



ERASMUS MUNDUS MASTERS COURSE 2012

EUROPEAN MSc
IN MARINE ENVIRONMENT AND RESOURCES

MER CONSORTIUM



SPANISH MEC QUALITY AWARD
2008-2012

Ref. MO2006-00744
7th INTERNATIONAL POSTGRADUATE COURSE

RESEARCH in MARINE ENVIRONMENT & RESOURCES (6 ECTS)

PART I (3 ECTS): FEBRUARY 4-8, 2013, AQUARIUM, Donostia-San Sebastián

PART II (3 ECTS): JUNE 17-21, PIE-UPV/EHU, Plentzia-Bizkaia

Organized by: MER Master (UPV/EHU)

MER Consortium, Res Ctr Exper Mar Biol & Biotech (Plentziako Itsas Estazioa; PIE-UPV/EHU), U Basque Country

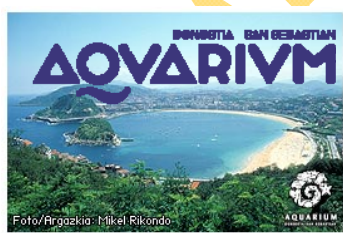
Coordinators:

Dr Adolfo Uriarte, AZTI-Tecnalia (Pasaia)

Dr Michael Collins, Ikerbasque (Plentzia Marine Station) and U Southampton (Southampton, UK)

Dr Larraitz Garmendia, PIE-UPV/EHU (Plentzia)

Dr Ionan Marigómez, PIE-UPV/EHU (Plentzia)



Additional information:

MER SECRETARIAT

Res Ctr Exper Mar Biol & Biotech

Plentzia Marine Station (PIE-UPV/EHU)

U Basque Country

Areatza, 48620 Plentzia-Bizkaia

Tel: 34 946018450; e-mail: mer@ehu.es

www.ehu.es/MER

* and Master Course "Research in Marine Environment and Resources" (6 ECTS)

Supporting Institutions:

- Master and Doctorate School (MDE) University of the Basque Country
- Euskampus Fundazioa: "Ocean Health and Sustainable Valorisation" Pole of Knowledge (i-BLUE)



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea



Plentziako Itsas Estazioa
Estación Marítima de Plentzia





MONDAY 4th: GLOBAL CLIMATE CRISIS (PAST CLIMATE)

- 09:30-10:00; "Welcome and General Introductory Remarks" Vicente Zaragueta (Aquarium SS-FOG), Adolfo Uriarte (AZTI-Tecnalia), Manu Soto (Univ. Basque Country), Ionan Marigómez (MER Consortium)
10:00-10:40: "Towards a Strategy for Basque Marine Science" M Collins (Ikerbasque; Plentzia Mar. Station)
10:40-12:00: *Welcome Coffee at the Aquarium and Visit to the Aquarium facilities* Amalia Martínez de Murgia (Aquarium SS)
12:00-12:40: "Ecological Responses to Past Climatic Changes", Maria Fernanda Sánchez-Goñi (Univ. Bordeaux 1)
12:50-13:30; "Lessons from the Past: the Paleocene Eocene Thermal Maximum Crisis", Thierry Correge (Univ. Bordeaux 1)
13:30-15:00; LUNCH
15:00-15:40: "The Impact of Vegetation Changes on Climate", Maria Fernanda Sánchez-Goñi (Univ. Bordeaux 1)
15:50-16:30; "Tropical Climate Variability from the Chemical Analysis of Coral Skeletons", Thierry Correge (Univ. Bordeaux 1)
16:30-16:50; COFFEE BREAK
16:50-18:30; Round table/Seminar: "Fossil Records of Climate Change", T Correge & MF Sánchez-Goñi (Chair)
20:00-23:00; COURSE DINNER

TUESDAY 5th: GLOBAL CLIMATE CRISIS (TODAYS'S STATUS)

- 09:30-10:20; "Decadal Modulation of El Niño Southern Oscillation (ENSO), through Time", Thierry Correge (Univ. Bordeaux 1)
10:30-11:20; "Mediterranean Sapropels: their Relation with African Monsoon", Jerome Bonnin (Univ. Bordeaux 1)
11:20-11:40; COFFEE BREAK
11:40-12:00; "Satellite Oceanography and Climate Change", Carlos Garcia Soto (IEO Santander)
12:10-13:20; "From Global Climate Models to Regional Climate Assessment", J Sáenz (Univ. Basque Country)
13:20-15:00; LUNCH
15:10-15:40; "Climate Change Challenges: Adaptation and Mitigation", I Galarraaga (BC3, Basque Country)
15:50-18:30; Round table: "Challenges of Global Climate Change to Marine Life and Bioresources" J Bonnin, J Sáenz, C García Soto, I Galarraaga, T Correge (Chair)

WEDNESDAY 6th: MARINE RESOURCES AND FISHERIES

- 09:30-10:20; "Oceanography and Primary Production in the Bay of Biscay", Carlos García Soto (IEO Santander)
10:30-11:20; "Marine Secondary Production in Biscay Bay", Unai Cotano (AZTI-Tecnalia)
11:20-11:40; COFFEE BREAK
11:40-12:30; "Fisheries Management in the Bay of Biscay", Andrés Uriarte (AZTI-Tecnalia)
12:40-13:30; "Fisheries and Climate Change" Hilario Murua (AZTI-Tecnalia)
13:30-15:00; LUNCH
15:00-15:40; "MARENET, a Marine Socio-Economic Framework in the Atlantic Region" Alberto Ansuategi (Univ. Basque Country)
15:50-18:30; Round table: "Future of Fisheries in Biscay Bay", U. Cotano, H Murua, A Ansuategi, An Uriarte, C García Soto (Chair)

THURSDAY 7th: CHALLENGES FOR BIODIVERSITY CONSERVATION

- 09:30-10:20; "Diversity of Diversities in Marine Sponges: a Hidden Challenge", Mikel Becerro (CSIC, Girona)
10:30-11:20; "Marine Conservation: Tourism and Coral Reefs", Maria C Uyarra (AZTI-Tecnalia)
11:20-11:40; COFFEE BREAK
11:40-12:30; "Introduced Invasive Species in Coastal Environments", Xavier de Montaudouin (Univ. Bordeaux 1)
12:40-13:30; "Integrative Ecological Status Assessment in Implementing the Water Framework Directive and the Marine Strategy Directive" A Borja (AZTI-Tecnalia)
13:30-15:30; LUNCH
15:30-16:20; "Biodiversity and Marine Ecosystem Health Assessment: Biotic Indices" Antoine Gremare (Univ. Bordeaux 1)
16:30-18:30; Round table: "Challenges for Biodiversity Conservation" M Becerro, MC Uyarra, X de Montaudouin, A Borja, A Gremare (Chair)

FRIDAY 8th: MARINE OIL SPILLS (10 YEARS AFTER POS)

- 09:30-10:20; "10 Years after the Prestige Oil Spill: Biological Impact", Ionan Marigómez (Univ Basque Country)
10:30-11:20; "10 Years after the Prestige Oil Spill: Oil Spill Response", Adolfo Uriarte (AZTI)
11:20-11:40; COFFEE BREAK
11:40-12:20; "Years after the Prestige Oil Spill: Legal and Economical Issues", Xabier Ezeizabarrena (Univ Basque Country)
12:20-13:30; Round table: "Accidental oil spills in the marine environment" I Marigómez, X Ezeizabarrena, Ad Uriarte (Chair)
15:30-17:00; Workshop: "Presentation of Ongoing MER PhD Thesis Research Projects. I" MER PhD Prog Board
17:00-17:20; COFFEE-BREAK
17:20-18:30; Workshop: "Presentation of Ongoing MER PhD Thesis Research Projects. II" MER PhD Prog Board
18:45-19:00; "Closing Ceremony RiMER 2013-I" MER JPB & V Zaragueta (Aquarium SS-FOG)



PROGRAMME RiMER2013-II

MONDAY 17th: COASTAL MANAGEMENT (MARITIME TRAFFIC AND HARBOURS)

- 09:00-09:30; "Welcome and General Introductory Remarks" Ionan Marigómez (PIE-UPV/EHU; MER Consortium), Manu Soto (Univ. Basque Country), Miren Cajaraville (MDE-UPV/EHU)
09:30-10:20; "International Conventions and Protection of the Marine Environment from Ship-source Pollution" Regina Asariotis (United Nations Conference on Trade and Development, UNCTAD)
10:30-11:20; "Engineering for the Assessment and Management of Coastal Resources" Iñigo Losada (Univ. Cantabria)
11:20-11:40; COFFEE BREAK
11:40-12:30; "Climate Change Impacts on Ports" Regina Asariotis (UNCTAD)
12:40-13:30; "Field Observations of Waves Generated by Passing Ships" Adonis F Velegarakis (U Aegean, Greece)
13:30-15:30; LUNCH
15:30-16:20; "Harbour Sediment Quality Based on Weight of Evidence (WOE) Approaches". Angel Del Valls (U Cadiz)
16:30-18:30; Round table: "Coastal Management: Maritime Traffic and Harbours" I Losada, R Asariotis, A del Valls, AF Velegarakis (Chair)

TUESDAY 18th: COASTAL MANAGEMENT (ALTERED ESTUARIES)

- 09:30-10:20; "Persistent Organochlorines in Estuaries and Coastal Areas", Nestor Etxebarria (Univ. Basque Country)
10:30-11:20; "Trace Element Transfer at the Continent-Ocean Interface", Jörg Schäfer (Univ. Bordeaux 1)
11:20-11:40; COFFEE BREAK
11:40-12:30; "Micropollutants Issues: Cocaine and other Drugs, from Basins to Tap Water", Laetitia Theunis (Univ Liège)
12:40-13:30; "High Frequency Monitoring in Estuaries: from Processes to Management" Aldo Sottolichio (Univ. Bordeaux 1)
13:30-15:30; LUNCH
15:30-17:30; Round table: "Coastal Management: Altered Estuaries" N Etxebarria, A Sottolichio, L Theunis, J Schaffer (Chair)
17:30-19:30; Practical Workshop: "An Approach to Modeling in System Biology" A Rallo, A Antón (Univ. Basque Country)

WEDNESDAY 19th: MARINE ECOSYSTEM HEALTH (MULTIPLE STRESS)

- 09:30-10:20; "Consequences of Emerging Pollutants for Marine Ecosystem Health", Miren P Cajaraville (Univ. Basque Country)
10:30-11:20; "Interactive Biological Effects of Multiple Stressors in the Marine Environment" Ketil Hylland (U Oslo, Norway)
11:20-11:40; COFFEE BREAK
11:40-12:30; "Gene Expression Profiling in Marine Ecotoxicology", Ibon Cancio (Univ. Basque Country)
12:40-13:30; "Coral Bleaching due to Pollution and Climate Change", Mathieu Poulicek (Univ Liège)
13:30-15:30; LUNCH
15:30-16:20; "Herbicides in Coral Reefs", Laetitia Theunis (Univ Liège)
16:30-18:30; Round table: "Multiple Stress in a Changing World" K Hylland, I Cancio, M Poulicek, L Theunis, MP Cajaraville (Chair)

THURSDAY 20th: MARINE BLUE BIOTECHNOLOGY

- 09:30-10:20; "Bioexploration: The Malaspina Expedition", Carlos Duarte (IMEDEA, CSIC & UWA, Perth)
10:30-11:20; "Biomimetics: energy saving hydrodynamic surface designs inspired by Nature" Manu Soto (Univ Basque Country)
11:20-11:40; COFFEE-BREAK
11:40-12:30; "New opportunities provided by Marine Biotechnology" Iñigo Frau (Albia CP, Bilbao)
12:30-13:30; "The Oceans: a Source of Alternative Experimental Models in Biomedical Research" To be determined
13:30-15:30; LUNCH
15:30-16:20; "Marine drug discovery: expectations and real prospects" To be determined
16:30-18:30; Round table: "Marine Blue Technology in the XXIth Century"

FRIDAY 21st: MARINE BIOSPECIMEN BANKING

- 09:30-10:20; "Environmental Specimen Banks: present status and future challenges" Jan Koschorreck (UDP, Germany)
10:30-11:20; "Mercury Biogeochemical Cycles and Long-term Trends" O Donard (French ESB & U Pau)
11:20-11:40; COFFEE-BREAK
11:40-12:30; "Marine Biodiversity Specimen Banks: MARBANK, the Nordic Experience" Kjersti Lie Gabrielsen (Univ Tromso)
12:30-13:30; Round table: "Biobanks in Environmental and Marine Sciences" J Koschorreck, KL Gabrielsen, O Donard (Chair)
13:30-15:30; LUNCH
15:30-16:00; "Closing ceremony" MER JPB
16:00-18:30; Workshop: "Movie to be determined", cinema+discussion session: "Marine Environment and Resources Revisited" Eduardo Angulo (Univ. Basque Country)
18:30-19:00; FAREWELL TERRACE WINE

Introduction

The International Postgraduate Course (6 ECTS) will take place for 2 weeks between 4-8 February 2013 (3 ECTS) in the Aquarium of Donostia-San Sebastian (RiMER2013-I; Aquarium-SS) and between 17-21 June in the Plentzia Marine Station of the University of the Basque Country (RiMER2013-II, PIE-UPV/EHU). It will consist of lectures, workshops, round table discussions and practicals.

Lectures (45 hours) and 15 additional teaching hours (practicals, workshops, round tables, ...) have been planned (65 hours in total). All lectures will be given in English. The course is directed at postgraduate or PhD students, aiming to become specialized in the field of marine environment and resources.

Participants will receive a certificate, with an indication of lectures and practicals attended.

Students who request it will receive the same academic treatment as the "official" students enrolled in the MER MSc and will be given marks, after examination. Thus, together with the attendance certificate, a supplementary certificate indicating the obtained marks (and ECTS) will be provided (i.e. a complete certificate).

Registration

Students not registered in the MER Master may register in this course. The **registration fee** is 225 € for the whole course (60 ECTS; 2 weeks) and 150 € for each individual 1 week module (RiMER2013-I in Aquarium-SS or RiMER2013-II in PIE-UPV/EHU). The registration includes attendance at all teaching activities and course documentation.

For registration, participants should fill in the registration form available on line and send it to MER Secretariat **before the 25th January 2013 (RiMER2013 or RiMER2013-I) and before 30th May 2013 (RiMER2013-II)**, and follow the payment instructions indicated on the web. All participants will receive a receipt of payment and notification of acceptance in the course.

Grants

A limited number of grants covering the registration fee are offered by the MER CONSORTIUM. Students wishing to be considered must indicate it in the registration form. Students receiving a grant will be refunded during the course.

Accommodation

Participants wishing to obtain accommodation in Donostia-San Sebastian, at a student residence (approx. 55 €/day breakfast incl.), should contact the Aquarium administration by email:

RiMER COURSE (eventos@aquariumss.com)

Participants wishing to obtain accommodation in Plentzia should contact the MER Secretariat by email:

MER Secretariat (PIE-UPV/EHU) (mer@ehu.es)

