



International Ocean Institute  
African Region

CBC Building, Kirstenbosch  
Rhodes Drive, Newlands  
Cape Town, South Africa  
Tel: +27 (0)21 799 8491  
Website: [www.ioisa.org](http://www.ioisa.org)

# Course in Ocean Governance for Africa 2016 Course Report



Kirstenbosch, Cape Town, South Africa

12<sup>th</sup> September - 7<sup>th</sup> October 2016



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## A NOTE FROM THE DIRECTOR

As we settle into the annual rhythm of running the Ocean Governance Course for Africa, we are encouraged by the increasing interest, positive feedback and apparent impact being generated through all those involved. This collaborative endeavor is bringing together the good will of many like-minded institutions and experts, with a view to achieving positive steps towards a common future vision. Of course it would not be possible without the core funding support of the Ocean Science Research Foundation, as well as the significant supplemental bursary funding provided by the South African International Maritime Institute. In 2016 we once again were able to provide bursaries to all African participants, and made extra effort to include participants from new countries that had not been previously represented on the course.

We are continually updating and restructuring the course and pursuing innovative pedagogic approaches where relevant. This year we decided to slightly relax the intensity of the lecturing schedule to allow more time for interaction with lecturers, as well as digestion and discussion of the core issues. We also introduced a new discussion forum at the end of each week, which is intended to morph into an online version to allow for integration with course alumni and the public.

We were very fortunate to be able to host the Director of IOI-Nigeria for a week of the course, and to explore increased collaboration within the West African sub-region. We are aiming to expand our collaborative approach to capacity development in the sub-region in the future. Similarly, we are looking forward to increased connectivity and integration with the other long-established and newly-developed ocean governance courses in the global IOI network.

Already our work has begun in preparing for next year's course delivery, which is taking shape with exciting new partnerships and possibilities. I'm very much looking forward to the next steps in growing our capacity within Africa to develop robust and sustainable relationships with the oceans.

Adnan Awad



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### INTRODUCTION

The International Ocean Institute (IOI) maintains a focus on training and capacity building programs through its global network of centers and affiliated training courses. The IOI-SA, based in Cape Town, South Africa is involved in project development and implementation especially as related to capacity development for the African region. As the designated African Regional Training Center for the International Ocean Institute, the IOI-SA developed and established the annual Training Course in Ocean Governance for Africa in 2013. The course is modeled on the structure and content of other IOI ocean governance courses in Halifax and Malta, and designed to meet the needs of the continent as a whole with respect to particular Ocean Governance challenges.

2016 marked the third delivery of the Course in Ocean Governance for Africa, which was run in partnership with the South African National Biodiversity Institute (SANBI) and the South African International Maritime Institute (SAIMI), from the 12<sup>th</sup> September to the 7<sup>th</sup> October 2016. The interest from around the continent and the world, in the form of applicants, has escalated each year since its inception. This year 74 applications from 22 countries were received. It was a challenge to select the participants, and although 20 participants were selected and approved for funding support, only 15 were able to attend. Those 15 delegates represented nine countries including, for the first time, two self-funded participants from outside of Africa.

The participants came from a diverse range of disciplines and backgrounds. Lectures were delivered by over 40 regional and local experts from over 25 institutions and each week included at least one field trip to a local point of interest. This year, the schedule also provided time for group discussion sessions and feedback on topics that had been covered during the week. Field trips and lectures corresponded to one of five major themes that ran throughout the course:

Module 1: Oceans and Coasts – Opportunities and Threats

Module 2: The Governance Framework

Module 3: Governance Tools



Module 4: Governance in Action

Module 5: Creating a Supportive Environment for the Management of Oceans and Coasts



### THE TRAINING PROGRAM

The goal of the course is to meet the ongoing needs within the African region for awareness and training related to the various disciplines associated with ocean governance. The course aims to contribute to developing a network of practitioners or “Ocean Ambassadors” that will continue to work towards and promote responsible, knowledge-based ocean governance throughout Africa. While the course highlights the importance of the global governance framework, it has a regional focus, emphasizing the benefits of harmonizing ocean policies that promote a shared, integrated and common approach to ocean management in Africa.

The course includes legal, institutional and technical aspects of ocean governance, with an emphasis on implementation, as this is a common shortcoming in capacity for environmental regulation in many African countries. The Ocean Governance course covered a wide range of topics from shipping, to marine biodiversity and climate change. This was intended to provide participants with at least a basic understanding of these subjects, their inter-related nature, and the opportunity to engage with local and regional experts with each field.





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The IOI-SA is highly appreciative to our two partner organizations, SANBI and SAIMI, for their contributions towards the course, and for their welcoming address to the participants. This year we were excited to have participation from regional experts from the East and West Coasts of Africa. Professor Magnus Ngoile from the University of Dar Es Salaam delivered guest lectures and assisted with the course facilitation during the first week of the course. This culminated on the Friday in a

coordinated discussion session on Africa's participation in International Conventions. Dr. Mabel Yarhere, Director of IOI-Nigeria, delivered lectures during the second week of the course, and assisted with facilitation and discussions, neatly summarizing the topics of the week in the group discussion on the Friday of the second week. In the third week of the course, IOI-SA Director, Adnan Awad continued the facilitated Friday discussion sessions, and asked the participants to name three topics that have stood out for them from the week's lectures and provide recommendations on how to face challenges associated with one of those topics. [The group discussion sessions output are posted on the IOI-SA website.](#)



The course schedule was intensive and we are grateful to the many lecturers that gave up their time to deliver presentations of a very high standard. The participants appreciated the opportunity to engage with the experts, and vice versa. We are proud of the fact that three of the expert lectures were presented by IOI-SA Course in Ocean Governance alumni from 2015 (Sibongile Manzana-Sauchera, Siyasanga Miza) and 2013 (Ravi Naicker). Continuity with other course alumni throughout Africa has also been maintained.

The field trips formed an integral part of the technical course schedule, as well as providing the participants a change of scenery, and a chance to stretch their legs and visit some of the world-famous Western Cape sights. The excursions to False Bay in week two and Saldanha, Langebaan and the West Coast National Park in week 3, helped the participants prepare for their group exercises in Marine and Spatial Planning (MSP). MSP is an increasingly important tool for ocean



governance in Africa. The participants were divided into two groups and tasked with reporting back on a marine spatial plan for their assigned areas (Bays). The participants produced and presented a comprehensive plan that illustrated the need for compromise and debate in marine spatial planning. The presentations were marked and prizes were given based on the merits of the group work and deliver.

#### Field Trip to Saldanha Bay, Langebaan Lagoon and West Coast National Park

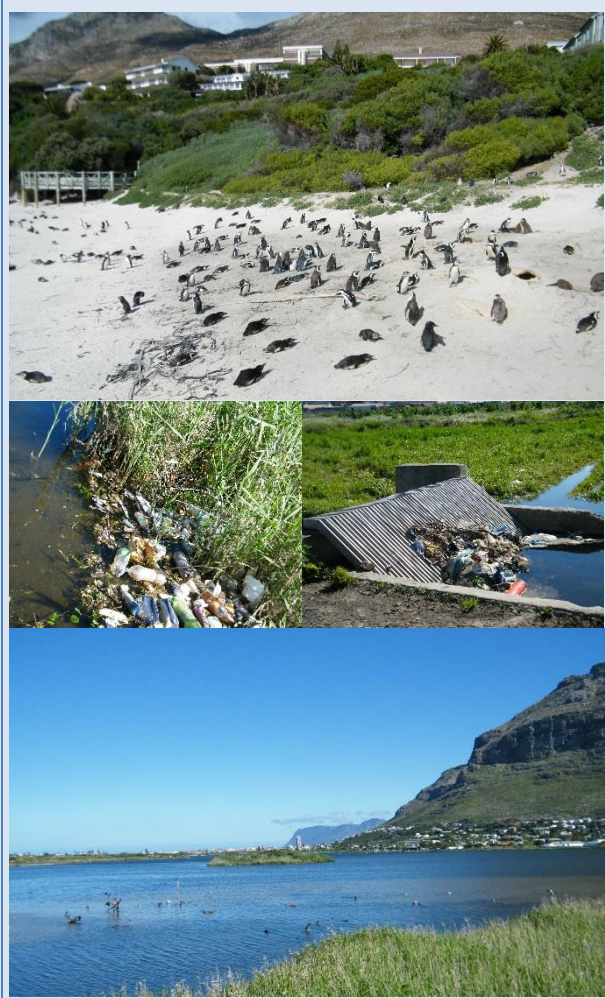
The day began with a visit to the Port of Saldanha's Port Control Building. The building provides an excellent viewing point to observe the many activities taking place in the port and provided impetus for discussion around the possible points of conflict and collaboration for different user groups, as well as the environmental concerns and considerations. A port representative, Pilot Salma, was there to discuss the practicalities of shipping in the Port of Saldanha. A visit to facilities of Saldanha Bay Oysters (small industry producing oysters and mussels) allowed participants to understand the impacts of marine pollution, wave action and water quality on mariculture in Saldanha Bay, as well as developing an appreciation for the social and community aspects of this sector. From there, we visited the beach at Langebaan Lagoon to see firsthand the impacts of coastal erosion and the strategies being used to mitigate it. Finally, we visited the West Coast National Park, a RAMSAR wetland area, to hear from the SANParks Conservation team about the challenges and opportunities associated with managing the park and marine protected area. There was time for a quick visit to the Geelbek bird hide before heading back to Cape Town.



From top: Langebaan lagoon, Saldanha Bay Oysters, view of Saldanha Bay from Port Control and West Coast National Park, Geelbek bird hide.

### Field Trip to Boulders Beach Penguin Colony, Zandvlei Wetland and Muizenberg Beach.

The African Penguin is an Endangered species but the Boulders Beach colony was only founded in 1983, in an already established residential area. It is an example of a successful conservation area that is a significant tourist attraction and income generator in a developed coastal environment. The participants were able to compare the formal conservation area with the parts of the colony that currently have no formal conservation and discuss the challenges in each area. From there, we visited Zandvlei Wetland Reserve and Education Centre to discuss wetland conservation and challenges related to development pressures. In addition to the pollution entering the wetland area from urban and residential areas upstream, the wetland is impacted by eutrophication which results in excessive algal growth that is expensive to manage. The wetland needs to incorporate the needs of residents and recreational users in their conservation plans. The mouth of the river is also opened and closed artificially at Muizenberg Beach which was the last stop for the participants on this field trip.



From top: Boulders Beach, Zandvlei – plastic waste in the wetland and mitigation methods.

Along with an intensive lecture schedule, the participants were each required to give a short presentation of their own work and participate in various group discussions and exercises including a Regional Policy Exercise. This group exercise was initiated during the first week and continued throughout the four-week period, with final presentations on the final day of the course. The Regional Policy Exercise required participants to split in to two groups corresponding to the East and West coast of Africa. Each group had to familiarize itself with the appropriate regional convention for the sub-region (Nairobi or Abidjan Convention) and then pick three or four components of the Convention (e.g. Protocols) on which they would provide detailed policy recommendations to support a Regional Oceans Policy. The group exercises not only put





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participants in roles that were challenging in their unfamiliarity, but also exposed participants to some of the real-life hurdles involved in working within a group of people from different backgrounds and knowledge bases. Both groups took the task seriously and produced an informative report and presentation. [The final reports are also available on the IOI-SA website.](#) An Expert Panel assessed the presentations and gave each group constructive feedback.

An essential feature of the course is the opportunity for participants with diverse backgrounds from all over Africa to engage with each other, exchange ideas and realize a common goal for Ocean Governance throughout Africa. A social program helps cement these relationships. The opening day included an ice-breaker event held at the IOI-SA location at SANBI. The following Saturday the group were privileged to join PlasticSA's International Coastal Clean Up Day operation on Robben Island, a significant Heritage Site in South Africa. They worked hard, battling strong winds to pick up litter on the shore and were rewarded by a tour of the Prison conducted by a previous political prisoner and lunch in what used to be the prison that held the non-political prisoners on the island. On September 24<sup>th</sup>, a course "braai" (South African barbeque) was organized to celebrate South Africa's "Heritage Day" or what has been locally nicknamed "Braai-day". In the final week of the course, when participants were frantically trying to finish up their regional policy exercise and process the information they had received over the previous weeks, a half-day outing was arranged where they could choose to either go on a Seal Island boat cruise from Hout Bay or explore Cape Point National Park and the Cape of Good Hope.

The 2016 course was concluded on 7 October with the formal issuing of well-deserved Certificates of Completion for each of the new Ocean Ambassadors.





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### THE SCHEDULE

#### Monday 12<sup>th</sup> September

Opening Address	Adnan Awad	IOI-SA
Welcome by IOI President Awni Behnam	Read by Adnan Awad	IOI
Introduction to Course Partner, SAIMI	Samantha Venter	SAIMI
Introduction to Course Partner, SANBI	Carmel Mbizvo	SANBI
Introduction to IOI-SA	Adnan Awad	IOI-SA
Introduction to course and logistics		
What is Ocean Governance		
Science and Governance	Magnus Ngoile	University of Dar Es Salaam



#### Tuesday 13<sup>th</sup> September

Module 1: Oceans and Coasts – Opportunities and Threats		
The Conservation of Sharks and Rays under the Bonn Convention	Andrea Pauly	Participant Presentation – UNEP/CMS
Marine Invasive Species	Charles Griffiths	University of Cape Town
Ocean Ecosystems Under Global Change	Coleen Moloney	University of Cape Town
Marine Debris	John Kieser	PlasticsSA
Field Trip to City of Cape Town's Kraaifontein Manual Recovery Unit		

#### Wednesday 14<sup>th</sup> September

Module 2: The Governance Framework		
UNCLOS	Patrick Vrancken	Nelson Mandela Metropolitan University
Areas Beyond National Jurisdiction	Michael Kabai	Department of International Relations and Cooperation of South Africa
SAMREF: A platform for marine industry-academic collaboration	Nicole du Plessis	Participant Presentation - SAMREF





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## Thursday 15<sup>th</sup> September

Module 2: The Governance Framework		
Ocean Governance Issues from a local government perspective	Susan Mosdell	Participant Presentation – City of Cape Town
International Regulatory Framework	Group Discussion	
Regional Regulatory Framework	Magnus Ngoile	University of Dar es Salaam
Ocean Energy	Video Discussion	

## Friday 16<sup>th</sup> September

Module 4B: Offshore Mining, Energy and Climate Change		
The marine Environmental baseline of the Democratic Republic of Congo	Ankao Camille Iyaka	Participant Presentation – Environmental Ministry
Offshore mining	Saul Roux	Centre for Environmental Rights
Marine Protected Areas	Kerry Sink	SANBI
Offshore Oil and Gas	Jessica Courtoreille	PetroSA
Group Discussion Session	Magnus Ngoile	University of Dar es Salaam
Introduction to Group Exercise on Regional Ocean Policy	Magnus Ngoile	University of Dar es Salaam



## Monday 19<sup>th</sup> September

Module 4C: Marine Living Resources		
Introduction to IOI-Nigeria	Mabel Yarhere	IOI-Nigeria
Threats to Biodiversity	Siyasanga Miza	SANBI
Equitable access to Natural Resources	Philile Mbatha	University of Cape Town
Indicators of social well-being	Mafaniso Hara	University of Western Cape
Module 5: Creating a Supportive Environment		
Stakeholder engagement/ Awareness-raising and capacity building	Leticia Greyling	Rhodes University and IOI-SA Associate
Cooperative Governance	Nyanisa Tshaya	Participant Presentation – Western Cape Government



## Tuesday 20<sup>th</sup> September

Module 3: Governance Tools		
<i>Oceanographer: from science to the "real" world</i>	Ana Martinelli	Participant Presentation
Use of technical tools in governance: Remote Sensing	Melanie Luck-Vogel	CSIR
Modelling	Roy van Ballegooyen	WSP   Parsons Brinckerhof
An introduction to NIOMR	Mabel Yarhere	IOI-Nigeria
Module 4B: Offshore Mining, Energy and Climate Change		
Climate change and Mitigation	Mike Lucas	University of Cape Town
Module 4C: Marine Living Resources		
<i>Analysis of environment parameters effects on the distribution of Tuna in the EEZ of Madagascar: coupling remote sensing and catch data</i>	Marcellin Tsihoboto Roandrianasola	Participants Presentation - Ministry of Halieutic Resources and Fisheries
<i>Deep sea fishery in TANZANIA</i>	Peter Shunula	Department of Fisheries

## Wednesday 21<sup>st</sup> September

Field Trip		
Field Trip to Boulders Beach Penguin Colony, Muizenberg Beach and Zandvlei Estuary		IOI-SA
Overview of CBD – Marine Programme	Lynn Jackson	IOI-SA
An introduction to management of Zandvlei Estuary	Josh Gerieke	City of Cape Town



## Thursday 22<sup>nd</sup> September

Module 4C: Living Marine Resources		
Regional Oceanography	Mike Roberts	Nelson Mandela Metropolitan University
Living Marine Resources	Kevern Cochrane	Rhodes University
Aquaculture		
Fisheries International and Regional Agreements		
Group Exercise on Regional Ocean Policy	Mabel Yarhere and Lynn Jackson	IOI

## Friday 23<sup>rd</sup> September

Module 4C: Living Marine Resources		
The Marine Stewardship Council in Africa	Michael Marriot	Marine Stewardship Council
Threats from fisheries & the WWF/SASSI programme	John Duncan	WWF
Invasive Alien Research in South Africa	Siyasanga Miza (delivered by Shannon Hampton)	SANBI
Group discussion	Mabel Yarhere	IOI-Nigeria
SONIC SEA – Movie and Discussion		C/O SANBI and DEA
Small-scale fisheries	Merle Sowman	University of Cape Town





Small-scale fisheries in Nigeria	Mabel Yarhere	IOI-Nigeria
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## Monday 26<sup>th</sup> September

Module 4A: Maritime Activities		
The Abalobi Project	Serge Raemakers	University of Cape Town
Management of shipping as a pathway for MIS	Adnan Awad	IOI-SA
The Ocean and the Oil (Spill)	<i>Lelly-Saime Uukule</i>	Participant Presentation – Ministry of Works and Transport
Oil spill contingency planning and response	Lynn Jackson	IOI-SA
Dumping at sea		
Group Exercise on Regional Ocean Policy	Adnan Awad and Lynn Jackson	IOI-SA

## Tuesday 27<sup>th</sup> September

Module 4A: Maritime Activities		
Port Management	Michael Melato	Transnet Ports Authority
Maritime security	Tony Cole	King Cole Marine
MARPOL Annex VI	Ravi Naicker	SAMSA
Flag/port state control	Bill Dernier	
Marine Capital Accounting/Resource Economics	Stephen Hosking	Cape Peninsular University of Technology

## Wednesday 28<sup>th</sup> September

Field Trip	
Field Trip to Port of Saldanha, Langebaan Beach and West Coast National Park	IOI-SA



## Thursday 29<sup>th</sup> September

Module 1: Opportunities and Threats		
Visit and behind the scenes tour of Two Oceans Aquarium	Nurudean Ssempe	Two Oceans Aquarium
<i>Conservation Work at Two Oceans Aquarium</i>		
Module 4F: Regulation of Land-based Activities		
Land based sources of pollution	Lynn Jackson	IOI-SA
Module 2: The Governance Framework		
National Framework and Ocean Policy	Radia Razack	DEA



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### Friday 30<sup>th</sup> September

Module 5: Creating a Supportive Environment		
SANBI Marine Programme Unit	Nwabisa Malongweni	Participant Presentation - SANBI
Working with Human Values and Behavior to Address Societal Issues	Robert Zipplies	Common Cause – South Africa
Legal Aspects of Climate Change and National Oceans Bill	Jan Glazewski	University of Cape Town
Journey from Freshwater to Marine	Mpho Mmethi	Participant Presentation - SANBI
Group Discussion Session	Adnan Awad	IOI-SA
The Blue Economy	Ken Findlay	Cape Peninsular University of Technology

### Monday 3<sup>rd</sup> October

Module 4E: Integrated Coastal Zone Management		
<i>Issues in Coastal Zone Management: The Africa Continent</i>	Yemi Akegbejo-Samsons	Participant Presentation - Federal University of Agriculture
An overview of ICM in South Africa	Niel Malan	Department of Environmental Affairs
Module 3: Governance Tools		
Introduction to Marine Spatial Planning: Overview of Essential Steps and Benefits of MSP for Ocean Management	Adnan Awad	IOI-SA
<i>A spatial analysis of South African fisheries to secure sustainability</i>	Jodie Reed	Participant Presentation - NMMU
Group Exercise on Marine Spatial Planning	Adnan Awad	IOI-SA

### Tuesday 4<sup>th</sup> October

Module 3: Governance Tools		
<i>Deep water fish community structure of Kwa-Zulu Natal used to inform Marine Spatial Planning</i>	Nokuthula Daweti	Participant Presentation - NMMU
MSP in Benguela Region	Sibongile Manzana-Saruchera	GIZ
MSP and tourism	Peter Myles	Tournet
Marine Spatial Planning Exercise Workshop	Adnan Awad	IOI-SA

### Wednesday 5<sup>th</sup> October

Round Table	
Participants deliver Marine Spatial Planning Exercise	Round Table
Tourism afternoon to Hout Bay and Cape Point	





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Thursday 6<sup>th</sup> October

Module 2: The Governance Framework		
Regional Ocean Policy Exercise Workshop	Adnan Awad and Lynn Jackson	IOI-SA
Large Marine Ecosystems	David Vousden	Rhodes University
A recap of the essential elements to Ocean Governance		

Friday 7<sup>th</sup> October

Round Table		
Participants Deliver Regional Ocean Policy Workshop	Round Table	IOI-SA
Closing Remarks	Adnan	
Presentation of Certificates	Awad	
Lunch and Visit to Kirstenbosch Botanical Gardens		



2016 Ocean  
Ambassadors





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### THE 2016 OCEAN GOVERNANCE COURSE ALUMNI



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## COURSE PARTNERS:

We are very grateful to our two partner organizations for their support for the 2016 Course in Ocean Governance.



The South African International Maritime Institute (SAIMI) was formed in 2014 and is based in Nelson Mandela Bay. It aims to facilitate the development of the skills and knowledge base required to ensure the success of maritime economic development initiatives such as Operation Phakisa (South Africa) and the African Union's African Integrated Maritime Strategy. SAIMI serves South Africa and the African Continent by promoting skills development, education, training and research in support of the Blue Economy.



The South African National Biodiversity Institute (SANBI) leads and coordinates research, and monitors and reports on the state of biodiversity in South Africa. The institute provides knowledge and information, gives planning and policy advice and pilots best-practice management models in partnership with stakeholders.



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The course would not have been possible without the input of our regional and local experts from various institutions. We are very grateful for their time and contribution to Course.



**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA



**international relations  
& cooperation**

Department:  
International Relations and Cooperation  
REPUBLIC OF SOUTH AFRICA



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