



INTERNATIONAL OCEAN INSTITUTE



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

SYLLABUS

(as of 24th May - subject to change)

**23rd May – 20th July, 2018
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>Law of the Sea and Principled Ocean Governance</i>
MODULE 4:	<i>Integrated Coastal and Ocean Management</i>
MODULE 5:	<i>Communication and Negotiation</i>
MODULE 6:	<i>Maritime Security</i>
MODULE 7:	<i>Fisheries and Aquaculture</i>
MODULE 8:	<i>Marine Transportation</i>
MODULE 9:	<i>Energy</i>
MODULE 10:	<i>Round Table Conclusion of Training Programme</i>

SYLLABUS

MODULE 1 Orientation and Introduction to the Training Programme

Wednesday, 23rd May

10.00 – 10.30	Introductions & Administrative Matters	Ms Mallory Ross (Module Leader)
10.45 – 12.00	Killam Library Tour	Ms Sarah Stevenson
1.30 – 4.00	Understanding Canada	Dr Jason Grek-Martin

Thursday, 24th 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, 25th May

9.00 – 12.00	Introduction to Training Programme	Mr Mike Butler Mr Hugh Williamson Module Leaders IOI staff
1.30 – 2.30	The Sea in Human History	Mr David Griffiths
4.00 – 6.00	Opening Ceremony	All

Saturday, 26th May

All day Free. Optional morning trip to Farmers Market and Pete's.

Sunday, 27th May

All day Free

MODULE 2
Ocean Sciences

Monday, 28th 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	Dr Myriam Lacharité

Tuesday, 29th May

9.00 – 12.00	Fundamentals of Climate Change	Mr Alexander MacDonald
1.30 – 4.00	Vulnerability Assessment and Adaptation to Climate Change	Dr Daniel Lane

Wednesday, 30th May

9.00 – 12.00	Marine Biodiversity: Census of Marine Life & Ocean Biogeographic Information System	Mr Bob Branton Ms Mary Kennedy
1.30 – 4.00	The Land-Sea Interface	Dr Graham Daborn

Thursday, 31st May

9.00 – 10.30	Participant Presentations	Participants
10.45 – 12.00	Plastics and the Ocean	Dr Tony Walker
1.30 – 4.00	Ocean Acidification and its Implications	Dr Kumiko Azetsu-Scott

Friday, 1st June

9.00 – 12.00	Simulation and Integration Exercise	Mr David Griffiths
1.30 – 3.30	Traditional Ecological Knowledge	Mr Roger Hunka Ms Katherine Sorbey
3.30 – 4.00	Module Wrap-up	Dr Peter Wells Mr Hugh Williamson Mr David Griffiths

Saturday, 2nd June

All day Free

Sunday, 3rd June

All day Free

MODULE 3
Law of the Sea and Principled Ocean Governance

Monday, 4th June

9.00 – 12.00	Introduction to Law of the Sea – Part 1	Mr Hugh Williamson
1.30 – 4.00	Precautionary Principle	Dr David VanderZwaag

Tuesday, 5th June

9.00 – 12.00	Introduction to Law of the Sea – Part 2	Mr Hugh Williamson
1.30 – 2.45	UN Agencies	Dr Wendy Watson-Wright
3.00 – 4.00	Participant Presentations	Participants

Wednesday, 6th June

9.00 – 12.00	Law of the Sea and the Arctic	Dr Tony George Puthucherril (Module Leader)
1.30 – 4.00	Technical Aspects of Maritime Boundary Delimitation	Mr Galo Carrera

Thursday, 7th June

All day	Field Trip: Bedford Institute of Oceanography	Mr Scott Coffen-Smout Dr Mary-Lynn Dickson Dr Diego Ibarra Mr Stephen Locke Dr Hilary Moors-Murphy Mr Brad Pye Mr Brian Robinson Mr Tom Rowsell Ms Tana Worcester Ms Mallory Ross
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Friday, 8th June– World Oceans Day

9.00 – 10.30	The Role of Coastal Communities in Marine Protection	Dr Susanna Fuller
10.45 – 12.00	Participant Presentations	Participants
1.30 – 2.45	Ocean Governance (<i>Video & Skype</i>)	Dr Awni Behnam (via video link)
3.00 – 4.00	Discussion and Module Summary	Mr Hugh Williamson Dr Tony George Puthucherril Mr David Griffiths
7.00 onwards	Elisabeth Mann Borgese Ocean Lecture: Panel discussion on <i>Peace and Equity in Ocean Governance – Possibility or Pipe Dream?</i>	Vice-Adm. (ret'd) Glenn Davidson Dr Susanna Fuller Mr Hugh Williamson Dr Wendy Watson-Wright (moderator)

Saturday, 9th June

All day Free

Sunday, 10th June

All day Free

MODULE 4 Integrated Coastal and Ocean Management

Monday, 11th June

9.00 – 9.15	Introduction to Module Themes	Dr Sean Brilliant(Module Leader)
9.15 – 12.00	Remote Sensing of the Ocean	Mr Dirk Werle
1.30 – 2.45	Ocean Capacity Building in South America and the Caribbean	Dr Eduardo Marone
3.00 – 4.00	Participant Presentations	Participants

Tuesday, 12th June

9.00 – 12.00	Introduction to Integrated Coastal and Ocean Management (ICOM)	Dr Lucia Fanning
1.30 – 4.00	Marine Spatial Planning and MPAs	Mr Paul Macnab Mr Scott Coffen-Smout

Wednesday, 13th June

9.00 – 12.00	GIS Web Mapping and Simulation (<i>venue: GIS Lab</i>)	Ms Jennifer Strang Mr James Boxall Mr Jeff McKenna Mr Andy Sherin Mr David Griffiths
1.30 – 4.00	Coastal Information Management	Dr Bertrum MacDonald

Thursday, 14th June

9.00 – 12.00	Project Cycle	Prof. Ian McAllister
1.30 – 4.00	Planning in the Coastal Zone	Dr Patricia Manuel

Friday, 15th June

9.00 – 10.30	Sea Level Rise and Coastal Communities	Prof. Blake Hudson
10.45 – 12.00	Ocean Education, Literacy and Awareness	Ms Anna Naylor
1.00 onwards	Field Trip to Bay of Fundy: Sustainable Blue Fish Farm, Evangeline Beach	Mr David Roberts Dr Graham Daborn Ms Mallory Ross

Saturday, 16th June

All day	Field Trip to Bay of Fundy: Annapolis Royal Marsh Nature Trail, Annapolis Tidal Power Station, Fort Anne, Annapolis Royal Market, Parker's Cove, Habitation	Dr Jon Percy Mr Leslie Smith Ms Mallory Ross
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Sunday, 17th June

All day	Field Trip to Bay of Fundy: Fundy Adventures, Port of Digby, Clean Annapolis River Project briefing	Ms Wanda VanTassel Mr Edwin Chisholm Ms Mallory Ross
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Monday, 18th June

All day	Field Trip to Bay of Fundy: Acadian Seaplants, Lunenburg Fisheries Musuem	Mr Will Neily Ms Mallory Ross
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Tuesday, 19th June

9.00 – 12.00	Ecological Economics	Dr Peter Tyedmers
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MODULE 5 Communication and Negotiation
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1.30 – 4.00	Introduction to Module, and Media	Mr Ian Porter (Module Leader)
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Wednesday, 20th June

All day	Interview and Presentation Skills	Mr Ian Porter Mr Tim Tracey
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Thursday, 21st June

9.00 – 12.00	Marine Managers and the News	Mr Ian Porter
1.00	Class photograph	All
1.30 – 4.00	Communication	Mr Peter MacLellan

Friday, 22nd June

9.00 – 12.00	Negotiation Theory and Practice	Mr Hugh Williamson Prof. Diana Ginn
1.30 – 2.45	Negotiation Exercise	Mr Hugh Williamson Prof. Diana Ginn
3.00 – 4.00	Module Summary and Integration Exercise	Mr Ian Porter Mr Hugh Williamson Mr David Griffiths

Saturday, 23rd June

All day	Free	
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Sunday, 24th June

All day Free

<p style="text-align: center;">MODULE 6 Maritime Security</p>
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Monday, 25th June

9.00 – 12.00	Emergency Management in the Coastal Zone	Ms Murielle Provost
1.30 – 4.00	Field Trip to Nova Scotia Emergency Management Office (EMO)	Mr David Griffiths Ms Murielle Provost

Tuesday, 26th June

9.00 – 12.00	Introduction to Maritime Security	Cdr Bob Edwards (ret'd) (Module Leader) Mr Glen Herbert
1.30 – 2.45	Disaster Risk Reduction: International Case Studies	Mr David Griffiths
3.00 – 4.00	Participant Presentations	Participants

Wednesday, 27th June

All day	Integrated Maritime Security Policy Exercise	Cdr Bob Edwards (ret'd) Mr Glen Herbert
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Thursday, 28th June

All day	Integrated Maritime Security Policy Exercise (cont.)	Cdr Bob Edwards (ret'd) Mr Glen Herbert
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Friday, 29th June

9.00 – 12.00	Integrated Maritime Security Policy Presentations	Participants Cdr Bob Edwards (ret'd) Mr Glen Herbert
1.30 – 2.45	Module Summary and Integration Exercise	Cdr Bob Edwards (ret'd) Mr Hugh Williamson Mr David Griffiths
3.00 – 4.00	Participant Presentations	Participants

Saturday, 30th June

All day Free

Sunday, 1st July - Canada Day

All day Free

Monday, 2nd July

All day Free – holiday in lieu of Canada Day

MODULE 7
Fisheries and Aquaculture

Tuesday, 3rd July

9.00 – 12.00	Fisheries from a Holistic Perspective	Dr Tony Charles (Module Leader)
1.30 – 2.45	Introduction to Fisheries Science	Dr Ross Claytor
3.00 – 4.00	Ecosystem- based Fisheries Management	Dr Nancy Shackell

Wednesday, 4th July

9.00 – 10.30	Policy Development	Ms Kerri Graham
10.45 – 12.00	Participant Presentations	Participants
1.30 – 4.00	Field Trip: Northwest Atlantic Fisheries Organisation	Mr Fred Kingston

Thursday, 5th July

9.00 – 12.00	Seafood Value Chain	Dr Megan Bailey
1.30 – 2.45	Community-based Fisheries	Mr Chris Milley
3.00 – 4.00	Development of Nova Scotia’s Aquaculture Policy and Legislation	Mr Brennan Goreham

Friday, 6th July

9.00 – 12.00	Aquaculture	Mr David Roberts
1.30 – 3.30	Indigenous Fisheries	Mr Ken Paul
3.30 – 4.00	Module Wrap-up and Integration Exercise	Dr Tony Charles Mr David Griffiths Mr Hugh Williamson

Saturday, 7th July

All day Free

Sunday, 8th July

All day Free

MODULE 8
Marine Transportation

Monday, 9th July

9.00 – 12.00	Shipping Fundamentals	Capt. Jim Calvesbert
1.30 – 2.45	Human Elements of International Shipping	Capt. Angus McDonald
3.00 – 4.00	Evolution of Containerisation	Mr Jim Frost

Tuesday, 10th July

9.00 – 12.00	Safety of Ships	Capt. Alan Knight
1.30 – 4.00	Port Governance and Reform	Dr Mary Brooks

Wednesday, 11th July

9.00 – 12.00	International Maritime Organisation (IMO)	Mr Bud Streeter
1.30 – 2.45	Maritime Search and Rescue	Mr John Dalziel
3.00 – 4.00	Participant Presentations	Participants

Thursday, 12th July

9.00 – 10.30	Field Trip: Eastern Canada Response Corporation	Mr Darin Connors Mr Addison Vickerd Ms Mallory Ross
10.30 – 12.00	Field Trip: Survival Systems Training Ltd	Mr Peter Konings Mr Dan Latremouille Ms Mallory Ross
1.00 – 4.00	Field Trip: Port of Halifax	Mr Patrick Bohan (Module Leader) Ms Mallory Ross

MODULE 9
Energy

Friday, 13th July

9.00 – 12.00	Introduction to Module	Dr Alain Joseph (Module Leader)
1.30 – 2.45	Geology and Energy	Mr David Brown
3.00 – 4.00	Introduction to Geophysics	Mr Kris Kendell

Saturday, 14th July

All day	Integration Exercise: Preparation of Presentations	Participants
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Sunday, 15th July

All day	Integration Exercise: Preparation of Presentations	Participants
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Monday, 16th July

9.00 – 10.30	Exploration and Risk	Ms Jennifer Matthews
10.45 – 12.00	Regulation and the Canadian Environmental Assessment Agency (CEAA)	Ms Elizabeth MacDonald
1.30 – 4.00	Tidal Power	Ms Melissa Oldreive

Tuesday, 17th July

9.00 – 10.30	Wind Power	Mr Aaron Long
10.45 – 12.00	Solar Power	Dr Peter Allen
1.30 – 2.30	Module Summary and Integration Exercise	Dr Alain Joseph Mr David Griffiths Mr Hugh Williamson
2.45 – 4.00	Study Period	Participants

<p style="text-align: center;">MODULE 10 Round Table Conclusion of Training Programme</p>
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Wednesday, 18th July

All day	Round Table	Panel Members Mr David Griffiths Participants
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Thursday, 19th July

9.00 – 12.00	Round Table	Panel Members Mr David Griffiths Participants
1.30 – 3.00	Round Table	Panel Members Mr David Griffiths Participants
4.30 – 6.30	Closing Ceremony and Reception	All

Friday, 20th July

9.00 – 12.00	Feedback, What Next? and Closing Remarks	Mr Hugh Williamson IOI Staff Module Leaders Participants
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