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TO
21 NOV 2024 | Hamburg
Germany

THE MOTORSHIP 45TH 2024
PROPULSION
& Future Fuels Conference

Conference Programme

Empire Riverside Hotel, Hamburg

Powering shipping's emissions-cutting ambitions
Propulsion stream | Alternative fuels stream | Technical visit

Two days of conference streams commencing with a keynote panel focused on EU Regulatory Requirements and the Emerging Market for Carbon Capture: Challenges and Opportunities, followed by sessions that will explore the Fuels for 2030, LNG Methane Slip Reductions, Advances in Engine Performance, and the shortlisted nominations for the Motorship Awards. Within the streamed sessions on day 2 you can expect to learn about the specific challenges with Bio-Fuels, Retrofit, Hydrogen, Ammonia, Wind Propulsion, Carbon Capture, and Crew Training for new fuels.

Chairmen:

Lars Robert Pedersen, Deputy Secretary General, BIMCO
Dr. Markus Münz, Managing Director, VDMA Large Engines

Moderators:

Philipp Simmank, Technical Advisor, VDR – German Shipowners' Association
Gavin Allwright, Secretary General, IWSA

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DAY ONE - TUESDAY 19 NOVEMBER 2024

08:00 Coffee & Registration

09:00 Chairman's welcome

Lars Robert Pedersen, Deputy Secretary General, BIMCO

09:10 Gold sponsor welcome

Rasmus Stute, Area Manager Germany, Vice President, Maritime, DNV

KEYNOTE PANEL: EU Regulatory Requirements and the Emerging Market for Carbon Capture: Challenges and Opportunities

Panel Moderator: *Lars Robert Pedersen, Deputy Secretary General, BIMCO*

Panellists include:

Sergey Gribanov, Area Business Development Manager Germany, Maritime, DNV

Dr. Harry Conway, Chair, The Marine Environment Protection Committee (MEPC), IMO

*Joe Bettles, Climate Policy & Analysis Manager, Mærsk Mc-Kinney Møller Center
for Zero Carbon Shipping*

Manfred Lebmeier, Senior Environmental Advisor, Hamburg Port Authority

10:30-10:50 Coffee and Networking

SESSION 1: Methanol: Lessons Learned from Expansion of Vessels Operating on Methanol

10:50-11:50 **Panel Moderator:** *Dr. Markus Münz, Managing Director, VDMA Large Engines*

10:50-11:05 **Realizing the Methanol-Vision within MPC Container Ships ASA**

Sebastian Ebbing, Group Sustainability Officer, MPC Container Ships GmbH & Co. KG

A look at the project realization of methanol-fueled vessels achieving up to 90% emission reductions with "green" methanol and how the environmentally friendly designs is able reduce fuel consumption by 40% utilized by MPC Container Ship ASA

11:05-11:20 **Methanol as a Marine Fuel**

Kjeld Aabo, Maritime Transport Senior Advisor, Methanol Institute

This presentation gives an overview of Methanol potential and application as the CO₂ neutral fuel and some thoughts in the gradual marked introduction of the Low carbon Methanol, E-methanol, and Bio-Methanol for decarbonization. Kjeld Aabo, Maritime Transport Senior Advisor, Methanol Institute

11:20-11:35 **Methanol Superstorage as a shipboard solution**

Hannes Lilp, CEO and founder, SRC Group

Owners chose methanol as the top marine fuel for new ships in 2023, but challenges around storage capacity remain. SRC's Methanol Superstorage offers an 85% increase in fuel tank volume with minimal impact to general arrangement, gaining Lloyd's Register Approval in Principle (AiP).

11:35-11:50 **Cylinder Oil Reuse: A Breakthrough in Marine Engineering**

Thorbjørn Petersen, Chief Technical Officer and Co-Owner, Smart-Marine

Revolutionizing the marine industry by reusing cylinder oil, enabled by effective automatic drain cleaning system — cutting costs and emissions.

11:50-12:10 Q&A

12:10-13:40 Lunch & Networking

**invited*

SESSION 2: LNG: Methane Slip Reductions, Advances in Engine Performance

13:40-14:40 *Moderator: Lars Robert Pedersen, Deputy Secretary General, BIMCO*

13:40-13:55 **Groundbreaking Innovations for Decarbonizing Shipping Today**

Can Murtezaoglu, Business Development Manager, GTT

GTT has been developing its cutting-edge technologies for expediting the shipping sectors' decarbonization efforts. New topics that will be scrutinized during this conference will circle around future fuel flexibility (NH₃ and MeOH readiness), better BOG management via innovation and digitalization, increasing efficiency and more.

13:55-14:10 **Methane mitigation technologies for X-DF Engines: Updates and Experience**

Thomas Werner, Customer Support Manager for iCER, WinGD

Combustion control plays a critical role in guaranteeing high efficiency and lower methane emissions. The presentation provides latest service experience with the iCER system and updates on the VCR technology.

14:10-14:25 **LNG Fuelled Vessels**

Emmanuel Delran, Vice-président Group Opérations, CMA CGM

A look at the series of ten new 2,000 TEU containerships powered by liquified natural gas and CMA CGM's fleet renewal program, as they look to achieve net-zero emissions by 2025.

14:25-14:40 **Methane Abatement in Maritime Innovation initiative (MAMII)**

Steve Price, MAMII Programme Director, Safetytech Accelerator, Lloyds Register

Hear how MAMII's 23 partners and the Safetytech Accelerator source technology to measure and remove methane emission. What technology exists? Can we mitigate methane emissions? What regulation do we need?

14:40-15:00 **Q&A**

15:00-15:30 **Coffee and Networking**

SESSION 3: THE MOTORSHIP AWARDS



15:30-16:50 *Panel Moderator: David Stevenson, Mercator Media, The Motorship Editor*

15:50-15:45 *Anemoi and Lloyd's Register*

Innovative Collaboration: Success in Operational Excellence and Emissions Reduction through Wind-Assisted Propulsion.

Santiago Suarez de la Fuente, Mechanical/Marine Engineer, Lloyd's Register

15:45-16:00 *ABB*

Reducing voyage costs & emissions with the new, intelligent Optimal Speed Routing

Jarco van den Brink, Product Manager, Routing Services, ABB Marine & Ports

16:00-16:15 *bound4blue*

Driving decarbonization on the maritime sector - Suction sails for merchant ships

Alberto Llopis Pascua, Head of Aerodynamics, bound4blue

16:15-16:50 *CM Technologies*

Groundbreaking Scuffing Sensor

Matthias Winkler, Managing Director, CM Technologies

16:50 **Conference wrap-up and close**

18:30

Conference Dinner

Zum Alten Lotsenhaus
Övelgönne 13, 22605 Hamburg

DAY TWO - Wednesday 20 November 2024

08:30 Coffee & Registration

09:00-09:15 Recap of day 1 by Chairmen

SESSION 4: Bio-Fuels: Operational Experience for 2-Stroke and 4-Stroke Engines

Moderator: Lars Robert Pedersen, Deputy Secretary General, BIMCO

09:15-09:30 **Biofuels – the operational challenges**

Dr Muhammad Usman, CEng, FIMarEST, Product Manager Fuel Advisory at Lloyd's Register

09:30-09:45 **Decarbonisation of the Existing Fleet, a new biofuel application BioHFO**

Jorge Manuel Gomes Antunes, TecnoVeritas

Introducing BioHFO: a cost-effective, biofuel-based solution for decarbonizing existing fleets, meeting IMO and EU standards while reducing CO₂ and compliance costs.

09:45-10:00 **Drop-in(g) biofuels on cruise ships**

Stefan Fahrholz, Manager R&D - Decarbonisation, Carnival Maritime

Drivers, challenges and learnings from biofuel testing

10:00-10:15 **Biofuels onboard – user experiences**

Remco de Witte, Global Application Manager, Fuel & Lubrication Oil treatment, Alfa Laval

The latest developments in the ISO8217 fuel standard and feedback of shipowners on biofuel usage both in the engine and in the fuel treatment system.

10:15-10:35 **Q&A**

10:35-10:55 **Coffee and Networking**



SESSION 5

10:55-12:15

Session 5.1: Retrofit	Session 5.2: Hydrogen: Internal Combustion Engine (ICE) and Fuel Cell Advances
<p>Moderator: <i>Philipp Simmank, Technical Advisor, VDR – German Shipowners' Association</i></p>	<p>Moderator: <i>Dr. Markus Münz, Managing Director, VDMA Large Engines</i></p>
<p>10:55 -11:10 Fleet Upgrade and Green Recycling Captain Wolfram Guntermann, Director Regulatory Affairs, Hapag-Lloyd AG The fleet upgrade program is improving efficiency of existing assets and in a way resource conservation. Ships which cannot be upgraded anymore will be evaluated for green ship recycling according to the Hapag-Lloyd Recycling Policy."</p>	<p>10:55 -11:10 Hydrogen installations on board passenger ships Patrizio Di Francesco, North Europe Special Projects Business Development Manager, RINA Status of art about hydrogen rules (IMO Guideline, class rules), hydrogen technology availability and technical challenges for the hydrogen and fuel cell installation on passenger ships in international trade.</p>
<p>11:10 -11:25 Accelleron's Engine Part Load Optimization Matthias Reichmann, Product Manager, EPLO, Senior Engine Expert, Accelleron Hands-on experience in synchronizing turbocharger and engine tuning to cut fuel costs and emissions, and prepare ships for efficient use of carbon-neutral fuels.</p>	<p>11:10 -11:25 Challenges of hydrogen fuel cell system integration in maritime Jeremy Bowman, Chief Technical Officer, Hyper-Motive Exploring via case study of a demonstrator and development of a product for marine hydrogen propulsion, the challenges of integrating new technologies for sustainable propulsion into the maritime environment</p>
<p>11:25 -11:40 Avoiding Overconsumption Anders Bergh, Head of Fleet Performance, Manta Marine Technologies AB By putting the right tools in the hands of the crew, increased operational efficiency can be achieved with relatively little effort. Turn to this presentation for an explanation on how.</p>	<p>11:25 -11:40 Making green logistics easy Erik Hofmeester, Head of Fleet Management - Vessel, Samskip After a brief introduction and Samskip, the presentation describes the Samskip sustainability Strategy and the past, current & future projects to reach 50% CO2 reduction in 2030 and net-zero in 2040.</p>
<p>11:45 -11:55 The role of Retrofitability to the Decarb transition of the shipping industry – Challenges and opportunities at hand Georgios Atzampos, Ship Design & Transformation Manager, Maersk Mc-Kinney Møller Center With limited availability of new green vessels, retrofitting existing ones becomes crucial. Historically overlooked, retrofitting has been costly and slow. The key challenge now is to optimize and streamline the process, making it an efficient option to accelerate the green transition and improve vessel retrofitability.</p>	<p>11:45 -11:55 Delivering the UK's First Hydrogen APU Sea Trials: A Breakthrough in Maritime Decarbonization Archie Watts-Farmer, Chief Executive Officer, Carnot Engines What does it take to deliver "first-of-its-kind" technologies in the maritime industry? Exploring the partnership between Carisbrooke Shipping and Carnot Engines.</p>
<p>11:55-12:15 Questions & Answers Session</p>	<p>11:55-12:15 Questions & Answers Session</p>

12:15-13:45 Lunch & Networking

SESSION 6

Session 6.1: Ammonia: Challenges and Solutions (fuel supply, after treatment, new engines, pollution control, fuel tanks)	Session 6.2: Wind Propulsion
<p>Moderator: <i>Lars Robert Pedersen, Deputy Secretary General, BIMCO</i></p>	<p>Moderator: <i>Gavin Allwright, Secretary General, IWSA</i></p>
<p>13:45 -14:00 Moving big things to zero: Ammonia two-stroke engine development. <i>Kristian Mogensen, Promotion Manager MAN Energy Solutions</i> MAN Energy Solutions pioneers the development of two-stroke ammonia engine technology, offering shipowners and operators an alternative pathway towards achieving zero emissions</p>	<p>13:45 -14:00 Taking fuel savings to the next level with integrated wind solutions <i>Oskar Levander, VP Strategy & Business Development Integration & Energy, Kongsberg</i> Holistic approach to wind assisted vessel design. Integration of wind propulsion with machinery and other energy saving measures. Introducing a novel bulker concept that will deliver fuel savings of 40-50%</p>
<p>14:00 -14:15 Alfa Laval Solutions for the Use of Ammonia as Fuel <i>Dr. Luca Lori, Global Applications Manager Fuel Supply Systems Global, Alfa Laval</i> As the shipping industry navigates the route to decarbonization, Alfa Laval has broadened its portfolio by introducing a range of technologies and solutions that enable the use of future fuels, including methanol, biofuels, LPG, and now ammonia.</p>	<p>14:00 -14:15 Wind assisted propulsion systems; class perspective and class services <i>Hasso Hoffmeister, Senior Principle Engineer, DNV</i> An introduction into the world of WAPS. What are the classification standards and rules that are setting the stage for a new age of wind?</p>
<p>14:15 -14:30 Lubricants Enabling Alternative Fuels for Maritime Decarbonization <i>Edward Ng, General Manager – Technology Gulf Oil Marine Ltd</i> This study examines ammonia's impact on engine oil degradation by artificial ageing. The aged oils' performance was evaluated for oxidation, corrosion, deposit formation, and wear properties.</p>	<p>14:15 -14:30 Oceanbird Wing 560 – bringing sailing back to shipping <i>Alfred Rapaport, Performance Engineer (Naval Architect), Oceanbird</i> Status update of the Oceanbird Wing 560 – a rigid wing sail developed to enable sustainable shipping.</p>
<p>14:30 -14:45</p>	<p>14:30 -14:45 Decarbonizing long distance shipping with alternative fuels, technology synergy and digital design <i>Mia Elg, R&D Manager, Deltamarin</i> Reviewing a case of wind assisted bulk carrier design, where the machinery and energy saving technologies' synergies are the key to future ship designs.</p>
<p>14:45 -15:05 Questions & Answers Session</p>	<p>14:45 -15:05 Questions & Answers Session</p>

15:05-15:35 **Coffee & Networking**

Session 7.1: Carbon Capture: Emission Reduction, Findings and New Projects	Session 7.2: Crew Training for new fuels
<p>Moderator: <i>Dr. Markus Münz, Managing Director, VDMA Large Engines</i></p>	<p>Moderator: <i>Lars Robert Pedersen, Deputy Secretary General, BIMCO</i></p>
<p>15:35 -15:50 How maritime carbon capture and storage will play a crucial role in reducing shipping's CO2 emissions. <i>Stian Aakre, General Manager, Technical and R&D, Wärtsilä Exhaust Treatment</i></p>	<p>15:35 -15:50 Methanol as Marine Fuel - Training <i>Fredrik Stubner, Chief Executive Officer, Green Marine</i> A Methanol training curriculum created to address the gap in the current IGF training, which is primarily focused on LNG. Specifically covering methanol as a fuel, including training on bunkering operations.</p>
<p>15:50 -16:05 Onboard Carbon Capture and Storage (OCCS) – The Emerging Regulatory Landscape <i>Chris Waddington, Technical Director, International Chamber of Shipping (ICS)</i> IMO are developing a regulatory framework for the use of onboard carbon capture systems. Work is also ongoing on the updating of the London Protocol to allow application of geo-sequestration technology while ensuring protection of the marine environment.</p>	<p>15:50 -16:05 Odd Rune Malterud, Assistant Director & Technical Manager, Norwegian Union of Marine Engineers</p>
<p>16:05 -16:20 Onboard carbon capture utilization and storage, for vessels and offshore applications. <i>Dr. Ulrich Malchow, Advisor, Ionada GmbH</i> Key findings from feasibility studies completed for onboard carbon capture and utilization on marine vessels and offshore applications, LNG Carriers and FPSOs.</p>	<p>16:05 -16:20 Ready for Safe operations with new fuels – the impact on seafarers, personnel ashore and shipowner's organizations <i>Olaf Doerk, Head of Advisery Center Hamburg, DNV</i> Along with the implementation of new low-carbon fuels, the required competence for seafarers, personnel ashore and the shipowner's organization will change. Addressing this holistically, is key to ensure a safe, reliable and efficient operation.</p>
<p>16:20 -16:35 Navigating Onboard Carbon Capture: Technologies, Feasibility, and Regulations <i>Hamid Daiyan, ABS Manager, Global Sustainability, ABS Europe Ltd</i> Explore the technologies driving onboard carbon capture. We will delve into some of the findings from our feasibility studies, highlighting key learnings and practical insights. Finally, we will provide an overview of the current regulatory landscape and discuss the implementation.</p>	<p>16:20 -16:35</p>
<p>16:35 -16:55 Questions & Answers Session</p>	<p>16:35 -16:55 Questions & Answers Session</p>

16:55-17:10 Conference Wrap up with Moderators and Chairmen

17:10 Conference Close

DAY THREE - THURSDAY 21 NOVEMBER 2024 - TECHNICAL VISIT

09:00 - 12:30 **DNV offices: Brooktorkai 18 · 20457 Hamburg**
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