

SUSTAINABLE OCEAN SUMMIT

*“Ocean Sustainable Development -
Connecting Asia and the World”*

Hong Kong / 14 - 16 November 2018



The International Ocean Business Forum To Advance Responsible Use Of The Seas



AGAWA PARTNERS

*Our name, **AGAWA**, originates from the Ojibwe word meaning **sheltered place**.*

*Notre nom, **AGAWA**, provient du mot Ojibwé signifiant **lieu abrité**.*

We are an investment management company focused on providing solutions for institutional and other sophisticated investors.

At **AGAWA**, our partners have a long history as practitioners of pension fund investing, including over 50 years of cumulative experience working as fiduciaries and principal investors for pensions, as well as over 100 years of cumulative experience in banking, finance, and public and private market investing.

FUND MANAGEMENT. We believe that the best way to deliver more consistent long-term absolute returns is through better portfolio construction and the application of business cycle insights. This is the idea underlying our first investment fund, **AGAWA Fund I LP**.

PRIVATE ASSETS. Our private investment strategy, which we will be launching in the near future, is centered on sustainable investing in agri-food and the oceans.

Nous sommes une société de gestion des investissements concentrée à livrer des solutions aux investisseurs institutionnels et autres investisseurs raffinés.

Chez **AGAWA**, nos associés possèdent une longue histoire à titre d'investisseurs-praticiens pour le compte des régimes de retraite, y compris au-delà de 50 ans d'expérience cumulative travaillant comme investisseurs principaux et fiduciaires de placement de retraite et encore beaucoup plus de 100 ans d'expérience cumulative dans les domaines bancaires, de finances, et d'investissements dans les marchés publics et privés.

GESTION DE FONDS. Nous croyons que la meilleure façon de réaliser des résultats absolus à long terme plus cohérents est par l'entremise de portefeuilles de placements mieux construites et la mise en jeu de nos aperçus du cycle économique. Il s'agit là de l'idée constituant la pierre angulaire de notre premier fonds d'investissements, **AGAWA Fund I LP**.

GESTION D'ACTIFS PRIVÉS. Notre stratégie d'investissements privés, que nous lancerons prochainement, est centrée sur les investissements durables dans le secteur agri-alimentaire et les océans.



Sustainable Ocean Summit 2018: 14 – 16 November, Hong Kong



Welcome to the Sustainable Ocean Summit 2018 – the sixth international, cross-sectoral ocean industry conference on “Corporate Ocean Responsibility”.

With the generous support of SOS 2018 sponsors and the assistance of many media partners and endorsing organizations, the SOS brings together senior representatives from a diverse range of ocean industries around the theme of “Ocean Sustainable Development – Connecting Asia and the World”.

The SOS 2018 theme recognizes:

- The major role that Asia plays in the global economy through trade and maritime transport
- The size and growth of the economies and populations of Asian countries
- The national, regional and international importance of key ocean industries in Asia, e.g. shipping, shipbuilding, fisheries, aquaculture etc.
- The global interconnectedness of the ocean, the ocean economy and the ocean business community
- The need to address ocean sustainable development and the U.N. Sustainable Development Goals (SDGs) at a global scale with all ocean business sectors

This conference has attracted those interested in industry leadership and collaboration to address ocean sustainability, science and stewardship. You are in the company of like-minded colleagues from shipping, oil and gas, fisheries, aquaculture, ports, mining, finance, renewable offshore energy, tourism, marine technology and other industries, as well as representatives from other key ocean stakeholders.

Please make the most of this opportunity to get to know your peers in other sectors, and other stakeholder groups, who share your interest to understand and act on risks and opportunities of ocean sustainable development.

The results of the SOS 2018 will feed into WOC and ocean business community efforts to address ocean sustainable development and the Sustainable Development Goals of the United Nations.

An increasing number of leadership companies worldwide are distinguishing themselves by becoming WOC Members. If you aren't yet a member, we encourage you to learn more about the WOC, talk to our members at the SOS, and become a part of this growing leadership alliance.

Sincerely,

Paul Holthus
Founding President and CEO, World Ocean Council



SCHEDULE AT A GLANCE

TUESDAY 13 NOVEMBER

08:30	12:00	WOC Board Meeting (WOC Board only)	Garden Room A
12:00	13:30	WOC Board + Members Lunch (WOC Board and Members only)	Garden Room B
13:30	17:30	WOC Members Meeting (WOC Members only)	Garden Room D
17:30	19:30	Delegates Registration and Sponsor Exhibits Installation	Bar on 15
17:30	19:30	~ Welcome Reception : All SOS Delegates ~ <i>Special Speaker: Maisie Cheng, Director of Marine, Hong Kong SAR</i>	Bar on 15

DAY 1 - CONFERENCE

WEDNESDAY 14 NOVEMBER

08:30	08:35	Plenary Session: Welcome and Introductory Remarks from WOC	Grand Ballroom
08:35	10:00	Plenary Session: Ocean Executive Forum: The Signature SOS Multi-Sector Panel of CEOs	Grand Ballroom
10:00	10:30	~ Morning Break ~	Foyer
10:30	12:00	Plenary Session: Asian Shipping and Shipbuilding: Leadership and Challenges in Connecting Asia and the World	Grand Ballroom
12:00	13:30	~ Lunch ~	Foyer + Garden Room A-B
12:00	13:30	~ CEOcean Club (invitation only) ~	
13:30	15:00	Plenary Session: Women's Leadership in Ocean and Coastal Business and Advancing Sustainable Development	Grand Ballroom
15:00	15:30	~ Afternoon Break ~	Foyer
15:30	17:00	Parallel Sessions: 1. Part 1- Biofouling and Invasive Aquatic Species: The GEF-UNDP-IMO GloFouling Partnerships Project Opportunities for Business Collaboration and Implementation 2. UN Law of the Sea: New Legally Binding Instrument on Biodiversity in Areas Beyond National Jurisdiction (BBNJ) and Ocean Industries	Grand Ballroom Garden Room C-D
17:00	17:30	~ Late Afternoon Break ~	Foyer
17:30	19:00	Parallel Sessions: 1. Part 2 - Biofouling and Invasive Aquatic Species: The GEF-UNDP-IMO GloFouling Partnerships Project Opportunities for Business Collaboration and Implementation 2. Responsible Marine Mining: Leadership and Collaboration for Accountable Ocean Mining - from Nearshore to the Deep Sea	Grand Ballroom Garden Room C-D
19:00	22:00	~ SOS Reception and Dinner ~ <i>Special Speaker: James Michel, Former President, Seychelles</i>	Garden Room

DAY 2 - CONFERENCE

THURSDAY 15 NOVEMBER

08:30	10:00	Plenary Session: Ocean 2030: Global Projections for Ocean Industry Activity (covering ocean transportation, energy, food, tourism and minerals)	Grand Ballroom
10:00	10:30	~ Morning Break ~	Foyer
10:30	12:00	Parallel Sessions: 1. Plastics/Waste Removal from Ocean and Island Areas : Maritime Industry Experience, Innovation, Practical Solutions 2. SMART Ocean – SMART Industries and the Arctic: Advancing Industry-Science Collaboration for Data Collection in Support of Safe and Responsible Arctic Development	Grand Ballroom Garden Room C-D
12:00	13:30	~ Lunch ~ <i>Special Speaker: Peter Thomson, Special Envoy for the Ocean, United Nations</i>	Foyer + Garden Room A-B
13:30	15:00	Plenary Session: One Belt, One Road, One Ocean: International Business Collaboration to Help Ensure the Maritime Silk Road Leads to a Sustainable Destination	Grand Ballroom
15:00	15:30	~ Afternoon Break ~	Foyer
15:30	17:00	Parallel Sessions: 1. Ocean Business Action on Climate Change: Implementing Port Adaptation and Exploring Ocean Negative Emission Technologies 2. Aquaculture: Ensuring Sustainable Production in Crowded Seas	Grand Ballroom Garden Room C-D
17:00	17:30	~ Late Afternoon Break ~	Foyer
17:30	19:00	Parallel Sessions: 1. The Role of the Ocean/Maritime Legal Community in Understanding and Addressing Risk and Opportunity in the Blue Economy and Ocean Sustainable Development 2. LNG as a Marine Fuel: Changing the CO2 Footprint of Shipping and Other Ocean Industries	Grand Ballroom Garden Room C-D
Open Evening	Young Ocean Professionals and Ocean Women: Blue Economy Networking Social Event		

DAY 3 - CONFERENCE

FRIDAY 16 NOVEMBER

08:30	10:00	Plenary Session: The Digital Ocean, Big Ocean Data and the Ocean Cloud : Data Driven Sustainable Development of the Seas	Grand Ballroom
10:00	10:30	~ Morning Break ~	Foyer
10:30	12:20	Plenary Session: Ocean Investment Platform: Financing and Innovation for Ocean Sustainable Development	Grand Ballroom
12:20	12:30	Plenary Session: Closing Remarks from WOC	Grand Ballroom
12:30	14:00	~ Lunch ~ Lunch and Learn: What Value can a «Digital Ocean» Bring to Marine/Maritime Activity? <i>Organized by Mercator Ocean International</i>	Foyer + Garden Room A-B
14:00	17:00	WOC Board Meeting (WOC Board only)	Event Room 1 (LG/F)
19:00	21:00	WOC Board Dinner (WOC Board only)	



TAI CHONG CHEANG STEAMSHIP CO. (H.K.) LTD.

Founded in 1917, the TCC Group, with Head Quarters in Hong Kong, is a Blue Chip, Top of Mind, Boutique Enterprise and a Principle Driven provider of dedicated fleet of Dry and Liquid Bulk cargo carriers in international shipping and transportation industry.

With the embedded core values of Accountability, Responsibility, Credibility and Trust, The Group is committed to operate their fleet with a culture of Transparency built on the Foundation of Safety of Life, Environment, Ships and Cargo.

The Group strives to set Highest Achievable Standards of "Zero Tolerance" in occupational and environmental safety in its endeavor to offer a highly dependable service to its Customers and Stakeholders.

In Year 2005 Mr. Kenneth Koo, as CEO and Chairman, assumed the reins of the TCC Group.



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COMPLETE PROGRAM

WEDNESDAY 14 NOVEMBER

Welcome and Introductory Remarks from WOC

08:30-10:00
Grand Ballroom
PLENARY SESSION

Ocean Executive Forum: The Signature SOS Multi-Sector Panel of CEOs

- What is the ocean industry CEO perspective on ocean economic activity to 2030, especially in relation to Asia's role in the ocean economy?
- What opportunities and risks do ocean industry CEOs think that these scenarios create for each sector, for the ocean economy and ocean business community overall, and for the ocean itself?
- How do ocean industry leaders view the Sustainable Development Goals (SDGs) in relation to projected ocean economic activity and future risks and opportunities?

Chair/Moderator

- Paul Holthus, Founding President and CEO, World Ocean Council

Speakers/Panel

- Shipping: Kenneth Koo, Group Chairman and CEO, TCC Group
- Submarine Cables: Mike Constable, CEO, Huawei Marine Networks
- Oil and Gas: Mary Hackett, Former CEO, Baker Hughes (BHGE), Australia, NZ, PNG
- Aquaculture: Farshad Shishehchian, CEO, Blue Aqua International
- Fisheries: John Keeler, CEO, Blue Star Foods
- Cruise Tourism: Gerry Larsson-Fedde, Vice-President, Marine Operations, Costa Asia Group
- Ocean Energy: Ali Baghaei, CEO, Aquanet Power

Morning Break 10:00-10:30

10:30-12:00
Grand Ballroom
PLENARY SESSION

Asian Shipping and Shipbuilding: Leadership and Challenges in Connecting Asia and the World

- With the significant growth in Asian shipping over the past several decades, what will the development of Asian shipping look like through 2030?
- What are the main challenges for Asian shipping in addressing sustainable development, and what can Asian shipowners do to best collaborate with each other and with other ocean industries – in the region and globally – to help advance “Corporate Ocean Responsibility”?
- What opportunities does sustainable development create for the shipbuilding industry, especially in Asia? Are there possible sustainable development synergies across the sectors, e.g. shipping, fishing, offshore energy, and is there sufficient cross-sectoral interaction to identify and achieve synergies?

Chair/Moderator

- Kenneth Koo, Group Chairman and CEO, TCC Group

Speakers/Panel

- Jack Hsu, Managing Director, Oak Maritime; Chairman, Hong Kong Shipowners Association (HKSOA)
- C. K. Ong, President, U-Ming Marine Transport Corporation
- Michael Nagler, Head of Chartering, Noble Group
- Wellington Koo, Executive Director, Valles Steamship
- Naoki Ueda, Senior Vice President, Senior Chief Engineer, Mitsubishi Shipbuilding
- Pier Carazzai, ABS Global Business Development, Director, ABS Hong Kong

Lunch 12:00-13:30

CEOcean Club (invitation only) 12:00-13:30

COMPLETE PROGRAM

WEDNESDAY 14 NOVEMBER

13:30-15:00
Grand Ballroom
PLENARY SESSION

Women's Leadership in Ocean and Coastal Business and Advancing Sustainable Development

- How well is women's leadership in the ocean and coastal business community advancing, and what must be done to improve this?
- How does this relate specifically to ocean sustainable development and the Blue Economy?
- What are the challenges and opportunities for better advancing leadership by women in the ocean and coastal industries, especially regarding sustainable development, and particularly in the Asia-Pacific region?

Chair/Moderator

- Despina Panayiotou Theodosiou, CEO, Tototheo Maritime; President, Women's International Shipping and Trading Association (WISTA International)

Speakers/Panel

- Shipping: Sabrina Chao, Executive Chairman, Wah Kwong Maritime
- Oil and Gas: Mary Hackett, Former CEO, Baker Hughes (BHGE), Australia, NZ, PNG
- Fishing: Lori Kennedy, CEO, Louisbourg Seafoods
- Aquaculture: Donna Lanzetta, CEO, Manna Fish Farms
- Cruise Tourism: Helen Huang, President, Greater China, MSC Cruises
- Offshore Renewable Energy: Alla Weinstein, Founder and CEO, Trident Winds
- Hospitality/Resorts: Sonia Cheng, CEO, Rosewood Hotels (TBC)

Afternoon Break 15:00-15:30

15:30-17:00
Grand Ballroom
PARALLEL SESSION

Part 1 - Biofouling and Invasive Aquatic Species: The GEF-UNDP-IMO GloFouling Partnerships Project – Opportunities for Business Collaboration and Implementation

MARINE POLLUTION

SDG 14.1 By 2025, prevent and significantly reduce marine pollution

- What is the GEF-UNDP-IMO GloFouling Partnerships Project?
- How can the business community, investors and innovators engage in addressing the shared problem of biofouling and the introduction of invasive species?
- How is the issue of biofouling and invasive species being addressed in China?

Chair/Moderator

- Henk van Muijen, Managing Director, IHC Mining; Chair, World Ocean Council

Speakers/Panel

Introducing the GloFouling Project and Biofouling Risk

- Paul Holthus, Founding President and CEO, World Ocean Council
 - *Engaging the Ocean Business Community, Investors and Innovators in Tackling Biofouling and Invasive Species*
- Aurore Trottet, Senior Environmental Scientist, Water and Environment, DHI
 - *Biofouling: New Tools for Risk Minimization and Compliance*

Addressing Biofouling and Invasive Species in China

- Jian Wang, Technical Director, Jotun COSCO Marine Coatings Co
 - *Recent Development of Regulatory Issues in China Marine Coatings*
- Gui Taijiang, Chief Engineer, Marine Chemical Research Institute
 - *The Situation of R&D for Marine Coatings in China*
- Gong Xuanwei, Senior Surveyor, China Classification Society
 - *Management and Control of Antifouling Agents Under the International Convention on the Control of Harmful Anti-fouling Systems on Ships 2001 (AFS) and POPs (Stockholm Convention on Persistent Organic Pollutants)*

COMPLETE PROGRAM

WEDNESDAY 14 NOVEMBER

15:30-17:00
Garden Room C-D
PARALLEL SESSION

UN Law of the Sea: New Legally Binding Instrument on Biodiversity in Areas Beyond National Jurisdiction (BBNJ) and Ocean Industries

OCEAN GOVERNANCE INCLUDING UNCLOS

SDG 14.c Ensure the full implementation of international law, as reflected in UNCLOS for States parties to it, including, where applicable, existing regional and international regimes for the conservation and sustainable use of oceans and their resources by their parties

- What does the draft legally binding BBNJ agreement consist of after the first round of negotiations in 2018?
- What reaction and input do ocean business community representatives have to the draft agreement?
- What is the process for formal consideration and adoption of the BBNJ agreement by the U.N. General Assembly (UNGA), and how can and should ocean industries engage with other ocean stakeholders, including governments, as the BBNJ agreement moves forward?

Chair/Moderator

- Serge Segura, Ambassador for the Oceans, France

Speakers/Panel

- Serge Segura, Ambassador for the Oceans, France
- Gabriele Goettsche-Wanli, Director, U.N. Division for Ocean Affairs and the Law of the Sea (DOALOS)
- Andreas Kaede, Attorney, Haver & Mailänder Rechtsanwälte
- Virginie Tassin, Founder and Director, VTA-TASSIN Law

Late Afternoon Break 17:00-17:30

17:30-19:00
Grand Ballroom
PARALLEL SESSION

Part 2: Biofouling and Invasive Aquatic Species: The GEF-UNDP-IMO GloFouling Partnerships Project – Opportunities for Business Collaboration and Implementation

MARINE POLLUTION

SDG 14.1 By 2025, prevent and significantly reduce marine pollution

- For advancing the role of coatings in biofouling prevention, what are the state of the art, trends, challenges and opportunities?
- For the cleaning of hulls and other surfaces, what are the state of the art, trends, challenges and opportunities?
- What is the future for a comprehensive, global ecosystem of biofouling prevention and treatment, especially in reducing the introduction of invasive species?

Chair/Moderator

- Julian Hunter, Director, Sustainable Value, AkzoNobel

Speakers/Panel

- Neil Oxtoby, Section Leader Fouling Control, AkzoNobel
- *Role of Coatings in GHG Reduction/Green Shipping*
- Neal Blossom, Director of Global Regulatory Affairs, American Chemet
- *The Science and Regulation of Antifouling Biocides*
- Laurance Langdon, General Manager, HullWiper
- *Biofouling Treatment: State of the Art, Trends, Challenges and Opportunities*
- Roger Dyhrberg, Chairman, CleanSubSea
- *Practical Biofouling Solutions for International Vessels: Innovation for the Future*

COMPLETE PROGRAM

WEDNESDAY 14 NOVEMBER

17:30-19:00
Garden Room C-D
PARALLEL SESSION

Responsible Marine Mining: Leadership and Collaboration for Accountable Ocean Mining – from Nearshore to the Deep Sea

OCEAN GOVERNANCE INCLUDING UNCLOS

SDG 14.c Ensure the full implementation of international law, as reflected in UNCLOS for States parties to it, including, where applicable, existing regional and international regimes for the conservation and sustainable use of oceans and their resources by their parties

- What are the opportunities and challenges for advancing responsible marine mining (nearshore, within national waters, in international waters)?
- What has been the experience from nearshore mining and terrestrial mining, and can this help ensure that marine mining addresses these challenges and is responsible as it moves further offshore?
- Is there a value in having an international “platform” to bring together the marine mining industry to catalyze collaboration within the sector and facilitate interaction with other stakeholders, coordinate development of shared priorities and agenda for action, and work to advance practical, cost-effective solutions, practices, policies and regulation to address marine mining based on good science?

Chair/Moderator

- Peter Glazebrook, Regulatory Advisor, Environment Science and Law, Adjunct Professor, Sustainable Minerals Institute, University of Queensland

Speakers/Panel

- Samantha Smith, Director, Blue Globe Solutions
- Henk van Muijen, Managing Director, IHC Mining
- Renee Grogan, Director, Gro Sustainability

SOS Reception and Dinner 19:00-22:00

Special Speaker: James Michel, former President, Seychelles



COMPLETE PROGRAM

THURSDAY 15 NOVEMBER

08:30-10:00
Grand Ballroom
PLENARY SESSION

Ocean 2030: Global Projections for Ocean Industry Activity (covering ocean transportation, energy, food, tourism and minerals)

- What is the future of industry activity in key ocean economic sectors, with a focus on Asia?
- What are the key trends, geographies, assumptions, opportunities and constraints for each sector through to 2030, the time frame of the U.N. SDGs?
- What opportunities and risks do these scenarios create for each sector? For the ocean economy and ocean business community overall? For the ocean itself? – Especially in Asia.

Chair/Moderator

- Christine Valentin, COO, World Ocean Council

Speakers/Panel

- Shipping: Kathi Stanzel, Managing Director, INTERTANKO
- Ports: Patrick Verhoeven, Managing Director – Policy and Strategy, International Association of Ports and Harbours (IAPH)
- Aquaculture: Guillaume Drillet, Past President, World Aquaculture Society, Asian Pacific Chapter
- Fisheries: Paul Lansbergen, President, Fisheries Council of Canada; Member, International Coalition of Fisheries Associations (ICFA)
- Cruise Tourism: Dimity McCredie, Advocacy Director, Cruise Lines International Association (CLIA) Australasia
- Seabed Mining: Samantha Smith, Director, Blue Globe Solutions
- Offshore Wind Energy: Kevin Banister, Vice President, Business and Government Affairs, Principle Power
- Ocean Energy: Ji Wang, National Ocean Technology Center, State Oceanic Administration, China

Morning Break 10:00-10:30

10:30-12:00
Grand Ballroom
PARALLEL SESSION

Plastics/Waste Removal from Ocean and Island Areas: Maritime Industry Experience, Innovation, Practical Solutions

MARINE POLLUTION

SDG 14.1 By 2025, prevent and significantly reduce marine pollution

- How are vessels being used to clean up plastics and marine debris, and what are the opportunities to expand this?
- How can the maritime industry help keep plastics and other wastes out of the ocean by facilitating their removal from islands and coastal areas, especially in the Asia-Pacific region?
- How are ocean industries reducing plastic pollution in daily operations, and what are the lessons learned and future plans, e.g. in cruise tourism and aquaculture?

Chair/Moderator

- Stéphanie Groen, Managing Director, Water and Environment, DHI

Speakers/Panel

- Mark Ko, Executive Director, Tian San Shipping
 - *Marine Waste/Debris Clean up from Waterways, Coastlines and Island Areas: An Overview of the Waste Ecosystem, Solutions and Innovations to Clean Up the Seas*
- Lara Tyrrell, Group Sustainable Business Manager, John Swire & Sons H.K. Ltd
 - *Business and Governance Working in Partnership to Remove Waste Streams from Pacific Islands for Responsible Recycling Elsewhere*
- Marcelo Hidalgo, Science and Standards Coordinator, Aquaculture Stewardship Council
 - *How the Aquaculture Industry can Minimize the Negative Impact of Plastic Pollution into the Ocean – A Practical Approach*
- Yoshioka Tatsuya, Founder and Director, Peace Boat
 - *Reducing Plastic Waste from Cruise Lines: Current Actions and Coming Innovation and Advances*

COMPLETE PROGRAM

THURSDAY 15 NOVEMBER

10:30-12:00
Garden Room C-D
PARALLEL SESSION

SMART Ocean – SMART Industries and the Arctic: Advancing Industry-Science Collaboration for Data Collection in Support of Safe and Responsible Arctic Development

OCEAN KNOWLEDGE, RESEARCH AND TECHNOLOGY

SDG 14.a Increase scientific knowledge, develop research capacities and transfer marine technology

- How can industry better engage in data collection in the Arctic to advance knowledge in support of safe and responsible shipping and other economic activity, as a regional WOC SMART Ocean – SMART Industries Program?
- What are the benefits and barriers to closer business cooperation with researchers, and specifically for greater industry involvement in data collection – and how can benefits be accentuated and barriers addressed?
- What are the priority locations, topics and technology to engage more ships and platforms of opportunity in collecting data in the Arctic, e.g. for bathymetry, as part of the Seabed 2030 initiative?

Chair/Moderator

- Pierre Bahurel, CEO, Mercator Ocean International

Speakers/Panel

- Nicole Biebow, Project Manager, EU-PolarNet; Head of International Cooperation Unit, Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung
- *Arctic Research Icebreaker Consortium: A Strategy for Meeting the Needs for Marine Based Research in the Arctic Ocean*
- Christine Valentin, COO, World Ocean Council
- *Establishing a Regular Dialogue with the Maritime Industry: Challenges and Opportunities*
- Annu Oikkonen, Research Scientist, Marine Research, Finnish Meteorological Institute
- *Expanding the Observation Capacities in the Arctic Ocean by Cooperating with the Maritime Industry*
- Karl Andreas Almås, Special Advisor, SINTEF Ocean; Chairman, Norwegian Center of Expertise, AquatechCluster
- *Technology for Arctic Data Collection from Ships of Opportunity*

Science and Industry Commentators

- Sai-Tick Chan, Senior Scientific Officer, Hong Kong Observatory; Vice-Chair, Voluntary Observing Ships Panel (VOS), Ship Observations Team (SOT), WMO-IOC Joint Technical Commission for Oceanography and Marine Meteorology (JCOMM)
- Justin (Jong-Deog) Kim, Director General, Industry Intelligence and Strategy Research Division, Korea Maritime Institute
- Elisabeth Tørstad, CEO, Digital Solutions, DNV GL
- Kathi Stanzel, Managing Director, INTERTANKO

Lunch 12:00-13:30

Special Speaker: Peter Thomson, Special Envoy for the Ocean, United Nations



COMPLETE PROGRAM

THURSDAY 15 NOVEMBER

13:30-15:00
Grand Ballroom
PLENARY SESSION

One Belt, One Road, One Ocean: International Business Collaboration to Help Ensure the Maritime Silk Road Leads to a Sustainable Destination

- What are the status and plans for the Maritime Silk Road in the Asia/Pacific region, the Indian Ocean, around Europe and in the Arctic Ocean (Northern Sea Route)?
- How are sustainable development issues being identified and addressed in the Maritime Silk Road projects?
- How can the international ocean business community best collaborate with Maritime Silk Road developments in support of sustainable development?

Chair/Moderator

- Tina Liu, China Liaison, World Ocean Council

Speakers/Panel

- Astrid Skala-Kuhmann, Special Advisor G20, Belt and Road Initiative, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
- Yiwei Wang, Professor, School of International Studies; Director, Institute of International Affairs; Director, Center for EU Studies, Renmin University of China
- Egill Thor Nielsson, Executive Secretary, China-Nordic Arctic Research Centre (CNARC)
- TBD, China Merchant

Afternoon Break 15:00-15:30

15:30-17:00
Grand Ballroom
PARALLEL SESSION

Ocean Business Action on Climate Change: Implementing Port Adaptation and Exploring Ocean Negative Emission Technologies **CLIMATE CHANGE AND OCEAN ACIDIFICATION**

SDG 14.3 Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels

- How can the ocean business community best collaborate with other key stakeholders, e.g. multilateral/bilateral development assistance, national governments, to ensure that ports and essential coastal infrastructure are being adapted to achieve resiliency during extreme events, especially in small islands and developing countries, particularly in the Asia-Pacific region?
- What are the finance and investment options for resilient port and coastal infrastructure, including for green infrastructure?
- What is the potential for ocean-based negative emission technologies (NETs), what science is available, what are the risks and benefits, and what is needed to advance careful, science-based consideration of Ocean NETs as a potentially viable, important means to address increasing atmospheric CO₂?

Chair/Moderator

- Cary Anne Cadman, Environment Sector Coordinator, World Bank

Speakers/Panel

- Chris Allen, Bay Area Lead/Advance Planning Group, Jacobs
- *Port Resiliency to Sea Level Rise and Extreme Events: Private Sector Collaboration to Advance Adaptation for Small Islands and Developing Countries*
- Carlo Patteri, Director of Sales, Water and Environment, DHI
- *Climate Adaptation Decision Support Systems (CADSS) Related to Port Resilience and Climate Adaptation*
- John Ridley, Managing Director, Ocean Nourishment
- *Ocean NETs: Responsible Negative Emissions Technologies (NETs) for CO₂ Sequestration at Sea*
- Pål Bakken, Founder and CEO, Casulo
- *Seaweed CO₂ Sequestration and Restoring the Forgotten Forests in our Ocean*

COMPLETE PROGRAM

THURSDAY 15 NOVEMBER

15:30-17:00
Garden Room C-D
PARALLEL SESSION

Aquaculture: Ensuring Sustainable Production in Crowded Seas

FOOD SECURITY: SUSTAINABLE FISHING AND AQUACULTURE

SDG 14.4 By 2020, effectively regulate harvesting, and end overfishing, illegal, unreported and unregulated (IUU) fishing

- With Asia as by far the most important aquaculture area of the world, how has the industry evolved in the increasingly multiple-use ocean situation in Asia?
- What are the barriers to sustainable aquaculture expansion, and what is needed to help expand and accelerate sustainable aquaculture?
- How can aquaculture meet future global human protein demands sustainably in an increasingly crowded, multi-use ocean, notably in Asia?

Chair/Moderator

- Guillaume Drillet, Past President, World Aquaculture Society, Asian Pacific Chapter

Speakers/Panel

- Farshad Shishehchian, CEO, Blue Aqua International
 - *Application of Science and Artificial Intelligence (AI) in Aquaculture*
- Aurore Trottet, Senior Environmental Scientist, Water and Environment, DHI
 - *Planning Aquaculture Zones in Crowded Coastal Areas: Case Study from Denmark*
- Hal Stillman, Director, Technology Development and Transfer, International Copper Association (ICA)
 - *Copper Alloy Mesh for Sustainable Aquaculture*

Late Afternoon Break 17:00-17:30

17:30-19:00
Grand Ballroom
PARALLEL SESSION

The Role of the Ocean/Maritime Legal Community in Understanding and Addressing Risk and Opportunity in the Blue Economy and Ocean Sustainable Development

- What is the role of the ocean/maritime legal community in addressing the risks, opportunities and challenges of the growing and increasingly diverse ocean economy?
- What experience, lessons learned and ongoing efforts can the ocean/maritime legal community bring to help advance ocean sustainable development, and is there a need for greater collaboration amongst the ocean/maritime legal community on sustainable development?
- What are the priority ocean development and sustainability issues for engaging the ocean/maritime legal community – from the perspective of: a) the legal community, b) the overall ocean business community and c) other ocean stakeholders (e.g. government, NGOs)?

Chair/Moderator

- Jonathan Webb, Partner, Holman Fenwick Willan

Speakers/Panel

- Catherine Smith, Senior Associate, Holman Fenwick Willan
- Liv Monica Stubholt, Partner, Selmer
- Bryan Druzin, Associate Professor of Law, Director of LLM Programmes, Faculty of Law, Chinese University of Hong Kong
- Ken Littlejohn, Head of Claims and Legal, FP Marine Risks (TBC)

COMPLETE PROGRAM

THURSDAY 15 NOVEMBER

17:30-19:00
Garden Room C-D
PARALLEL SESSION

LNG as a Marine Fuel: Changing the CO2 Footprint of Shipping and Other Ocean Industries

CLIMATE CHANGE AND OCEAN ACIDIFICATION

SDG 14.3 Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels

- What are the benefits, trends and forecasts for LNG as a major marine fuel, and what are the barriers to advancing the development and delivery of LNG as a marine fuel in the next two decades?
- What is the potential for developing LNG as a marine fuel not only for shipping, but also for other maritime sectors, e.g. fishing, ferries, offshore service/supply vessels?
- In its transition to cleaner fuels what does the industry plan on doing with open loop and closed loop scrubber sulphur discharge?

Chair/Moderator

- Walter Purio, CEO, LNG Marine Fuel Institute

Speakers/Panel

- Walter Purio, CEO, LNG Marine Fuel Institute
 - *Leading the Way: Western Australia is the Key to Driving LNG as a Marine Fuel*
- James Forsdyke, Area Manager, Hong Kong and Taiwan, Lloyd's Register Asia
 - *Cleaner Cruising: How LNG Fuel is Making Waves*
- Rowan Fenn, CEO, Rise-X
 - *The Great Industrial Decentralization: The Environmental Imperative Driving Industrial Supply Chain Transformation*
- Rene Leung, New Building Projects Manager (Sales & Promotions), MAN Energy Solutions
 - *The Efficient and Environmental Friendly Engines for Oil and Gaseous Fuels*
- Bill Guo, Executive Director, Shipping, ICBC Leasing
 - *Topic TBD*
- Michihiko Nakano, General Manager, Bunker Business Office, Mitsui O.S.K. Lines (MOL)
 - *Mitsui O.S.K. Line and LNG as a Marine Fuel At a Glance*
- Sarah Braude, Senior Sustainability Officer, RightShip
 - *LNGs Role in Shipping Efficiency*

Open Evening

Young Ocean Professionals and Ocean Women: Blue Economy Networking Social Event





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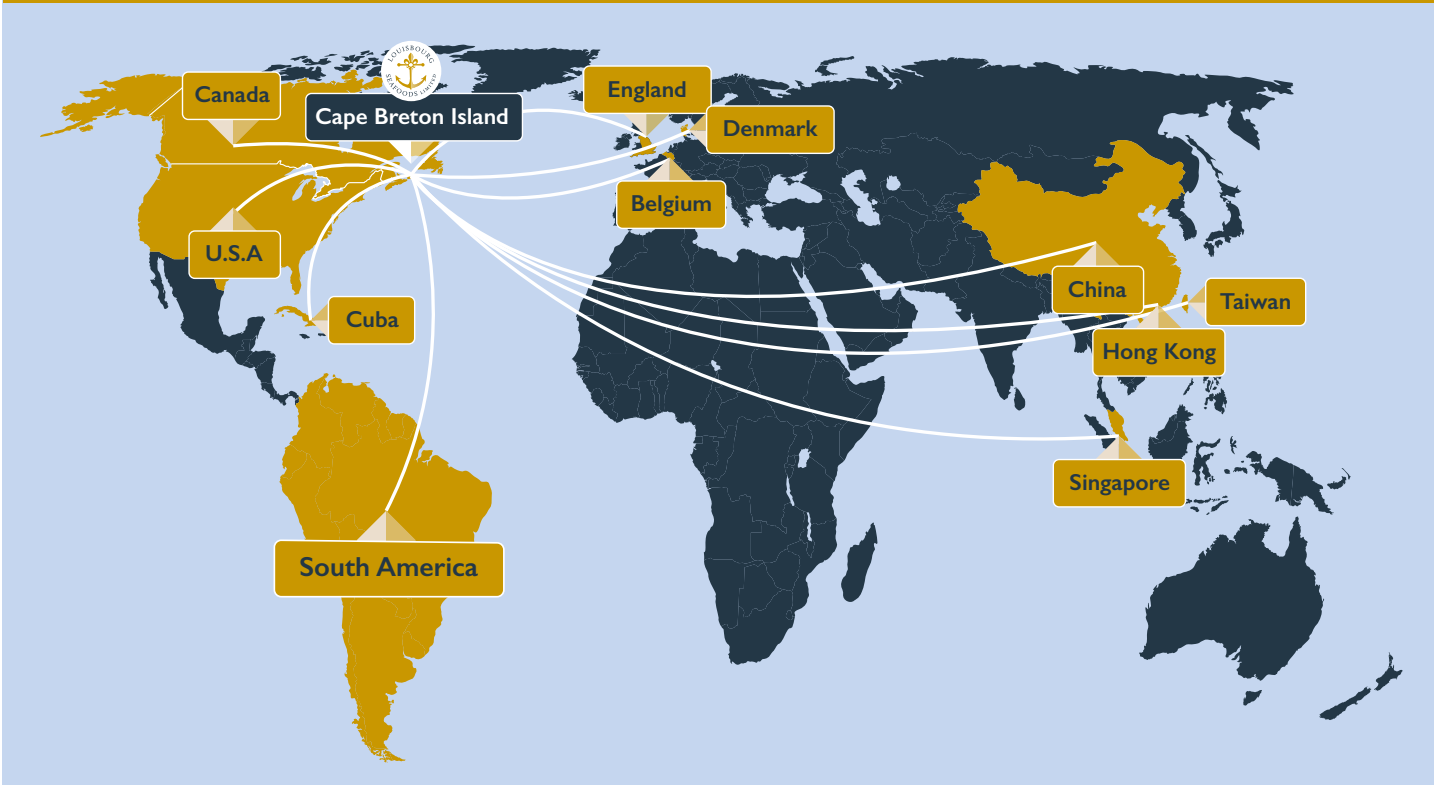
Family and community
are Louisbourg Seafoods
core company values.

MSC and BRC certified,
Louisbourg Seafoods is com-
mitted to the sustainable
fishing practices that will
allow the fishing industry to
thrive for centuries to come.



Lori Kennedy accepting the 2015 Economic
Impact Award at the Cape Breton
Partnership Investor Summit

LOUISBOURG SEAFOODS INTERNATIONAL EXPORT MARKETS



COMPLETE PROGRAM

FRIDAY 16 NOVEMBER

08:30-10:00
Grand Ballroom
PLENARY SESSION

The Digital Ocean, Big Ocean Data and the Ocean Cloud: Data Driven Sustainable Development of the Seas

- What are the status, trends and forecasts for the development of the Digital Ocean, Big Ocean Data, the Internet of Things (IoT) and the use of Cloud Computing and satellites for ocean sustainable development, especially in Asia?
- What are the benefits (economic, sustainability, operational oceanography, maritime security, etc.) from a Digital Ocean that produces Big Ocean Data and harnesses Cloud Computing in support of Agenda 2030, and what are the challenges to achieving these benefits?
- What are the opportunities for better industry leadership and collaboration in advancing the Digital Ocean, Big Ocean Data and Cloud Computing for the Blue Economy, especially in Asia?

Chair/Moderator

- Bill Staby, CEO, Resolute Marine Energy

Speakers/Panel

- Elisabeth Tørstad, CEO, Digital Solutions, DNV GL
- *The Digital Ocean – Unlocking the Value of Data and Connecting Industry*
- Pierre Bahurel, CEO, Mercator Ocean International
- *Copernicus Marine Service: Digital Ocean, an Innovative EU Driver for the Global Maritime Business*
- John Breslin, General Manager, SmartBay Ireland
- *SmartBay – A Test Bed for Proving New Technologies and Innovations for Digital Ocean and Marine and Renewable Energy Applications to Support the Sustainable Development of Ireland's Blue Economy*
- Tina Liu, Vice President, Elane
- *Data and Technology Driven Decision Making*

Morning Break 10:00-10:30



COMPLETE PROGRAM

FRIDAY 16 NOVEMBER

10:30-12:30
Grand Ballroom
PLENARY SESSION

Ocean Investment Platform: Financing and Innovation for Ocean Sustainable Development

Part 1: Innovation and Ocean Sustainable Development

- How have the dynamics of innovation evolved, how does this relate to the urgent, complex, global challenges of ocean sustainable development, and are there lessons from other realms, e.g. CleanTech?
- What is the role of the innovation “ecosystem”, i.e. accelerators, challenge competitions, incubators, venture capital, etc., and how can the collective role of these actors be optimized to address ocean challenges?
- How have corporate leaders in other sectors responded as a benchmark for maritime/marine, with consideration of corporate venture capital and the entrance of impact investors (e.g. family offices, foundations)?

Speaker

- Mark Huang, Co-Founder, SeaAhead

Part 2: Financing Ocean Sustainable Development

- How can investors better collaborate with companies from the ocean business community to identify sustainable development investment opportunities and priorities, with a focus on the maritime/shipping sector?
- What is needed to improve and increase the pipeline of viable ocean sustainable development investment opportunities, especially in Asia?
- What can be done to achieve synergies and scale up investment in ocean sustainable development, and how can investors lead the way, especially in Asia, and in relation to the maritime/shipping sector?

Moderator

- Jacques Demers, Chairman and Managing Partner, AGAWA Partners

Speakers/Panel

- Benjamin Wong, Head, Transport and Industrial Sectors, Invest Hong Kong
- TBD, HSBC
- Sabita Prakash, Managing Director and Chair of Investment Committee, ADM Capital
- Ben Ridley, Director; Deputy Global Head Sustainability Affairs, Credit Suisse AG HK
- Nicolas Parrot, Managing Director, Head Transportation Sector, Investment Banking Asia Pacific, BNP Paribas Singapore
- James Tong, Managing Director-Regional Head of Global Shipping and Logistics, Asia Pacific and Japan, Citi

Part 3: The Intersection of Ocean Business, Investors and Innovation: The Way Forward to Sustainable Development

- How can the ocean business community best engage with the innovation “ecosystem” to develop, deliver and implement solutions in support of “Corporate Ocean Responsibility”?
- How can business, investors and innovators best navigate the intersection of early stage bluetech venture investing and ocean sustainability?
- What keeps ocean business leaders up at night, and how can innovation and investment solve these challenges?

Moderator

- Mark Huang, Co-Founder, SeaAhead

Closing Remarks from WOC

Lunch 12:30-14:00

Lunch and Learn: What Value can a «Digital Ocean» Bring to Marine/Maritime Activity?
Organized by Mercator Ocean International



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The International Business Alliance
for Corporate Ocean Responsibility

World Ocean Council

Business Leadership and Collaboration In Shaping a Sustainable Future for the Ocean

The WOC is the only international, cross-sectoral alliance for private sector leadership and collaboration in ocean sustainability, stewardship and science. Companies from a range of industries worldwide are distinguishing themselves as leaders in “Corporate Ocean Responsibility”, including: shipping, oil and gas, tourism, fisheries, aquaculture, mining, renewable energy, ocean technology and investment.

The Challenge The ocean is an interconnected global ecosystem supporting a wide range of uses. Maintaining a healthy ocean requires responsible stewardship by all users.

The best efforts by a single company or an entire sector will not be enough to address the cumulative impacts on the inter-connected marine ecosystem from growing use across the sectors. Companies dependent on the ocean can achieve business value from working with others to address shared challenges regarding sustainable development, science and stewardship.

The Invitation Responsible ocean companies are invited to join the growing number of organizations distinguishing themselves as leaders in “Corporate Ocean Responsibility” through the WOC.



Join our group on LinkedIn <https://www.linkedin.com/company/world-ocean-council>



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Become a WOC member and visit our website oceanCouncil.org.

