GREENTECH 2013, PAVING THE WAY TOWARDS GLOBAL THINKING AND THE SHARING OF TANGIBLE ACTIONS

By Manon Lanthier

Once again this year, Green Marine participants and partners responded generously to the call for expertise and experience launched with the goal of drawing up the program for the sixth environmental conference on green technologies and innovation in marine transportation.

The GreenTech 2013 program is a carefully planned combination of diversity and equilibrium that will provide a global vision while focusing on several specific issues. “For example, during the opening session on ECA, one of our speakers will talk about the impact of new regulations concerning the marine industry in Canada and the United States, while another speaker will discuss a highly detailed study conducted on ECA ‘boundaries,” explains Green Marine’s coordinator and its program manager Françoise Quintus. “It is a well-balanced combination of concrete examples in managing day-to-day operations and the hindsight needed to provide a comprehensive assessment of a given issue.”

GreenTech’s goal since the very first conference organized in Montreal in 2008 has always been to provide a forum for encounters and discussions. The presence of several corporate participants in Green Marine’s environmental program, who will demonstrate the results of experimentation with new technologies and the implementation of good practices, bears witness once again to the conference’s relevance and the user-friendly quality of the Green Marine program.

“When all is said and done, what Fednav, Algoma, Desgagnés as well as the ports of Montreal, Prince Rupert, Vancouver and Seattle have come to do is offer examples of tangible actions that can be taken by other conference participants, a plan to follow with a taste of the hurdles to be overcome and the anticipated results,” Ms. Quintus adds.

The whole team at Green Marine is pleased to welcome you to Vancouver for its sixth environmental conference.

There is nothing random about Green Marine’s decision to hold its annual conference on the West Coast for the first time. The burgeoning environmental program is rapidly expanding along the shores of the Pacific Rim with newly registered participants both north and south of the border.

Several terminals (Ridley, Squamish, Fraser Surrey Docks and Maher Terminals Holding Corp.) in addition to two major ports have joined the ranks of Green Marine within the past few months. The Port of Seattle, the eighth largest container port in the United States, and Port Metro Vancouver, the biggest in Canada, have both taken a leadership role in environmental protection in large part due to initiatives such as the Northwest Ports Clean Air Strategy.

These new players have further increased a membership that is already firmly rooted in the region with the ports of Prince Rupert, Nanaimo and Greater Victoria, Seaspan ULC, Smit Marine, Island Tug & Barge and Neptune Terminals. Green Marine has also attracted several new partners and is particularly proud to include the Vancouver Aquarium amongst its supporters.

In response to this growing interest and with a desire to address local issues, Green Marine this week held the inaugural meeting of its newly established West Coast Advisory Committee, whose role is to contribute to the development and assessment of the environmental program’s performance indicators.

The committee has the same structure as Green Marine’s two initial committees for the St. Lawrence and the Great Lakes and brings together industry representatives, officials from government, associations and environmental groups as well as research and academic experts.

As such, the hosting of GreenTech 2013 in Vancouver functions as a milestone to mark the inroads Green Marine has made on the West Coast, inroads that bear witness to the marine industry’s firm resolve to go green. It also opens the door to the creation of a new platform for discussion that will help broaden the horizons of the environmental program, both locally and across North America.

Enjoy the conference!

David Bolduc
Green Marine Executive Director
Alas, the opportunity to chair the conference was not to be for Andreas Chrysostomou, who had accepted the position. He was replaced by Green Marine President John Raymond. “We are delighted that Mr. Chrysostomou has graciously accepted our invitation.”

Green Marine partners have also put their shoulder to the wheel this year. GreenTech will be a host to a record number of exhibitors. The technological session will serve to highlight the latest advancements in a variety of dynamic, dynamic and strategic areas, which will once again create an opportunity for dialogue.

**GreenTech: The North American ECA, early historic view**

**North American ECA - regulations vs. reality**

> Greg Wirtz, Cruise Lines International Association, North West and Canada

North American ECA - regulations vs. reality

10:30 am

Greg Wirtz will discuss the background of the ECA and the counter-productive nature of the 200 nm ECA limit, as it applies to short-sea shipping routes. Instead, the results of a recent research project will be presented, comparing the environmental impact of different alternative marine fuels with lower Sulphur content. This paper focuses on the impact of the new regulations, the challenges that ship operators are facing in order to be in compliance with the new regulations, and the tooling avaiable to allow for a more efficient and environmentally friendly change in fuel type.

**The North American ECA and Short-Sea Shipping: An analytical assessment**

> Carole Nuttall, Abagroup International

The North American ECA and Short-Sea Shipping: An analytical assessment

10:45 am

Carole Nuttall, Abagroup International, will discuss the results of a recent research project which will be presented, comparing the environmental impact of different alternative marine fuels with lower Sulphur content. This paper focuses on the impact of the new regulations, the challenges that ship operators are facing in order to be in compliance with the new regulations, and the tooling available to allow for a more efficient and environmentally friendly change in fuel type.

**Meeting environmental and social challenges**

Mapping soil quality and pollution reports

> Josie A. Levine

The challenge of applying an environmental policy goes beyond the Board of Directors, the Natural Resources Committee and the Scrutiny Committee. The challenge is to develop a program of action that will benefit the environment, the communities and the stakeholders. The challenge is to develop a program of action that will benefit the environment, the communities and the stakeholders. The challenge is to develop a program of action that will benefit the environment, the communities and the stakeholders.

**Marine dredging at Pacific Coast Terminal: planning sustainability**

> Andrew Froelich

Marine dredging at Pacific Coast Terminal: planning sustainability

10:00 am

Andrew Froelich will discuss the planning and sustainability challenges of Marine dredging at Pacific Coast Terminal. The presentation will examine the environmental, social and economic factors that must be considered in the planning and implementation of marine dredging projects. The presentation will discuss the role of marine dredging in maintaining navigable waterways and supporting the economic development of coastal communities. The presentation will also cover the importance of community engagement and stakeholder consultation in the planning and implementation of marine dredging projects.
May 30 (continued)

The shipping industry is a major player in the marine sector. The Canadian government has identified the maritime sector as a key component of the national economy, with significant potential for growth and development. The shipping industry plays a crucial role in the movement of goods, providing essential services to a wide range of industries.

A partnership-driven approach to sustainability strategy
GreenTech conference: "We look forward to welcoming GreenTech delegates to Canada's oldest incorporated city, home to one of Canada's most active marine transportation and port operations. Port Saint John is a facilitator of trade and a part of Canada's Atlantic Gateway, providing a gateway to the Americas. The port is Eastern Canada's largest port and has a diverse cargo base, handling over 31 million metric tonnes of cargo annually, including dry and liquid bulks, break bulk, containers, and cruise. Port Saint John is a facilitator of trade and a part of Canada's Atlantic Gateway, providing a gateway to the Americas. The port is Eastern Canada's largest port and has a diverse cargo base, handling over 31 million metric tonnes of cargo annually, including dry and liquid bulks, break bulk, containers, and cruise."

Port Metro Vancouver
Port Metro Vancouver (PMV) is a major gateway for trade between Canada and Asia, having handled over 9 million metric tonnes of cargo in 2013. PMV is a major port for containerized cargo, with over 60% of its traffic being containerized. In addition to containerized cargo, PMV handles a wide range of other cargoes, including dry bulk, liquid bulk, break bulk, and cruise. PMV is committed to sustainability and has implemented a number of initiatives to reduce its environmental footprint, including the implementation of up-to-date technology and equipment, improving operational efficiency, and reducing greenhouse gas emissions. PMV is also committed to working with stakeholders to develop and implement sustainable practices, including the implementation of environmental management systems and the development of best practices for environmental management.

GreenTech 2013 HEADS EAST!

The presentations

May 31

10:30 am Environmental performance
Port Metro Vancouver - Excellence Program
In response of the emissions industry’s environmental assessment, Port Metro Vancouver’s (PMV) Eco-certification is a document that sets the standard for the industry. PMV is committed to reducing its environmental footprint and has implemented a number of initiatives to achieve this goal, including the implementation of up-to-date technology and equipment, improving operational efficiency, and reducing greenhouse gas emissions. PMV is also committed to working with stakeholders to develop and implement sustainable practices, including the implementation of environmental management systems and the development of best practices for environmental management.

MVeP: Quantitative metrics for ton dominant emissions and efficient use
Dr. Jeffrey E. R. Ackerman
The Methane and Nitrous Oxides Program (MVeP) estimates the impact of a wide range of sectors on the environment, including the shipping industry. MVeP provides an assessment of the environmental impact of shipping on the marine environment, including the emission of gases such as carbon dioxide, methane, and nitrous oxide. The program also identifies areas where emission reductions can be achieved and provides recommendations for reducing emissions.

Finding a green ship in a blue ocean
Dr. Ben Lee
Every week, shipments of goods are transported across the globe by ships, providing a vital service to the global economy. As the world’s population continues to grow and demands for resources increase, the environmental impact of the shipping industry becomes increasingly important. The shipping industry has recognized the need to reduce its environmental footprint and has implemented a number of initiatives to achieve this goal, including the implementation of up-to-date technology and equipment, improving operational efficiency, and reducing greenhouse gas emissions. PMV is also committed to working with stakeholders to develop and implement sustainable practices, including the implementation of environmental management systems and the development of best practices for environmental management.
Chair of the Association of Canadian Port Authorities (ACPA), Mr. Silvester is a chartered engineer and a graduate of the University of British Columbia. He led the $500m acquisition of US facilities management and Property Services firm, as Chief Development Officer, joined United Group Limited, an ASX 100 listed Engineering and Construction company, in 2000. Mr. Silvester was the first ACPA President and CEO of Port Metro Vancouver. In 2004, he was named to the Order of Canada. He is a director and Chair of the board of the Global Lead Group (MLG). In 2010, he was named Port Executive of the Year by the American Association of Port Authorities.

Jonathan Whitworth
Chairman, Eriko Arai

Jonathan Whitworth joined Soapstone in 2009 as a Chief Executive Officer, bringing over 30 years of experience driving change, leading strategic planning, management and leadership experiences to the organization. After graduating from the State Maritime Academy, he served for many years at an oilfield drilling and chemical carrier in the maritime industry. He later held a variety of chief mate’s licenses and a fully-licensed captain’s license.

Dan Anderson
CEO, Port Metro Vancouver

Dan Anderson is President of Kordel Morgan Canada, a business leader of Kordel Ringer, the largest midstream and the third largest energy company (based on enterprise value) in North America. The Kordel Morgan family of companies includes Kordel Ringer, Inc., (NYSE: KMR) Kordel Morgan Energy, LP (NYSE: YAMVY), Kordel Morgan Logistics, Inc., and Kordel Morgan Energy Partners (NYSE: KMLP). Mr. Anderson’s responsibilities include providing executive leadership to Kordel Morgan’s growing, strategic and corporate responsibility on the Canada. Mr. Anderson was named President of Port Metro Vancouver in 2009, bringing to the CEO, Port Metro Vancouver extensive experience in the energy sector in Canada and the Americas. Prior to joining Port Metro Vancouver, he served as Managing Director and Alternate Permanent Representative of the Group of the International Maritime Organization. He was then named to the Board of Directors and Chair of the Department’s division responsible for the Organization’s regulatory and market policies.

Chairman of the Marine Environment Protection Committee (MEPC) in 2003, a position he held until recently. Chairman of the Marine Environment Protection Committee (MEPC) in 2003, a position he held until recently.

Ronan Chester
Manager, Strategic Environmental Initiatives, with Port Metropolitan Vancouver, responsible for leading the delivery of marine classification and consultancy services. A Canadian Coast Guard College marine engineering graduate, Mr. LaRoche has undertaken an MIT/Sloan executive education program and studied Maritime Law at Southampton University. He is a member of the Society of Naval Architects and Marine Engineers and is a member of the Society of Naval Architects and Marine Engineers.

Marcel LaRoche
Illustration Director, Lloyd’s Register Canada

Marcel LaRoche is employed with Lloyd’s Register Canada as the Marine Manager Western Canada. Stationed in LR’s Vancouver office, Marcel works to support Lloyd’s Registers’ commercial marine and Canadian Government clients in the delivery of marine classification and consultancy services. A Canadian Coast Guard College marine engineering graduate, Mr. LaRoche has undertaken an MIT/Sloan executive education program and studied Maritime Law at Southampton University. He is a member of the Society of Naval Architects and Marine Engineers.

Mark Arel
Chairman, Green Marine

Mark Arel, Chairman, Green Marine, is President of Green Marine, a not-for-profit Canadian Marine Industry initiative that is revolutionizing environmental standards and practices in the sector. Guided by two principles – to reduce the environmental footprint of the Canadian marine industry and to improve the sector’s corporate responsibility in Canada. His current role in the Marine Environment Protection Committee (MEPC) in 2003, a position he held until recently.

Daniel Côté
An Engineer, Chemist and MBA (Business Management) graduate (Université Laval), Daniel Côté has held various technical and management positions which have allowed him to get an overview of businesses’ operating realities. He has undertaken an MIT/Sloan executive education program and studied Maritime Law at Southampton University.

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Manager, Strategic Environmental Initiatives, with Port Metropolitan Vancouver, responsible for leading the delivery of marine classification and consultancy services. A Canadian Coast Guard College marine engineering graduate, Mr. LaRoche has undertaken an MIT/Sloan executive education program and studied Maritime Law at Southampton University. He is a member of the Society of Naval Architects and Marine Engineers.

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Stéphane Richard holds a bachelor’s degree in business administration from Université du Québec à Rimouski.

BC Ferry Services Inc.

Carole Nuttall, GIS expertise and environmental management, with a focus on marine and estuarine environments. A former Habitat Management Biologist with Fisheries

Hemmera University Of Pretoria, South Africa.

Bachelor’s degree in Political Science from SFU and completed graduate coursework in Environmental Studies at the University of Victoria.

Ellen W. Watson, Authority. He is an alumnus of the University of Victoria (Geography, History, English), and is presently the President of the Port of Victoria and Director of the Chamber of Commerce.

As Vice President - Lower Mainland Shipyards, Tony is responsible for Seaspan’s Lower Mainland shipyard operations spanning BC’s coastline involving matters ranging from operations environmental management and construction environmental management awards, achieve industry firsts and maintain community social license. His experience

Andrew MacKay is a certified Environmental Professional with over 20 years experience in heavy industry

Alexandra Woodsworth, BA. In Geography from the University of Victoria, followed by a M.S and Ph.D in Mechanical Engineering from the California Institute of Technology (Caltech) in Pasadena, Dr. Sahu has a B.Tech (Hons) in Mechanical Engineering from the Indian Institute of Technology (IIT), followed by an M.S and Ph.D in Mechanical Engineering from the California Institute of Technology (Caltech) in Pasadena.

Hilary worked on the Federal Inquiry into the Northwest Territories’ Northern Gateway Project, and co-authored a paper on marine issues and coastal development.

As a Chief Engineer and then in maintenance and engineering management roles. He is currently Director, Engineering

Tony purchased the Pride of Kent in a project between BP and his then employer, P&O Ferries. Joining Krystallon in May 2005 he was responsible for developing and implementing the design and construction of the new burner for the Pride of Kent, a development that was successfully rolled out to other Krystallon ships.

Greg Wirtz was appointed as President of the North West & Canada Cruise Association in April 2011. An industry

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10:30 am THE NORTH AMERICAN ECA: EASY LESSONS LEARNT (Meet)

- North American ECA: regional success, reality
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    - Canada: very good, no issues
  - North American ECA: ECA success, expression of confidence

- Capping the efficiency: some insights
  - Ender Gunay, Shell Marine

- Ship Classification and enforcement of emission regulations
  - Mike Champlin, Vessel Explorer

- A partnership approach to sustainability strategy
  - Kanita King, Prudhoe Bay Operations

1:30 pm LUNCH [English Bay (34th floor)]

2:30 pm MEETING ENVIRONMENTAL AND SOCIAL CHALLENGES (Meet)

- Meeting the expectations and challenges of financiers
  - Pamela Whitehead, Finance Council

- Maximizing benefits from ECA
  - Anne McElroy, FMC

- Skid Eddie: environmental, efficiency and productivity improvements
  - Skid Eddie

- Ending the discussions with a partnership approach to sustainability strategy
  - Kanita King, Prudhoe Bay Operations

FRIDAY, MAY 31 2013

9:30 am PERSPECTIVES ON SUSTAINABILITY IN THE MARITIME INDUSTRY (Meet)

- Four pillars: industry, supply chain, government, academia and civil society
  - For all stakeholders:
    - Industry: take care of the supply chain, and the supply chain will take care of you

- Different perspectives on sustainability in the maritime industry: from paper to practice
  - Melanie Bouyer, Sustainable Shipping

- Certifying the ship: a new level of transparency
  - Paul Mitchell, Det Norske Veritas

- Understanding and mitigating impacts on coastal environments
  - Simon Mathiesen, Capesize Sud

10:30 am GREEN MARINE IN PRACTICE: NEW ENHOWERERS INITIATIVES (Meet)

- Green Marine: taking the industry to the next level
  - Green Marine

- Applying for Green Marine, benefits and pitfalls
  - Sisters of the Ganges

- Funding a green ship - new realities
  - Rumms

11:30 am UNDERSTANDING AND MITIGATING IMPACTS ON COASTAL ENVIRONMENTS (Meet)

- Understanding and mitigating impacts on coastal environments
  - Simon Mathiesen, Capesize Sud

- Impacts of shipping on coastal environments
  - Stéphane Richard, MIR

- End of day: lunch

2:30 pm LIGHT IN THE MARITIME INDUSTRY: FROM PROJECT TO REALITY (Meet)

- UKL development on the West Coast
  - Greg Pyman, UKL

- Potential environmental impacts of UKL in emergency situations
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- UKL and the UK Nuclear Fleet
  - John Mullin, UKL

- UKL: an alternative fuel for British Columbia's coastal ferry services
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3:00 pm CLOSING REMARKS (Meet)

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