

Online Workshop on Greening Canada's Marine Transportation Consideration of Alternative Marine Fuels

April 20 and 21, 2022

Zoom Meeting
12:30 pm – 17:30 pm Newfoundland Time (NDT) Zone

Objectives of the workshop:

1. CISMART updates
2. To develop programs / plans for greening Canada's marine transportation sector with a focus on alternative fuels
3. Outline the worldwide need for alternative fuels, and trends in transitioning from conventional to green fuels in the international marine industry
4. Identify issues and approaches among operators and stakeholders in Canada
5. Propose a research program to facilitate the transition in Canada
6. Develop themes for future workshops or propose next steps on alternative fuels in Canada

April 20, 2022 (Day 1)

12:30 – 12:50	<i>Opening Remarks and CISMART Updates</i> (Wei Qiu, Chair, Interim Board of CISMART)	<ul style="list-style-type: none"> • Workshop facilitator: Dr. Bruce Colbourne
12:50 – 14:50	<i>Overview of Alternative Fuels for the Marine Industry - Short Course</i> Jan Hagen Andersen, DNV	<ul style="list-style-type: none"> • Technologies for GHG reduction • "Well to wake" considerations • Alternative fuels • Summary of emissions by shipping in Canadian waters
14:50 – 15:00	<i>Break</i>	
15:00 – 15:35	<i>Green Transportation in Canadian Waters</i> David Bolduc, Green Marine	
15:35 – 16:10	<i>Challenges Faced by Domestic Bulk Carriers in Decarbonization and Towards Green Operations</i> Yousef El Bagoury, CSL	<ul style="list-style-type: none"> • Challenges faced by short-sea operators in transitioning to green operations
16:10 – 16:45	<i>A Canadian Ferry Operator's Perspective</i> Tony Vollmers and Greg Peterson, BC Ferries	<ul style="list-style-type: none"> • Challenges faced by ferry operators in transitioning to green operations
16:45 – 17:15	<i>Q&A Session, Discussion</i>	<ul style="list-style-type: none"> • How is Canada likely to effect the transition?

April 21, 2022 (Day 2)

12:30 – 12:35	<i>Opening Remarks</i>	<ul style="list-style-type: none"> Brief summary from Day 1 Overview for Day 2
12:35 – 13:10	<i>Challenges for Ship Designers in Using New Fuels</i> Andrew Kendrick, VARD/SNAME	<ul style="list-style-type: none"> New vessels Conversions Storage Fueling
13:10 – 13:45	<i>A Port Operator's Perspective</i> Gary Olszewski, Vancouver Fraser Port Authority	<ul style="list-style-type: none"> Bunkering Safety Supplies Infrastructure
13:45 – 14:45	<i>Research Needs for Transitioning to Green Fuels in Canada</i> Panel Discussions Moderator: Andrew Kendrick (SNAME) Panelists: Andy Stone, (Ocean Supercluster) Erik Johnston (Robert Allan Ltd.) Mandar Avsare (Transport Canada) Paul Topping (Chamber of Marine Commerce) Zuomin Dong (University of Victoria)	<ul style="list-style-type: none"> To develop projects / plans for introducing alternative fuels in Canada's marine transportation sector To develop a roadmap for use of low-carbon fuels in Canada's marine sector
14:45 – 14:55	<i>Break</i>	
14:55 – 15:40	General Session 1	<ul style="list-style-type: none"> What fuels have the most promise?
15:40 – 16:25	General Session 2	<ul style="list-style-type: none"> What technologies should Canada focus on?
16:25 – 16:30	<ul style="list-style-type: none"> Closing remarks Future workshops and/or steps on the subject of alternative marine fuels 	