

C I S M a R T

CANADIAN NETWORK FOR INNOVATIVE SHIPBUILDING, MARINE RESEARCH AND TRAINING | RÉSEAU CANADIEN POUR L'INNOVATION DANS LA CONSTRUCTION NAVALE, LA RECHERCHE MARINE ET LA FORMATION

Online Workshop on Advancing Canadian Marine Technology

In Partnership with



November 25-26, 2020

Zoom Webinar and Zoom Meeting
12:30 pm – 5:00 pm Newfoundland Time Zone

Overall objectives of the workshop:

- CISMART Updates
- Day 1: Ship underwater radiated noise – progress and follow-on projects
- Day 2: Maritime autonomous surface ships – progress and follow-on projects

November 25, 2020

12:30 – 12:40	<i>Opening Remarks and CISMART Updates</i> (Speaker, Wei Qiu, Chair, Interim Board of CISMART)	<ul style="list-style-type: none"> • Roger Basu is the Workshop Facilitator
12:40 – 13:00 including 5 min Q&A	<i>Update on Ship Underwater Noise and Transport Canada Innovation Centre Initiatives</i> (Speaker: Abigail Fyfe, Transport Canada)	<ul style="list-style-type: none"> • Current projects • Plan for follow-on projects
13:00 – 13:10	<i>Marine Acoustic Research Station (MARS) in the St. Lawrence</i> (Panelist: Guillaume St-Onge, Institut des sciences de la mer de Rimouski (ISMER))	<ul style="list-style-type: none"> • Presentation only • Q&A at 13:50pm
13:10 – 13:20	<i>Real-time Hydrophone Deployment in Boundary Pass in the Salish Sea</i> (Panelist: Dave Hannay, JASCO)	<ul style="list-style-type: none"> • Presentation only • Q&A at 13:50pm
13:20 – 13:30	<i>Queen of Oak Bay URN and GHG Reduction with Hull Maintenance</i> (Panelist: Chanwoo Bae, BC Ferry)	<ul style="list-style-type: none"> • Presentation only • Q&A at 13:50pm
13:30 – 13:40	<i>URN and GHG Reduction Program for Canada's Inshore Fishing Craft</i> (Panelist: Mo AlGermozi, Graphite; Jim Covill, Lloyd's Register)	<ul style="list-style-type: none"> • Presentation only • Q&A at 13:50pm
13:40 – 13:50	<i>URN and GHG Reduction for Small Vessel with Side-by-Side Diesel and Electric Propulsion System</i> (Panelist: Sue Molloy, Glasocean)	<ul style="list-style-type: none"> • Presentation only • Q&A at 13:50pm
13:50 – 14:10	Q&A	<ul style="list-style-type: none"> • Q&A for the panelists above. • Please write your questions in the Webinar Chat
14:10 – 14:25	Break	
14:25 – 14:35	<i>URN Monitoring for Orca-Class Training Vessel</i> (Panelist: Layton Gilroy, DRDC Atlantic)	<ul style="list-style-type: none"> • Presentation only • Q&A at 15:25pm
14:35 – 14:45	<i>Cavitation Monitoring and Management with KINETIX</i> (Panelist: Tim Rees and Tom Gunston, AllSalt Maritime)	<ul style="list-style-type: none"> • Presentation only • Q&A at 15:25pm

14:45 – 14:55	<i>Feasibility of real-time shipboard cavitation monitoring and management</i> (Panelist: Bruce Martin, JASCO)	<ul style="list-style-type: none"> • Presentation only • Q&A at 15:25pm
14:55 – 15:05	<i>Support ISO TC43/SC3 to Develop Measurement Standard for Shallow Water Vessel Source Level Measurements</i> (Panelist: Alex MacGillivray, JASCO)	<ul style="list-style-type: none"> • Presentation only • Q&A at 15:25pm
15:05 – 15:15	<i>URN Technical Bibliography</i> (Panelist: Don MacPherson, HydroComp)	<ul style="list-style-type: none"> • Presentation only • Q&A at 15:25pm
15:15 – 15:25	<i>Vessel URN Project Concept</i> (Panelist: Paul Blomerus, Clear Seas)	<ul style="list-style-type: none"> • Presentation only • Q&A at 15:25pm
15:25 – 15:45	Q&A	<ul style="list-style-type: none"> • Q&A for the panelists above. • Please write your questions in the Webinar Chat • At the end of Q&A, all the participants and panelists will join the Zoom Meeting for the rest of Day 1 program. • The link to the Zoom Meeting is provided in Chat of the Webinar. • The link was sent to participants as a backup before the Workshop.
15:45 – 15:50	<i>Objectives and Guidelines for the Breakout Sessions</i> (Roger Basu)	<ul style="list-style-type: none"> • Provide context for breakout discussions – looking for themes for next RFP • Breakout sessions will be held at Zoom Meeting. • See instructions for the breakout sessions.
15:50 – 16:30	<i>Breakout Sessions (Five Breakout Groups)</i>	<ul style="list-style-type: none"> • In Zoom Meeting
16:30 - 17:00	<i>Plenary Summaries by Group Leaders / Concluding Remarks for Day 1</i>	<ul style="list-style-type: none"> • In Zoom Meeting

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November 26, 2020

12:30 – 12:45	<i>Overview of NRC's Ocean Program</i> (Speaker: Marie-Chantal Ross / Fraser Winsor, NRC)	<ul style="list-style-type: none"> Including a description of the Grant opportunity through CISMaRT to enable MASS
12:45 – 13:00	<i>Overview of TC's MASS Activities</i> (Speaker: Howard Posluns, Transport Canada)	<ul style="list-style-type: none"> Including national and international updates
13:00 – 13:10	<i>Use of Machine Learning for Identification and Characterization of Vessel Operational Best Practices</i> (Speaker: Allison Kennedy, NRC)	<ul style="list-style-type: none"> Presentation only Q&A at 14:10pm
13:10 – 13:20	<i>Digital Twin Technology for Autonomous Operation in Harsh Environment</i> (Speaker: Dong Cheol Seo, NRC)	<ul style="list-style-type: none"> Presentation only Q&A at 14:10pm
13:20 – 13:30	<i>Prediction of Ice in the Canadian Arctic and St Lawrence Waterway Using Artificial Intelligence</i> (Speaker: Philippe Lamontagne, NRC)	<ul style="list-style-type: none"> Presentation only Q&A at 14:10pm
13:30 – 13:40	<i>Development of Ship Situational Awareness in Ice</i> (Speaker: Matt Garvin, NRC)	<ul style="list-style-type: none"> Presentation only Q&A at 14:10pm
13:40 – 13:50	<i>MASS Navigation in Ice</i> (Speaker: Bob Gash, NRC)	<ul style="list-style-type: none"> Presentation only Q&A at 14:10pm
13:50 – 14:00	<i>St Lawrence Seaway Autonomous Marine Testbed</i> (Speaker: Kevin Murrant, NRC)	<ul style="list-style-type: none"> Presentation only Q&A at 14:10pm
14:00 – 14:10	<i>Extension of Driving Automation Research Activities at NRC to the Marine Use Case</i> (Speaker: Taufiq Rahman, NRC)	<ul style="list-style-type: none"> Presentation only Q&A at 14:10pm
14:10 – 14:30	Q&A	<ul style="list-style-type: none"> Q&A for the NRC speakers above Please write your questions in the Webinar Chat
14:30 – 15:30	<i>Panel Discussions</i> Panelists: Dave Belisle, Algoma Brian Veitch, Memorial University Vince den Hertog, Robert Allan Ltd. Ørnulf Jan Rødseth, SINTEF Ocean Bruce Phillips, Vard Marine	<ul style="list-style-type: none"> View of the MASS work currently underway in Canada Suggestions for the follow-on projects to expand and enable the MASS operations in Canadian waters Questions should be addressed to panelists through the Webinar Chat At the end of panel discussions, all the participants and panelists will join the Zoom Meeting

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		<p>for the rest of Day 2 program.</p> <ul style="list-style-type: none"> • The link to the Zoom Meeting is provided in Chat of the Webinar. • The link was sent to participants as a backup before the Workshop.
15:30 – 15:35	<i>Objectives and Guidelines for the Breakout Sessions (Roger Basu)</i>	<ul style="list-style-type: none"> • Breakout sessions will be held at Zoom Meeting. • See instructions for the breakout sessions.
15:35 – 16:15	<i>Breakout Sessions (Five Breakout Groups)</i>	<ul style="list-style-type: none"> • In Zoom Meeting
16:15 - 16:45	<i>Plenary Summaries by Group Leaders</i>	<ul style="list-style-type: none"> • In Zoom Meeting
16:45 – 17:00	<i>Next Steps and Concluding Remarks</i>	