Capacity Building in Ocean Governance and Marine Resource Management

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International Ocean Institute
c/o Center for Tropical Marine Ecology
The IOI

• Founded in 1972 by Prof. Elizabeth Mann Borgese, as an
  – independent
  – non-governmental
  – international
  – non-profit

• organization with its Headquarters in Malta under an agreement with the Government of Malta.
• To ensure the sustainability of the Ocean as “the source of life”, and to uphold and expand the principle of the common heritage as enshrined in the United Nations Convention on the Law of the Sea.

• To promote the concept of Pacem in Maribus peace in the Ocean and its management and conservation for the benefit of future generations.
The network consists of 23 Operational Centres grouped into 5 geographical regions.
• Ocean Policy Research & Development
• Awareness & Communication
• Training & Capacity Building
  – Pursued under the brand „OceanLearn“
Training Programme on

OCEAN GOVERNANCE: POLICY, LAW AND MANAGEMENT

IOI-Canada, Dalhousie University
Halifax, Nova Scotia
Course Overview

• Intensive, interdisciplinary, eight-week course conducted annually at Dalhousie University

• Primarily for developing country professionals working in ocean and coastal-related fields

• The 30th anniversary of the course is in 2010.

• Typical class size of nine men and nine women from 15-18 countries

• Held in Halifax, home to one of the world’s highest concentrations of marine specialists

• Over 600 alumni from more than 100 countries
Course Description

• **Format:** Lectures, exercises and simulations, individual and group presentations, international roundtable, field trips

• **Topics:** Key issues in Ocean Science, Law of the Sea, Integrated Coastal and Ocean Management, Fisheries and Aquaculture, Marine Transportation, Maritime Security, Energy and Informatics

• **Skills-development Sessions:** Negotiation, Project Cycle Management, Disaster Planning, Media, Communications

• **Lecturers:** Up to 80 local and international experts and practitioners
IOI Malta Course Profile

- 5 weeks intensive course; running annually since 2005
- Accredited by the University of Malta
- Targeting Mediterranean, Black, Caspian and Baltic Seas
- Focusing on Eastern Europe and EU neighbourhood countries
- Strong faculty: 10 foreign + 16 local
- Supported by a number of sponsor organisations including the EC
Course Focus

Holistic approach to ocean governance and the need to align practices to the evolving global environment in the light of advances in science and technology.

Builds on the legal framework and the linkages between the natural, social and economic sciences to the development of sustainable ocean governance in the regional seas adjacent to Europe.

The support of technology to enable the realistic achievement of ocean management and sustainable development.

Internationalizes the EU Integrated Maritime Policy.
Course Outcomes

Trained 100 participants

Target: mid-career professionals

Mix of:

✓ Lawyers
✓ Scientists
✓ Engineers
✓ Managers

... Participants gain a solid background on integrated regional ocean governance and marine affairs in general

... Disciples in their own countries and regions to spread the ideas of good ocean governance as ambassadors of the oceans
1. Reefs at Risk (Pacific) with funding from the World Resources Institute (WRI), held in Fiji with 33 participants from Pacific Island countries.

2. Coral Reef Monitoring (CoReMo) funded by the Global Coral Reef Monitoring Network (GCRMN) and the Coral Reef Initiative for the Pacific (CRISP).

3. Leaders Seminars on awareness-raising among Pacific Island governments on the need to develop appropriate legislation for the protection of their coral reefs, funding from NOAA and CRISP.

4. Traditional Ecological Knowledge & Marine Protected Area Management.
**ISATEC** is a 2-years master course for foreign and German students!

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<th>Module 1</th>
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<th>Module 3</th>
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<td>Concepts of aquatic ecology</td>
<td>Social sciences &amp; ecological economics</td>
<td>Planing &amp; design of ecological studies</td>
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<td>Aquatic fauna &amp; flora (I)</td>
<td>Tropical aquaculture</td>
<td>Data exploration &amp; statistical analysis</td>
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<td></td>
<td>Aquatic fauna &amp; flora (II)</td>
<td>Fisheries biology</td>
<td>Modelling in conservation biology</td>
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<td>Living communities in tropical systems</td>
<td>Tropical fisheries &amp; catching methods</td>
<td>Scientific writing</td>
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<td>Ecophysiology of aquatic organisms</td>
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<td>Presentation of ESSAY</td>
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<td>Fundamentals in Physical Oceanography &amp; Hydrography</td>
<td>Data Base Management</td>
<td>Trophic &amp; Dynamic modelling (I)</td>
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<td>Water Chemistry &amp; Pollution (I)</td>
<td>GIS as Applied to Coastal Management</td>
<td>Trophic &amp; Dynamic modelling (II)</td>
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<td>Oral presentations</td>
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<th>Semester 3</th>
<th>Semester 4</th>
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<td>Field work at partner university</td>
<td>Analysis of data; Thesis writing</td>
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The course starts 1st October each year.

**Lectures**  
**Practicals**
Cooperation with Papua New Guinea

- Project to establish a Diploma-/Degree-course in Fisheries
- Based on a fisheries development project by GTZ
- Measure to ensure sustainability in fisheries management
- Aim: Develop capacity for PNG fisheries catch and processing industry, administration and management
Course structure

- Fishing industries
- Catch fisheries
- Processing
- Administration

Back to University and College Master Programme (e.g. ISATEC)
Roles of Partners

- Vudal University (New Britain)
  - Academic background
  - Degree giving institution
- National Fisheries College (Kavieng)
  - Applied fisheries courses
  - Practical courses
- ZMT (Bremen)
  - Preparation of course material
  - Kick-off lectures in 7 courses
- GTZ
  - Funding
Conclusion

- Long-term commitment is needed!
- Need for short-term courses in specific areas
  - Governance, conflict management, etc.
  - Specific research fields
- Strengthen education in developing countries
  - Support local universities/high schools as multipliers by sending experts for courses etc.
  - Support development of curricula
- Exchange students between developed and developing countries