i>Norbert Bulten, Wärtsilä Marine Solutions, Netherlands</i>	
10.40-11.15	Coffee	
11.15-11.50	Full Scale Prediction of Hydrodynamic Noise Using Computational Fluid Dynamics <i>Endicott M. Fay, Cotty Fay Marine Design, USA</i>	
11.50-12.25	Numerical Study of Acoustic Characteristics of a DTMB 4119 Propeller Due to Tip Rake <i>Danio Joe, Vijit Misra, Dr R Vijayakumar, Indian Institute of Technology Madras, India</i>	
12.25-13.25	Lunch	
13.25-14.00	Numerical Estimation about Performance of CPP and Podded Propulsor on many Off-Design Conditions Using RANS Approach <i>Kohei Himej, K Okazaki, H Yamaguchi, Nakashima Propeller Co. Ltd, Japan</i>	John Carlton, City, University of London, UK
14.00-14.35	RIM Driven Propellers: Optimization Based Design Approach Using RANS Calculations <i>Stefano Gaggero, University of Genoa, Italy</i>	
14.35-15.10	CFD Evaluation of Hydrodynamic Performance of Contra-Rotating Propellers (CRP) Using OpenFOAM <i>Hrvoje Jasak, Wikki Ltd, UK, University of Zagreb, Croatia</i> <i>Luka Balatinec, University of Zagreb, Croatia</i>	
15.10-	General Discussion & Drinks Reception	



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Thursday 28 th March		Norbert Bulten, Wärtsilä Marine Solutions, The Netherlands
08.55-09.25	Coffee and Registration	
09.25-10.00	Propellers Geometry Modelling Through B-Splines Surfaces <i>Rodrigo Perez, Francisco Perez-Arribas, Marine Engineering School of the Technical University of Madrid, Spain</i>	
10.00-10.35	The Importance of a Non-Deterministic Design Optimization for Predicting Real-Life Propeller Performances <i>Kevin Vidal, Benoit Mallof, Charles Hirsh, NUMECA International S.A., Belgium Leo Poppelier, SipMarine, Netherlands</i>	
10.35-11.05	Coffee	
11.05-11.40	An Electro-Mechanical Controllable Pitch Propeller <i>Jordan McBain, Dogged Mechatronics LLC, USA</i>	
11.40-12.15	Full Scale Performance of Gate Rudder <i>Noriyuki Sasaki, University of Strathclyde, UK S. Kuribayashi, Kuribayashi Steam Co., Japan A. Miles, Stone Marin Propulsion, UK</i>	
12. 15-	General Discussion & Lunch	