

## Strengthening stewardship through cooperation in an economically and biologically significant high seas area – the Sargasso Sea

1.3.1 Undertake **capacity building and training workshops** and training courses to support data and information capture, analysis and management; resource mobilization to fill gaps in monitoring infrastructure

3.1.1 Reconfirm the training and capacity building needs required to support SAP implementation and define and **adopt a CB&T SAP Plan-of-Action**

**Work with the IMO Secretariat** to help to assess the relevance of IMO measures



# Making a Difference: Ocean Research at World Maritime University (WMU) and WMU-Sasakawa Global Ocean Institute

GEF Inception Meeting

18 October 2022, San José, Costa Rica

**Professor Ronán Long**

Director, World Maritime University - Sasakawa Global Ocean Institute,  
Nippon Foundation Professorial Chair of Ocean Governance & the Law of the Sea, World Maritime University, Malmö, Sweden



# Overview

## Part 1 - Introducing WMU

- What we do?
- Who are we?
- How do we work?

## Part 2 - About WMU-Sasakawa Global Ocean Institute

- Our Mission
- How do we work?

## Part 3 - Programmes and Projects

- Land-to-Ocean Leadership Programme
- Empowering Women for the UN Decade of Ocean Science Programme
- Closing the Circle: Marine Debris, Sargassum and Marine Spatial Planning Programme
- EU H2020 BUGWRIGHT2 Project
- CAPFISH (IUU fishing)**

## Part 4 – What can we do for the project?

- Collaboration**



# World Maritime University

## WMU at A Glance

- Post-graduate University
- Established by IMO in 1983
- Focus on Maritime & Oceans Education, Research & Capacity-Building

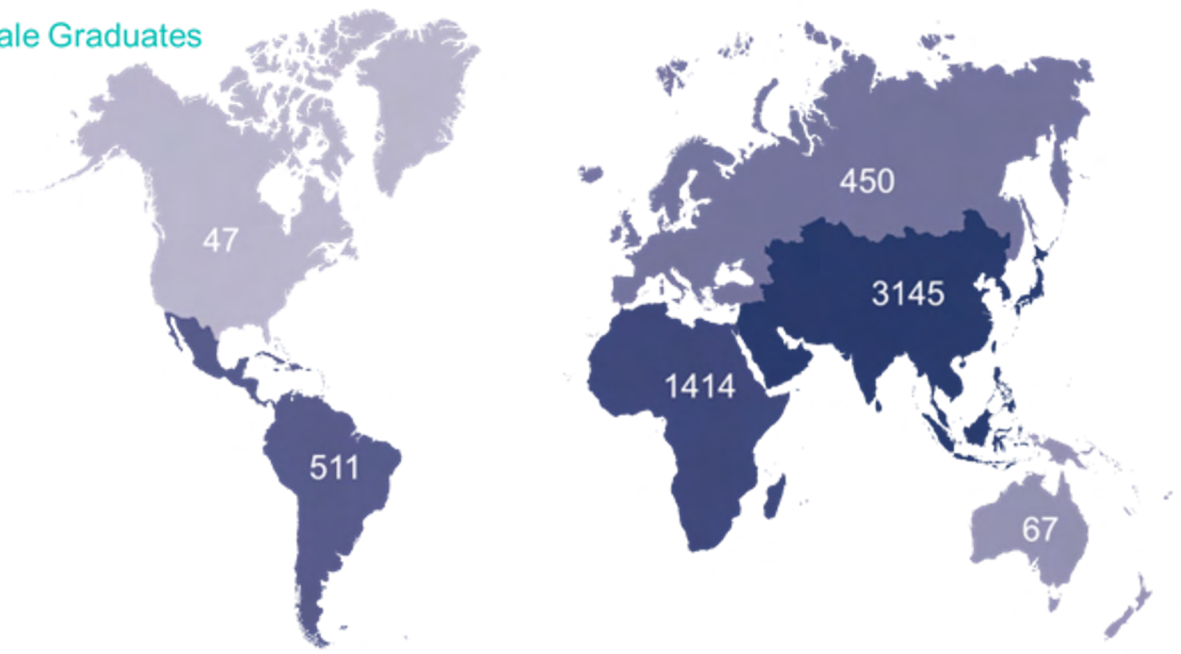
## Our Mission

- To be the world centre of excellence in postgraduate maritime and oceans education, professional training and research, while building global capacity and promoting sustainable development



# WMU Global Impact

5,634 Alumni  
171 Countries and Territories  
1,254 Female Graduates



## WMU-Sasakawa Global Ocean Institute

- a. Objective
- b. Team
- c. Research

Website: [www.wmu.se/goi](http://www.wmu.se/goi)  
Contact: [goisecretariat@wmu.se](mailto:goisecretariat@wmu.se)



# Sasakawa Global Ocean Institute

## Mission statement

...is to be an independent **focal point for the ocean science-policy-law-industry interface** acting as convener and convergence point where **policy makers, the scientific community, regulators, industry actors and academics, representatives of civil society**, meet to discuss how best to manage and use ocean spaces and their resources for the sustainable development of present and future generations, based on **evidence-based research, education and capacity-building**



Funded by the Horizon 2020 Framework Programme of the European Union

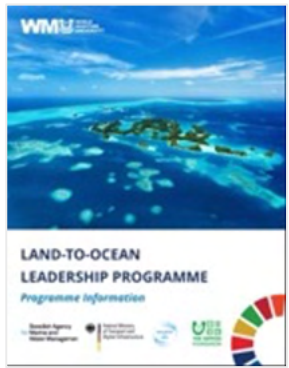


Contribution Development Impact  
WMU-Sasakawa Global Ocean Institute



# How do we work?

[Programme Website Here](#)

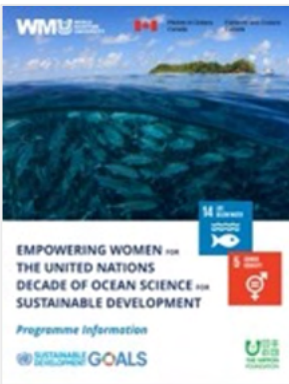


**Land-to-Ocean Leadership Programme**

PI and Co-PI



[Programme Website Here](#)



**Empowering Women for the UN Decade of Ocean Science for Sustainable Development**

PI and Co-PI



[Project Website Here](#)



**European Union Horizon 2020 BUGWRIGHT2 project**

PI and Co-PI



[Programme Website Here](#)



**Closing the Circle: Marine Debris, Sargassum & Marine Spatial Planning in the Eastern Caribbean**

PI and Co-PI





# Land-to-Ocean Leadership Programme

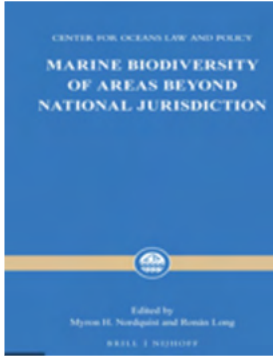
Website: <http://land-to-ocean.wmu.se/>



# Training key negotiators through our PhD programme including Mr. Kahlil Hassanali, lead negotiator for CARICOM on EIA



Making a difference: Contributing to the negotiations of a New UN Treaty on Biodiversity Beyond National Jurisdiction Agreement by delivering Side Events at UNHQ, Conferences for the lead negotiators at WMU, as well as specialist briefing papers, books and articles on various negotiation options in the draft text of the new instrument



# EMPOWERING WOMEN FOR THE UNITED NATIONS DECADE OF OCEAN SCIENCE FOR SUSTAINABLE DEVELOPMENT

Website: <https://empowerincwomen.wmu.se/>



# Empowering Women for the Ocean Decade Programme










## Postdoctoral Research

- Gender Mainstreaming in Ocean Governance Bodies - **Dr. Mariamalia Rodriguez Chaves (Costa Rica)**

## PhD Research

- Gender Equality in Ocean Science for Sustainable Development: Analysis of Ocean Science Institutions in Kenya - **Renis Auma Ojwala (Kenya)**
- Understanding the Role of Gender in the Practice of International Marine Science: The International Council for the Exploration of the Sea (ICES) as A Case Study - **Ellen Johannesen (Canada)**

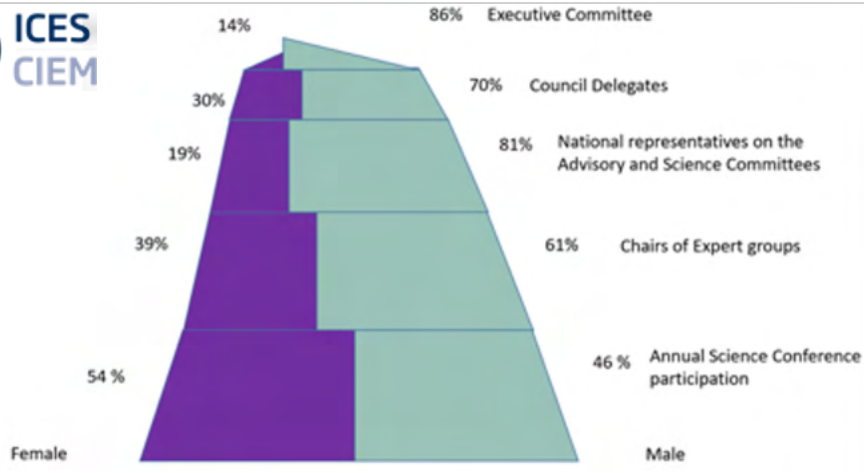
PROJECT TEAM

 MARIAMALIA RODRIGUEZ-CHAVES Postdoctoral Fellow	 ELLEN JOHANNESSEN PhD Student	 RENIS AUMA OJWALA PhD Student
 ZHEN SUN Research Officer and Project Principal Investigator, WMU-Sasakawa Global Ocean Institute	 MOMOKO KITADA Associate Professor and Project Principal Investigator (Nippon Foundation Post)	 SUSAN BUCKINGHAM Researcher and Consultant on Gender and Environmental Issues (External)
 RONAN LONG Director, WMU-Sasakawa Global Ocean Institute	 CLIVE SCHOFIELD Head of Research and Project Lead, WMU-Sasakawa Global Ocean Institute	 FRANCIS NEAT Professor, Sustainable Fisheries Management, Ocean Biodiversity and Marine Spatial Planning (Nippon Foundation Chair)

# International Council for the Exploration of the Seas: Value of Collecting Gender Data on over 7,000 member scientists

*Quantitative and Qualitative data needed!*

Types of responses from the ICES community  
2021 survey on experiences with gender based harassment



ICES Gender Ratios 2021

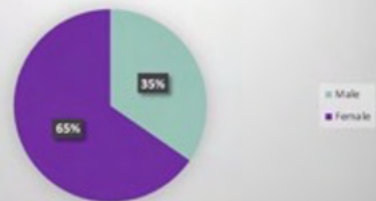
- Subtle exclusion
- Not being heard
- Being left off emails
- Unconscious bias & everyday sexism
- Progression hindered due to having children
- Comments about body
- Persistent unwanted sexual advances



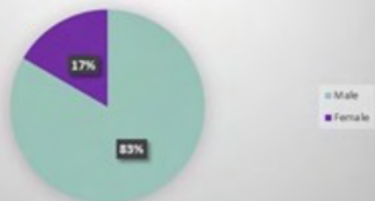
ICES ASC Keynote presentations by gender 2015 - 2019



ICES ASC merit award winners 2015- 2019 (All categories combined)



Outstanding Achievement Award & Prix D'excellence winners by gender 2015 -2019



**Making a difference:** United Nations Ocean Conference Lisbon 2022, attended by 4,000-6,000 delegates from UN Member States, 14 Head of States, as well as all of our donors. The GOI delivered 3 major side events in partnership with our donors and IMO.



[Press release here](#)



Pêches et Océans  
Canada

Fisheries and Oceans  
Canada



# The Nippon Foundation: “Closing the Circle” Programme

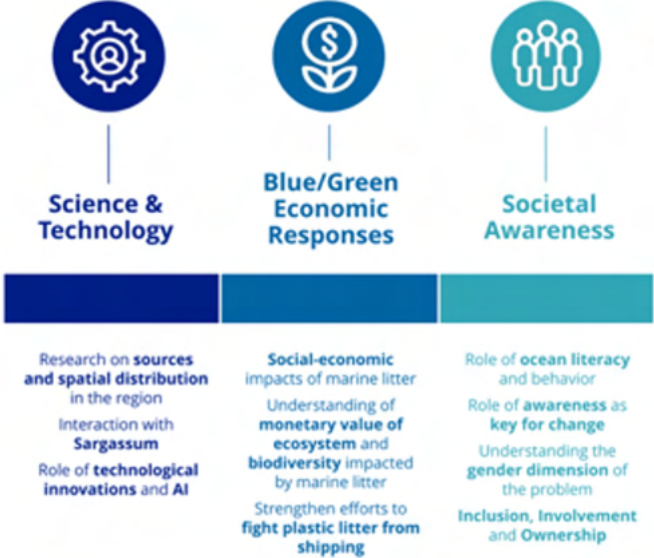
*Exploring challenges and advancing potential solutions to **marine debris** and **Sargassum** threats in Small Island Developing States with a particular focus on the Eastern Caribbean region.*





# Programme Structure and Design

## Research Themes



## Delivery Mechanisms



# Closing the Circle Programme



**Kristal Ambrose**  
 Bahamas  
**PhD Focus:**  
 Social Awareness

Research Title:  
 "Developing Management strategies for marine debris in Caribbean Small Island Developing States (SIDS) using predictive mapping."



**Kristie Alleyne**  
 Barbados  
**PhD Focus:**  
 Science and Technology

Research Title:  
 "Understanding and Addressing the Social-Ecological Challenges of Sargassum Influx Events Faced by Coastal Communities in the Eastern Caribbean"



**Roxanne Graham**  
 Grenada  
**PhD Focus:**  
 Social Awareness

Research Title:  
 "Use cross-boundary transformative partnerships for knowledge transfer and to bridge the gap between science and policy in the field of marine debris"



**Tricia Lovell**  
 Antigua & Barbuda  
**PhD Focus:**  
 Blue Green Economy

Research Title:  
 "Abandoned, Lost and Otherwise Discarded Fishing Gear (i.e. derelict fishing gear) Associated with small-scale fisheries in the Eastern Caribbean. Understanding governance challenges and defining management approaches."

## Supervisors:



## PhD Advisory Committee:



**Regional Conference Dominica 4-7 April 2022. Attended by the President of Dominica, Prime Minister and 4 Government Ministers. Delivered in partnership with Sasakawa Peace Foundation and the Organisation of Eastern Caribbean States.**

[Press Release here](#) and [website here](#)



President of Dominica, Charles Angelo Savarin  
Dr Roosevelt Skerrit- Prime Minister of Dominica  
Dr. Kenneth Darroux, Minister of Foreign Affairs, International Business and Diaspora Relations  
Ms. Denise Charles, Minister of Tourism, International Transport and Maritime Initiatives



# Making a difference: meeting and working with Ministers from the Eastern Caribbean Region at the United Nations Ocean Conference, Lisbon 2022

[Press release here](#)



High level meeting with **Honorable Saboto Caesar**, Minister of Agriculture, Forestry, Fisheries, Rural Transformation, Industry & Labour, St Vincent and the Grenadines, with colleagues from OECS, at UN Ocean Conference in Lisbon, June 2022

Contribution to Joint side event by **Honorable Athill Dean Jonas**, Minister of Social Transformation, Human Resource, Development and the Blue Economy, Government of Antigua and Barbuda



20 Contribution. Development. Impact.  
WMU-Sasakawa Global Ocean Institute

# Key Programme Accomplishments

## Contribution to Key International Conferences



### World Ocean Assessment I & II in 2020-2021

**Contribution:**  
Co-Convenor Chapter 12 on  
Marine Litter and Dumping



### International Treaty on Plastics in the Marine Environment in 2021/2022

**Contribution:**  
Participating in the negotiations  
towards an International Plastic Treaty



### Plastics Management Index by The Economist (supported by the Nippon Foundation) 2022

**Contribution:**  
To serve as advisor to a working  
group to develop the indicators  
and to develop the corresponding  
reports



### IMO GESAMP Working Group on Microplastics Since 2021

**Contribution:**  
Expert input to the Working Group



### International Guide on Marine Spatial Planning (MSP) by IOC-UNESCO in Oct 2021

**Contribution:**  
Expert input to MSP Global  
guide drafting

# EU H2020 BUGWRIGHT2 Project

## *Overcoming Regulatory Barriers for Service Robotics in an Ocean Industry Context*

Website: <https://bugwright2.wmu.se/>



# EU H2020 BUGWRIGHT2 Project

**Funding:** 8.99 million €500,000 from the EU Horizon 2020

## 20 Project Partners:

- UMI 2958 GT-CNRS, France (Coordinator of BUGWRIGHT2);
- World Maritime University-Sasakawa Global Ocean Institute, WMU;
- Technical Centre for the Mechanical Industry, France;
- Faculdade de Engenharia da Universidade do Porto, Portugal;
- Universitat de les Illes Balears, Spain;
- National Institute of Applied Science, France;
- RWTH Aachen University, Germany;
- Universitaet Klagenfurt, Austria;
- Norwegian University of Science and Technology, Norway;
- Trier University, Germany;
- Lakeside Labs, Austria;
- Roboplanet, France;
- Blueye, Norway;
- Glafcos Marine Ltd., Greece;
- Porto Harbour, Portugal;
- Arsenal do Alfeite, Portugal;
- In Extenso Innovation Croissance, France;
- Danaos Shipping Co. Ltd., Cyprus; and
- Starbulk Shipmanagement Co. Ltd., Cyprus;
- Registro Navale Italiano (RINA), Italy;

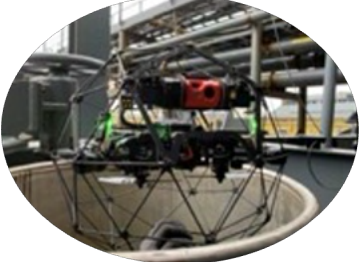


## Objectives:

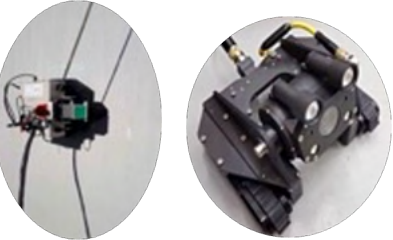
1. Provide critical legal insights considering state-of-the-art remote inspection technologies, regulatory frameworks and selected national developments from China, Singapore, Norway, the Netherlands, Canada and the US; and
1. Develop a regulatory blueprint using a co-design process with key stakeholders

## WHAT ARE THE BUGWRIGHT2 TECHNOLOGIES?

### 1. Drones (micro aerial vehicles)



### 2. Magnetic Crawlers



### 3. Underwater Vehicles (ROV)



## DEPLOYMENT OF BUGWRIGHT2 TECHNOLOGIES



### 1. Service Providers Inspecting Ship Structures Above and Below water

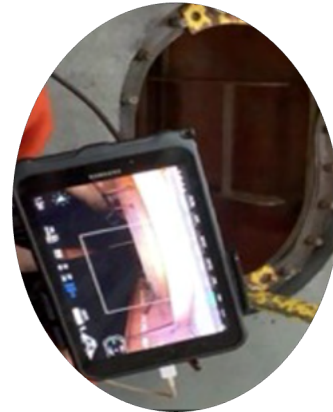
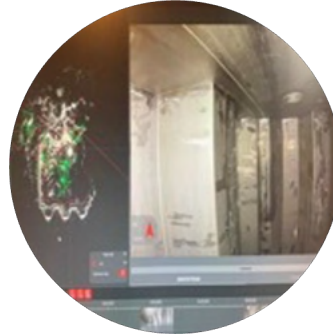


### 1 A. Inspection of Structure Above Water



### 1 B. Inspection of Structure Below Water

Allowing the completion of tasks that are otherwise time consuming, risky and onerous — through real-time visuals



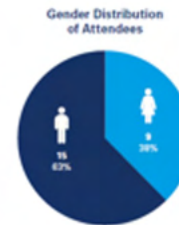
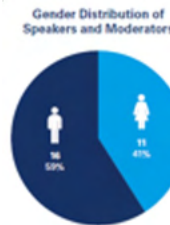
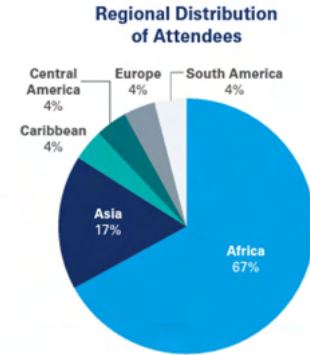
Progressive Integration of AI in Manual-inspection, and reducing vessel source emissions, especially from “Biofouling”





# WMU's CAPFISH PROJECT TO PROGRESS THE IMPLEMENTATION OF INTERNATIONAL INSTRUMENTS TO COMBAT IUU FISHING (CAPFISH) : 2021-2023

- Four "hybrid" workshops designed for WMU graduates, alumni and maritime and ocean professionals from the global south
- Interdisciplinary syllabus taught by the UN agencies, leading academics, independent experts, RFMOs, agencies, NGOs
- Case studies from South Pacific Islands, Korea, Jamaica, Argentina, Gulf of Guinea, Thailand, Guyana, Peru, Senegal.
- >80 participants from > 40 developing countries plus a much greater online attendance



# Key Conferences and Events

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Hosted Conferences & Webinars

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Hosting and Contributing to Local Activities

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Presentations at International & Regional Conferences

GOI Events and Research support team;

*Elnaz, Mercedes and Linda  
with support from Secretariat*



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# Most recent event: **London Convention and Stockholm Declaration Anniversary Conference**, 10-13 October 2022, Malmö, Sweden



## Conference details:

invited **35+** International Expert contributions addressing thematic areas within the London Convention and Stockholm Declaration:

- Retrospective on London Convention & Stockholm Declaration
- Science & Technology
- International & Regional Approaches
- Jurisdictional Issues
- Capacity Building & Technology Transfer
- Contemporary Issues & Future Development

about **600** registered participants in total  
185 onsite and 415 online

from **93** different countries in total  
41 onsite and 87 online (work place)

More info: <https://conferences.wmu.se/londonstockholm50/>



# Key Reports and Publications



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**Total numbers with extended WMU Ocean Team - 206**



Breakdown to



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**Total with WMU  
Ocean Team - 123**



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**Total with WMU  
Ocean Team - 50**



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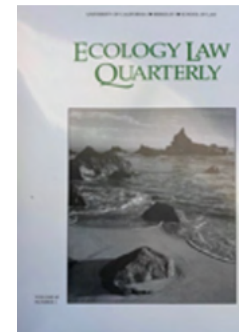
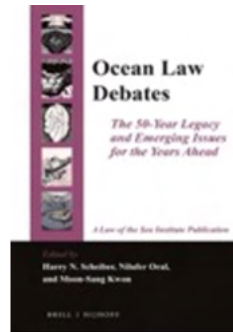
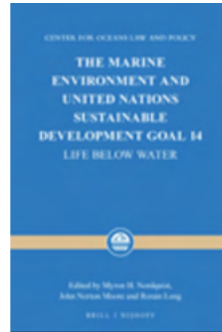
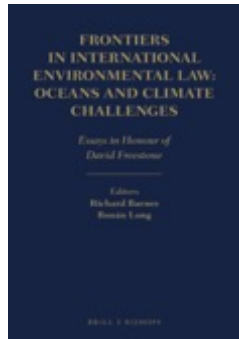
**Total with WMU  
Ocean Team - 10**



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**Total with WMU  
Ocean Team - 23**

# Academic Monographs / Journal Articles



# Thank you!

Visit for more information:  
<https://www.wmu.se/goi>

Warm invitation to contact us at:  
[goisecretariat@wmu.se](mailto:goisecretariat@wmu.se)



## Strengthening stewardship through cooperation in an economically and biologically significant high seas area – the Sargasso Sea

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