



## 2021 MARINE BOARD VIRTUAL FALL MEETING

November 17-18, 2021

FINAL AGENDA

[Marine Board Members](#) | [Meeting Speakers](#)

### ***Focus Session: Toward Decarbonization: The Future of Marine Energy and Propulsion***

The 2021 Marine Board Fall Meeting will be delivered as a virtual event with a focus session and discussion catalyzed by guest speakers addressing maritime decarbonization and alternative fuels. Many marine operators, ship owners, and other stakeholders have affirmed their commitments to pursue zero emissions shipping by certain dates. Major cargo owners increasingly demand sustainable options for transportation services. The marine sector presents special challenges for reducing emissions, as energy-dense fuels are required for long-distance ocean shipping, extended-duration military applications, and operations in remote areas with limited refueling options. Accordingly, access to energy-dense fuels and investments in supply infrastructure for alternative, low-emission energy sources are important to ensuring worldwide availability. Potential new energy sources for marine use include cleaner fossil fuels and biofuels; compressed or liquefied natural gas (CNG, LNG); hydrogen; ammonia; methanol; on-board wind and solar energy; and electrification for propulsion and shore power using improved batteries and fuel cells. The preferred low- and zero-emissions energy sources often vary by location, application, cost and availability. Fuel changes will also require major vessel modifications and full vessel replacement in some cases. Public perception of risks of new energy sources can also be critical considerations for some alternatives, such as LNG, ammonia, hydrogen, and nuclear.

If the international governance structures around establishing goals and standards proceeds slowly or sporadically, this may lead some governments, port authorities, and companies to take individual action to address the most pressing climate and near-port health concerns within their jurisdictions. Some major shippers' aggressive climate goals could potentially create conflicting strategic drivers.

This Marine Board focus session titled *Toward Decarbonization: The Future of Marine Energy and Propulsion* will seek to elicit the viewpoints of major shipping industry players and regulatory agencies in the U.S. with respect to the roles and purviews of the public and private sectors in stimulating the necessary conditions for decarbonization and alternative fuel adoption in the marine transportation system. The framing elements and ensuing discussions are intended to surface the technical, policy and economic opportunities and barriers to U.S. leadership in decarbonizing shipping. The Marine Board intends to probe in three areas: pathways, economics, and public sector roles.

**10:30 AM Marine Board Call to Order, Welcome, and Introductions**

Dr. Martha Grabowski, Marine Board Chair

**10:45 AM – 12:15 PM Panel 1 – Industry Viewpoints**

*Moderator:* Dr. Lee Kindberg, Marine Board Member

- Bo Cerup-Simonsen, Chief Executive Officer at Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping
- Bud Darr, Executive Vice President, Maritime Policy and Government Affairs at MSC Group
- Heather Wood, U.S. Director, Sustainability, CMA CGM
- Jennifer Carpenter, President and CEO, American Waterways Operators

**12:15 PM – 1:00 PM Lunch Break**

**1:00 PM – 2:30 PM Panel 2 – Recognized Barriers and Regulatory Challenges**

*Moderator:* Dr. Geraldine Knatz, Marine Board Member

- Patrick Verhoeven, Managing Director at International Association of Ports and Harbors (IAPH)
- Alisa Praskovich, Vice President of Sustainability, Crowley Maritime Corporation
- Stergios Stamopoulos, Principle Engineer of Sustainability Activities in the Americas at American Bureau of Shipping (ABS)
- CAPT Chad Cary, Office of Marine and Aviation Operations, National Oceanic and Atmospheric Administration

**2:30 – 2:45 PM Break**

**2:45 – 4:30 PM Panel 3 – Evolving Federal Roles and Purviews**

*Moderator:* Sean Pribyl, Marine Board Member

- Andrew Rakestraw, Office of Special Presidential Envoy for Climate
- Michael Berube, Deputy Assistant Secretary for Sustainable Transportation, Office of Energy Efficiency and Renewable Energy, U.S. Dept. of Energy
- Karl Simon, Director, Director, Transportation and Climate Division, U.S. Environmental Protection Agency
- Michael Carter, Associate Administrator for Environment and Compliance, U.S. Maritime Administration
- Jeffrey G. Lantz, Director of Commercial Regulations and Standards, US. Coast Guard
- H. Scott Coombe, Program Officer, Power & Energy Science and Technology, Office of Naval Research

**4:30 - 4:45 PM Focus Session Reflections & Wrap up**

Dr. Lee Kindberg and Dr. Martha Grabowski

10:00 AM – 11:45 AM

**Marine Board Sponsor Liaison Updates**

- CDR Laura Springer, U.S. Coast Guard
- Mr. Kevin Knight, U.S. Army Corps of Engineers
- Dr. Thomas Fu, Office of Naval Research, U.S. Navy
- Ms. Heather Gilbert, National Oceanic and Atmospheric Administration
- Mr. John Cushing, Bureau of Safety and Environmental Enforcement
- Mr. Michael Carter, Maritime Administration

12:00 PM

**Meeting Adjourns**