



Vancouver Maritime
Centre for Climate



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GREENSHIP 2023



Conference Program



8:00 AM–6:00 PM

NOV 2, 2023



JW Marriott Parq Hotel
Vancouver, BC

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GREENSHIP
2023

KNOW BEFORE YOU GO



Thursday

November 2nd, 2023



Registration 7 AM

Presentations: 8:00 AM–6:00 PM



Kitsilano Ballroom

JW Marriott Parq Vancouver

39 Smithe St, Vancouver, BC V6B 0R3

Presentations will be in the Kitsilano Ballroom on the Conference Level (4th floor) of the breathtaking JW Marriott Parq Vancouver. Most direct route off of Smithe St is through the Douglas entrance and elevators.

The conference level is clearly marked with signage:

- CL for the Douglas elevator
- CF for the JW elevator

Parking:

Pay Stations are located on each level by the elevator lobbies. All stations accept the following payments: Visa, MasterCard, American Express, Interac Direct Debit, Apple Pay and Google Pay

- Self Park Rate: \$25.00 – \$35.00
- Valet Daily Rate: \$55

Public Transit:

- Bus Station: Pacific Central Station
- Expo Line: Stadium–Chinatown Station – 0.3 miles NE from Parq Vancouver
- Canada Line: Yaletown Roundhouse Skytrain Station – 0.3 miles SW from Parq Vancouver



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GREENSHIP 2023



November 2nd 2023

8 AM – 6 PM



Registration 7 AM

AGENDA

7:00 AM–8:00 AM	REGISTRATION & BREAKFAST
8:00 AM–8:10 AM	WELCOME & INTRODUCTION
8:10 AM–8:50 AM	MARKET UPDATE Global Trends, Policy & Regulation
8:50 AM–10:10 AM	INDUSTRY WORKSHOP Climate and Air Quality Planning
10:10 AM–10:30 AM	COFFEE BREAK
10:30 AM–11:00 AM	KEYNOTE SPEAKER Casestudy: Seaspan ESG Program
11:00 AM–12:00 PM	INDUSTRY TALKS Technology & Innovation
12:00 PM–1:00 PM	LUNCH BREAK
1:00 PM–2:00 PM	INDUSTRY TALKS Application of Alternative Fuels
2:00 PM–2:30 PM	KEYNOTE INTERVIEW B.C. Low Carbon Fuel Standard
2:30 PM–2:50 PM	COFFEE BREAK
2:50 PM–3:40 PM	INDUSTRY TALKS Decarbonizing the Maritime Workforce
3:40 PM–4:10 PM	KEYNOTE SPEAKER Casestudy: Seaspan ESG Program
4:10 PM–6:00 PM	NETWORKING RECEPTION





GREENSHIP 2023

SESSION DESCRIPTIONS

Welcome

8:00 AM–8:10 AM | Welcome & Introduction

Let's get started! Join us for opening and welcome comments from VMCC's Executive Director, Elisabeth Charmley, including a brief overview of VMCC's programs and member benefits, designed to help you achieve your decarbonization goals.

Market Update - Global Trends, Policy & Regulation

8:10 AM–8:50 AM | Kitsilano Ballroom

Moderator: Emilie de Rosenroll, COAST

Speakers: Sheldon Fernandes, Brightspot Climate, Neil Fraser, Det Norsk Veritas (DNV)

Session Description: During the first session, speakers will take a deeper look at how the global energy transition has progressed on an international and national scale over the past twelve months, highlighting changes and major trends that impact our industry directly and indirectly, while discussing consequential trickle-down effects.

Industry Workshop: Climate and Air Quality Planning

8:50 AM–10:10 AM | Kitsilano Ballroom

Moderator: Juvarya Veltkamp, C40

Speakers: Christine Rigby, Vancouver Fraser Port Authority, M.K. Anand, Global Container Terminals (GCT), Jason Scherr, Prince Rupert Port Authority

Session Description: Phasing out emissions that contribute to climate change and air quality is a key component of becoming a sustainable port, something that is only possible by working with and learning from the broader port community. In this session, Vancouver Fraser Port Authority, Global Container Terminals and Prince Rupert Port Authority will discuss climate and air quality action planning along Canada's west coast and will work with conference participants to brainstorm challenges and opportunities.



GREENSHIP 2023

Keynote Speaker - Casestudy: Seaspan ESG Program

11:00 AM–12:00 PM | Kitsilano Ballroom

Moderator: Eleanor Kurtley, Green Marine

Speakers: Juliana Cury, Seaspan Ship Management

Session Description: In this session you will hear directly from leading independent owner, operator and manager of containerships, Seaspan Ship Management, who, for over 10+ years has developed a progressive Environmental, Social and Governance (ESG Program). Their modern vessels with best-in-class operations and innovative ship design, is achieved through this program and drives their decarbonization strategy, health, safety, and business ethics.

Industry Talks: Technology & Innovation

11:00 AM–12:00 PM | Kitsilano Ballroom

Moderator: Arvind Ramakrishnan, Deloitte

Speakers: Erik Johnston, Robert Allan Ltd., Anthony Gray, Seaspan ULC, Wayne Chiu, Hempel Marine Coatings

Session Description: Application and implementation of technologies that reduce and eliminate emissions play a key role in helping us get to zero. Speakers in these sessions will engage in active knowledge sharing on specific case studies related to implementation alternative fuels, innovative design and technologies, to help attendees gain an understanding of what zero emissions ship design and technology deployment looks like in real life for the maritime sector.

Industry Talks: Application of Alternative Fuels

1:00 PM–2:00 PM | Kitsilano Ballroom

Moderator: Jorge Lobo, FortisBC

Speakers: Paul Blomerus, Clear Seas, Patrick Kirchen, University of British Columbia, Frank Hartevelde, Wartsila

Session Description: The only way to achieve zero emissions is through the use of emissions-free fuels, and as a “poly-fuel” future begins to take shape around us, common patterns and practices are beginning to emerge. Speakers in this session will share key learnings and best practices to help accelerate cross-sectoral understanding and uptake of future fuels.



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Keynote Interview: B.C. Low Carbon Fuel Standard

2:00 PM–2:30 PM | Kitsilano Ballroom

Moderator: Bryan Bugey, Invest Vancouver

Speakers: Jennifer Kroll, Ministry of Energy, Mines and Low Carbon Innovation

Session Description: Learn more about policies that support the widespread adoption of low-carbon fuels in the marine sector. B.C. Low Carbon Fuel Standard (LCFS) is designed to reduce reliance on fossil fuels and incentivize the growth of low carbon fuels. In this session, you can explore opportunities to support your research, infrastructure development, technical assistance, and other measures to encourage the uptake of innovative technologies in the low carbon marine fuel supply chain.

Industry Talks: Decarbonizing the Maritime Workforce

2:30 PM–2:50 PM | Kitsilano Ballroom

Moderator: Janelle Caballero, Canada's Ocean Supercluster

Speakers: Brook Walker, Saam Towage, Dhaval Shah, British Columbia Institute of Technology

Session Description: The implementation of green technologies on board maritime vessels is underway, and upskilling of the existing workforce is key to creating a decarbonized future. In this session you will hear how both the academic and operational components of the maritime industry are shifting to ensure the roll out of green technologies on site are preparing an effective and highly-skilled maritime workforce.

Keynote Speaker: Sustainable Finance

3:40 PM–4:10 PM | Kitsilano Ballroom

Moderator: Christine Vanderwill, BMO Radicle

Speakers: John Uhren, Bank of Montreal (BMO)

Session Description: The world is increasingly focused on energy transition. But in order to unlock the estimated USD 5 trillion needed to align with a 1.5 degree pathway while maintaining a just transition, we need financing and investment vehicles that advance innovation and encourage broad-scale implementation, while de-risking the fuels and technology needed to get to net zero. In this session speakers will discuss sustainable finance products such as green bonds and loans, sustainability-linked instruments, renewable energy equity financing, carbon credits, and more.



GREENSHIP 2023

SPEAKER BIOS

Welcome & Introduction



Elisabeth Charmley

Executive Director & Co-Founder

Vancouver Maritime Centre for Climate

Elisabeth Co-founded VMCC, a not-for-profit organization in 2020. She is a maritime decarbonization expert with 20 years experience working in deep-sea maritime shipping and transport industry.

Market Update - Global Trends, Policy & Regulation



Sheldon Fernandes

Director of Strategy & Innovation

Brightspot Climate

Sheldon Fernandes has over 10 years of experience working across Canada to develop and implement innovative solutions to the world's most pressing energy, climate, and sustainability issues. He has particular expertise in helping clients navigate through the increasingly complex web of climate and energy policy and programming in Western Canada. Sheldon's specialized proficiency is developing technical understanding via greenhouse gas (GHG) accounting and on-site groundwork.



Neil Fraser

Business Development, Key Account Manager

Det Norsk Veritas (DNV)

Neil is a Chartered Mechanical Engineer with over 25 years of experience in the maritime industry. From an Engineering Apprentice, through his university education, Neil's extensive career has led him to assume Senior Management positions within DNV, including several Technical Management, Project Management, and Managerial roles, with particular focus on Integrity Management, Ship Classification, Technical Verification, Marine Warranty, and Advisory solutions.



Industry Workshop: Climate and Air Quality Planning



Moderator

Juvarya Veltkamp

Senior Advisor, Green Ports Forum

C40

Juvarya is Senior Advisor for the Green Ports Forum, where she convenes a network of the world's leading port cities and their ports working to cut emissions in half before 2030. Prior to this, from 2010 to 2020, Juvarya helped to write and implement the City of Vancouver's ambitious Greenest City Action Plan and green economy strategy, which stimulated innovation, attracted investment, and transformed Vancouver's economy to double the number of good, green jobs in the city while reducing carbon emissions.



Christine Rigby

Manager, Climate Action and Air Quality

Vancouver Fraser Port Authority

Christine Rigby has worked in the air quality and climate change field for 23 years, nearly 19 of which have been spent leading air programs for the VFPA in Vancouver, Canada. At the port authority, Christine's focus is on local, regional and international collaboration, and the development and implementation of emission reduction policies and initiatives that emphasize flexible, results-based approaches. Prior, Christine spent four years with the British Columbia Ministry of Environment working on air quality related issues.



M.K. Anand

Energy and Sustainability Manager

Global Container Terminals

M.K is currently the Energy and Sustainability Manager for Global Container Terminals leading their decarbonization and climate action efforts. He has over 15 years of engineering experience in sustainable infrastructure having worked in decarbonization and energy planning for First Nation Communities and landmark projects such as the Kitimat Aluminum smelter, Watts Bar nuclear power plant and the Hanford Waste Nuclear Waste Treatment Plant in the US.



Jason Scherr

Manager, Environmental Sustainability

Port of Prince Rupert

Jason works at the Prince Rupert Port Authority, where he supports initiatives and programs that recognize shipping lines exceeding environmental performance. He has led the development of the port's environmental sustainability plan and carbon strategy. He has recently completed a climate change risk assessment for the port as well as the expansion and commissioning of shore power at Fairview Terminal. Jason is a member of VMCC's steering committee and Green Marine's West Coast Advisory Committee.



**GREENSHIP
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Keynote Speaker - Casestudy: Seaspan ESG Program



Moderator

Eleanor Kurtley

Senior Program Manager

Green Marine

Dr. Eleanor Kurtley is the Senior Program Manager for Green Marine, North America's leading environmental certification for the maritime industry. She joined the program and opened their West Coast office in 2014. Before that, Eleanor worked as an ocean engineer for six years at Glosten. She was a Project Manager and Principal Investigator for vessel traffic and risk assessment studies. Eleanor serves on the Washington State Board of Pilotage Commissioners and on the Board of Washington Maritime Blue.



Juliana Cury

ESG Program Coordinator

Seaspan Corporation

Juliana is an Energy Engineer with post-graduation and specialization in Energy Management and Renewable Energies. She joined Seaspan over two years ago, implementing the Environmental, Social, and Governance (ESG) strategy, ensuring compliance with the regulation and reporting standards and framework ecosystems. Juliana worked in the Brazilian government sector on energy regulation, compliance, and power generation inspection, giving her a unique perspective on the industry.

Keynote Interview: B.C. Low Carbon Fuel Standard



Interviewer

Bryan Buggey

Executive Vice President

Invest Vancouver

Bryan is a senior executive with more than three decades of experience as a business leader in entrepreneurship, sustainability, innovation, and economic development. Since 2006, Bryan has been interested and passionate about the economic opportunities afforded by the necessary transition to a low-carbon economy and has led teams in charge of projects and programs aimed at supporting those goals including the circular economy, decarbonization, innovation, investment, and equity & diversity.



Jennifer Kroll

Ministry of Energy, Mines and Low Carbon Innovation

Executive Director

Jennifer Kroll is an experienced leader and business strategist with over 22 years of proven success in the public and private sectors. As the Executive Director of the Low Carbon Fuels Branch at the Ministry of Energy, Mines and Low Carbon Innovation, Jennifer leads the development and implementation of British Columbia's low carbon fuel policies, the single largest contributor to meeting CleanBC targets. Formerly, Jennifer was the Director of the Innovative Clean Energy Fund.



Industry Talks - Technology & Innovation



Moderator

Arvind Ramakrishnan

Director, Sustainability & Climate Change

Deloitte

Arvind is a Director at Deloitte in our Climate & Sustainability practice and leads the Hydrogen pillar under the energy transition practice for Deloitte Canada. Arvind is currently involved in leading many engagements focussed on helping clients understand and prioritize technologies and fuels adoption for mobility, ports, airports and marine applications including green shipping corridor initiatives. Prior to Deloitte, Arvind has spent over 15 years of experience with an energy utility company FortisBC.



Erik Johnston

Project Director, Mechanical Engineer

Robert Allan Ltd.

Erik joined Robert Allan Ltd. in 2004 after graduating from the University of British Columbia. Erik holds a B.A.Sc. in Mechanical Engineering, with Thermofluids Option, and is a registered Professional Engineer in BC. Erik leads Robert Allan Ltd.'s activities relating to the design of all sizes of workboats for the offshore wind industry. Over the last 15 years Erik's primary responsibility has been the design and engineering of vessels' propulsion, machinery, and ships systems.



Anthony Gray

Interim Chief Engineer, Multi Purpose Vessels

Seaspan ULC

Anthony Gray serves as the Interim Chief Engineer, Multi Purpose Vessels at Seaspan, a role he stepped into in 2023. With 25 years of experience in ship design and construction, his expertise is both deep and wide-ranging. Anthony is a Chartered Engineer with the Royal Institution of Naval Architects (RINA) and a Professional Engineer in British Columbia.



Wayne Chiu

Key Account Manager, Marine

Hempel Marine Coatings

With 24 years of professional experience in the protective coating field, I have had the privilege of working in both Asia and North America marine segment. My journey has been marked by a deep passion for maritime expertise and a commitment to excellence. Throughout my career, I have not only accumulated extensive experience but have also become SSPC protective coating specialist and AMPP senior coating inspector, further enhance my ability to contribute effectively in the marine industry.



Industry Talks - Application of Alternative Fuels



Moderator

Jorge Lobo

Senior Manager, LCT & LNG Operations

FortisBC

Jorge has been with FortisBC for more than 12 years in areas such as energy efficiency and Renewable Natural Gas project management. For seven years, Jorge led the development of innovative LNG delivery systems for industrial customers including mining, power generation and marine, from initial concept, design and implementation to operation and maintenance. He leads the teams in charge of LNG Asset Operation and Maintenance, LNG Logistics and Safety, Education and Compliance within the LCT group.



Paul Blomerus

Executive Director

Clear Seas

Paul leads the team at Clear Seas as they work to create a sustainable marine shipping sector that is safe, vibrant, and inclusive. Before joining the organization in 2020, he worked in a variety of industry roles including engineering, supply chain, research and business development positions for Westport Innovations and Rolls-Royce Aerospace. He holds a PhD in engineering science from the University of Oxford.



Patrick Kirchen

Associate Professor

University of British Columbia

Dr. Patrick Kirchen is an Associate Professor in Mechanical Engineering at UBC, where he leads the Thermochemical Energy Conversion Lab. His lab has developed a unique optical engine facility for detailed characterization of alternative fuels and their combustion processes. They have developed instrumentation and methodologies for evaluation of in-use engine performance and emissions in industrial systems. He is co-leading the UBC Urban Freight Emissions Program to characterize air quality and GHG emissions.



Frank Harteveld

Key Account Manager, Marine

Wartsila

With more than 30 years business leading and sales experience in the shipbuilding and oil & gas industry. About 15 years ago, in the very early phase of introducing LNG as a marine fuel, Frank Harteveld started his explorations on greenifying the shipping sector. A strong awareness of the need for creating “cleaner horizons” contributing to a more sustainable society, made Frank to strongly advocate the further introduction of renewable fuels for shipping – all to be based on realistic, but ambitious pathways.



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Industry Talks - Decarbonizing the Maritime Workforce



Moderator

Janelle Caballero

Director of Strategy & Innovation

Canada's Ocean Supercluster

Janelle is an accomplished educator, coach, and DEI advocate with a wealth of experience in workforce development across multiple industries, including university career advising, careers in the construction industry, and talent development in the blue economy. As an ICF PCC coach, PROSCI change management consultant, Certified Scrum Master (CSM), and Project Management Professional (PMP), she brings a unique blend of skills to her work. Holding a PGCE and an M. Ed degree, Janelle is recognized as a leading voice in blue economy workplace development, spanning from youth to adult career placement.



Brook Walker

Director of Operations

Saam Towage

Brook Walker is a local marine executive with a deep interest in the human condition. Brook has performed a variety of roles across his 20 years in the marine industry, including Deckhand, Mate, and Master, on coastal and international vessels. Brook has supported Operations Planning, Marine Personnel, Logistics, Safety & Environment (SHEQ), Vessel Operations, and Labour Relations. Brook holds a Diploma in Nautical Science from BCIT, a Master 500 GT N/C, and Chief Officer Certificate of Competency from Transport Canada, a Bachelor of Maritime Studies from Memorial University of Newfoundland.



Dhaval Shah

Associate Dean, Marine Campus

BCIT

Dhaval is a Master Mariner with a Master of Business Administration (MBA) degree, Corporate Finance Institute (CFI) certification, ISO internal and external auditor certification, and Lean Six Sigma Black Belt certification. His extensive knowledge of the marine industry, coupled with his professional connections both locally and internationally, positions him well to provide invaluable leadership to the BCIT Marine Campus. Prior to his appointment, Dhaval worked in the local marine industry with Canship Uglund, Suncor and Seaspan.



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Keynote Speaker - Casestudy: Sustainable Finance



Moderator

Christine Vanderwill

Partnerships Manager

BMO Radicle

Christine Vanderwill is an experienced sustainability professional working at the intersection of climate policy, technology, business, and electrification. She has extensive knowledge of greenhouse gas (GHG) management data and trends across industrial sectors; GHG accounting fundamentals/World Resources Institute GHG Protocol, clean fuel standards, carbon credit generation, climate-disclosure, and ESG. Christine is passionate about active transportation, fleet and equipment electrification.



John Uhren

Managing Director, Sustainable Finance

Bank of Montreal

John Uhren is Managing Director, Sustainable Finance, at BMO Capital Markets. He leads product development and strategic initiatives across the enterprise, including raising capital and providing sustainable finance opportunities to clients. John is also a member of the Bank's Energy Transition Group. Prior to joining the Sustainable Finance team, John was Senior Counsel and Director in Capital Markets Legal at BMO. John was also co-head of BMO's Pro Bono Committee and founded Feet Forward Organization in 2013.

LEARN MORE ABOUT VMCC

If you are interested in learning more about the VMCC and joining our coalition, head to our website, www.vmccclimate.ca

Contact:

The Vancouver Maritime Centre for Climate

info@vmccclimate.ca

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