



INTERNATIONAL OCEAN INSTITUTE



**TRAINING PROGRAMME ON
*OCEAN GOVERNANCE: POLICY, LAW AND MANAGEMENT***

SYLLABUS

**20th May – 17th July, 2015
Dalhousie University, Halifax, Canada**

SUMMARY OF MODULES

MODULE 1:	<i>Orientation and Introduction to the Training Programme</i>
MODULE 2:	<i>Ocean Sciences</i>
MODULE 3:	<i>Integrated Coastal and Ocean Management</i>
MODULE 4:	<i>Fisheries and Aquaculture</i>
MODULE 5:	<i>Law of the Sea and Principled Ocean Governance</i>
MODULE 6:	<i>Communication and Negotiation</i>
MODULE 7:	<i>Maritime Security</i>
MODULE 8:	<i>Marine Transportation</i>
MODULE 9:	<i>Energy</i>
MODULE 10:	<i>International Round Table Conclusion of Training Programme</i>

SYLLABUS

MODULE 1

Orientation and Introduction to the Training Programme

Wednesday, 20th May

10.00 – 10.30	Introductions & Administrative Matters	Ms Annika van Roy (Module Leader)
10.45 – 12.00	Understanding Canada	Dr Jason Grek-Martin
1.30 – 2.45	Killam Library Tour	Ms Michelle Paon
3.00 – 4.00	Walking Tour of Upper Campus	Registrar's Office Tour Guide

Thursday, 21st May

9.00 – 10.30	Intercultural Awareness	Ms Joanne Fraser
10.45 – 12.00	Managing at University	Dr David Mensink
1.30 – 4.00	Ethical Issues in Ocean Governance	Prof. Ian McAllister

Friday, 22nd May

9.00 – 12.00	Organisation of Course Work, and Introduction to Modules & Module Leaders	Mr Mike Butler Module Leaders IOI staff
1.30 – 2.30	The Sea in Human History: the Oceanic Circle	Mr David Griffiths
2.30 – 3.00	Introduction to Simulation Exercise	Mr David Griffiths Ms Katie Short
4.00 – 6.00	Opening Ceremony	Dr Ratana Chuenpagdee All

Saturday, 23rd May

All day	Free. Optional morning trip to Farmers Market
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Sunday, 24th May

All day	Free
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MODULE 2
Ocean Sciences

Monday, 25th May

9.00 – 12.00	Introduction to Ocean Sciences, and Health of the Oceans	Dr Peter Wells (Module Leader)
1.30 – 4.00	Fundamentals of Oceanography: Part 1	Dr Bob Fournier

Tuesday, 26th May

9.00 – 12.00	Fundamentals of Oceanography: Part 2	Dr Bob Fournier
1.30 – 4.00	Land/Sea Interface: Estuarine and Coastal Waters	Dr Graham Daborn

Wednesday, 27th May

9.00 – 12.00	Climate Change	Dr John Shaw
1.30 – 4.00	Marine Biodiversity: Census of Marine Life, Ocean Biogeographic Information System, and Ocean Tracking Network	Mr Bob Branton Ms Mary Kennedy Ms Lenore Bajona

Thursday, 28th May

9.00 – 10.30	Vulnerability Assessment for Climate Change Adaptation	Dr Danika van Proosdij
10.45 – 12.00	Simulation Exercise: Session 2	Mr David Griffiths
1.30 – 4.00	Remote Sensing of the Ocean	Mr Dirk Werle
4.00 – 4.15	Module Wrap-up	All

Friday, 29th May

All day Field Trip: Bedford Institute of Oceanography

Mr Scott Coffen-Smout
Ms Jacinthe Cormier
Dr Blair Greenan
Mr Glen Herbert
Mr Marty King
Dr Youyu Lu
Mr David Martin
Ms Cathy Merriman
Mr Brian Robinson
Dr Alain Vézina
Mr Dustin Whalen
Ms Annika van Roy

Saturday, 30th May

All day Free

Sunday, 31st May

All day Free

MODULE 3
Integrated Coastal and Ocean Management

Monday, 1st June

9.00 – 12.00 Planning in Coastal Regions

Dr Patricia Manuel

1.30 – 4.00 Coastal Information Management

Mr Paul Boudreau (Module Leader)
Dr Bertrum MacDonald
Ms Sarah Chamberlain
Ms Shelby McLean
Mr Lee Wilson

Tuesday, 2nd June

9.00 – 12.00 Introduction to ICOM

Dr Lucia Fanning

1.30 – 4.00 Project Cycle

Prof. Ian McAllister

Wednesday, 3rd June

9.00 – 12.00	Ecological Economics	Dr Peter Tyedmers
1.30 – 4.00	Marine Spatial Planning	Mr Paul Macnab Mr Scott Coffen-Smout

Thursday, 4th June

10.15 – 12.00	COINAtlantic (<i>GIS Lab</i>)	Mr Andy Sherin Ms Alexi Westcott
1.30 – 4.00	Simulation Exercise: Session 3	Mr David Griffiths

Friday, 5th June

9.00 – 10.30	Ocean Weather and Forecasting	Mr Doug Mercer
10.45 – 12.00	Ocean Education and Awareness	Ms Liz Muaror-Wilson Ms Gillian Fielding Ms Anna Naylor
1.30 – 4.00	Mangroves and Human Security	Dr Brad Walters
4.00 – 4.15	Module Wrap-up	All

Saturday, 6th June

All day Free

Sunday, 7th June

All day Free

MODULE 4

Fisheries and Aquaculture

Monday, 8th June (World Ocean Day)

9.00 – 12.00	Introduction to Module and Fishery Governance Issues	Dr Tony Charles (Module Leader)
1.30 – 4.00	Fishery Science	Dr Ross Claytor

7.00 onwards	Elisabeth Mann Borgese Ocean Lecture – Panel on <i>The Ocean and You: Why Does It Matter?</i>	Dr Doug Wallace Dr Kumiko Azetsu-Scott Ms Heather Kelday Mr Bud Streeter Dr Boris Worm
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Tuesday, 9th June

9.00 – 12.00	Ecosystem-based Fishery Management	Dr Nancy Shackell Dr Ahmed Khan
1.30 – 4.00	Small-scale Fisheries	Dr Tony Charles Ms Katie Schleit

Wednesday, 10th June

9.00 – 10.30	High Seas Fisheries	Dr Susanna Fuller
10.45 – 12.00	Fisheries and Large Marine Ecosystems	Dr Barbara Paterson
1.30 – 4.00	Field Trip: Northwest Atlantic Fisheries Organisation	Mr Fred Kingston

Thursday, 11th June

9.00 – 9.45	Simulation: study period	Participants
10.00 – 10.30	Briefing: Dalhousie's Marine Affairs Program	Ms Becky Field
10.30 – 11.15	Participant Presentation	Participants
11.15 – 12.00	Coastal Communities and Fisheries: Case Study of a Brazilian Mangrove Community (documentary)	Ms Cintia Gillam
1.30 – 2.45	Marine and Fisheries Conservation	Dr Sean Brilliant
3.00 – 4.30	Participant Presentations	Participants

Friday, 12th June

9.00 – 10.30	Seafood Value Chain	Mr Lew Clancey
10.45 – 12.00	Participant Presentations	Participants
1.30 – 4.00	Aquaculture	Mr David Roberts
4.00 – 4.15	Module Wrap-up	All

Saturday, 13th June

All day Free

Sunday, 14th June

All day Free

MODULE 5 Law of the Sea and Principled Ocean Governance

Monday, 15th June

All day	Introduction to Law of the Sea	Mr Hugh Williamson (Module Leader)
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Tuesday, 16th June

9.00 – 10.30	Introduction to Law of the Sea (concl.)	Mr Hugh Williamson
10.45 – 12.00	Simulation Exercise: Session 4	Mr David Griffiths
1.30 – 4.00	Places of Refuge	Dr Aldo Chircop

Wednesday, 17th June

9.00 – 12.00	Technical Aspects of Maritime Boundary Delimitation	Mr Galo Carrera
1.30 – 4.00	Precautionary Principle	Dr Tony George Puthucherril

Thursday, 18th June

9.00 – 12.00	Polluter Pays	Mr Kenneth MacInnis, QC
1.30 – 2.45	Article 76 of UNCLOS: Applications in the Arctic	Dr David Mosher
3.00 – 4.00	Participant Presentations	Participants

Friday, 19th June

9.00 – 10.30	Salmonid Fisheries	Dr Fred Whoriskey
10.45 – 11.30	Participant Presentations	Participants

1.30 onwards	Field Trip to Bay of Fundy: Sustainable Blue Fish Farm, Evangeline Beach	Mr Kirk Havercroft Dr Graham Daborn Ms Annika van Roy
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Saturday, 20th June

All day	Field Trip to Bay of Fundy: Annapolis Royal Marsh Nature Trail, Annapolis Tidal Power Station, Fort Anne, Clean Annapolis River Project, Habitation	Dr Jon Percy Mr Leslie Smith Ms Katie McLean Dr Peter Wells Ms Annika van Roy
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Sunday, 21st June

All day	Field Trip to Bay of Fundy: Fundy Adventures, Stone Bear Tracks and Trails	Ms Wanda Van Tassel Mr Frank Meuse Ms Shalan Joudry Ms Annika van Roy
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Monday, 22nd June

All day	Field Trip to Bay of Fundy: Provincial Fisheries Presentation, Acadian Seaplants, Lunenburg Fisheries Museum, Mahone Bay	Mr Bill Whitman Ms Amber Creamer Mr Brennan Goreham Mr Kris Vascotto Mr Will Neily Ms Annika van Roy
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MODULE 6
Communication and Negotiation

Tuesday, 23rd June

9.00 – 12.00	Recuperation/Study Period	Participants
1.30 – 4.00	Introduction to Module, and Media	Mr Ian Porter (Module Leader) Prof. Kim Kierans
4.00 – 5.00	Participant Presentation	Participants

Wednesday, 24th June

9.00 – 12.00	How to Present	Mr Ian Porter Prof. Kim Kierans
1.30 – 4.00	Communications	Mr Peter MacLellan

Thursday, 25th June

All day	Interview and Presentation Skills	Prof. Kim Kierans Mr Ian Porter Mr Tim Tracey
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Friday, 26th June

9.00 – 12.00	Negotiation Theory and Practice	Mr Hugh Williamson
1.15	Class photograph	All
1.30 – 4.00	Performance Management	Mr Mike Haley
4.00 – 4.15	Module Wrap-up	All

Saturday, 27th June

All day	Free	
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Sunday, 28th June

All day	Free	
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<p style="text-align: center;">MODULE 7 Maritime Security</p>
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Monday, 29th June

9.00 – 12.00	Simulation Exercise: Session 5	Mr David Griffiths
1.30 – 4.00	Introduction to Module, and Maritime Security Issues	Mr David Griffiths (Module Leader)
4.00 – 4.30	Participant Presentation	Participants

Tuesday, 30th June

9.00 – 12.00	Emergency Management in the Coastal Zone	Ms Murielle Provost Ms Joanne Lawlor
1.30 – 2.45	Emergency Management in the Coastal Zone (cont.)	Ms Murielle Provost Dr Mélanie Fournier
3.00 – 4.00	Simulation: study period	Participants

Wednesday, 1st July

All day Free: Canada Day holiday

Thursday, 2nd July

9.00 – 10.30	Introduction to Integrated Maritime Compliance and Enforcement (IMCE)	Cdr Bob Edwards (ret'd) Mr Glen Herbert
10.45 – 12.00	IMCE Exercise	Cdr Bob Edwards (ret'd) Mr Glen Herbert
1.30 – 4.00	IMCE Exercise (cont.)	Cdr Bob Edwards (ret'd) Mr Glen Herbert

Friday, 3rd July

9.00 – 12.00	IMCE Exercise (cont.)	Cdr Bob Edwards (ret'd) Mr Glen Herbert
1.30 – 4.00	IMCE Exercise (concluded)	Cdr Bob Edwards (ret'd) Mr Glen Herbert
4.00 – 4.15	Module Wrap-up	All

Saturday, 4th July

All day Free

Sunday, 5th July

All day Free

MODULE 8
Marine Transportation

Monday, 6th July

9.00 – 12.00	Shipping Fundamentals	Mr Dick Hodgson
1.30 – 4.00	Evolution of Containerisation	Mr Jim Frost (Module Leader)

Tuesday, 7th July

9.00 – 12.00	The Human Element in International Shipping	Capt. Angus McDonald
1.30 – 4.00	Safety of Ships	Capt. Alan Knight

Wednesday, 8th July

9.00 – 10.45	Participant Presentations	Participants
11.00 – 12.00	Simulation Exercise: Session 6	Mr David Griffiths
1.30 – 2.45	Study Period	Participants
3.00 – 4.00	Introduction to Maritime Search and Rescue	Mr John Dalziel

Thursday, 9th July

9.00 – 10.30	Field Trip: Eastern Canada Response Corporation	Mr Darin Connors Ms Annika van Roy
10.30 – 11.30	Field Trip: Survival Systems Training Ltd	Mr Peter Konings Ms Annika van Roy
11.45 – 12.30	Field Trip: HMCS Sackville	Mr David Griffiths
1.00 – 4.00	Field trip: Port of Halifax – lunch, boat tour of port, lecture on Shipping Trade: Realities and Public Policy	Mr Patrick Bohan Mr Aaron Dickson

MODULE 9
Energy

Friday, 10th July

9.00 – 12.00	Introduction to Module	Dr Alain Joseph (Module Leader)
1.30 – 2.45	Introduction to Geology	Mr David Brown
3.00 – 4.00	Regulation and the Canadian Environmental Assessment Agency (CEAA)	Mr Eric Theriault

Thursday, 16th July

All day International Round Table

Dr Awni Behnam
Mr David Dzidzornu
Dr Dan Lane
Ms Katie Schleit
Mr David Griffiths
Participants

4.30 – 6.30 Closing Ceremony and Reception

All

Friday, 17th July

9.30 – 12.00 Feedback, What Next? and Closing Remarks

IOI Staff/Module Leaders
Participants