



ERASMUS MUNDUS MASTERS COURSE

EUROPEAN MSc
IN MARINE ENVIRONMENT AND RESOURCES

MER CONSORTIUM



SPANISH MEC QUALITY AWARD
2008-2012

8th INTERNATIONAL POSTGRADUATE COURSE*

RESEARCH in MARINE ENVIRONMENT & RESOURCES (6 ECTS) - RiMER

PART I (3 ECTS): FEBRUARY 3-7, 2014, AQUARIUM, Donostia-San Sebastián

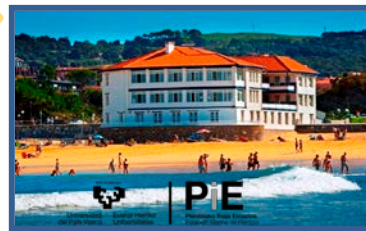
PART II (3 ECTS): JUNE 23-27, 2014, PIE-UPV/EHU, Plentzia (Bizkaia)

Organized by: MER Master (UPV/EHU)

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

Coordinators:

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Dr Michael Collins, PIE-UPV/EHU (Plentzia)
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Additional information:

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* and MER 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

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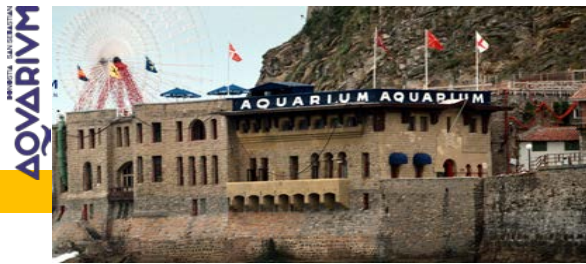
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Plentziako Itsas Estazioa
Estación Marina de Plentzia





MONDAY 3rd: 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 (Bizkaia Xede, PIE-UPV/EHU)
- 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)

TUESDAY 4th: 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 Galarraga (BC3, Basque Country)
- 15:50-18:30: Round table: "Challenges of Global Climate Change to Marine Life and Bioresources" J Bonnin, J Sáenz, C Garcia Soto, I Galarraga, T Correge (Chair)

WEDNESDAY 5th: MARINE RESOURCES AND FISHERIES

- 09:30-10:20: "Oceanography and Primary Production in the Bay of Biscay", Carlos Garcia 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 Garcia Soto (Chair)

THURSDAY 6th: BIODIVERSITY CONSERVATION & MANAGEMENT

- 09:30-10:20: "Harmful Algae: a Challenge for Marine Resources Management", Emma Orive (Univ. Basque Country)
- 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: "Measuring Biodiversity in Coastal Environments: Biotic Indices" Antoine Gremare (Univ. Bordeaux 1)
- 16:30-18:30: Round table: " Biodiversity Conservation and Management. I" MC Uyarra, X de Montaudouin, A Borja, A Gremare, E Orive (Chair)
- 20:30-23:00: COURSE DINNER

FRIDAY 7th: BIODIVERSITY CONSERVATION & MANAGEMENT

- 09:30-10:20: "Parasites and Biodiversity in the Marine Environment" Ana Pérez del Olmo (Univ València)
- 10:30-11:20: "Antarctica. A Whole Continent for Biodiversity Conservation" Iñaki Saiz Salinas (Univ. Basque Country)
- 10:30-11:20: "Management of the Urdaibai Reserve of the Biosphere" Ibone Amezaga (Univ. Basque Country)
- 11:20-11:40: COFFEE BREAK
- 11:40-12:20: "Circumnavigation Expedition Malaspina 2010: Global Change and Microbial Biodiversity Exploration in the Global Ocean", Juan Iriberry (Univ Basque Country)
- 12:20-13:30: Round table: " Challenges for Biodiversity Conservation and Management. II" A Pérez del Olmo, I Saiz Salinas, I Amezaga, J Iriberry (Chair)
- 15:30-18:00: Workshop: "Presentation of Ongoing MER PhD Thesis Research Projects" MER PhD Prog Board
- 18:00-18:30: "Closing Ceremony RiMER 2014-I" MER JPB & V Zaragueta (Aquarium SS-FOG)



PROGRAMME RIMER 2014 (II)

MONDAY 23rd: COASTAL MANAGEMENT

- 09:00-09:30; "Welcome and General Introductory Remarks" Ionan Marigómez (PIE-UPV/EHU; MER Consortium), Manu Soto (Univ. Basque Country), Adolfo Uriarte (AZTI-Tecnalia), Isamari Zarauza (Major of Plentzia).
09:30-10:20; "International Conventions and Protection of the Marine Environment from Ship-Source Oil Pollution" Regina Asariotis (United Nations Conference on Trade and Development, UNCTAD, Geneva)
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; "High Frequency Monitoring in Estuaries: from Processes to Management" Aldo Sottolichio (Univ. Bordeaux 1)
12:40-13:30; "Multibeam Bathymetry data for Habitat Mapping on Coastal Shelf" Ibon Galparsoro (AZTI-Tecnalia)
13:30-15:30; LUNCH
15:30-16:20; "Biorock Reefs" Thomas Goreau (Global Coral Reef Alliance, Ctr Marine Sci Univ. West Indies & UNCED, Jamaica)
16:30-18:30; Round table: "Coastal Management" I Losada, I Galparsoro, T Goreau, A Sottolichio, R Asariotis (Chair)

TUESDAY 24th: COASTAL AND SEDIMENT DYNAMICS

- 09:00-10:20; "Predicting Coastal Dynamics: on Numerical Modeling and *Plastic Mushrooms*" Mike Collins (Bizkaia Xede, PIE-UPV/EHU)
10:30-11:20; "Morphodynamic Monitoring of Beaches with Optical Methods" Adonis F. Velegrakis (U Aegean, Greece)
11:20-11:40; COFFEE BREAK
11:40-12:30; "Modeling the Tidal Channel/Inlet Morphodynamics in a Macro-tidal Embayment" Shu Gao (U Nanjing, China)
12:40-13:30; "Climate Change Impacts on Ports" Regina Asariotis (UNCTAD, Geneva)
13:30-15:30; LUNCH
15:30-17:30; Round table: "Coastal and Sediment Dynamics" S Gao, A Velegrakis, R Asariotis, M Collins (Chair)
17:30-19:30; Practical Workshop: "An Approach to Modeling in System Biology" A Rallo, A Antón (Univ. Basque Country)

WEDNESDAY 25th: MARINE ECOSYSTEM HEALTH

- 09:30-10:20; "Trace Element Transfer at the Continent-Ocean Interface", Jörg Schafer (Univ. Bordeaux 1)
10:30-11:20; "Persistent Organochlorines in Estuaries and Coastal Areas", Nestor Etxebarria (Univ. Basque Country)
11:20-11:40; COFFEE BREAK
11:40-12:30; "Consequences of Emerging Pollutants for Marine Ecosystem Health", Miren P. Cajaraville (Univ. Basque Country)
12:40-13:30; "Gene Expression Profiling in Marine Ecotoxicology", Ibon Cancio (Univ. Basque Country)
13:30-15:30; LUNCH
15:30-16:20; "Coral Bleaching due to Pollution and Climate Change", Mathieu Poulicek (Univ. Liège)
16:30-18:30; Round table: "Marine Pollution and Ecosystem Health Assessment" J Schafer, N Etxebarria, I Cancio, M Poulicek, MP Cajaraville (Chair)

THURSDAY 26th: ENVIRONMENTAL SPECIMEN BANKS (ESBs)

- 09:30-10:20; "Environmental Specimen Banks: Present Status and Future Challenges" Jan Koschorreck (German ESB-UDP, Germany)
10:30-11:20; "Mercury Biogeochemical Cycles and Long-term Trends" Olivier Donard (French ESB & U Pau)
11:20-11:40; COFFEE-BREAK
11:40-12:30; "Environmental Long-term Trends Unveiled by Natural History Museums and ESBs" Anders Bignert (NHM Stockholm, Sweden)
12:30-13:30; "A French ESB of Marine Bivalves: Archive of Trace Chemical Contamination" Joel Knoery (IFREMER, Nantes)
13:30-15:30; LUNCH
15:30-16:20; "The Biscay Bay Environmental Biospecimen Bank: from Chemical to Biological Endpoints" Larratiz Garmendia (PIE-UPV/EHU)
16:30-17:20; "Seabird and Marine Mammal Tissue Archives and Monitoring" Paul Becker (NIST, Hollings Marine Lab, NOAA, Charleston, USA)
17:20-17:40; COFFEE-BREAK
17:40-19:30; Round table: "ESBs for the XXIst Century" J Koschorreck, A Bignert, K Knoery, L Garmendia, O Donard, P Becker (Chair)

FRIDAY 27th: MARINE BLUE GROWTH

- 09:30-10:20; "Marine Bioprospection for Research and Industry Exploitation" Simon Munt (I+D Pharmamar, Madrid)
10:30-11:20; "EMBRIC: an European Research Infrastructure to Sustain Marine Blue Biotechnology" Ibon Cancio (PIE-UPV/EHU)
11:20-11:40; COFFEE-BREAK
11:40-12:30; "Funding Biotechnology Projects in Europe" Iñigo Frau (Albia CP, Bilbao)
12:30-13:30; Round table: "Marine Blue Growth in the XXIst Century" I Cancio, I Frau, S Munt, J Campas (Chair)
13:30-15:30; LUNCH
15:30-18:00; Workshop "*Galerne: the Unknown Storm*" (Dir. Jabi Elortegi, 2012), Cinema+Discussion Session, Eduardo Angulo (PIE-UPV/EHU)
18:00-18:30; "Closing ceremony" MER JPB;
18:30-19:00; FAREWELL TERRACE WINE

Introduction

The International Postgraduate Course (6 ECTS) will take place for 2 weeks between 3-7 February 2014 (3 ECTS) in the Aquarium of Donostia-San Sebastian (RiMER2014-I; Aquarium-SS) and between 23-27 June in the Plentzia Marine Station of the University of the Basque Country (RiMER2014-II, PIE-UPV/EHU). It will consist of lectures, workshops, round table discussions and practicals.

Lectures (47 hours) and 15 additional teaching hours (practicals, workshops, round tables, ...) have been planned (67 hours in total). All lectures will be given in English. The course is directed at postgraduate students and PhD candidates, 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 (RiMER2014-I in Aquarium-SS or RiMER2014-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 24th January 2014 (RiMER2014 or RiMER2014-I) and before 30th May 2014 (RiMER2014-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@merconsortium.eu)

