# Building Partnerships for Sustainable Shipping

- Welcoming address: David Bolduc, Executive Director, Green Marine
- Robin Silvester, CEO, Vancouver Fraser Port Authority
- Kurt Beckett, Deputy CEO, Northwest Seaport Alliance
- Megan Leslie, CEO, World Wildlife Fund Canada

# Aquatic Invasive Species (Biofouling)

- Moderator: Carleen Lyden Walker, NAMEPA
  - Paul Holthus, World Ocean Council – GLOfouling project: addressing biofouling and AIS through industry collaboration
  - Jason Scherr, Prince Rupert Port Authority & Tom Therriault, Fisheries and Oceans Canada – A collaborative science-based approach to AIS monitoring on British Columbia’s North Coast
  - Simon Doran, HullWiper Limited – The hull cleaning evolution and battle against cross-pollination

# Improving Waterfront Coexistence

- Moderator: Gerry O’Keefe, Washington Public Ports Association
  - Kim Stegeman-Lowe, Squamish Terminals – Dock rebuilt after fire
  - Jon Sloan, Port of Seattle – Becoming carbon neutral: designing a kelp, eelgrass and shellfish carbon sequestration pilot project
  - Lisa Dooling, Neptune Bulk Terminals – Building and Measuring Community Trust for a Bulk Terminal

# Plenary Panel: Underwater Noise and Marine Mammals

- Moderator: Bruce Burrows, Chamber of Marine Commerce
  - Krista Trounce, Vancouver Fraser Port Authority – ECHO Program vessel slowdown trial: results and next steps
  - Kevin Bartoy, Washington State Ferries & Leslie James, British Columbia Ferry Services Inc. – British Columbia and Washington State Ferries mitigating impacts on marine mammals during terminal construction and ferry sailings
  - Lee Kindberg, Maersk Line – Sound, emissions and energy efficiency: Is there an optimal solution?
  - Michael Jasny, Natural Resources Defense Council – Achieving quiet-ship design in new-builds and retrofits
  - Michelle Sanders, Transport Canada – Understanding and managing underwater vessel noise: supporting recovery of the southern resident killer whale and other endangered whales

# Sustainable Development in Times of Traffic Growth

- Moderator: Kevin Obermeyer, Pacific Pilotage Authority
  - Brian Kirk and Scott J. Ferguson, Washington State Department of Ecology – Vessel traffic and risk analysis for Washington waters
  - Jennifer Sletten, ProtectedSeas – Marine-managed area mapping: Creating a comprehensive public resource to explore MMAs and their associated rules and regulations
  - Monica Hilborn, Environment and Climate Change Canada – Visualizing marine emissions in Canadian waters

# Integrating Sustainability Within Corporate Culture

- Moderator: Thomas Gregoire, Green Marine
  - Stephanie Bertels, The Embedding Project / Centre for Corporate Governance and Sustainability – Embedding sustainability into culture
  - Giles Pettifor, Port of Hueneme/Oxnard Harbor District – Port Hueneme: a case study of integrating sustainability into the operations of a working seaport

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**Download the presentations**
### FRIDAY, JUNE 1

#### PUBLIC ENGAGEMENT: TOOLS AND STRATEGIES FOR EFFECTIVE INFORMATION SHARING

- **Moderator:** Peter Ellis, Clear Seas Centre for Responsible Marine Shipping
- **8:30 am**
  - Hartleigh Caine, TOTE – Communicating change: TOTE’s conversion to LNG as a maritime fuel
  - Howard Page, North Gulfport Community Land Trust – Decisions affecting communities that live near ports
  - Ian Thomson, SCI-Shinglespit Consultants Inc. – Social licence: metrics for measuring social acceptability in the maritime industry

#### ADVANCED TECHNOLOGIES FOR LOW CARBON TRANSPORTATION – SHIP OWNERS

- **Moderator:** Kris Fumberger, RightShip
- **10:30 am**
  - Diego Jaramillo, Waterfront Shipping & Jason Chesko, Methanex Corporation – Methanol, an ultra-clean marine fuel solution
  - Daryl Lawes, Seaspan ULC & Harly Penner, Seaspan Ferries – Seaspan Ferries – LNG for marine transportation in BC – The whole emission profile
  - Dan Vyselaar, Atlantic Towing Limited – Using data analytics to reduce greenhouse gas emissions for offshore support vessels

#### ADVANCED TECHNOLOGIES FOR LOW CARBON TRANSPORTATION – PORTS & TERMINALS

- **Moderator:** Michael Moltzen, U.S. Environmental Protection Agency
- **10:30 am**
  - Kymm Girgulis, BC Hydro / Jason Scherr, PRPA / Dorota Kwasnik, VFPA – Innovative partnerships: development of the shore power rate in British Columbia
  - Benoit Lacroix, Effenco – Port terminal tractors equipped with Effenco’s Active Stop-StartTM electric hybrid technology: Rationales, technology description and case studies
  - Kit Chope, Virginia Port Authority – Integration of low/zero emission cargo handling equipment into marine terminal operations

#### SHIPPING OF TOMORROW, TODAY

- **Moderator:** Eleanor Kirtley, Green Marine
- **1:15 pm**
  - Arvid Dregdelid, Palantir AS – Increased vessel efficiency through standardization and automation of shipboard information and communications technology
  - Christine Rigby, Vancouver Fraser Port Authority – International collaboration on vessel emission reductions through vessel incentive programs and environmental infrastructure
  - William Friedman, Cleveland-Cuyahoga County Port Authority – The eco-friendly economy: green maritime, innovative logistics and economic prosperity

#### EXHIBITORS FLASH PRESENTATIONS

- Adaptive Surface Technologies
- JASCO Applied Sciences
- Sinto
- Cavotec Canada Inc.
- Energy Conservation group
- Certified Laboratories
- Marine Construction Technologies, PBC
- Envirochem
- Wartsila Canada

#### POSTER PRESENTATIONS

- Protecting Blue Whales and Blue Skies (NOAA)
- State of the Vancouver Waterfront (Georgia Strait Alliance)
- Underwater Noise from Vessel Traffic in the Western Arctic: Impacts on Marine Mammals and Management Solutions (Wildlife Conservation Society)
- See a Blow, Go Slow (Marine Education and Research Society)
- Environmental Effects of Marine Transportation: International Collaborative Solutions for a Global Problem (School for Resource and Environmental Studies, Dalhousie University)
- Ship Design with a Porpoise in Mind (HydroComp Inc.)
- Inside Passage Decarbonization Project (Capt. Peter Wilcox)
- Underwater Noise Mitigation and Management Plan (UNMMP) for the Protection of Marine Mammals (Vancouver Fraser Port Authority)
- Hybrid and Pure Electric Propulsion System for a Short-crossing Ferry (Dept. Mechanical Engineering, Insitute for Integrated Energy Systems, University of Victoria)
- Sustainable Retrofit Options for Canadian Shipping (Dalhousie University)
- Microplastic and Marine Debris Initiative (Ucluelet Aquarium)