



The Royal Institution of Naval Architects
LNG/LPG and Alternative Fuel Ships

29 - 30 January 2020, London, UK

Wednesday 29 th January	
08.50-09.20	Coffee and Registration
09.20-09.25	Welcome Address , <i>D. Ponkratov, Technical Director, The Royal Institution of Naval Architects, UK</i>
09.25-09.55	Keynote - <i>Kirsi Tikka, Independent Director and Technical Advisor</i>
09.55-10.30	Purpose designed LNG bunkering vessels (LBV): a 2020 update on characteristics and features <i>R. Tustin, W.-J. Choi, J. Navarro, Lloyds Register, UK</i>
10.30-10.50	Coffee
10.50-11.25	LNG Bunker Vessel Design and Operation <i>K. W. Hutchinson, D. C. Dobson, Safinah Group, UK</i>
11.25-12.00	Conversion of an LNG carrier to Floating Storage and Regasification Unit <i>R. Bhat, University of Strathclyde, UK</i>
12.00-13.30	Lunch
13.30-14.05	A Review of Mooring System Solutions for FSRUs <i>G. Mortola, J. Dunstan, London Marine Consultants Ltd., UK</i>
14.05-14.40	Risk Assessment and Supply chain challenges of LNG as marine fuel <i>J. Gahnstrom, LOC, UK</i>
14.40-15.00	Coffee
15.00-15.35	Port Design for Small LNG Carriers <i>A.P. Crowle, McDermott, UK</i>
15.35-18.00	Discussion and Drinks Reception

Session 1 – J. Buckingham

Session 2 – D. C. Dobson



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08.55-09.20	Coffee and Registration	
09.20-09.55	Future fuels for commercial shipping J. Buckingham, BMT, UK	Session 3 – K. W. Hutchinson
09.55-10.30	MAN B&W Dual Fuel Engines K. Aabo, MAN, Denmark	
10.30-10.50	Coffee	
10.50-11.25	Evaluation of LNG cryogenic energy utilization in seawater desalination on LNG fuelled ships M. Liu, Newcastle University, UK	
11.25-12.00	The challenges of LH₂ and LCO₂ shipping C. Guerrero, Bureau Veritas, France	
12.00-13.00	Lunch	
13.00-13.35	Safe and effective application of ammonia as a marine fuel N. de Vries, C-Job, the Netherlands	Session 4 – J. Buckingham
13.35-14.10	A performance and emission investigation of a marine diesel fuelled with B20, B50 and B100 microalgae (<i>Schizochytrium sp.</i>) oil without chemical additive H. M Attar, Newcastle University, UK and King Abdulaziz University, SA D. Wu and A. P. Harvey, Newcastle University, UK	
14.10-14.45	A Comparison of Hydrogen and Ammonia for Future Long Distance Shipping Fuels C. J. McKinlay, S. R. Turnock, D. A. Hudson, University of Southampton, UK	
14.45-15.05	Coffee	
15.05-16.00	Final Address and discussion	
16.00-16.30	Closure	