

Integrated Coastal Management

- Well established
- Since early 60s
- Substantial amounts of literature, journals, regular conference circuits, professional organizations and textbooks
- **Challenge** - building the human resource capacity for successful implementation of ICM

Building the capacity for ICM

- Is ICM a discipline?
- Field of knowledge
- Uniqueness...the coast as it focus

Challenges & Opportunities

- ⦿ Definition
- ⦿ Freedom!
- ⦿ Hard to sell
- ⦿ Perfect for multi & inter-disciplinarity
- ⦿ Sense of identity
- ⦿ Has a focus...the coast

Training vs. Education

● **Training:**

- focuses particularly in practical skills for specific management situations
- Aimed mainly at existent managers and decision makers

● **Education:**

- concentrates on concepts and principles, high academic comprehension of the field of knowledge of ICM
- To create new coastal professionals

Higher education

- ① Increase in the number of higher education programs
- ① Majority of offer at graduate level
- ① Not the case in developing countries

Methodology

- ICM very diverse and complex
- Diversity of students
- Seminar or workshop format
- Professors = moderators
- Case studies and simulation exercises

Formula for Interdisciplinarity?

- ⦿ Doesn't exist!
- ⦿ Interdisciplinarity is the result of a collective process
 - Students \leftrightarrow professors
 - Knowledge = integrated and interdisciplinary approach

Examples of ICM programs

- ⦿ 1969 – Master in Marine Affairs, Rhode Island U.
- ⦿ 1972 – Master in Marine Affairs, U. Washington
- ⦿ 1973 – Master in Marine Policy, U. Delaware
- ⦿ 1974 – Master in Marine Resource Management, Oregon State U.
- ⦿ 1981 – Master in Marine Affairs, U. Miami
- ⦿ 1986 – Master in Marine Management, Dalhousie U.
- ⦿ ? – Master in Coastal Zone Management, Bournemouth, UK
- ⦿ ? – Master in Integrated Management of Tropical Coastal Zones, Asian Technological Institute
- ⦿ 2002 – Master in Integrated Coastal Zone Management, Cuba
- ⦿ 2004 – Master in Integrated Coastal Zone Management, U. Cadiz
- ⦿ 2006 – Master in Integrated Coastal Management, Uruguay
- ⦿ 2008 – Master in Coastal and Marine Management, Iceland

Overview

- ⦿ Great diversity!
- ⦿ Duration 9 months – 3 years
- ⦿ Core courses differ
- ⦿ Large offer of elective courses
- ⦿ Interdisciplinary “units” – Rhode Island, Delaware, Oregon, Spain, Cuba, Uruguay
- ⦿ Internships – Dalhousie, Washington, Oregon, Miami, Bournemouth
- ⦿ Most require thesis, some graduate projects
- ⦿ Associated to research centers, turn knowledge into practice

Conclusions

- Governments must be convinced of the importance for the need to manage coastal resources sustainably
- ICM Policies should include capacity building
- Programs should reflect local characteristics and needs
- Universities must strengthen interdisciplinarity
- Universities must complement national ICM programs and initiatives

THANK YOU!