



TIME	TOPIC	SPEAKERS
7:30 – 8:45	Registration, Breakfast & Networking	
8:50 – 9:00	Welcome	Terri Pavelic , Editor-in-Chief, Vanguard
9:00 – 9:35	Opening Keynote Speaker <i>Accessing Innovation in DND: Overview of the Innovation for Defence Excellence and Security (IDEaS) Program</i>	Chris Brosinsky , Director, Innovation for Defence Excellence and Security (IDEaS), Department of National Defence
9:35 – 10:00	Presentation 1: Build in Canada Innovation Program (BCIP) presentation	Pierre Chartier , Innovation Management Advisor, Build in Canada Innovation Program (BCIP)
10:00 – 10:15	Lightning Talk: Dominis Engineering	Bodo Gospodnetic , President, Dominis Engineering Ltd
10:15 – 10:45	Networking Break	
10:45 – 11:30	Presentation 2: Lessons Learned in Developing Infra-Red Search and Track Systems for Naval Ships: <i>Naval IRST systems have been designed pri- marily for early detection of anti-ship cruise missiles (ASCM) to complement radars for ship self-defence; newer ones have added situational awareness functions. Infrared Search and Track (IRST) for Naval vessels is a relatively recent occurrence starting in the 2000's with systems like Safron/Sagem's "VAMPIR". There are several reasons why IRST deployment at sea has lagged service in other environments, and this session will explore some of the challenges of designing IRST for warships and some of the evolving technolo- gies that have helped with their design.</i>	Yves Boudreault , Chief Scientist, DRS Technologies Canada Ltd.
11:30 – 12:30	Lunch	
12:30 – 13:05	Luncheon Keynote <i>Seas of Change - Coast Guard Adaptation and Innovation</i>	Andy Smith , Deputy Commissioner, Strategy and Shipbuilding, Canadian Coast Guard
13:05 – 14:25	Panel 1: Decarbonization and Marine Propulsion Systems - the move towards greener operations and alternate energy systems: <i>This expert panel will tackle the question of decarbonization in marine propulsion sys- tems by taking a look at current technolo- gies that allow ship owners to incrementally</i>	Moderator: Derek Buxton , Senior Director for Future Capability Development, Canadian Coast Guard Panelists: Andrew Kendrick , Vice-President Operations, Vard Marine Inc



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	<i>reduce carbon intensity and new alternative energy systems that are under development and being readied for the marketplace. The panel will address ship design issues associated with alternative energy systems and offer some insights into the ambition of Canada's federal fleet operators regarding the uptake of these new technologies.</i>	Mark Keneford , General Manager – Marine Solutions, Wartsila Canada Inc. Capt(N) Jacques Olivier , Director – Naval Platform Systems, Department of National Defence Brent Perry , CEO, PBES after Capt(N) Jacques
14:25 – 14:55	Networking Break	
14:55 – 16:00	Panel 2: Innovative Technologies Showcase for Shipbuilding, Repair and Efficiency Improvement Marine vessel performance assessment: <i>The first step towards energy saving is to obtain an accurate quantification of onboard machinery performance, before implementing various operational and technical improvement options. This presentation will cover available fuel performance monitoring technologies and address critical issues to consider when designing a vessel or fleet optimization project.</i> Increasing Fatigue Life in Marine Structures through Effective Residual Stress Management: <i>Application of lightweight structures and high strength steels has increased over recent years in both military and commercial vessels. The use of high strength steel allows reducing the thickness of the used material and, thin steel structures, in turn, reduce the overall weight, improve performance and stability and enhance the overall mission capability. The presence of residual stresses in such structures as a result of welding or other processes, however, leads many times to dangerous distortions and to formation and propagation of cracks that reduce significantly the fatigue life.</i> Underwater Surveillance: <i>Emerging technologies in the domain of underwater surveillance equipment, artificial intelligence, unmanned submarines, and economic terrorism at sea.</i>	Moderator: Cmdre Simon Page , Director General – Maritime Equipment Program Management, Royal Canadian Navy Panelists: Genevieve Allard , Business Development Manager, OpDAQ Systems Jean Michel Filion , Director & CEO, Uncharted Research & Development Inc Jacob Kleiman , Founder, Structural Integrity Technologies Inc
16:00 – 16:10	Closing	
16:10 – 17:00	Reception	