



**INTERNATIONAL OCEAN INSTITUTE**



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

# **SYLLABUS**

**21<sup>st</sup> May – 18<sup>th</sup> July, 2014  
Dalhousie University, Halifax, Canada**

## **SUMMARY OF MODULES**

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

# SYLLABUS

## MODULE 1

### Orientation and Introduction to the Training Programme

#### Wednesday, 21<sup>st</sup> May

10:00 – 10:30	Introductions & Administrative Matters	Ms Annika van Roy (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	Registrar's Office Tour Guide

#### Thursday, 22<sup>nd</sup> May

9.00 – 10.30	Understanding Canada	Dr Mike MacKinnon
10.45 – 12.00	Intercultural Awareness	Ms Joanne Fraser
1.30 – 4.00	Ethical Issues in Ocean Governance	Prof. Ian McAllister Ms Rebecca Godbout

#### Friday, 23<sup>rd</sup> 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	Hon. Andrew Younger All

#### Saturday, 24<sup>th</sup> May

All day	Free. Optional morning trip to Farmers Market
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## Sunday, 25<sup>th</sup> May

All day Free

### MODULE 2 Ocean Sciences

## Monday, 26<sup>th</sup> 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 Bob Fournier

## Tuesday, 27<sup>th</sup> 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, 28<sup>th</sup> May

9.00 – 12.00	Climate Change	Dr John Shaw
1.30 – 4.00	Marine Biodiversity: Census of Marine Life, and Ocean Tracking Network	Dr Ron O'Dor Ms Mary Kennedy

## Thursday, 29<sup>th</sup> 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	Remote Sensing of the Ocean	Mr Dirk Werle
4.00 – 4.15	Module Summary	Dr Peter Wells

### **Friday, 30<sup>th</sup> May**

All day      Field Trip: Bedford Institute of Oceanography

Mr Scott Coffen-Smout  
Ms Jacinthe Cormier  
Mr Chris Cyr  
Mr Warren Joyce  
Mr Marty King  
Mr Keith Laidlaw  
Mr Paul Macnab  
Dr Hilary Moors-Murphy  
Dr David Mosher  
Dr Tom Sephton  
Dr Angelica Silva  
Dr Alain Vézina  
Ms Annika van Roy

### **Saturday, 31<sup>st</sup> May**

All day      Free

### **Sunday, 1<sup>st</sup> June**

All day      Free

<b>MODULE 3</b> Law of the Sea and Principled Ocean Governance
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### **Monday, 2<sup>nd</sup> June**

All day      Introduction to Law of the Sea

Mr Hugh Williamson (Module Leader)

### **Tuesday, 3<sup>rd</sup> June**

9.00 – 12.00      Legal Aspects of Maritime Boundary Delimitation

Prof. Phillip Saunders, QC

1.30 – 4.00      Technical Aspects of Maritime Boundary Delimitation

Mr Galo Carrera

### **Wednesday, 4<sup>th</sup> June**

9.00 – 12.00      Polluter Pays

Mr Kenneth MacInnis, QC

1.30 – 4.00      Climate Change, ICOM and the Role of Law

Dr Tony George Puthucherril

### **Thursday, 5<sup>th</sup> June**

9.00 – 9.30	Law of the Sea Trivia!	Ms Yvonne Edwin
9.30 – 10.45	Participant Presentations	Participants
11.00 – 12.00	Strengthening Oceans Education in Nova Scotia High Schools	Ms Lisette Wilson Ms Christine Stortini
1.30 – 2.45	Introduction to Oceanography (cont.)	Dr Bob Fournier
3.00 – 4.00	Simulation Exercise 3	Mr David Griffiths

### **Friday, 6<sup>th</sup> June**

9.00 – 12.00	Contemporary Issues in Law of the Sea	Mr Brian Flemming, QC
1.30 – 4.00	Precautionary Principle	Dr David VanderZwaag

### **Saturday, 7<sup>th</sup> June**

All day Free

### **Sunday, 8<sup>th</sup> June: World Ocean Day**

All day Free

## **MODULE 4**

Fisheries and Aquaculture

### **Monday, 9<sup>th</sup> June**

9.00 – 12.00	Introduction to Module and Fishery Governance Issues	Dr Tony Charles (Module Leader)
1.30 – 4.00	Canadian Government Fishery Science	Dr Ross Claytor
7.00 onwards	Elisabeth Mann Borgese Ocean Lecture (“Reckless Endangerment: The Gulf Oil Spill Revisited – And Why Canada Should Pay Attention”)	Dr Susan Shaw All

**Tuesday, 10<sup>th</sup> June**

9.00 – 10.30	Small-scale Fisheries	Mr Mauricio Castrejon
10.45 – 12.00	Participant Presentations	Participants
1.30 – 2.45	Climate Change and Fisheries Sustainability: the Governance Dimension	Dr Ahmed Khan
3.00 – 4.00	Fisheries and Large Marine Ecosystems: the Benguela Current of Southern Africa	Dr Barbara Paterson

**Wednesday, 11<sup>th</sup> June**

9.00 – 12.00	Ecosystem-based Fishery Management	Dr Tony Charles Dr Nancy Shackell
1.30 – 2.45	Whales	Dr Hilary Moors-Murphy
3.00 – 4.00	Marine Conservation in Canada	Dr Sean Brilliant

**Thursday, 12<sup>th</sup> June**

9.00 – 10.30	Aboriginal Fisheries	Prof. Patricia Doyle-Bedwell
10.45 – 12.00	High Seas Fisheries	Dr Susanna Fuller
1.30 – 2.45	Seafood Value Chain	Mr Lew Clancey
3.00 – 3.30	Fisheries Wrap-up	Dr Tony Charles
3.30 – 4.30	Simulation Exercise 4	Mr David Griffiths

**Friday, 13<sup>th</sup> June**

9.00 – 12.00	Aquaculture	Mr David Roberts
1.30 onwards	Field Trip to Bay of Fundy: Sustainable Blue Fish Farm, Grand Pré Historic Site, Evangeline Beach	Mr David Roberts Dr Graham Daborn Ms Annika van Roy

### **Saturday, 14<sup>th</sup> June**

All day	Field Trip to Bay of Fundy: Fundy Adventures, Port of Digby Tour, Bear River First Nations Cultural Centre	Ms Wanda VanTassel Mr Edwin Chisholm Mr Reginald Hazelton Mr Frank Meuse Ms Shalan Joudry Ms Annika van Roy
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### **Sunday, 15<sup>th</sup> June**

All day	Field Trip to Bay of Fundy: Annapolis Royal Marsh Nature Trail, Annapolis Tidal Power Station, Fort Anne, Habitation	Dr Jon Percy Mr Leslie Smith Ms Annika van Roy
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### **Monday, 16<sup>th</sup> June**

All day	Field Trip to Bay of Fundy: Acadian Seaplants, Lunenburg Fisheries Museum, Mahone Bay	Mr Will Neily Ms Annika van Roy
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<p style="text-align: center;"><b>MODULE 5</b> Communication and Negotiation</p>
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### **Tuesday, 17<sup>th</sup> June**

9.30 – 12.00	Introduction to Module, and Media	Mr Ian Porter (Module Leader) Prof. Kim Kierans
1.30 – 4.00	Communications	Mr Peter MacLellan
4.00 – 4.30	Marine Protected Areas	Dr Elizabeth De Santo
7.00 onwards	Oceans Film Festival (optional)	

### **Wednesday, 18<sup>th</sup> June**

9.00 – 12.00	Interview and Presentation Skills	Prof. Kim Kierans Mr Ian Porter Mr Tim Tracey
12.00	Class photograph	All



1.30 – 4.00 Interview and Presentation Skills (cont.)

Prof. Kim Kierans  
Mr Tim Tracey

7.00 onwards Oceans Film Festival (optional)

### **Thursday, 19<sup>th</sup> June**

9.00 – 12.00 Negotiation Theory

Dr Gil Winham

1.30 – 4.00 Preparing for Negotiation

Mr Hugh Williamson  
Prof. Diana Ginn

**MODULE 6**  
Integrated Coastal and Ocean Management

### **Friday, 20<sup>th</sup> June**

9.00 – 12.00 Introduction to ICOM

Dr Larry Hildebrand

1.30 – 4.00 Information Management

Mr Paul Boudreau (Module  
Leader)  
Dr Bertrum MacDonald  
Ms Suzuette Soomai  
Mr James Ross  
Mr Lee Wilson

### **Saturday, 21<sup>st</sup> June**

All day Free

### **Sunday, 22<sup>nd</sup> June**

All day Free

### **Monday, 23<sup>rd</sup> June**

9.00 – 12.00 Planning and Coastal Regions

Ms Alison Evans

1.30 – 4.00 Project Cycle

Prof. Ian McAllister

**Tuesday, 24<sup>th</sup> June**

9.00 – 10.30	Nova Scotia Coastal Policy	Ms Ashley Sprague
10.45 – 12.00	Simulation Exercise 5	Mr David Griffiths
1.30 – 2.45	Environmental Economics	Dr Peter Burton
3.00 – 4.00	Participant Presentations	Participants

**Wednesday, 25<sup>th</sup> June**

9.00 – 12.00	Marine Spatial Planning	Mr Paul Macnab Mr Scott Coffen-Smout
1.30 – 4.00	Coastal Tourism ( <i>venue: Maritime Museum of the Atlantic</i> )	Mr Richard MacMichael Ms Jenny Nodelman

**Thursday, 26<sup>th</sup> June** (*venue: Room 4001, Rowe Building*)

9.00 – 12.00	Introduction to GIS	Mr James Boxall
1.30 – 4.00	GIS Applications	Mr James Boxall

**Friday, 27<sup>th</sup> June**

9.00 – 10.30	Information Networks and Web-based Tools	Mr Andy Sherin Ms Alexi Westcott
10.45 – 12.00	Salmonid Fisheries	Dr Fred Whoriskey
1.30 – 4.00	Extreme Marine Events: the Science, the Impacts, and the Geo-ethics	Dr Eduardo Marone

**Saturday, 28<sup>th</sup> June**

All day      Free

**Sunday, 29<sup>th</sup> June**

All day      Free

**MODULE 7**  
Maritime Security

**Monday, 30<sup>th</sup> June**

9.00 – 10.30	Maritime Security Issues	Mr David Griffiths (Module Leader)
10.45 – 12.00	Simulation Exercise 6	Mr David Griffiths
1.30 – 4.00	Participant Presentations and Study Period	Participants

**Tuesday, 1<sup>st</sup> July**

All day          Free: Canada Day holiday

**Wednesday, 2<sup>nd</sup> 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, 3<sup>rd</sup> July**

All day          IMCE Exercise (cont.)          Cdr Bob Edwards (ret'd)  
Mr Glen Herbert

**Friday, 4<sup>th</sup> July**

9.00 – 12.00	Emergency Management	Mr David Griffiths Ms Joanne Lawlor
1.30 – 4.00	Emergency Management (cont.)	Mr David Griffiths

**Saturday, 5<sup>th</sup> July**

All day          Free

## Sunday, 6<sup>th</sup> July

All day          Free

<p style="text-align: center;"><b>MODULE 8</b> Marine Transportation</p>
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## Monday, 7<sup>th</sup> July

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

## Tuesday, 8<sup>th</sup> July

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

## Wednesday, 9<sup>th</sup> July

9.00 – 12.00	Role and Record of the International Maritime Organisation (IMO)	Mr Bud Streeter
1.30 – 2.00	Optional Briefing: Dalhousie's Marine Affairs Program	Ms Becky Field
2.00 – 4.00	Participant Presentations and Study Period	Participants

## Thursday, 10<sup>th</sup> July

All day	Field trip	
9.00 – 12.00	Eastern Canada Response Corporation, HMCS Sackville	Mr Darin Connors Ms Annika van Roy
12.15 – 1.30	Port of Halifax: lunch	All
1.30 – 2.45	Tour of Port of Halifax	Mr Patrick Bohan Capt. Deidre Lewis
2.45 – 4.00	Shipping Trade: Realities and Public Policy	Mr Patrick Bohan

**MODULE 9**  
Energy

**Friday, 11<sup>th</sup> 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 CEAA	Mr Eric Theriault

**Saturday, 12<sup>th</sup> July**

All day	Simulation Exercise: Preparation of Presentations	Participants
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**Sunday, 13<sup>th</sup> July**

All day	Simulation Exercise: Preparation of Presentations	Participants
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**Monday, 14<sup>th</sup> July**

9.00 – 10.30	Exploration and Risk	Mr Doug Gregory
10.45 – 12.00	Introduction to Geophysics	Mr Kris Kendell
1.30 – 2.45	Tidal Power: Technical Aspects	Mr John Woods
3.00 – 4.00	Tidal Power: Biological Aspects	Ms Anne-Marie Belliveau

**Tuesday, 15<sup>th</sup> July**

9.00 – 10.30	Wind Power	Mr Kevin Doucette
10.45 – 12.00	Solar Power	Dr Peter Allen
1.30 – 2.30	The Challenge of Ocean Governance in Areas Beyond National Jurisdiction (ABNJ)	Dr Awni Behnam
2.30 – 4.00	Study Period	Participants

**MODULE 10**  
International Round Table  
Conclusion of Training Programme

**Wednesday, 16<sup>th</sup> July**

9.00 – 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
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
1.30 – 4.45	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, 17<sup>th</sup> 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 – 3.30	Round Table – Participant Presentations: Regional Oceans Policy Framework	Dr Awni Behnam Dr Daniela Diz Pereira Pinto Mr David Dzidzornu Dr Dan Lane Participants
3.30	Conclusion of Round Table	All
4.30 – 6.30	Closing Ceremony and Reception	All

**Friday, 18<sup>th</sup> July**

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