

## IMO Expert Workshop on the relationship between Energy Efficiency and Underwater Radiated Noise

Time	Agenda	Speakers
<b>DAY 1 September 18th</b>		
<b>9H30</b>	Opening Address (15 min)	Mr Joseph Westwood-Booth, Senior Deputy Director in the Marine Safety Division, IMO
<b>9H45</b>	Overview of the Format and Objectives (15 min)	Chairs: Eric Baudin (France), Leila Hatch (United States) and Michelle Sanders (Canada)
<b>Theme 1 REDUCING GHG AND NOISE EMISSIONS: Setting the Stage</b> Chair: Leila Hatch, US		
<b>10H</b>	Introduction and Overview of IMO Energy Efficiency Work (12 min)	Sveinung Oftedal (Norway / Chair of ISWG-GHG)
<b>10H15</b>	Introduction and overview of IMO URN (12 min)	Michelle Sanders, Alternate Permanent Representative of Canada to the IMO
<b>10H30</b>	GloNoise (10 min)	Steven Reyersen & Jose Matheickal, IMO
<b>10H40 Health break (20 min)</b>		
<b>11H</b>	Presentation on the findings and recommendations on the GHG-URN matrix. (30 min)	Rienk Terweij, VARD Marine
<b>11H30</b>	Panel: perspectives on implementation of GHG and noise reduction strategies (1hr)	
		Chris Waddington, International Chamber of Shipping (ICS)
		Jim Covill, International Association of Classification Societies (IACS)
		Madadh MacLaine, Zero Emissions Ship Technology Association (ZESTA)
		Tom Smith, University College London
		John Maggs, Seas At Risk / Clean Shipping Coalition (CSC)
<b>Lunch break 12H30PM-1H45PM (1H15)</b>		
<b>Theme 2 ENERGY EFFICIENCY BY DESIGN AND RELATED NEW SYSTEMS: What do we know about URN relationships?</b> Chair: Eric Baudin, France		
<b>1H45PM</b>	12 min x 8 presenters (2H)	Lee B Kindberg, Maersk (remote)
		Yousef El Bagoury, CSL
		Frans Hendrik Lafeber, MARIN
		Lars Eikeland, Oscar Propulsion
		Mehmet Atlar, Gaters project
		Tomaso Gaggero and Michele Viviani, Life PIAQUO project
		Hongseok Jeong and Hanshin Seol, KRISO
		Kevin Reynolds, Glostten, naval architecture & marine engineering
<b>3H45PM Health break (30 min)</b>		

<b>4H15PM</b>	1H15 panel	all speakers under Theme 2
<b>5H30PM DAY 1 ENDING</b>		

<b>Day 2 September 19th</b>		
<b>9H30</b>	Welcome and report back from Day one to plenary (15 min)	<b>Chairs</b>
<b>9H45</b>	Opening Address (15 min) Indigenous knowledge & impacts of GHG-URN on their livelihood	<b>Lisa Koperqualuk, Inuit Circumpolar Council (ICC)</b>
<b>Theme 3 ENERGY TRANSITION, OPERATIONAL OPTIMIZATIONS AND RELATED SOLUTIONS: What do we know about URN relationships?</b> <b>Chair: Eric Baudin, France</b>		
<b>10H</b>	12 min x 7 presenters (1H45)	<b>Derek White, Port of Vancouver</b>
		<b>Chanwoo Bae, BC Ferries</b>
		<b>Kevin Bartoy, Washington State Ferries</b>
		<b>Mo Algermozi, GRAPHITE</b>
		<b>Arno Dubois, Silverstream Technologies</b>
<b>11H15 Health break (15 min)</b>		
<b>11H30</b>		<b>Stuart Sharp, PowerCell Group</b>
		<b>Gavin Allwright, International Windship Association</b>
<b>12H</b>	1H panel	all speakers under Theme 3
<b>Lunch break 1H-2H (1H)</b>		
<b>Theme 4: BRIDGING THE GAPS AND GOING TO SCALE: Building better information for integrated GHG and noise reduction</b> <b>Chair: Leila Hatch, US</b>		
<b>2H</b>	12 min x 5 presenters (1H15)	<b>Thomas Folegot, Quiet Oceans</b>
		<b>Charlotte Rose Findlay &amp; Christ de Jong, SATURN</b>
		<b>Bruce Anderson, Starcrest</b>
		<b>Charlotte Runzel, SailPlan</b>
		<b>Rene Taudal Poulson, Copenhagen Business School</b>
	45 min panel	all speakers under Theme 4
<b>4H Health break (30 min)</b>		
<b>4H30PM</b>	Plenary (45 min) <b>Chair: Michelle Sanders, Canada</b>	<i>Plenary</i>
<b>5H15PM</b>	Conclusion and Next Steps	<b>Chairs</b>
<b>5H30PM DAY 2 ENDING/WORKSHOP CONCLUDE</b>		