



INTERNATIONAL OCEAN INSTITUTE



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

SYLLABUS

**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 – 9.30	Alumna Presentation	Ms Vatosoa Rakatondrazafy
9.30 – 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 Mr Steve Cole Dr Mary-Lynn Dickson Dr Diego Ibarra Mr Stephen Locke Dr Hilary Moors-Murphy Mr Brian Robinson Mr Tom Rowsell Ms Tana Worcester Ms Mallory Ross
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Friday, 8th June– World Oceans Day

9.15 – 9.45	Participant Presentation	Participant
10.00 – 11.30	The Role of Coastal Communities in Marine Protection	Dr Susanna Fuller
11.30 – 12.00	Participant Presentation	Participant
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

<p style="text-align: center;">MODULE 4 Integrated Coastal and Ocean Management</p>
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Monday, 11th June

9.00 – 10.45	Introduction to Module Themes, Whales	Dr Sean Brilliant (Module Leader)
11.00 – 12.00	Participant Presentation	Participant
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	Planning in the Coastal Zone	Dr Patricia Manuel
1.30 – 4.00	Coastal Information Management	Dr Bertrum MacDonald Mr Simon Ryder-Burbidge Ms Rachael Cadman Mr James Ross Ms Diana Castillo

Thursday, 14th June

9.00 – 12.00	GIS Web Mapping and Simulation (venue: Killam Library 2902)	Mr James Boxall Ms Caitlin Cunningham Mr Jeff McKenna Mr Andy Sherin Mr David Griffiths
1.30 – 4.00	Project Cycle	Prof. Ian McAllister

Friday, 15th June

9.00 – 10.30	Ocean Education, Literacy and Awareness	Ms Anna Naylor
10.45 – 12.00	Sea Level Rise and Coastal Communities	Prof. Blake Hudson
1.00 onwards	Field Trip to Bay of Fundy: Sustainable Blue Fish Farm, Evangeline Beach	Mr David Roberts Mr Luc Boudreau 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 Katie McLean Ms Mallory Ross
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Monday, 18th June

All day	Field Trip to Bay of Fundy: Acadian Seaplants, Kejimkujik National Park, Lunenburg Fisheries Museum	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

Sunday, 24th June

All day Free

MODULE 6
Maritime Security

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)

Ms Erica Fleck
Ms Rhonda Matthews
Mr Marc Cayouette
Ms Murielle Provost
Mr David Griffiths

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

9.00 – 12.00 Integrated Maritime Security Policy Exercise

Cdr Bob Edwards (ret'd)
Mr Glen Herbert

1.00 – 1.25 Optional Briefing: Dalhousie's Marine Affairs Program (FASS 1115)

Ms Becky Field

1.30 – 4.00 Integrated Maritime Security Policy Exercise

Cdr Bob Edwards (ret'd)
Mr Glen Herbert

Thursday, 28th June

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

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 Ms Jana Aker Ms Dayna Bell MacCallum

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 – 2.00	Module Wrap-up and Integration Exercise	Dr Tony Charles Mr David Griffiths Mr Hugh Williamson
2.00 – 4.30	Legal Aspects of Maritime Boundary Delimitation	Prof. Phillip Saunders, QC

Saturday, 7th July

All day Free

Sunday, 8th July

All day Free

<p>MODULE 8 Marine Transportation</p>
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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 Karaline Reimer 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) Mr Alex Bohan Mr William Scholes Ms Mallory Ross

MODULE 9
Energy

Friday, 13th July

9.00 – 12.00	Introduction to Module	Dr Alain Joseph (Module Leader) Dr Wayne Grozsko
1.00 – 1.30	Legal Weakness in a Country with Two Seas and Three Coastal Zones	Dr Camilo Botero
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

Sunday, 15th July

All day Integration Exercise: Preparation of Presentations Participants

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 Wayne Groszko
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

MODULE 10
Round Table
Conclusion of Training Programme

Wednesday, 18th July

All day Round Table Dr Sean Brilliant
Dr Dan Lane
Mr Wendell Sanford
Dr Suzuette Soomai
Mr David Griffiths
Participants

Thursday, 19th July

9.00 – 12.00 Round Table

Dr Sean Brilliant
Dr Dan Lane
Mr Wendell Sanford
Dr Suzuette Soomai
Mr David Griffiths
Participants

4.30 – 6.30 Closing Ceremony and Reception

All

Friday, 20th July

9.30 – 1.00 Feedback, What Next? and Closing Remarks

Mr Hugh Williamson
Dr Arthur Hanson
IOI Staff
Module Leaders
Participants