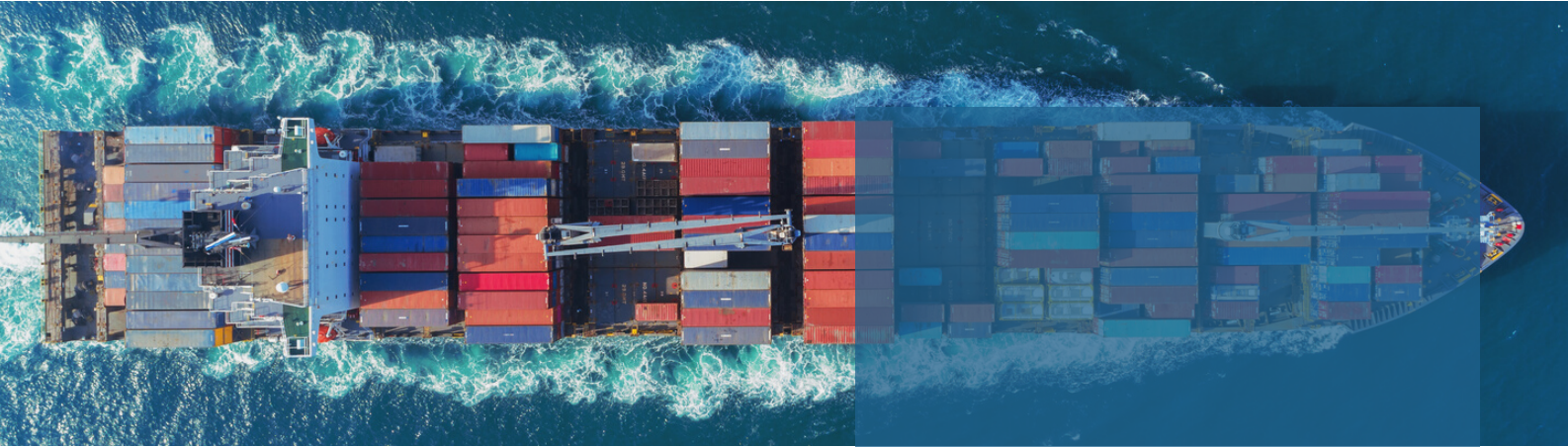


THE LOOKOUT

Your quarterly VMCC update



Founder's Message

Hello Colleagues and Industry Friends,

I am thankful to all our members and community who joined us on May 5th to celebrate and commence our second year of operations with enthusiasm! This celebration has certainly set the tone for a successful second quarter.

As part of Operation Flagship, the Blue BC Challenge closed on June 3rd with 19 applications received from across North America. Successful applicants will be meeting with the Blue BC Adopters in the second week of July, and VMCC will continue to support with pilot and demonstration project deployment through the fall.

This last quarter also saw several large announcements related to Green Shipping Corridors. The Port of Seattle is teaming up with Port of Vancouver and Port of Juno, Alaska, to support cruise operations in the formation of a corridor along the West Coast. Lloyds Register has announced the "Silk Alliance" to develop an intra-Asia fleet fuel transition strategy for container trade. Both announcements present unique opportunities for VMCC members to engage with the partnerships to share learnings and de-risk. If you are interested in connecting, please reach out!

Lastly, VMCC has onboarded two interns for the summer, who are supporting special projects and assisting with research.

I look forward to our ongoing growth and seeing what the fall will bring!

Elisabeth Charmley
VMCC, Executive Director

OVERVIEW:

- Founder's Message
- International Day for Women in Maritime
- Women in Maritime Feature: Amy Chan
- A20 Advanced Bio-Fouling
- Robert Allan Ltd.
- Lloyds Register Silk Alliance
- VMCC Turns One

Save the Date:

- Have a great summer!

INTERNATIONAL DAY FOR WOMEN IN MARITIME

May 18, 2022 marks the second year for celebrating women in Maritime. This important day was adopted by the IMO in 2021 to not only celebrate women in industry, but to promote the recruitment, retention and sustained employment of women in the maritime sector.

Women currently account for roughly 20% of the maritime

workforce in the IMO Member States and 2% of the workforce at sea.

Gender equality promotes social and economic benefits for societies who practice and value equality for women and girls. Women account for roughly half the world's population, and therefore- half of its potential.

Supporting women as their equals in their many social roles, unlocks and

multiplies cognitive diversity, which enables solutions and practices that are more inclusive and representative.

For more on how to support women in the maritime industry, reach out to VMCC via our email, info@vmccclimate.ca



“

Women don't need accolades, they need allies, and VMCC fully supports taking the steps to challenge and change institutionalized practices to ensure the success of women in our industry.

Elisabeth Charmley,
Executive Director, VMCC

”



FEATURE ON AMY CHAN

In celebrating women in Maritime, we are thrilled to highlight Amy Chan. Amy currently works as a Commercial Coordinator at Seaspan Ship Management Ltd.

During her time at VMCC in 2021, Amy was integral in her support with administration, logistics, and communications. Previously, she interned in Asia Maritime Pacific's commercial department and worked in marine insurance and risk management at Tai Chong Cheang Steamship Co. (H.K.) Limited. Amy has a bachelor's and master's degree

in International Shipping and Transport Logistics and is an educated member at the Institute of Chartered Shipbrokers (ICS).

An avid enthusiast for the maritime industry with a focus on marine hull and machinery insurance, Amy is also an Associate Member of the UK Association of Average Adjusters. Amy highlights the wonderful role that women play in the industry, and we continue to be impressed by her involvement, support, and devotion.

A2O ADVANCED MATERIALS INC.

Damon Gilmour, PhD in Chemistry
Co-Founder

A2O Advanced Materials Inc. (A2O) is a materials innovation company that has created a novel approach to preventing biofouling on boat hulls. This unique coating system dramatically improves vessel efficiency without the worry of coating loss to the marine environment. Developed using a breakthrough adhesion technology, A2O has created a robust, bilayer hull coating system that can prevent fouling while reducing vessel drag. Using a top-layer film of PTFE, drag reduction of the coating can exceed that of hulls bearing paints due to enhanced hydrophobicity. This technology is enabled by their novel intermediate adhesive coating layer that unites underwater adhesion with self-healing properties. By combining

the advantages of drag reduction and non-toxicity, this product offers a compelling opportunity for vessel operators to transition to a more sustainable hull coating practice.

ALTERNATIVE ENERGY BOATS

Erik Johnson, P. Eng.
Project Manager

Workboat power sources are evolving on a global scale. Diesel is being replaced, much like sails on ships gave way to steam and coal. The first LNG tugboat launched in late 2013, and since then, a total of 18 LNG tugs began operating, with 19 more on order. Roughly one third of all LNG workboats came from the productive minds at Robert Allan Ltd. In 2020, the first battery-powered tug entered operation. There are now 12 battery electric workboats in construction globally or in design at Robert Allan Ltd. Just as “range

anxiety” affects electric car buyers, ship owners look to other energy storage options for maximizing the work tugs do. Green methanol is quickly replacing diesel and LNG as a preferred alternative fuel due to its global availability, simplicity of handling, and relatively high energy density. Two different methanol-powered tug designs are being developed by Robert Allan Ltd. and are anticipated to enter service by 2025. Being an engineer working on the newest low- and zero-emission vessels nowadays is exciting.



LLOYD'S REGISTER SILK ALLIANCE

Ginger Garte
Environmental & Sustainability Director, Americas



Lloyd's Register Maritime Decarbonization Hub is working with 11 leading cross-supply chain stakeholders to develop a fleet fuel transition strategy that can enable the establishment of a highly scalable Green Corridor Cluster. The Silk Alliance, initiated by the Lloyd's Register Maritime Decarbonization Hub, brings together a variety of organizations -- including shipowners, bunker logistical suppliers, engine manufactures, ship managers, and financial institutions, whose

cooperation will progress the decarbonization of the maritime sector. These participants will work together to create a demand signal for other stakeholders to support the Green Corridor Cluster. The Silk Alliance members will draw from their individual areas of expertise to develop a fleet-specific fuel transition strategy for container ships operating primarily in Asia. As a result, this will strengthen leadership and foster collaboration in the industry to meet its COP26 commitments and demonstrate tangible actions that can lower the investment risk that is currently preventing the wider uptake of sustainable carbon-neutral fuels. In order to support the industry's long-term objective to decarbonize international shipping by 2050, the cross-supply chain partnership aims to produce learnings to enable safe, commercially successful, and sustainable marine transport.

Celebrate

On May 5, 2022, we came together as a community to celebrate our cumulative successes as an industry coalition. At the beautiful Loft at Earl's Yaletown in Vancouver, British Columbia we shared libations, made connections, caught up with old friends and toasted our first year (in person!).



Over the past 12 months, we welcomed over 56 members, launched Operation Flagship, the Green Shipping Strategy, held the 2nd Annual Fall Forum and the 1st Annual Ship Owners Summit, established 5 Industry Working groups and onboarded 12 Joint Industry Projects, with 3 pilot projects deployed.



We were fortunate to hear celebratory toasts from our Sponsors, Bonnie Gee- Manning, Chamber of Shipping, Christine VanDerwill, Radicle Climate Smart, Dorota Kwasnik, Vancouver Fraser Port Authority and Alex Greig, AES Engineering. We were also joined by Minister for Jobs Economic Recovery and Innovation, Minister Ravi Kahlon, who congratulated VMCC on a victorious first year.

THANK YOU TO OUR SPONSORS

