

2021 IMO Symposium on alternative low-carbon and zero-carbon fuels

Tuesday, 9 and Wednesday, 10 February 2021

Day 1 – Tuesday, 9 February 2021, 11.00 – 14.00 UTC

11:00 – 11:15	Introduction and opening remarks
11:15 – 11:20	Introduction of the Symposium by its moderator, Mr Sveinung Oftedal (Norway – Chair of ISWG-GHG)
11:20 – 12:20	Block 1: Using alternative sustainable fuels. Lessons-learnt from alternative fuel use by shipowners <ul style="list-style-type: none">• CMA-CGM <i>Challenges faced and lessons-learnt on operating LNG-fuelled containerships</i>• Mr. Paul Hexter, President, Waterfront Shipping Company <i>Experience from operating tankers on methanol</i>• Eastern Pacific Shipping <i>Testing biofuels on commercial maritime routes</i>• Mr. Toshi Nakamura, General Manager, Green Business Group NYK Line Green Business Group <i>Expectations from a shipowner on using ammonia as marine fuel for zero-emission ships</i>• Mr. Simon Bergulf, Director of Regulatory Affairs for A.P. MØLLER – MAERSK <i>Moving towards zero-carbon shipping (title tbc)</i>
12:20 – 12:40	Q&A with delegates
12:40 – 13:40	Block 2: Building alternative fuel-ready ships. State-of-play in shipyards, ship designers and technology providers <ul style="list-style-type: none">• Mr. Peng Guisheng, Senior Engineer, Dalian Shipbuilding Industry Co. (DSIC), China <i>Ammonia-fuelled 23,000 TEU ultra-large container ship concept design</i>• Dr. Junkeon Ahn, Korea Maritime Transportation Safety Authority <i>A Korean perspective: 2030 Green Ship-K Initiative</i>• Mr. Takeo Akamatsu, Deputy General Manager, Marine Department, Itochu Corporation, Japan

Integrated ammonia fuelled vessel project, from technology development to commercial operation, including establishment of ammonia fuel supply chain

- EUROMOT
Building future-proof marine engines

Q&A with delegates

**13:40 –
14:00**

14:00: close of Day 1

Day 2 - Wednesday, 10 February 2021, 11.00 – 14.00 UTC

**11:00 –
12:05**

Block 3: Providing alternative fuels; building the supply-chain and required infrastructure. State-of-play of preparing for use of alternative fuels in the wider maritime industry

- Mr. Peter Alkema, port of Amsterdam, Chair of the IAPH Working Group on Clean Marine Fuels
Lessons-learnt from LNG bunkering for bio-LNG and other alternative fuels
- Ms. Linda Hammer, DNV-GL
Transition to zero emission solutions for shipping in Norway
- Dr. Sotirios Mamalis, ABS
Hydrogen as Marine Fuel - Infrastructure and Fuel Supply Challenges
- Mr. Daryl Wilson, Executive Director, Hydrogen Council
State of play, prospects, and barriers for hydrogen as a marine fuel
- Dr. Bryan Comer, International Council on Clean Transportation (Pacific Environment)
Providing alternative marine fuels: Supply-chain sustainability considerations, required infrastructure, and how IMO can help

**12:05 –
12:25**

Q&A with delegates

**12:25 –
13:30**

Block 4: Prospects for alternative sustainable fuels. Research & Development and demonstration projects, including involvement / opportunities for countries in the production and utilization of alternative sustainable marine fuels

- Pr. Roberto Shaeffer, Federal University of Rio de Janeiro
Case study: prospects for alternative marine fuel production in Brazil
- Mr. Jesse Fahnestock, Getting to Zero Coalition
Mapping of zero emission pilots and demonstration projects
- Chile
Chile's Hydrogen Strategy and opportunities for marine fuels
- Dr. Jasmine Lam, Maritime Energy and Sustainable Development (MESD) Centre of Excellence, Singapore
Will alternative fuels be ready for shipping to meet its GHG target in 2050?
- UK
Zero-carbon fuels in the UK Clean Maritime Plan

**13:30 –
13:50**

Q&A with delegates

13:50 – Summary and conclusion of the Symposium
14:00

14:00: close
