



# SUSTAINABLE OCEAN SUMMIT

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*“The Ocean Sustainable Development Goal (SDG 14):  
Business Leadership and Business Opportunities”*



**29 Nov - 1 Dec 2017**

➤ **Halifax, Canada**

## 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.**

Concerns about the impacts of economic activity on ocean health from growing range and level of commercial use are on the rise. These concerns may limit industry access to marine areas and resources. Ocean users are increasingly being held accountable by governments and NGOs for the state of the ocean. Continued ocean access and use will increasingly require the social license to operate - above and beyond simple regulatory compliance - and participation in Sustainable Development Goals.

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.

## Creating an ocean business alliance

**The World Ocean Council is the only international, cross-sectoral industry leadership alliance on “Corporate Ocean Responsibility”.**

The WOC brings together the diverse ocean business community (shipping, fisheries,

oil & gas, aquaculture, offshore renewables, tourism, seabed mining, marine technology, manufacturers, law, retailers, insurers, finance, etc.) to achieve the business benefits of cross-sectoral leadership and collaboration.

The WOC develops global ‘platforms’ on cross-cutting ocean business and sustainability challenges, e.g. ocean policy & governance, marine planning, marine debris, marine sound, marine mammal impacts, water pollution, data collection by industry vessels & platforms, sea level rise/extreme event impacts, priority regions (Arctic, Indian Ocean), and investment & innovation for ocean sustainable development.

## The invitation

**Responsible ocean companies are invited join the growing number distinguishing themselves as leaders in “Corporate Ocean Responsibility” through the WOC.**

In addition to the 75+ WOC Members from the diverse ocean business community, the WOC Network includes 34,000+ ocean industry and media stakeholders around the world. The WOC is recognized or accredited by numerous U.N. agencies and other international organizations as the credible, global leadership body on ocean business and sustainability. The WOC Sustainable Ocean Summit (SOS) - 2010, Belfast; 2013, Washington DC; 2015, Singapore; 2016, Rotterdam; 2017, Halifax - is acknowledged as the international ocean business community conference on Corporate Ocean Responsibility.



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Follow our latest news on Twitter @OceanCouncil and tweet about the #WOC2017



Become a WOC member and visit our website [oceancouncil.org](http://oceancouncil.org)

## Sustainable Ocean Summit 2017: 29 November - 1 December, Halifax, Canada



Welcome to the 2017 Sustainable Ocean Summit – the fifth international, cross-sectoral ocean industry conference on “Corporate Ocean Responsibility”.

With the generous support of the SOS 2017 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 “The Ocean Sustainable Development Goal (SDG 14): Business Leadership and Business Opportunities”.

The SOS 2017 theme recognizes:

- The growth of the Ocean Economy and its contribution to food, energy, transport, communications and other needs of society as part of the U.N. SDG process/Agenda 2030.
- The role of the Ocean Business Community over the next 15 years, and beyond, in ensuring ocean sustainable development.

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 SOS 2017 focuses on:

- Ocean Business Community leadership in achieving the U.N. “Ocean” Sustainable Development Goal (SDG) 14.
- Business Growth and Investment opportunities through Ocean Sustainable Development.
- Building on the results and momentum of the U.N. Ocean/SDG 14 Conference (June 2017), the “Our Ocean” conference (October 2017) and other ocean events of 2017.

The results of this SOS 2017 will feed into WOC and ocean business community efforts to address ocean sustainable development and the Sustainable Development Goals of the UN.

An increasing number of leadership companies worldwide are distinguishing themselves by becoming WOC Members. If you aren't yet 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**

*CEO, World Ocean Council*

## PLENARY SESSIONS

- **OPENING PLENARY: LEADERSHIP AND SUCCESS STORIES IN OCEAN SUSTAINABLE DEVELOPMENT**
- **OCEAN EXECUTIVE FORUM: THE SIGNATURE SOS PANEL OF CEOS FROM ACROSS THE SECTORS**
- **OCEAN 2030: OCEAN INDUSTRY PROJECTIONS AND THE FUTURE OF THE OCEAN ECONOMY (COVERING OCEAN TRANSPORTATION, ENERGY, FOOD, TOURISM, AND MINERALS)**
- **OCEAN INVESTMENT PLATFORM: FINANCING OCEAN SUSTAINABLE DEVELOPMENT**
- **SDGS: BUSINESS DEVELOPMENT AND OPPORTUNITIES LINKED TO SDG 14**
- **THE DIGITAL OCEAN: BIG OCEAN DATA FOR SUSTAINABLE DEVELOPMENT AND AGENDA 2030**



**SOS 2017 Theme  
“The Ocean Sustainable  
Development Goal (SDG 14):  
Business Leadership  
and Business Opportunities”**

# PARALLEL SESSIONS OUTLINE

## MARINE POLLUTION

*“SDG 14.1 By 2025, prevent and significantly reduce marine pollution”*

- Circular Economy, Marine Debris, Plastics: The Need for Port Reception Facilities
- Biofouling and Invasive Species: Addressing the Threat through Industry Collaboration
- Marine Sound: Tackling a Global Problem through Science-Based Multi-stakeholder Collaboration

## CONSERVATION AND ECOSYSTEM BASED MANAGEMENT

*“SDG 14.2 By 2020, sustainably manage and protect marine and coastal ecosystems”*

*“SDG 14.5 By 2020, conserve at least 10 per cent of coastal and marine areas”*

- Arctic Sustainable Development: Maritime Vessels Traffic Projections and Scenarios
- High Seas Area-Based Management and Protected Areas: Engaging Industry as an Essential Partner
- Addressing Conflicts/Developing Synergies: Oil and Gas and Fisheries
- Addressing Conflicts/Developing Synergies: Wind Energy and Fisheries
- Ship Strikes and Marine Mammals: Practical Solutions for 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”*

- CO2 Sequestration at Sea: Considering the Case for Responsible Negative Emissions
- Port Resiliency to Sea Level Rise and Extreme Events: Ocean Industry Collaboration to Advance Adaptation for Small Islands and Developing Countries
- Blue Carbon: Implementing Industry CO2 Offsets in Coastal and Marine Ecosystems

## FOOD SECURITY: SUSTAINABLE FISHING AND AQUACULTURE

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

*“SDG 14.6 By 2020, prohibit certain forms of fisheries subsidies which contribute to overcapacity and overfishing, and eliminate subsidies that contribute to IUU fishing”*

*“SDG 14.b Provide access of small-scale artisanal fishers to marine resources and markets”*

- Pirate Fishing: Harnessing Technology and Investment for Catch Documentation and Traceability
- Aquaculture: Advancing Sustainable Aquaculture in a Multi-Use Ocean

## ECONOMIC BENEFITS TO SMALL ISLAND DEVELOPING STATES (SIDS) AND LEAST DEVELOPED COUNTRIES (LDCS)

*“SDG 14.7 By 2030, increase the economic benefits to Small Island Developing States (SIDS) and Least Developed Countries (LDCs) from the sustainable use of marine resources, including through sustainable management of fisheries, aquaculture and tourism”*

- Offshore Renewable Energy: Scaling Up Decarbonized Energy Options for SIDS and LDCs

## OCEAN KNOWLEDGE, RESEARCH AND TECHNOLOGY

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

- Smart Ocean-Smart Industries: Advancing Ocean Industry Data Collection, including on Ocean Acidification

## 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”*

- UN Law of the Sea: New Legally Binding Instrument on Biodiversity in Areas Beyond National Jurisdiction (BBNJ) and Ocean Industries
- Dark Vessels: Monitoring and Reporting Illicit Vessels

## PARALLEL SESSIONS IN DETAIL

### MARINE POLLUTION

#### Circular Economy, Marine Debris, Plastics: The Need for Port Reception Facilities

- What does the circular economy mean for the ocean economy and how can the circular economy be advanced with ocean industries?
- What do diverse port users need to do to implement industry responsibilities and contribute to reducing plastics and other marine debris?
- How can port users collaborate internationally to ensure that adequate, economically viable port waste management and port reception facilities are available worldwide and what are the associated business development and investment opportunities?

### MARINE POLLUTION

#### Biofouling and Invasive Species: Addressing the Threat through Industry Collaboration

- How can diverse ocean industries collaborate to understand and address the shared problem of biofouling and the introduction of invasive species?
- What opportunities exist with science, government and industry to create a common research and development platform on the causes, prevention and removal of biofouling?
- What are the proposed and new regulations regarding the potential importation and spread of non-indigenous marine species and can a pan-industry platform be developed to minimize business risks of biosecurity problems?

### MARINE POLLUTION

#### Marine Sound: Tackling a Global Problem through Science-Based Multi-Stakeholder Collaboration

- What are the needs and opportunities for cross-sectoral ocean industry leadership, innovation and synergies in addressing anthropogenic sound in the marine environment?
- How to best create and implement an international, multi-stakeholder ocean noise “platform” as the structure and process to bring together industry, science, government, intergovernmental organizations and NGOs?
- How can such a platform best catalyze collaboration among ocean industries and with other stakeholders, coordinate development of a shared priorities and agenda for action and work to advance practical, cost-effective solutions, practices, policies and regulation to address ocean noise based on good science?

## CONSERVATION AND ECOSYSTEM BASED MANAGEMENT

### Arctic Sustainable Development: Maritime Vessels Traffic Projections and Scenarios

- What kinds, levels, locations and patterns of vessel traffic from all sectors is projected for the Arctic through 2030, and what scenarios will affect this?
- What infrastructure development will be necessary for these changes in vessel traffic?
- What are the environmental, business and investment risk and opportunities associated with maritime infrastructure development and increased vessel traffic in the Arctic?

## CONSERVATION AND ECOSYSTEM BASED MANAGEMENT

### High Seas Area-Based Management and Protected Areas: Engaging Industry as an Essential Partner

- How can industry and other stakeholders work together towards area-based management of the high seas founded on good science and shared information?
- How to best create and implement an international, multi-stakeholder high seas “platform” to bring together industry, science, government, intergovernmental organizations and NGOs in an ongoing process for the high seas?
- How can such a platform best catalyze collaboration among ocean industries and with other stakeholders, coordinate development of a shared priorities and agenda for action and work to advance practical, cost-effective solutions and practices based on good science?

## CONSERVATION AND ECOSYSTEM BASED MANAGEMENT

### Addressing Cross-Sectoral Conflicts and Developing Synergies: Oil and Gas and Fisheries

- What are the real and perceived conflicts between fisheries and the oil and gas industry?
- What science, experience, best practices and other information can help clarify the situation and improve the potential for cooperation and co-existence?
- What ongoing process for dialogue can best identify the issues, define the available or needed science and information and help resolve the problems associated with the interaction of these sectors?

## CONSERVATION AND ECOSYSTEM BASED MANAGEMENT

### Addressing Cross-Sectoral Conflicts and Developing Synergies: Wind Energy and Fisheries

- What are the real and perceived conflicts between fisheries and the offshore wind industry?
- What science, experience, best practices and other information can help clarify the situation and improve the potential for cooperation and co-existence?
- What ongoing process for dialogue best can identify the issues, define the available or needed science and information and help resolve the problems associated with the interaction of these sectors?

## CONSERVATION AND ECOSYSTEM BASED MANAGEMENT

### Ship Strikes and Marine Mammals: Practical Solutions for Ocean Industries

- How can ocean industries collaborate to understand and address the shared problem of biofouling and the introduction of invasive species?
- What opportunities exist with science, government and industry to create a common research and development platform on the causes, prevention and removal of biofouling?
- What are the proposed and new regulations regarding the potential importation and spread of non-indigenous marine species and can a pan-industry platform be developed to minimize business risks of biosecurity problems?

## CLIMATE CHANGE AND OCEAN ACIDIFICATION

### CO2 Sequestration at Sea: Considering the Case for Responsible Negative Emissions

- What are the requirements of the International Climate Agreement (Paris 2015) for negative emission technologies (NET's) to remove atmospheric CO2 to meet planetary safe limits for global temperatures?
- What are the potential ocean-based NETs, what science is available on them and what are the risks and benefits of Ocean NETs?
- What is needed to advance careful, science-based consideration of Ocean NETs as a potentially viable, important means to address increasing atmospheric CO2?

## CLIMATE CHANGE AND OCEAN ACIDIFICATION

### Port Resiliency to Sea Level Rise and Extreme Events: Ocean Industry Collaboration to Advance Adaptation for Small Islands and Developing Countries

- How can the ocean business community best ensure that ports and essential coastal infrastructure in SIDS and developing countries are being adapted to ensure resiliency to sea level rise and extreme events?
- How can the ocean business community best collaborate with other key stakeholders, e.g. multilateral and bilateral development assistance agencies, national governments, science institutions, etc?
- What is the best way to develop a global, multi-stakeholder "community of practice" in addressing this important business and economic issue?

## CLIMATE CHANGE AND OCEAN ACIDIFICATION

### Blue Carbon: Implementing Industry CO2 Offsets in Coastal and Marine Ecosystems

- What is Blue Carbon and how does it relate to the ocean business community?
- What is the potential role and incentives or benefits for ocean industries in the maintenance or restoration of coastal and marine ecosystems for their Blue Carbon value?
- What is the state of the art in Blue Carbon for CO2 offsets and what is needed to move this forward?

**FOOD SECURITY:  
SUSTAINABLE FISHING  
AND AQUACULTURE**

**Pirate Fishing: Harnessing Technology and Investment for Catch Documentation and Traceability**

- What is the state of the art in Catch Documentation and Traceability (CDT) as an approach to addressing Illegal, Unregulated and Unreported (IUU) fisheries?
- What innovation and technology is needed to advance CDT development and implementation to significantly reduce IUU fishing?
- What are the investment opportunities in CDT and other approaches to tackling IUU fishing?

**FOOD SECURITY:  
SUSTAINABLE FISHING  
AND AQUACULTURE**

**Aquaculture: Advancing Sustainable Aquaculture in a Multi-Use Ocean**

- What are the barriers to growth in mariculture development in an increasingly crowded, multi-use ocean?
- What innovations are needed to help expand and accelerate sustainable mariculture?
- What is the potential and the risks and benefits to co-locating offshore mariculture with other facilities and activities, e.g. offshore renewables, decommissioned oil platforms?

**ECONOMIC BENEFITS  
TO (SIDS) AND (LDCs)**

**Offshore Renewable Energy: Scaling Up Low Carbon Energy Sources from the Sea for SIDS and LDCs**

- What is state of the art in offshore wind and ocean renewable energy development in SIDS and LDCs?
- What are the barriers to significantly scaling up offshore wind and ocean renewable energy development for SIDS and LDCs and how can these be addressed?
- What are the investment opportunities for expanding and accelerating offshore wind and ocean renewable energy in SIDS and LDCs?

**OCEAN KNOWLEDGE,  
RESEARCH AN  
TECHNOLOGY**

**Smart Ocean-Smart Industries: Advancing Ocean Industry Data Collection, including on Ocean Acidification**

- What is the most effectively way to coordinate between ocean scientists and ocean industry operators in order to engage industry in data collection and sharing?
- What are the barriers to industry involvement in data collection and how can these be addressed?
- What are the priority locations, topics and technology to engage more ships and platforms of opportunity in collecting data, especially for ocean acidification?

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GOVERNANCE  
INCLUDING UNCLOS

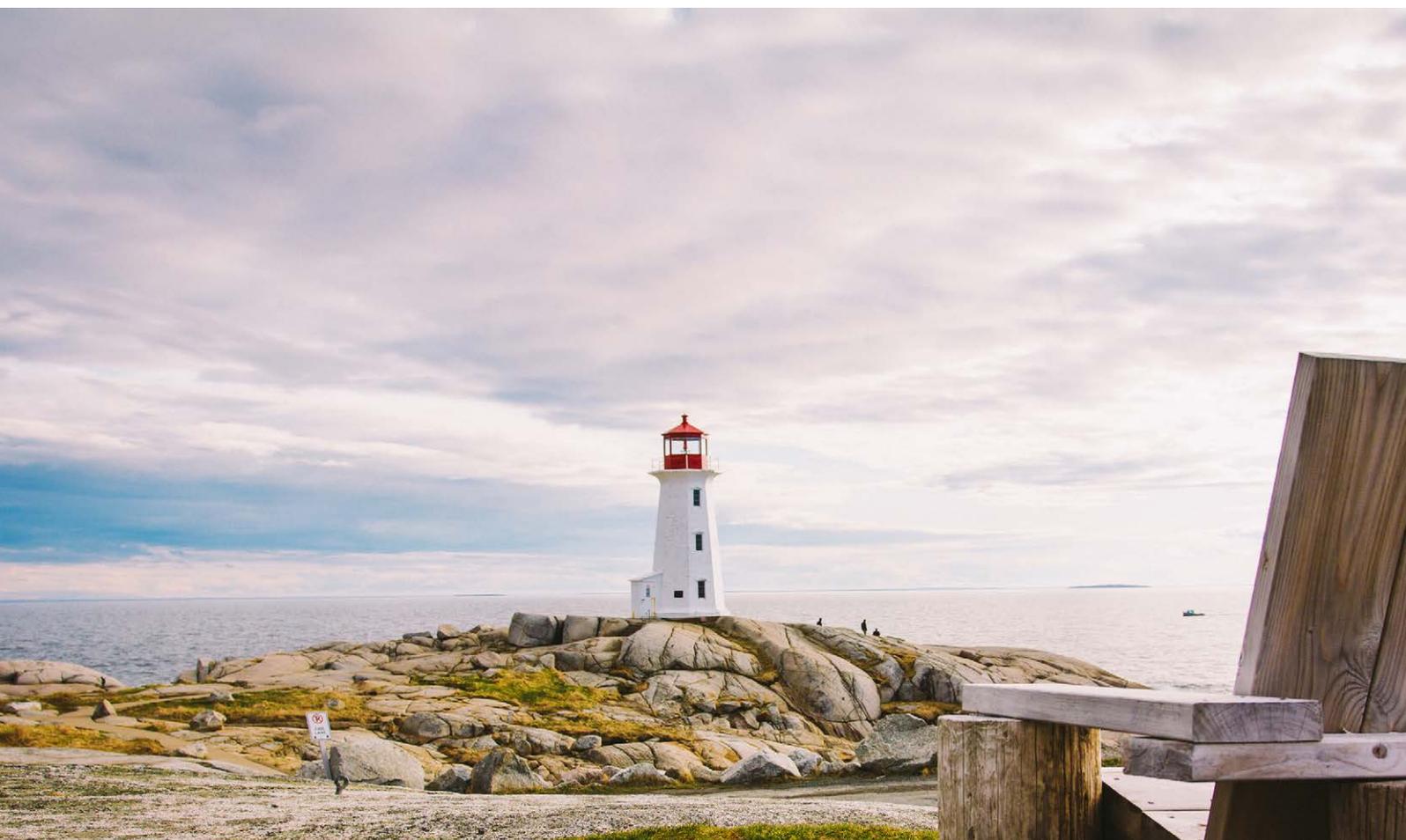
The Law of the Seas New Legally Binding Instrument on Biodiversity in Areas Beyond National Jurisdiction (BBNJ): What Will It Mean for Ocean Industries

- What is the final version of the legally binding BBNJ agreement that was developed in 2016-17?
- What is the process for formal consideration and adoption of the BBNJ agreement by the U.N. General Assembly (UNGA)?
- How can and should ocean industries engage with other ocean stakeholders, including governments, as the BBNJ agreement moves to and through the UNGA?

OCEAN  
GOVERNANCE  
INCLUDING UNCLOS

Dark Ships: Improving Ocean Governance and Maritime Security by Increasing Information on Illicit Vessels

- What is known about "Dark Ships", i.e. shipping, fishing or other vessels that operate outside the laws and norms of responsible ocean business practices?
- What are technology, communications and other approaches could facilitate more comprehensive information on illicit ocean activity – and what business and investment opportunities do these create?
- Is there value and potential to explore mechanisms for legitimate ocean industry operators to report suspicious vessels to appropriate authorities?





FOR MORE INFORMATIONS ON SOS 2017

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