

THE **MOTORSHIP** 2018
PROPULSION
 & Future Fuels Conference

Gold Sponsor



14-16 November 2018, Empire Riverside Hotel, Hamburg

Conference Programme

Powering shipping's emissions-cutting ambitions

The landmark 40th anniversary edition of The Motorship Conference is changing to reflect the shift in the shipping industry's fuel and propulsion needs.

Across two conference streams the event will focus on practical and technical developments in the fields of propulsion technologies and alternative fuels.

Chairmen: Day 1 - Reinhard Lüken, CEO, VSM - German Shipbuilding and Ocean Industries Association
 Day 2 - Lars Robert Pedersen, Deputy Secretary General, BIMCO

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 magazines|events|online INSIGHT FOR MARINE TECHNOLOGY PROFESSIONALS

DAY ONE – Propulsion & Future Fuels - Wednesday, 14 November 2018

OPENING SESSION

- 08:00** **Coffee & Registration**
- 08:30** **Day One Chairman's Welcome**
Reinhard Lüken, CEO, German Shipbuilding and Ocean Industries Association (VSM)
- 08:35** **Gold Sponsor's Welcome**
Torsten Schramm, Senior Vice President, President Maritime, DNV GL
- Keynote Addresses: Emissions Outlook**
- 08:45** Harry Conway, Vice Chairman, MEPC (Marine Environmental Protection Council), IMO
- 09:00** Thomas S. Knudsen, Senior Vice President – Head of Two-Stroke Business, MAN Energy Solutions
- 09:15** **Economic & Environmental Solutions for Shuttle Tankers**
Stein Thorsager, Segment Sales Director, Merchant & Gas, Wärtsilä
- 09:30** **Discussion**
- 10:00** **Coffee & Networking**

SESSION 1: SHIPOWNER PANEL: INVESTING IN THE FUTURE FLEET

Moderator: Reinhard Lüken, CEO, German Shipbuilding and Ocean Industries Association (VSM)

- 10:30** **Panellists include:**
- Sjaak Klap, V.P., Business Development Department, Spliethoff
 - Tor Øyvind Ask, Fleet Director, Solvang ASA
 - John Bradshaw, Technical Director, International Chamber of Shipping
 - Thomas David, Head New Building, John T. Essberger GmbH & Co.KG
 - Piter Oosterhof, Fleet Manager, Royal Wagenborg
- 12:00** **Lunch**

SESSION 2: UNDERSTANDING THE FUTURE FUEL MIX

- 13:30** **Panel highlighting expert insights on how non-conventional fuels will grow including a discussion of pioneer projects as well as infrastructure, availability and pricing issues**

Moderator: Reinhard Lüken, CEO, German Shipbuilding and Ocean Industries Association (VSM)

- **Alternative fuels insight**
Gerd Wuersig, Business Director, Alternative Fuels, DNV GL
Comprehensive insights on worldwide bunkering availability and market data on alternative fuels for ships
- **LNG infrastructure, pricing and availability**
Gunnar Helmen, Sales Manager Marine, Skangas
Skangas has been a part of the small-scale LNG business since 2010 and have developed the largest distribution network for small scale LNG to industrial and marine applications in Europe. Skangas will provide insight on availability and price development.
- **Fuel Quality Management: Today & Tomorrow**
Steve Bee, Group Commercial & Business Development Director, Veritas Petroleum Services
The historical impact and trends environmental legislation has had upon fuel quality and cost, with a look to forecasting fuel quality issues and demand leading toward 2020 and beyond.
- **The introduction of H2 into commercial shipping**
Madadh MacLaine, Business Development Manager – Maritime, ITM Power plc
Hydrogen, when produced from renewable energy, is truly a zero-carbon fuel.
Possibilities for using hydrogen as a fuel in ships; fuel cells, direct fuel or mixed with fuel oil (co-combustion) will be discussed.
- **The future fuel mix: energy density of new fuels / energy carriers**
Sjaak Klap, V.P., Business Development Department, Spliethoff

- 15:00** **Coffee & Networking**

SESSION 3.1: PROPULSION – ENGINE DESIGN FOR THE FUTURE TWO STROKE AND FOUR STROKE ENGINE DEVELOPERS DISCUSS CUTTING EDGE ENGINE DESIGN IN LIGHT OF ENVIRONMENTAL AND PERFORMANCE CHALLENGES		SESSION 3.2: FUELS – SHIPPING’S GAS FUELLED FUTURE TECHNICAL DEVELOPMENTS REFINING LNG- POWERED SHIPPING AND INTRODUCING OTHER GAS FUELS TO THE MIX
15:30	Two-stroke developments for fuel saving Kim Rene Hansen, Senior Research Engineer, MAN Energy Solutions	Moderator: Geoffroy Beutter, Business Development Manager, GTT
15:50	X- and X-DF Low-Speed Engine Technology and Operating Experience Rudolf Wettstein, General Manager Marketing & Application, Winterthur Gas & Diesel Ltd	Panellists include: – LPG cargo as a fuel onboard existing LPG carriers Speaker TBC, ABS – ME-GI mark 2, the continued development of MAN Dual fuel 2-stroke engines. Mr. Nikolaos Kourtidis, MAN Energy Solutions
16:10	Discussion – Moderated by conference chairman	– Evolution in gas propulsion: LPG and Ethane as marine fuel - Max Liese, Sales Engineer, TGE – Re-thinking LNG Transfer - Vincent Lagarrigue, Director, Trelleborg Oil & Marine

SESSION 4: CUTTING EDGE PROJECTS – PART ONE

Contenders for The Motorship Award present landmark vessel projects that are breaking new ground across segments and new fuel types

- 16:45 MS Award: OV Ryvingen – Innovation in multipurpose vessels**
Kristian Eikeland Holmefjord, Technical Specialist – Product Introduction, Rolls-Royce Marine
Trond Roeren, Managing Director, Norwegian Coastal Administration Shipping Company
- 17:00 MS Award: Enermulsion – Fuel Conditioning System**
Dr Jorge Antunes, CEO, TecnoVeritas - Services of Engineering & Systems Technology Ltd
- 17:15 Q&A**
- 17:30 Conference Close**

17:30 PRE-DINNER DRINKS RECEPTION – Conference Foyer

20:00 CONFERENCE DINNER – La Vela, Große Elbstraße 27, 22767 Hamburg

DAY TWO – Propulsion & Future Fuels - Thursday, 15 November 2018

- 08:35 Coffee & Registration**
Day Two Chairman: Lars Robert Pedersen, Deputy Secretary General, BIMCO

SESSION 5: CUTTING EDGE PROJECTS – PART TWO

- 08:45 MS Award: Variable Speed Generator Solutions – the innovative solution for the sustainability of the global shipping**
Mårten Storbacka, Managing Director, WE Tech Solutions Oy
- 09:00 MS Award: The first ever “mega” LNG containerships**
Rolf Stiefel, Vice President, Sales & Marketing, WinGD
Julien Bec, Vice President LNG as Fuel Division, GTT
- 09:15 Q&A**

SESSION 6: BUILDING BETTER SHIPS

Going beyond engine power and machinery, efficient ship design will be key to meeting long term energy efficiency targets.

- 09:30** **Technical and commercial feasibility of exploiting the development of green technology either in newbuilding projects or as part of a conversion/refit.** – David Wing, Principal Naval Architect, Houlder
Case study of the UK's largest hybrid powered ferry, a diesel-electric hybrid operating on Marine Gas Oil (MGO) and batteries.
- 09:45** **Use of unique ship energy flow simulation tool to monitor holistic ship energy efficiency from concept design to the ship building phase** – Mia Elg, Development manager, Deltamarin
- 10:00** **World's first synthetic-gas generator and the containerised version of its engine optimisation and emissions abatement system 'FS Marine+'** – Heino Eckerich, Founder & Managing Director, EcoTune MARINE GmbH
- 10:15** **Better ships require simplicity through integrated technologies developed in collaboration with industry partners** – Rolf Stiefel, Vice President, Sales & Marketing, WinGD
- 10:30** **Q&A**
- 10:45** **Coffee & Networking – The Motorship Award voting opens**

SESSION 7.1: PROPULSION – PROTECTING THE POWER PLANT: FROM STERN TUBE TO CYLINDERS, ENVIRONMENTAL CONSTRAINTS ARE PLACING NEW CHALLENGES ON OPTIMISING DRIVETRAIN CONDITION.	SESSION 7.2: FUELS - SAFETY SPOTLIGHT: NEW FUELS MEAN NEW SAFETY CHALLENGES FOR SHIP OWNERS AND FUEL SUPPLIERS – OUR PANEL SHEDS LIGHT ON KEY SAFETY CONSIDERATIONS AS DEVELOPMENT OF ALTERNATIVE FUELS ADVANCES.
11:15 The development of a 2020 cylinder oil formulation Don Gregory, Consultant, Gulf Oil Marine Gulf Oil Marine has embarked upon a joint development programme to explore new sustainable chemistry	Moderator: Gerd Wuersig, Business Director, Alternative Fuels, DNV GL Panellists include:
11:30 Environmentally Considerate Lubricants engineered for demanding Marine, Offshore and dockside environments Phil Cumberlidge, Greenmarine Business Development Manager, Panolin Presentation discussing the different environmental lubricant technologies available and problems being encountered.	<ul style="list-style-type: none"> – Bunkering processes of small-to-large Type-C and membrane LNG fuel storage tanks - Reetta K. Kaila, Sales Manager, Fuel Gas Supply Systems, Wärtsilä Gas Solutions – Madadh MacLaine, Business Development Manager – Maritime, ITM Power plc – Increasing safety on LNG vessels through automation Bengt-Olav Berntsen, Vice President, Power Solutions, Høglund Marine Automation – Bunkering safety challenges Chris Briggs, Technical Sales Engineer, SeaTechnik™ Product Area Head Office, Trelleborg Marine Systems
11:45 IMO 2020 readiness Jose Luis Garcia, Technology Manager – Marine & Power Engine Lubricants, Shell Marine The IMO's 2020 sulphur cap could add variable quality, as well as variety to the world's bunkered fuel. Beyond OEM approved cylinder oils, Shell Marine offers analytics, monitoring and advisory services to manage engine performance, predictive intervention and onboard lubricant stockholding in an uncertain world.	
12:00 TOTAL Lubmarine's flexible solutions for lubrication in the post-2020 environment Nikolaos Kotakis, OEM Relationship Manager, Total Lubmarine TOTAL Lubmarine has adapted its portfolio of CLO and TPEOs with new formulations and has implemented the development of the next generation of products.	
12:15 Q&A	

12:30 Lunch – Final chance to vote for The Motorship Award

<p>SESSION 8.1: PROPULSION – ELECTRIC AVENUES: ASSESSING THE OPPORTUNITIES FOR ENERGY STORAGE AND ELECTRIC PROPULSION IN THE OCEAN-GOING MERCHANT FLEET.</p>		<p>SESSION 8.2: FUELS – ULSFO: THE NEW STANDARD? LOW-SULPHUR FUEL OIL IS SET TO BECOME THE NEW STANDARD FUEL FOR SHIPPING POST-2020. BUT HOW MUCH DO WE KNOW ABOUT IT AND HOW CAN SHIP OWNERS PREPARE FOR A RELATIVELY UNKNOWN FUEL?</p>	
14:00	<p>The fast-changing relationship between battery footprint and energy returns Jan-Erik Räsänen, Head of New Technologies, Foreship Presentation exploring the fast-changing relationship between battery footprint and energy returns, the maturity and efficiency of fuel cells, their expected life time and the role energy density plays in space requirements.</p>	14:00	<p>ULSFOs – The Technical Challenges Michael Green, Global Technical Manager, Intertek ShipCare Services Study looking particularly at the variety of ULSFOs seen, typical test characteristics, as well as the range of specific quality issues associated with the individual fuels.</p>
14:20	<p>Are batteries an option? A look at market uptake and a case study Sondre Henningsgård, Managing Director, Maritime Battery Forum & Discipline Leader – Systems, DNV GL Maritime Advisory (North Europe)</p>	14:15	<p>The challenges of the transitional period leading towards 2020 Global Sulfur Cap Wolfram Guntermann, Director Environmental Management, Hapag-Lloyd AG A global, historical overview of the implementation of Low Sulfur Fuels and an outlook of the challenges of the transitional period leading towards a Global Sulfur Cap as of January 1st 2020.</p>
14:40	<p>Energy storage solutions for the merchant fleet and the possibility for application in ever larger vessels Geir Bjørkeli, CEO, Corvus Energy</p>	14:30	<p>2020 Sulphur Regulation – Fuel management strategies Naeem Javaid, Global Operations Manager FOBAS, Marine & Offshore, Lloyd's Register</p>
15:00	Q&A	14:45	<p>VLSFO – The New Standard? Iain White, Director, ExxonMobil</p>
		15:00	Q&A

15:20 Announcement of The Motorship Award winner by The Motorship Editor, Gavin Lipsith

15:30 Coffee & Networking

SESSION 9: APPROACHING 2020

Our speakers respond to the emissions challenges and implementations for the upcoming deadline.

16:00 Vasileios Gkikas, Global Market Leader, Dry Cargo & Containerships, Bureau Veritas

16:30 SEA\LNG update
 Steve Esau, General Manager, SEA\LNG

16:45 The future for scrubbers
 Poul Woodall, Director, Environment & Sustainability, DFDS

17:00 Q&A

17:20 Conference Close

DAY THREE – Propulsion & Future Fuels - Friday, 16 November 2018

Technical visit – Scandlines Zero Emissions Project

*To be confirmed

