



Safe and Sustainable Marine Shipping: What does it take?

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Clear Seas

CENTRE FOR RESPONSIBLE MARINE SHIPPING

Overview

- Clear Seas - A Brief Introduction
- Engage, Research and Advocate
- Safe and Sustainable Marine Shipping:
What does it take?

Clear Seas: Who We Are

- Independent, not-for-profit organization based in Vancouver with national mandate to promote safe and sustainable shipping
- Provide impartial, evidence-based research and information related to all aspects of safe and sustainable shipping operations in Canadian waters
- Facilitate dialogue, share best practices, recommend policy alternatives, advocate for safe and sustainable marine shipping

Our History

- Established in 2014 after extensive consultation with coastal communities, Aboriginal groups, marine shipping sector, port authorities, NGOs, and other stakeholders
- Created in response to demand for independent voice about safe and sustainable marine shipping operations in Canada
- Mandate is to provide unbiased **research**, **advocate** for world-leading best practices, and **engage** with communities and stakeholders affected by marine shipping

Board of Directors

- Dr. Kate Moran, President & CEO Ocean Networks Canada (Chair)
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- Bud Streeter, President Lloyd's Register Canada
- Roger Thomas, Former Executive Vice-President Nexen Inc.
- Duncan Wilson, Vice-President Corporate Social Responsibility Port Metro Vancouver
- John Woodward, Partner Owner Woodcorp Investments

Our Vision

A **vibrant, safe and sustainable** marine shipping industry that **leads world standards**, and that Canadians feel part of and **trust**.





Our Mission

To be the leading source of **credible, fact-based** information to bring clarity to decision-making for **safe and sustainable** marine shipping in Canada.



Engage

Facilitate open and ongoing dialogue among:

- Coastal Communities
- Aboriginal Groups
- Government Agencies (Federal, Provincial, Municipal)
- Shipping Industry
- Academia

April 11-12 Workshop

Topic: Better Decision Making through Maritime Traffic Monitoring & Modelling

Purpose: Focus on prevention of marine disasters to set obtainable goals for cooperation among diverse stakeholders

Expected Outcomes: Identify best practices and approaches for acquiring, managing and analysing maritime traffic data; foster cooperation between diverse stakeholders; establish a Community of Practice for maritime data management

Research

- Work with leading organizations to commission relevant research about the risks and benefits of marine shipping
- Assess the impact of Canada's shipping industry on the environment, our economy and coastal communities
- Investigate and share best practices for risk prevention, preparedness and response, and liability and compensation

Advocate

- Identify and champion best practices in the industry
- Recommend improved policies for safe and sustainable marine shipping
- Achieve a best-in-class preparedness and response regime in Canada

Key Research Projects (2016)

Council of Canadian Academies

- Risks of Marine Shipping in Canadian Waters
- Social and Economic Value of Commercial Marine Shipping in Canada

Other Projects In Development

- Best Practices – Bunkering Spill Preparedness and Response
- Investigation of Loss-of-Control Events and Effective Response Regimes (“Drift-Study”)
- Best Practices – Oil Spill Response Comparative Review

Best Practices – Bunkering Spill Preparedness and Response

Research will:

- Confirm and quantify the risk of bunkering spills
- Review current practices in Canadian and international ports
- Derive best practices for mitigation of residual bunker spill risks
- Prepare comparative cost models for pre-booming and emergency booming
- Develop policy proposals for bunkering ports in Canada.

Investigation of Loss-of-Control Events and Effective Response Regimes (“Drift-Study”)

Research will:

- Establish salvage capability on Atlantic and Pacific coasts
- Explore benefits of additional risk mitigation measures
- Investigate alternative technologies
- Review communication protocols for loss-of-control scenarios
- Analyze economic feasibility of enhanced mitigation measures

Best Practices – Oil Spill Response Comparative Review

The comparative review will:

- Investigate oil spill preparedness and response regimes in international jurisdictions with a focus on various incident command models.
- Identify best practices for responding to accidental oil-in-water scenarios

Safe and Sustainable Marine Shipping: *What does it take?*

- **Listening** to concerns of communities and stakeholders
- **Facilitating** impartial, authoritative research
- **Sharing** our ideas, experiences and best practices
- **Engaging** in an open, informed and constructive dialogue
- **Speaking** as one voice to encourage change (policy, protocols ...)

Topics on the Radar

- Greater public awareness of marine shipping risks and accidents
- Ongoing economic development and changing environmental factors, including:
 - LNG industry and proposed pipeline projects in BC
 - Potential increase in tanker traffic on the East Coast
 - Increased spill concerns, traffic and environmental changes in Great Lakes and St. Lawrence Seaway
 - Increased access to Arctic Marine Transportation Corridors



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