

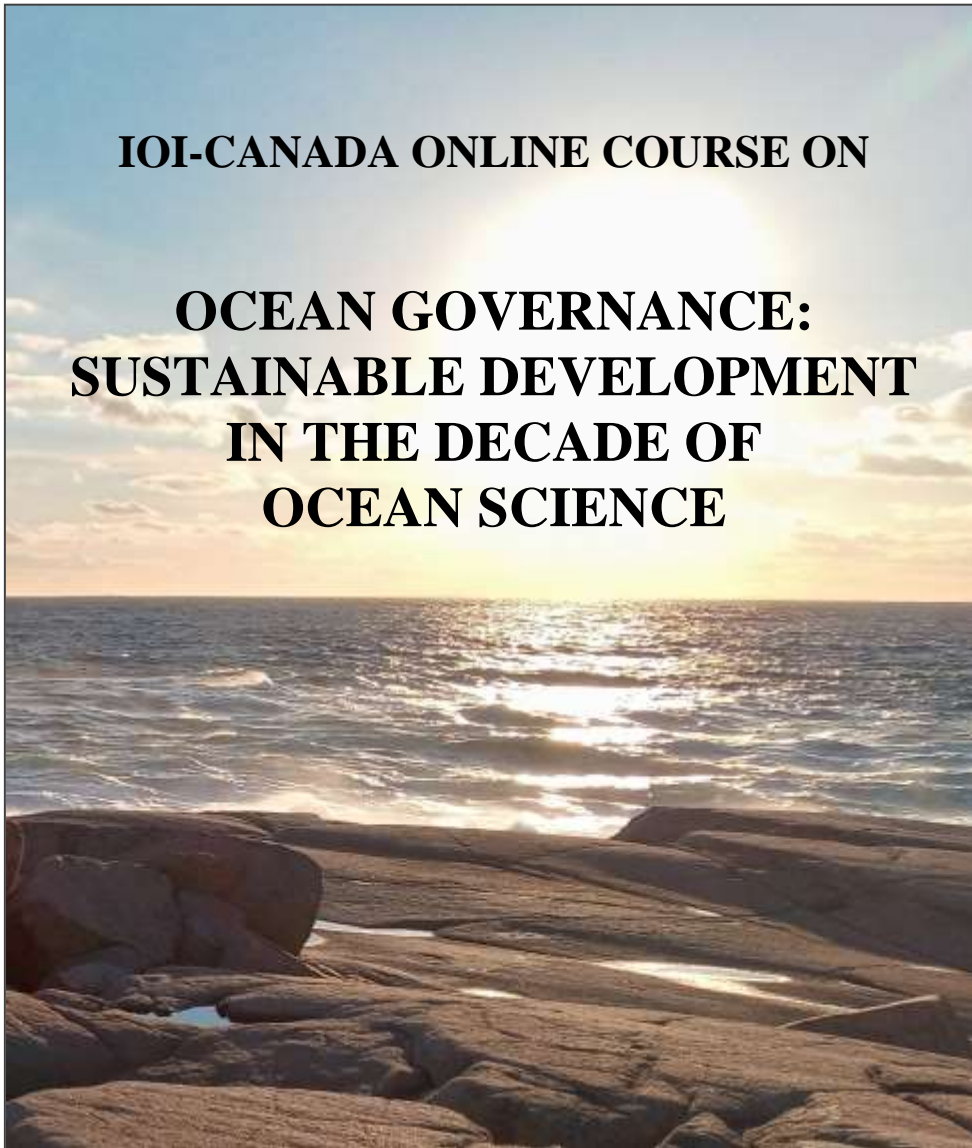
INTERNATIONAL OCEAN INSTITUTE



COURSE REPORT

IOI-CANADA ONLINE COURSE ON

**OCEAN GOVERNANCE:
SUSTAINABLE DEVELOPMENT
IN THE DECADE OF
OCEAN SCIENCE**



7th May – 29th June 2021

CONTENTS

	Page
Director's Introduction	3
Acknowledgements	4
International Ocean Institute	5
Course Overview	6
Sample Participant Feedback	8
Schedule	9
Participants	11
Speakers	15
IOI-Canada Contact Information	21

DIRECTOR'S INTRODUCTION



This year's course on "Ocean Governance: Sustainable Development in the Decade of Ocean Science" was the first full length online training program that IOI-Canada had delivered, as a "substitute" for our customary 8-week in-person residential Training Program at Dalhousie University. This followed the success of the trial online Refresher (Continuing Professional Development) Course in November/December of 2020. The latter program was our initial experience of delivering an online course. To minimise potential embarrassment, only IOI-Canada alumni were eligible to register; they were very understanding as we collectively undertook the trial program, luckily with few glitches!

The Ocean Governance course this year consisted of four modules addressing Ocean Governance and the Law of the Sea; Ocean Sciences; Integrated Coastal and Ocean Management; and Fisheries and Aquaculture. Each module consisted of four lectures two of which were delivered each week on a regular day and time. Based on the feedback received from the participants this was an acceptable schedule considering the global distribution of the participants.

As I pointed out to the participants in my introductory remarks as course moderator, this Ocean Governance training program was founded on four paramount UN programs:

- The UN Law of the Sea,
- The UN Decade of Ocean Science for Sustainable Development (2021-2030),
- The Intergovernmental Oceanographic Commission (IOC) of UNESCO that coordinates the Decade's activities, and
- The United Nations Development Program (UNDP) that is responsible for implementing the Sustainable Development Goals.



The importance of IOI's Ocean Governance courses, delivered globally, was perhaps obvious to the participants, particularly with the then upcoming COP26 meeting scheduled for November in Glasgow, Scotland. To emphasise the continuing decline of ocean health, I referred the participants to the First World Ocean Assessment (2015) and the April 21 launch this year of the Second World Ocean Assessment. These are the only integrated assessments of the world's ocean at the global level, covering all three pillars of sustainable development, namely Economic, Social and Environmental.

As is customary in IOI-Canada training programs, the three important IOI documentary resources available to the participants were highlighted, namely:

- The Future of Ocean Governance and Capacity Development,
- The World Ocean Reviews,
- The Ocean Yearbook.

Thanks to excellent work by the resident IOI-Canada team, the very professional lecturers, the engaged participants and the absolutely essential IT support, the Training Program should be considered a success. However, the admitted benefits of online training (e.g. increased number of participants etc.) in no way are comparable to the impact of the customary 8-week in-person Training Program delivered by IOI-Canada in the pre-Covid era.

Michael J.A. Butler

Director, IOI-Canada and 2021 Ocean Governance Course Moderator

ACKNOWLEDGEMENTS

IOI-Canada gratefully acknowledges financial support for this course from both the Ocean Science and Research Foundation and the Marine Environmental Observation, Prediction and Response Network. Their generous contributions enabled us to organise and deliver the training free of charge to almost 100 participants, most of whom were from developing countries and many of whom were from departments or organisations whose capacity to support training opportunities was seriously impacted by the pandemic.

“my heartfelt thanks to all for the effort and opportunity.”

Participant, Brazil

Based in Zurich, the Ocean Science and Research Foundation (OSRF) is a charitable foundation registered in Switzerland. Its general objective is to promote research in the social and natural sciences pertaining to the ocean by granting financial contributions to appropriate research and training projects.

The [Marine Environmental Observation, Prediction and Response Network](#) (MEOPAR) is a national Network of Centres of Excellence linking top marine researchers and highly qualified personnel across Canada with partner organizations and communities. Based at Dalhousie University in Halifax, MEOPAR funds leading-edge research, overcomes barriers to collaborative research and helps to train the next generation of marine professionals.

As ever, IOI-Canada would also like to express appreciation of its host organisation, [Dalhousie University](#), which has provided crucial in-kind support for more than 40 years. Ocean studies are one of

“What I like most about the course is the fact that I was able to connect with different brilliant teachers all over the world easily”

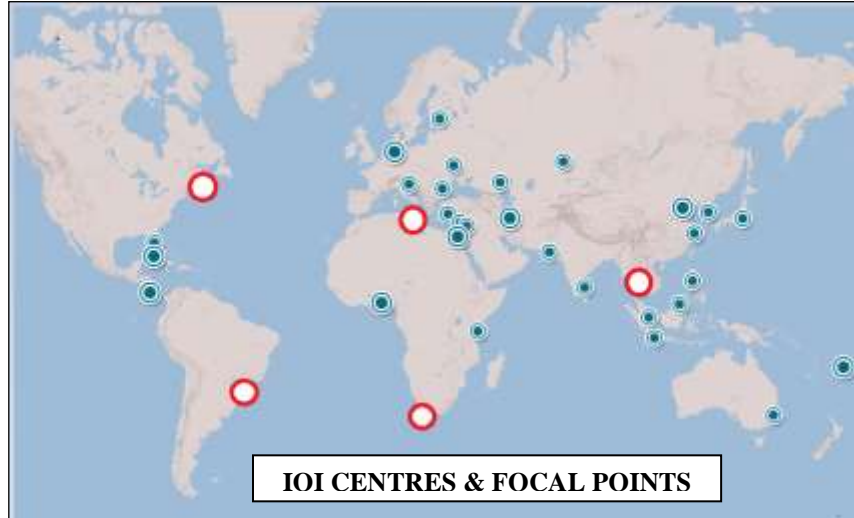
Participant, Nigeria

Dalhousie’s main focuses and strengths and it was the first university in Canada with an Oceanography Department. Subsequent Canadian firsts have been its Marine and Environmental Law Program, its Marine Affairs Program and its undergraduate degree in Ocean Sciences. Linked to its ocean learning, Dalhousie has developed a broad range of expertise in ocean research and is increasingly defined as a world leader in this field.

Last but not least, gratitude is owed to all the course speakers who shared their time, experience and expertise despite the challenges of online teaching. Thank you for helping IOI-Canada to continue providing ocean governance training in these difficult times.

INTERNATIONAL OCEAN INSTITUTE

IOI-Canada is a leading member of the International Ocean Institute’s network of centres and focal points operating worldwide in over 30 countries. One of the earliest IOI centres to be established, it was set up by Elisabeth Mann Borgese in 1979 soon after she arrived at Dalhousie University in Halifax, Nova Scotia, and it has been based at the university for the 40+ years since then. It is one of the network’s five Training Centres (see map).



Registered as the “IOI-Canada Association”, IOI-Canada is a not-for-profit organisation, federally incorporated under the Canada Corporations Act and governed by a Board of Directors. It is guided by the IOI-Canada/Dalhousie Ocean

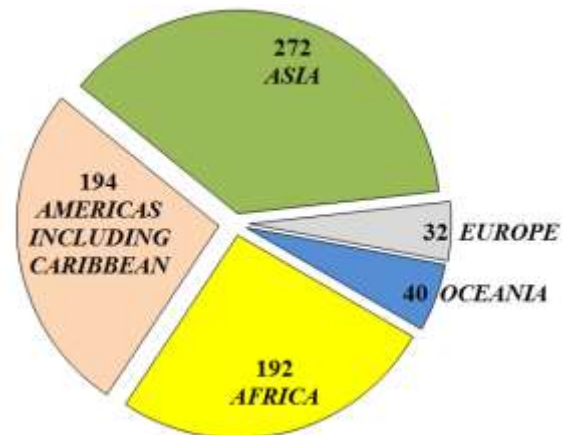
Advisory Committee and staffed by an experienced team of professionals, augmented by Senior Research Fellows who contribute to its activities. IOI-Canada is the regional co-ordinator of the IOI centres in the Americas, namely IOI-Brazil, IOI-Costa Rica, IOI-Cuba and IOI-USA, in addition to the Canadian centre. The international headquarters of the IOI have been located in Malta since being founded in 1972 by Elisabeth Mann Borgese. Information on IOI headquarters and the network as a whole can be found at www.ioinst.org.

IOI-Canada’s mission is to promote responsible ocean governance and the stewardship and sustainable use of coastal and ocean resources in Canada and around the world. Its goals are to encourage and develop the potential and capacity of individuals, institutions and communities to foster:

- a network of individuals dedicated to effective coastal and ocean governance;
- management, education, training, research and outreach; and,
- sustainable and prosperous coastal communities.

IOI-Canada accomplishes its mission and goals through three main activities: education and training, collaborative research and outreach. The provision of interdisciplinary training is its major focus, and the institute’s flagship course in Halifax has trained nearly 740 individuals from over 100 countries around the globe. IOI-Canada has also collaborated on shorter programmes in several countries and in 2020 it started offering online courses due to covid restrictions on travel and face-to-face (F2F) training.

ALUMNI (F2F) BY REGION



COURSE OVERVIEW

With covid restrictions continuing to disrupt normal training, IOI-Canada built on the success of its pilot online programme – an alumni refresher offered in late 2020 – with the delivery of a longer online course on *Ocean Governance: Sustainable Development in the Decade of Ocean Science*. Aimed primarily at marine professionals with responsibility for some aspect of coastal and ocean management, the course was offered for synchronous and asynchronous participation, and even a mix. In each case, participants from around the world were challenged to explore key issues in four core areas of ocean governance – Law of the Sea, Ocean Sciences, Integrated Coastal and Ocean Management and Fisheries and Aquaculture – through a combination of lectures, discussions, videos and readings. This involved a time commitment of approximately 30 hours plus readings. Over 20 speakers contributed to the programme, joining remotely from England, India, Switzerland, USA and different parts of Canada to share their expertise and experience as academics, policy-makers and practitioners. For details of the lecture schedule and speakers, see below (p. 9 and p. 15 respectively).

“Module 1 (*Ocean Governance and Law of the Seas*) and Module 2 (*Ocean Sciences*) blew my mind. The information was tantalizing and built interest of marine management and ocean governance in a way that I never had before.”

Participant, Bahamas

The free course was delivered as a series of 16 live sessions between 7th May and 29th June 2021 with self-paced studying continuing all the way into November. Whilst offering different study options created a few administrative challenges, feedback clearly indicated that the flexibility of this form of blended or wholly asynchronous learning is much appreciated by busy professionals who are fitting their studies around work and, in the case of those who travel to remote areas, limited internet access.



Live session with participants in synchronous stream of OG course

Class size for the live sessions was capped to facilitate meaningful discussion and peer-to-peer learning, but edited recordings were then made available for those choosing the self-paced option. This allowed interested individuals to progress through the recorded lectures and readings in their own time. All four modules consisted of four live 90-minute sessions held twice a week, most of which were comprised of a

live lecture followed by discussion period. Each module also included a session for which participants watched two recorded lectures in preparation, and then the live class engaged in extended interaction with the two speakers fielding questions and leading discussion on topics arising from their presentations. Self-paced participants had the option of e-mailing questions in advance for these extended discussions, so they could be involved and raise queries despite not attending in real time. A dedicated course Facebook group was also set up so that participants could network amongst themselves, if they wished.

“Course was excellent and the online format opened it up to someone like myself who would generally not have access to something like this.”

Participant, Trinidad & Tobago

Interest in the training was high and included candidates of impressive calibre, with 97 people registering from 41 countries around the world. Of these, 67 registered to do the course via the self-paced study option. For the live sessions, a core of 20 registered to participate solely that way and another 10 through a mix of live and self-paced study, which created an excellent class size for discussion and exchange of views and experiences. Virtually all 97 had at least one degree, many two or three, some more, and women constituted the majority.

As with IOI-Canada’s in-person training programmes, these participants were splendidly varied. Drawn from a variety of backgrounds, they were mainly marine professionals with a broad range of education and work experience in, *inter alia*, academia, government, fisheries, aquaculture, science, research, law, policy, international relations, naval intelligence, maritime technology, GIS, pollution, search and rescue, conservation, biodiversity, blue economy, climate adaptation and activism, coastal communities, sustainability and social development.

Geographically, they represented many parts of the world including Africa, Asia, the Caribbean, Central America, Europe, the Indian Ocean, North and South America, and the South Pacific. More specifically, they came from: Australia, Bahamas, Bangladesh, Belize, Brazil, Cameroon, Canada, Costa Rica, Dominica, Ecuador, Egypt, Finland, Ghana, Greece, Grenada, Guatemala, Haiti, India, Indonesia, Iran, Kenya, Madagascar, Mauritius, Mexico, Montserrat, Namibia, Nigeria, Peru, Philippines, Russia, Seychelles, Solomon Islands, Sri Lanka, St Lucia, Tanzania, Thailand, Trinidad & Tobago, Turkey, Turks & Caicos, UK and Ukraine.

“It is incredible to meet people who have so much experience and whose projects are already working with positive and beneficial results, I have learnt a lot.”

Participant, Peru

Whilst some participants ended up doing only part of the course – as is common with free programmes, particularly when they involve studying in isolation – a total of 57 participants (24 men, 33 women) from 30 countries completed the course requirements and were issued a well-deserved certificate. See list under Participants, below (p. 11). Representing Africa, Asia, the Caribbean, Europe, Middle East, and North, Central and South America, they included members of all three study streams (live sessions only, self-paced only and a combination). A few were alumni of previous IOI courses but for the vast majority this was their first experience of the institute. All those who completed the course requirements were able to join the network-wide online platform of alumni set up by IOI Headquarters (www.ioialumni.ioihq.org.mt). This provides them with access to other IOI participants from training programmes across the world and over several decades.

SAMPLE PARTICIPANT FEEDBACK

The course was amazing, very well thought out and executed.

Brazil

The information was extremely relevant to what is currently going on in the world

Bahamas

I really like the discussion, it was not the typical course where the students just listen, instead students can share their experiences.

Mexico

I was impressed to learn of the vast work of Elizabeth Borges and the legacy she left behind on common heritage to man kind - can't stop reading publications related to her work on *Ocean Governance*.

Kenya

This course made me realize that I, we, can have a direct and meaningful role in defining and maintaining a sustainable ocean for the future

Canada

Glad to join, very impressed.

Thailand

The literature provided was truly novel and rich material that supports a solid knowledge

Mexico

The course represented an opportunity to network while getting exposed to new ideas and perspectives that are already being extremely helpful in my daily activities and perceptions.

Brazil

I am very grateful for the experiences that were shared and the discussions that were had by the speakers.

Belize

This course was very amazing... While being a selfpaced learner was very exhausting it was worth it.

Grenada

I found Mike's summaries after each module super-helpful in reminding me of what we learned and pulling all the different lectures together as a topic

Canada

The course had an amazing diversity of speakers with large backgrounds and experience

Mexico

[W]ith this pandemic there were days when I felt unmotivated with the uncertainty of the world but knowing I had a course to finish helped.

Trinidad & Tobago

SCHEDULE

All sessions: 10.00-11.30 a.m. AST

MODULE 1: OCEAN GOVERNANCE AND LAW OF THE SEA		
Date	Session	Speakers
Friday 7 th May	Course Opening: introductions, welcome Ocean Governance: Contemporary Approaches to an Old Problem (lecture & discussion)	Mike Butler, Awni Behnam Hugh Williamson
Tuesday 11 th May	UNCLOS at 40: the Issue of Deep Seabed Mining (lecture & discussion)	Tony George Puthucherril
Friday 14 th May	Blue Economy, Ocean Governance and LOS (discussion based on lecture video) Progress Towards a New High Seas Treaty (discussion based on lecture video)	François Baillet Susanna Fuller
Tuesday 18 th May	Integrated Ocean Policy Implementation: Challenges and Opportunities (lecture & discussion)	Rosemarie Cadogan

MODULE 2: OCEAN SCIENCES		
Date	Session	Speakers
Friday 21 st May	Health of the Ocean (discussion based on lecture video) Adaptation to Climate Change and the Ocean (discussion based on lecture video)	Peter Wells Dan Lane
Tuesday 25 th May	Ocean Observation from Space: Navigating Three Commons (lecture & discussion)	Dirk Werle
Friday 28 th May	Addressing Ocean Acidification, "The Other CO₂ Problem" (lecture & discussion)	Kristina Barclay
Tuesday 1 st June	Advancing Ocean Focused Citizen Science via the Understanding and Effective Use of Open-Access Biodiversity Information Systems (lecture & discussion)	Bob Branton Christine Ward-Paige

MODULE 3: INTEGRATED COASTAL AND OCEAN MANAGEMENT (ICOM)		
Date	Session	Speakers
Friday 4 th June	Marine Protected Areas in the Context of Marine Spatial Planning (lecture & discussion)	Maxine Westhead
Tuesday 8 th June	ICOM: Questioning the Past, Rethinking the Future (lecture & discussion)	Lucia Fanning
Friday 11 th June	Maritime Security – Challenges, Obligations and Opportunities (discussion based on lecture video) The Emergency Management Imperative (discussion based on lecture video)	Bob Edwards David Griffiths
Tuesday 15 th June	Co-developing a Canadian Ocean Literacy Strategy (lecture & discussion)	Sarah MacNeil

MODULE 4: FISHERIES AND AQUACULTURE		
Date	Session	Speakers
Friday 18 th June	The Nexus of Threatened Marine Mammals and Commercial Fisheries (discussion based on lecture video) Why Do Small-Scale Fisheries Matter for Ocean Sustainability? (discussion based on lecture video)	Sean Brilliant Ratana Chuenpagdee
Tuesday 22 nd June	Land-based Aquaculture: Protecting our Ocean and Feeding the World (lecture & discussion)	David Roberts
Friday 25 th June	Rethinking Fisheries Subsidies as a Public Policy Tool (lecture & discussion)	Wilf Swartz
Tuesday 29 th June	Ecosystem Approach to Aquaculture (lecture & discussion) Course Closing	Jon Grant Mike Butler, Awni Behnam

PARTICIPANTS

(List of those who completed full course requirements)

COUNTRY	NAME	POSITION
Bahamas	Ms Shanae BASTIAN	Assistant Fisheries Officer, Department of Marine Resources, Nassau
Bahamas	Ms Ervanna MOSS-ROLLE	Assistant Fisheries Officer, Research and Conservation Unit, Department of Marine Resources, Nassau
Bahamas	Ms L'Dina PELECANOS	Assistant Fisheries Officer, Department of Marine Resources, Freeport
Bahamas	Ms Candice WEBB	Clerk, Department of Marine Resources, Nassau
Bangladesh <i>(in Germany)</i>	Mr Jewel DAS	Assistant Professor, Institute of Marine Sciences, Chittagong University & PhD Student, ZMT, University of Bremen, Bremen
Bangladesh	Mr Md Mostafa MONWAR	Associate Professor, Institute of Marine Sciences, Chittagong University, Chattogram
Bangladesh	Mr Md Harun Or RASHID	Senior Assistant Secretary, Security Services Division, Ministry of Home Affairs, Dhaka
Bangladesh	Mr Md Farhan TAZIM	Scientific Officer, Marine Fisheries Survey Management Unit, Department of Fisheries, Chattogram
Belize	Ms Shakera R. ARNOLD	Fisheries Officer, Marine Reserves Science Manager, Ecosystems-based Management Unit, Belize Fisheries Department, Belize City
Belize	Ms Alicia ECK-NUNEZ	Fisheries Officer & Marine Reserves Operations Manager, Ecosystem-based Management Unit, Fisheries Department, Belize City
Brazil	Dr Luceni HELLEBRANDT	Researcher, Federal University of Rio Grande, São Lourenço do Sul
Brazil	Ms Katryana MADEIRA	Oceanographer, Superintendencia dos Portos do Rio Grande do Sul, Rio Grande
Brazil	Dr Mônica MATHIAS COSTA MUELBERT	Visiting Professor – Ecology, Instituto do Mar, Universidade Federal de São Paulo, Santos-SP

COUNTRY	NAME	POSITION
Brazil	Dr Eurico NOLETO FILHO	Researcher, Triatlas Project, Federal University of Rio Grande do Norte, Natal
Cameroon	Mr Armand Aime EROKO A ZINTCHEM	Graduate Student, Business Administration, Tshwane University of Technology, Pretoria
Canada	Ms CarolAnne BLACK	Consulting Science Writer, Ottawa
Canada	Ms Tess FORBES	Marine Program Coordinator, Inuvialuit Regional Corporation, Inuvik
Canada	Mr Lyndon KIRKLEY	Graduate Student, University of Ottawa, Ottawa
Canada	Mr Bryan MARTIN	Clean Ocean Engager, Maritime Aboriginal Peoples Council, Charlottetown
Dominica	Ms Wynnona JOSEPH	Senior Fisheries Officer, Fisheries Division, Roseau
Egypt	Dr Sally/Salaah ELSHALQAMY	Researcher, National Institute of Oceanography and Fisheries, Cairo
Finland	Dr Karoliina KOHO	Project Officer, BONUS EEIG/Baltic and North Sea Coordination and Support Action, Helsinki
Ghana	Lt Cdr Philip ODOI-NARH	Strategic Intelligence Analyst, Ministry of Defence (Ghana Navy), Burma Camp, Accra
Ghana	Dr Winnie N.A. SOWAH	Lecturer/Researcher, Department of Marine and Fisheries Sciences, University of Ghana, Accra
Greece <i>(in Netherlands)</i>	Dr Sofia FRANTZI	Research Consultant, Vrije Universiteit Amsterdam, Institute for Environmental Studies, Amsterdam
Grenada	Mr Raheem SMITH	Youth Climate Activist & Production Assistant, Adventure Grenada 473, Fort Jeudy
Guatemala	Ms Pilar de María VELÁSQUEZ JOFRE	Fisheries and Marine Conservation Technical Officer, WWF Guatemala/Mesoamerica, Guatemala City
Iran	Dr Razieh GHAYOUMI	Research Officer (Biodiversity), Research Centre for Environment and Sustainable Development, Department of Environment, Tehran
Kenya	Mr Alex Mwangome MWAKUNI	GMDSS Operator/Maritime SAR Officer, Kenya Maritime Authority, Mombasa

COUNTRY	NAME	POSITION
Madagascar	Mr John Bunyan ISRAEL	Graduate Student, Institut Halieutique et des Sciences Marines, & Consultant, Antananarivo
Madagascar	Ms RAZAKAMIHAJA Clarence	Monitoring, Evaluation, Research and Learning Manager, USAID Hay Tao Program, Antananarivo
Mauritius	Ms Varuna BUNWAREE GOBURDHUN	Barrister, Bunwaree Chambers, Port Louis
Mexico	Adán ARANDA FRAGOSO	Research Assistant, Socioecology and Communication for Sustainability Laboratory, Ecosystem and Sustainability Research Institute, National Autonomous University of Mexico, Morelia
Mexico	Ms Frida CISNEROS SOBERANIS	Technician, Natura y Ecosistemas Mexicanos, Mexico City
Mexico	Dr Eva CORONADO CASTRO	Assistant Professor, National Autonomous University of Mexico, Municipio de Ucu
Mexico	Mr Rodrigo MARTINEZ MORENO	Researcher, National Institute of Fisheries and Aquaculture, Colima
Mexico	Ms Adrian NÚÑEZ DIAZ	Academic Technician, Fisheries Ecology Lab, El Colegio de la Frontera Sur, Lerma
Montserrat	Mr Alwyn PONTEEN	Chief Fisheries and Ocean Governance Officer, Ministry of Agriculture, Lands, Housing and the Environment, Brades
Namibia	Mr Larkin SINVULA	Fisheries Scientist, Ministry of Fisheries and Marine Resources, Swakopmund
Nigeria	Dr AKINNIGBAGBE Ruth Oluwatoyin	Chief Research Officer, Nigerian Institute for Oceanography and Marine Research, Lagos
Nigeria	Dr Dunsin Abimbola BOLAJI	Chief Research Officer, Fishing Technology and Safety Department, Nigerian Institute for Oceanography and Marine Research, Lagos
Peru	Ms Andrea COLLANTES BIGGIO	Consultant and Educator in Marine Sciences, Biomarina, Lima
Peru	Ms Maritza Sofia SALDARRIAGA MENDOZA	Specialist – Artisanal Fisheries (demersal and coastal), Instituto del Mar del Peru, Lima

COUNTRY	NAME	POSITION
Peru	Ms Sol María VÁSQUEZ GRADOS	Student, Scientific University of Peru
Philippines	Ms Ruby NAPATA	University Research Associate, College of Fisheries and Ocean Sciences, University of the Philippines Visayas, Miagao
Russia <i>(in Germany)</i>	Ms Olga LUKYANOVA	Graduate Student, Humboldt University, Berlin
Sri Lanka	Mr S.U.P. JINADASA	Senior Lecturer in Oceanography, Ocean University of Sri Lanka, Colombo
St Lucia	Mr Charlie PROSPERE	Fisheries Biologist, Department of Fisheries, Castries
Tanzania	Mr Hafidh Ali HAFIDH	Assistant Researcher, Zanzibar University Research and Consultancy Centre, Zanzibar
Tanzania	Mr Miraji Abdallah MALINDA	Program Manager, Legal Vision Organization, Lushoto
Tanzania	Mr Japhet Bwire MANYAMA	Resident Magistrate, Lushoto
Thailand	Mr Kritrit YIBCHAROENPORN	Chief of Engineer, Aids to Navigation, Channel and Maintenance Bureau, Aids to Navigation Division, Marine Department, Bangkok
Trinidad & Tobago	Ms Janelle DANIEL	Interim Assistant Coordinator – Fisheries Inspectorate/ Fisheries Researcher, Marine Fishery Analysis Unit, Fisheries Division, Ministry of Agriculture, Land & Fisheries, Port of Spain
Trinidad & Tobago <i>(in Turks & Caicos)</i>	Ms Tyann HENRY	Environmental Officer, Department of Environment and Coastal Resources, Providenciales
Trinidad & Tobago	Mr Virun LUTCHMAN	Fisheries Inspector, Fisheries Division, Ministry of Agriculture, Land and Fisheries, Port of Spain
Trinidad & Tobago	Ms Valini RAMPERSAD	Youth Staff, Celebrity Cruises, Miami
Ukraine <i>(in Turkey)</i>	Ms Iryna MAKARENKO	Pollution Monitoring and Assessment Officer, Permanent Secretariat of the Commission on the Protection of the Black Sea Against Pollution, Istanbul

SPEAKERS

Dr François Bailet

Senior Legal Officer
Division for Ocean Affairs and Law of the Sea
Office of Legal Affairs
United Nations
New York
USA
E-mail: baillet@un.org



Dr Kristina Barclay

Postdoctoral Fellow
& Co-ordinator, MEOPAR Ocean Acidification
Community of Practice
University of Calgary
Calgary
Alberta
Canada
E-mail: kbarclay@ualberta.ca



Dr Awni Behnam

Former Assistant Secretary General
United Nations
& Honorary President
International Ocean Institute
Geneva
Switzerland
E-mail: awni.behnam@ioihq.org.mt



Mr Bob Branton

Retired Biologist / Data Manager
Department of Fisheries and Oceans
Bedford Institute of Oceanography
Dartmouth
Nova Scotia
Canada
E-mail: bob.branton@gmail.com



Dr Sean Brillant

Senior Research Fellow, IOI-Canada
& Manager, Marine Programs
Canadian Wildlife Federation
c/o Department of Oceanography
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: seanb@cwf-fcf.org



Ms Rosemarie Cadogan

Legal Adviser (Maritime Boundaries)
Trade, Oceans and Natural Resources Directorate
Commonwealth Secretariat
London
England
E-mail: r.cadogan@commonwealth.int



Dr Ratana Chuenpagdee

Senior Research Fellow, IOI-Canada
& Director, Too Big To Ignore Partnership
& Professor, Department of Geography
Memorial University of Newfoundland
St John's
Newfoundland and Labrador
Canada
E-mail: ratanac@mun.ca



Cdr Bob Edwards (ret'd)

Retired Naval Officer
Halifax
Nova Scotia
Canada
E-mail: seekayak14@gmail.com



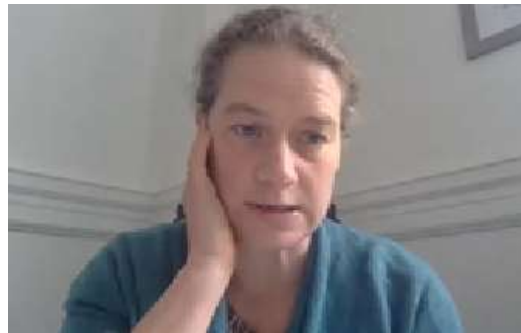
Dr Lucia Fanning

Professor Emerita
Marine Affairs Program
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: lucia.fanning@dal.ca



Dr Susanna Fuller

Senior Research Fellow, IOI-Canada
& Vice-President, Operations and Projects
Oceans North
Halifax
Nova Scotia
Canada
E-mail: susannafuller@oceansnorth.ca



Dr Jon Grant

Professor & NSERC/Cooke Industrial Research
Chair in Sustainable Aquaculture
Department of Oceanography
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: jon.grant@dal.ca



Mr David Griffiths

Senior Research Fellow, IOI-Canada
& Honorary Fellow, National Centre
for Maritime Policy Research
Bahria University, Pakistan
& Research Fellow, Centre for the Study of
Security and Development
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: david.griffiths@dal.ca



Dr Daniel E. Lane

Professor Emeritus, Telfer School of Management
University of Ottawa
& Associate Professor
Centre de Recherche Marine
Université Sainte-Anne
Petit-de-Grat, Cape Breton
Nova Scotia
Canada
E-mail: daniel.lane@usaintanne.ca



Ms Sarah MacNeil

Community Action Coordinator
Canadian Ocean Literacy Coalition
Gatineau
Quebec
Canada
E-mail: sarah@colcoalition.ca



Dr Tony George Puthucherril

Senior Research Fellow, IOI-Canada
& Research Associate, Marine & Environmental Law
Institute, Schulich School of Law
Dalhousie University, Halifax, Nova Scotia, Canada
& Associate Professor
Jindal Global Law School
Sonipat, Haryana
India
E-mail: tonygeorge00@gmail.com



Mr David Roberts

Project Development Director
Sustainable Fish Farming Canada
Centre Burlington
Nova Scotia
Canada
E-mail: davidroberts@sffc.ca



Dr Wilf Swartz

Adjunct Professor
Marine Affairs Program
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: wilf.swartz@dal.ca



Dr Christine Ward-Paige

Founder, CEO & Lead Scientist
eOceans
Volta Labs
Nova Scotia
Canada
E-mail: christine@eoceans.co



Dr Peter Wells

Senior Research Fellow, IOI-Canada
& Adjunct Professor
Marine Affairs Program
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: oceans2@ns.sympatico.ca



Mr Dirk Werle

Partner & Geoscientist
AERDE Environmental Research
Halifax
Nova Scotia
Canada
E-mail: dwerle@ca.inter.net



Ms Maxine Westhead

Section Head, Maritimes Region MPA Program
Department of Fisheries and Oceans
Bedford Institute of Oceanography
Dartmouth, Nova Scotia
& Adjunct Professor
Marine Affairs Program
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: maxine.westhead@dfo-mpo.gc.ca



Mr Hugh Williamson

Senior Research Fellow, IOI-Canada
& Adjunct Professor
Marine Affairs Program
Dalhousie University
Halifax
Nova Scotia
Canada
E-mail: hugh.r.williamson@dal.ca



IOI-CANADA CONTACT INFORMATION

International Ocean Institute
Dalhousie University
6414 Coburg Road, P.O. Box 15000
Halifax, Nova Scotia, B3H 4R2, Canada
Tel: 1 902 494 1977 • Fax: 1 902 494 1334 • E-mail: ioi@dal.ca • Web: www.dal.ca/ioihfx

STAFF

Ms Jennifer Barr
Finance Officer

Tel: 1 902 494 8018
E-mail: ioiadmin@dal.ca

Mr Michael Butler
Director & 2021 Online Course Moderator

Tel: 1 902 494 1977
E-mail: michael.butler@dal.ca

Ms Madeleine Coffen-Smout
Programme Officer

Tel: 1 902 494 6918
E-mail: madeleine.coffen-smout@dal.ca

SENIOR RESEARCH FELLOWS

Mr Paul Boudreau

E-mail: paulboudreau@dal.ca

Dr Sean Brilliant

E-mail: seanb@cwf-fcf.org

Dr Ratana Chuenpagdee

E-mail: ratanac@mun.ca

Mr Scott Coffen-Smout

E-mail: scott.coffen-smout@dfo-mpo.gc.ca

Dr Susanna Fuller

E-mail: susannadfuller@gmail.com

Mr David Griffiths

E-mail: david.griffiths@dal.ca

Dr Larry Hildebrand

E-mail: lh@wmu.se

Dr Tony George Puthucherril

E-mail: tonygeorge00@gmail.com

Dr Suzuette Soomai

E-mail: suzette.soomai@dal.ca

Dr Peter Wells

E-mail: oceans2@ns.sympatico.ca

Mr Hugh Williamson

E-mail: hrwillia@dal.ca

BOARD OF DIRECTORS

Dr Daniel Lane (Chair)

E-mail: dlane@uottawa.ca

Ms Anita Coady

E-mail: c/o ioi@dal.ca

Prof. Ian McAllister

E-mail: ian.mcallister@dal.ca

Ms Patricia Mueller Rodee

E-mail: c/o ioi@dal.ca

Mr Daniel Watt

E-mail: daniel.watt@mcinnescooper.com

Mr Dirk Werle

E-mail: dwerle@ca.inter.net