



INTERNATIONAL OCEAN INSTITUTE



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

SYLLABUS

**22nd May – 19th July, 2013
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>Law of the Sea and Principled Ocean Governance</i>
MODULE 5:	<i>Fisheries and Aquaculture</i>
MODULE 6:	<i>Communication and Negotiation</i>
MODULE 7:	<i>Maritime Security</i>
MODULE 8:	<i>Energy</i>
MODULE 9:	<i>Marine Transportation</i>
MODULE 10:	<i>International Round Table Conclusion of Training Programme</i>

SYLLABUS

MODULE 1

Orientation and Introduction to the Training Programme

Wednesday, 22nd May

10:00 – 10:30	Introductions & Administrative Matters	Ms Monique Lefebvre (Module Leader)
10.45 – 12.15	Killam Library Tour	Ms Michelle Paon
1.30 – 3.15	Managing at University	Dr David Mensink
3.30 – 4.30	Walking Tour of Upper Campus	Ms Katherine Hay

Thursday, 23rd May

9.00 – 10.30	Introductions, and Understanding Canada	Mr Michael Butler
10.45 – 12.00	Intercultural Awareness	Ms Joanne Fraser
1.30 – 4.00	Ethical Issues in Ocean Governance	Prof. Ian McAllister

Friday, 24th 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	Mr David Griffiths
2.30 – 2.45	Introduction to Simulation Exercise	Mr David Griffiths
4.00 – 6.00	Opening Ceremony	Mr Brian Flemming, QC All

Saturday, 25th May

All day Free. Optional morning trip to Farmers Market

Sunday, 26th May

All day Free

MODULE 2
Ocean Sciences

Monday, 27th May

9.00 – 12.00	Introduction to Ocean Sciences, and Health of the Oceans	Dr Peter Wells (Module Leader)
1.30 – 4.00	Introduction to Oceanography	Dr Anna Metaxas

Tuesday, 28th May

9.00 – 12.00	Land/Sea Interface: Estuarine and Coastal Waters	Dr Graham Daborn
1.30 – 4.00	Mangroves and Human Security	Dr Brad Walters

Wednesday, 29th May

9.00 – 11.30	Ocean Weather and Forecasting	Mr Doug Mercer
11.30 – 12.00	Simulation Exercise 2	Mr David Griffiths
1.30 – 4.00	Climate Change	Dr John Shaw

Thursday, 30th May

9.00 – 12.00	Remote Sensing and the Oceans	Mr Dirk Werle
1.30 – 4.00	Marine Biodiversity: Census of Marine Life, and Ocean Tracking Network	Dr Ron O’Dor Mr Bob Branton

Friday, 31st May

All day	Field Trip: Bedford Institute of Oceanography	Dr Steven Campana Mr Scott Coffen-Smout Mr Michel Goguen Mr Tim Hall Mr Paul Macnab Dr Hilary Moors-Murphy Dr David Mosher Dr Sherry Niven Dr Tom Sephton Ms Maxine Westhead
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Saturday, 1st June

All day Free

Sunday, 2nd June

All day Free

MODULE 3 Integrated Coastal and Ocean Management
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Monday, 3rd June

9.00 – 12.00	Introduction to Integrated Coastal and Ocean Management	Dr Lucia Fanning
1.30 – 2.45	Information Access for Coastal and Ocean Management	Mr Andy Sherin Ms Alexi Westcott
3.00 – 4.00	Information Management for Environmental Solutions	Dr Bertrum MacDonald Ms Suzuette Soomai

Tuesday, 4th June

9.00 – 12.00	Marine Spatial Planning	Mr Paul Macnab Mr Glen Herbert
1.30 – 4.00	Project Cycle	Prof. Ian McAllister

Wednesday, 5th June

9.00 – 12.00	Environmental Economics	Mr Scott Wood
1.30 – 4.00	Coastal Tourism (venue: Maritime Museum of the Atlantic)	Ms Heather Yule Mr Richard MacMichael

Thursday, 6th June

9.00 – 12.00	Planning in Coastal Regions	Dr Patricia Manuel
1.30 – 2.45	Coastal Framework	Mr Bill Whitman
3.00 – 4.00	Simulation Exercise 3	Mr David Griffiths

Friday, 7th June (*Elizabeth May GIS Lab, Ground Floor, Life Sciences Centre*)

9.00 – 12.00	Introduction to GIS	Mr James Boxall
1.30 – 4.00	GIS Applications	Ms Jennifer Strang Dr Eric Rapaport

Saturday, 8th June: World Ocean Day

All day Free

Sunday, 9th June

All day Free

MODULE 4
Law of the Sea and Principled Ocean Governance

Monday, 10th June

9.00 – 12.00	Introduction to Law of the Sea	Mr Hugh Williamson (Module Leader)
1.30 – 3.00	Introduction to Law of the Sea (cont.)	Mr Hugh Williamson
3.00 – 4.00	Study Period	Participants
7.00 onwards	Elisabeth Mann Borgese Ocean Lecture: <i>Communicating the Oceans</i> , and reception	Mr Nikolaus Gelpke All

Tuesday, 11th June

9.00 – 12.00	Precautionary Principle	Dr David VanderZwaag
12.15 – 12.30	Official Group Photograph	All
1.30 – 4.00	Ecosystemic Law and Management	Prof. John Duff

Wednesday, 12th June

9.00 – 12.00	Polluter Pays	Mr Kenneth MacInnis, QC
1.30 – 4.00	Equity and International Fisheries Law	Ms Cecilia Engler
6.30 onwards	Oceans Film Festival (optional)	

Thursday, 13th June

9.00 – 12.00	Maritime Boundary Delimitation	Prof. Phillip Saunders, QC
1.30 – 4.00	Participant Presentations	Participants

Friday, 14th June

9.00 – 10.45	Contemporary Issues	Mr Hugh Williamson
11.00 – 12.00	Simulation Exercise 4	Mr David Griffiths
1.30 – 4.00	Study/Networking Period	Participants

<p style="text-align: center;">MODULE 5 Fisheries and Aquaculture</p>
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Saturday, 15th June

All day	Field Trip to Bay of Fundy: Sustainable Fish Farming Canada Ltd, Grand Pré Historic Site, Annapolis Tidal Power Station	Mr Allan Archibald Mr John Charlton Dr Graham Daborn Mr Leslie Smith Mr Bruce Gurnham Ms Monique Lefebvre
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Sunday, 16th June

All day	Field Trip to Bay of Fundy: Fundy Adventures, Port Royal	Ms Wanda VanTassel Ms Monique Lefebvre
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Monday, 17th June

All day	Field Trip to Bay of Fundy: Lobster Boat Trip, Cooke Aquaculture Centre, Acadian Seaplants	Mr Chris Hudson Mr Michael Johnston Mr Todd Mosher Mr Will Neily Ms Monique Lefebvre
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Tuesday, 18th June

9.30 – 12.00	Introduction to Module, and Fishery Governance Issues	Dr Tony Charles (Module Leader)
1.30 – 2.45	Participant Presentations	Participants
3.00 – 4.30	Salmonid Fisheries	Dr Fred Whoriskey

Wednesday, 19th June

9.00 – 12.00	Community-based Fisheries	Mr Chris Milley
1.30 – 4.00	Small-scale Fisheries and Guidelines	Mr Mauricio Castrejón Ms Katie Schleit
6.30 onwards	Oceans Film Festival (optional)	

Thursday, 20th June

9.00 – 12.00	Ecosystem-based Fishery Management	Dr Tony Charles Dr Nancy Shackell
1.30 – 2.45	Species at Risk	Ms Heidi Schaefer Mr Trevor Floyd
3.00 – 4.00	Participant Presentations	Participants

Friday, 21st June

9.00 – 10.30	Seafood Value Chain	Mr Art Drysdale
10.45 – 12.00	Aboriginal Fisheries	Prof. Patricia Doyle-Bedwell
1.30 – 2.45	Simulation Exercise: Group Study Period	Participants
3.00 – 4.00	Fisheries Wrap-up	Dr Tony Charles

Saturday, 22nd June

All day Free

Sunday, 23rd June

All day Free

Monday, 24th June

9.00 – 12.00	Aquaculture	Mr David Roberts
1.30 – 4.00	Simulation Exercise 5	Mr David Griffiths

<p style="text-align: center;">MODULE 6 Communication and Negotiation</p>
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Tuesday, 25th June

9.00 – 12.00	Introduction to Module, and Media	Prof. Kim Kierans (Module Leader)
1.30 – 4.00	Interview and Presentation Skills	Prof. Kim Kierans

Wednesday, 26th June

9.00 – 12.00	Interview and Presentation Skills (cont.)	Prof. Kim Kierans Mr Tim Tracey
1.30 – 4.00	Interview and Presentation Skills: Lessons Learned	Prof. Kim Kierans Mr Tim Tracey
6.30 onwards	Oceans Film Festival (optional)	

Thursday, 27th June

9.00 – 12.00	Theory of Negotiation	Dr Gil Winham
1.30 – 4.00	Communication	Mr Peter MacLellan

Friday, 28th June

9.00 – 12.00	Preparation for Negotiation	Mr Hugh Williamson
1.30 – 3.30	Participant Presentations	Participants

Saturday, 29th June

All day Free

Sunday, 30th June

All day Free

Monday, 1st July

All day Free: Canada Day holiday

MODULE 7
Maritime Security

Tuesday, 2nd July

9.00 – 10.00	Simulation Exercise 6	Mr David Griffiths
10.15 – 12.00	Maritime Security Issues	Mr David Griffiths (Module Leader)
1.30 – 4.00	Study Period	Participants

Wednesday, 3rd 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

Thursday, 4th July

All day	IMCE Exercise (cont.)	Cdr Bob Edwards (ret'd) Mr Glen Herbert
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Friday, 5th July

All day	Emergency Management	Ms Murielle Provost Ms Joanne Lawlor
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Saturday, 6th July

All day	Free	
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Sunday, 7th July

All day	Free	
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MODULE 8 Energy

Monday, 8th July

9.00 – 12.00	Introduction to Energy Module	Dr Alain Joseph (Module Leader)
1.00 – 2.00	Introduction to Geophysics	Mr Tony LaPierre
2.15 – 3.30	Introduction to Geology	Mr David Brown
3.30 – 4.00	Participant Presentation	Participants

Tuesday, 9th July

9.00 – 10.30	Exploration and Risk	Mr Doug Gregory
10.45 – 12.00	Regulation and CEAA	Mr Eric Theriault
1.00 – 1.25	Briefing on Marine Affairs Programme (optional)	Ms Becky Field
1.30 – 2.45	Tidal Power: Technical Aspects	Mr John Woods
3.00 – 4.15	UN Agencies and International Financial Institutions	Dr Mike MacKinnon

Wednesday, 10th July

9.00 – 10.30	Wind Power	Mr Larry Leblanc
10.45 – 12.00	Solar Power	Dr Peter Allen
1.30 – 4.00	Performance Management	Mr Mike Haley

MODULE 9
Marine Transportation

Thursday, 11th July

9.00 – 12.00	Shipping Fundamentals	Mr Dick Hodgson
1.30 – 3.45	Evolution of Containerisation	Mr James Frost (Module Leader)
4.00 – 5.00	Seminar: Can We Protect High Seas Ecosystems under Current International Law? Lessons from the Sargasso Sea Project (<i>Room 104, Weldon Law Building</i>)	Dr David Freestone

Friday, 12th July

All day	Field trip: Eastern Canada Response Corporation, HMCS Sackville, Port of Halifax	Mr David Griffiths Ms Monique Lefebvre LCdr (Ret'd) Doug Thomas Mr Patrick Bohan Ms Alison Winsor Mr Jack Long
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Saturday, 13th July

All day	Simulation Exercise: Preparation of Presentations	Participants
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Sunday, 14th July

All day	Simulation Exercise: Preparation of Presentations	Participants
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Monday, 15th July

9.00 – 12.00	Human Elements of International Shipping	Capt. Angus McDonald
1.30 – 4.00	Shipping Trade Realities and Public Policy	Mr Patrick Bohan

Tuesday, 16th July

9.00 – 12.00	Safety of Ships	Capt. Alan Knight
1.30 – 4.00	Role and Record of the International Maritime Organisation (IMO)	Mr Bud Streeter

<p style="text-align: center;">MODULE 10 International Round Table Conclusion of Training Programme</p>
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Wednesday, 17th July

9.30 – 10.45	Round Table – Panel Presentations and Discussion, Introduction to Simulation & Scenario	Dr Awni Behnam Dr Daniela Diz Pereira Pinto Mr David Dzidzornu Dr Dan Lane Mr David Griffiths Participants
11.00 – 12.30	Round Table – Participant Presentations: National Oceans Policy Frameworks	Dr Awni Behnam Dr Daniela Diz Pereira Pinto Mr David Dzidzornu Dr Dan Lane Participants
2.00 – 5.15	Round Table – Participant Presentations: National Oceans Policy Frameworks (cont.)	Dr Awni Behnam Dr Daniela Diz Pereira Pinto Mr David Dzidzornu Dr Dan Lane Participants

Thursday, 18th July

9.00 – 12.00	Round Table – Working Sessions	Dr Awni Behnam Dr Daniela Diz Pereira Pinto Mr David Dzidzornu Dr Dan Lane Participants
1.30 – 2.45	Round Table – Participant Presentations: Regional Oceans Policy Framework	Dr Awni Behnam Dr Daniela Diz Pereira Pinto Mr David Dzidzornu Dr Dan Lane Participants

3.00 – 3.30 Beyond 30 Years of UNCLOS Dr Awni Behnam

3.30 Conclusion of Round Table All

4.30 – 6.30 Closing Ceremony and Reception All

Friday, 19th July

9.30 – 12.00 Feedback, What Next? and Closing Remarks
Mr Michael Butler
IOI Staff/Module Leaders
Participants