

Introduction

The International Postgraduate Course (4,5 ECTS) will take place for 11 days between **31 January-10 February, 2012** in the facilities of the Oceanographic Foundation of Gipuzkoa (FOG, Aquarium San Sebastian) and will consist of lectures, workshops, round table discussions and practicals.

Lectures (30 hours) and 15 additional teaching hours (practicals, workshops, round tables, ...) have been planned (45 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 €** and includes attendance at all teaching activities and course documentation.

For registration, participants should fill in the registration form and send it to MER Secretariat **before the 25th January 2012**, together with a bank cheque payable to "RiMER Course – MER CONSORTIUM". 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 (preferably by email):

RiMER COURSE (eventos@aquariumss.com)

AQUARIUM SS Carlos Blasco de Imaz Plz. 1
20003 Donostia – San Sebastián
Tlf. (34) 943 440099 Fax: 943 433554



European Master of Science in Marine Environment and Resources

www.ehu.es/MER MER CONSORTIUM (SOTON, UPV/EHU, UBx 1, AZTI, OFG)

Ref. MO2006-00744

JOINT EUROPEAN POSTGRADUATE STUDIES - Mención de Calidad MEC 2008-2012

Ref. MO2006-00744 – Quality Award (MDC/2008-00122; MICINN 2008-2012)

6th INTERNATIONAL POSTGRADUATE COURSE

RESEARCH IN MARINE ENVIRONMENT AND RESOURCES (4,5 ECTS)

JANUARY 31-FEBRUARY 10, 2012, AQUARIUM, Donostia-San Sebastián

Organized by: MER Master (UPV/EHU)

MER Consortium, Dept Zoology and Cell Biology, Fac Science and Technology, Univ Basque Country, Bilbo

Coordinators:

Dr Adolfo Uriarte, AZTI-Tecnalia (Pasaia)

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

Dr Carlos García-Soto, IEO (Santander)

Dr Ionan Marigomez, Dept Zoology and Cell Biology, UPV/EHU (Leioa)



Additional information:

MER SECRETARIAT Faculty of Sciences and Technology

University of the Basque Country, Leioa-Bizkaia

Tel: 34 946012690; Fax: 34 944648500 e-mail:

ionan.marigomez@ehu.es

[www:http://www.ehu.es/MER](http://www.ehu.es/MER)

* and Master Course “Research in Marine Environment and Resources” (4,5 ECTS)

Supporting Institutions:

- University of the Basque Country (Vicerrect Graduate & Postgraduate Studies)
- Basque Government: Education, Universities & Research Dept (teaching staff mobility programme)
- Ministry of Science and Innovation (teaching staff mobility programme)

PROGRAMME

January 31st TUESDAY: OPENING SESSION – DEVELOPMENTS IN RiMER

- 15:00-15:30; "Welcome and General Introductory Remarks" Vicente Zaragueta (Aquarium SS-FOG), Adolfo Uriarte (AZTI-Tecnalia), Ionan Marigómez (Univ. Basque Country)
- 15:30-16:20; **Opening lecture 1:** "Methane Release from Hydrates beneath a Warming Ocean" Tim Minshull (U Southampton)
- 16:20-17:10; **Opening lecture 2:** "Beachrock Occurrence, Characteristics, Formation Mechanisms and Impacts" Adonis F Velegrakis (U Aegean, Greece)
- 17:10-17:40; *Coffee-break*
- 17:40-18:30; **Opening lecture 3:** "International Conventions and Protection of the Marine Environment from Ship-source Pollution" Regina Asariotis (United Nations Conference on Trade and Development, UNCTAD)
- 18:30-19:30; **Round table:** "Developments in Research in Marine Environment and Resources" R Asariotis, AF Velegrakis, M Collins, T Correge, T Minshull (Chair)
- 19:30-21:00; *Welcome Reception at the Aquarium*

February 1st WEDNESDAY: COASTAL MANAGEMENT

- 09:30-10:20; "Marine Conservation: Tourism and Coral Reefs", María C Uyarra (AZTI-Tecnalia)
- 10:30-11:20; "Climate change Impacts on Ports" Regina Asariotis (UNCTAD)
- 11:20-11:40; *Coffee-break*
- 11:40-12:30; "Management of the Urdaibai Reserve of the Biosphere" Miren Onaindia (Univ. Basque Country)
- 12:40-13:30; "Engineering for the Assessment and Management of Coastal Resources" Iñigo Losada (Univ. Cantabria)
- 15:30-16:20; "Field observations of Waves Generated by Passing Ships" Adonis F Velegrakis (U Aegean, Greece)
- 16:30-17:20; "High frequency monitoring in estuaries: from processes to management" Aldo Sottolichio (Univ. Bordeaux 1)
- 17:20-17:40; *Coffee-break*
- 17:40-19:00; **Round table:** "Sustainable Coastal Management" MC Uyarra, I Amezaga, I Losada, R Asariotis, A Sottolichio, AF Velegrakis (Chair)

February 2nd THURSDAY: MARINE ECOSYSTEM HEALTH

- 09:30-10:20; "Harmful Algae: a Challenge for Marine Resources Management", Emma Orive (Univ. Basque Country)
- 10:30-11:20; "Introduced Invasive Species in Coastal Environments", Xavier de Montaudouin (Univ. Bordeaux 1)
- 11:20-11:40; *Coffee-break*
- 11:40-12:30; "Integrative Ecological Status Assessment in Implementing the Water Framework Directive and the Marine Strategy Directive" A. Borja (AZTI-Tecnalia)
- 12:40-13:30; "Persistent Organochlorines in Estuaries and Coastal Areas", Nestor Etxebarria (Univ. Basque Country)
- 15:30-16:20; "Trace Element Transfer at the Continent-Ocean Interface", Jörg Schäfer (Univ. Bordeaux 1)
- 16:30-17:20; "Biodiversity and Marine Ecosystem Health Assessment: Biotic Indices" Antoine Gremare (Univ. Bordeaux 1)
- 17:20-17:40; *Coffee-break*
- 17:40-19:00; **Round table:** "Threats to Marine Ecosystem Health" X de Montaudouin, J Schäfer, N Etxebarria, Antoine Gremare, E Orive (Chair)

February 3rd FRIDAY: MARINE ECOSYSTEM HEALTH

- 09:30-10:20; "The use of WOE for Environmental Quality Assessment in Sediments above Carbon Dioxide Storage Sub-seabed Geological Formations". A Del Valls (Univ. Cadiz)
- 10:30-11:20; "Bioavailability and Bioaccumulation of Metallic Pollutants: Cellular Mechanisms of Uptake and Detoxification" Manu Soto (Univ. Basque Country)
- 11:20-11:40; *Coffee-break*
- 11:40-12:30; "Biomarkers in Marine Ecosystem Health Assessment", Miren P Cajaraville (Univ. Basque Country)
- 12:40-13:30; "Proteomics Tools to Assess Pollution Effects in Marine Bivalves" Maria Bebianno (U Algarve, Portugal)
- 15:30-16:20; "Gene Expression Profiling in Marine Ecotoxicology", Ibon Cancio (Univ. Basque Country)
- 16:30-17:20; "Integrative assessment of sediment quality based on weight of evidence (WOE) approaches during 15 years in Spain, from genesis to revolution s". Angel Del Valls (U Cadiz)
- 17:20-17:40; *Coffee-break*
- 17:40-19:00; **Round table:** "Prospects in Marine Ecosystem Health" M Soto, M Bebianno, I Cancio, A Del Valls, MP Cajaraville (Chair)
- 20:30-24:00; *Course dinner*

February 6th MONDAY: GLOBAL CLIMATE CRISIS (I)

- 09:30-10:20; "Ecological Responses to Past Climatic Changes", Maria Fernanda Sánchez-Goñi (Univ. Bordeaux 1)
 10:30-11:20; "Lessons from the Past: the Paleocene Eocene Thermal Maximum Crisis", Thierry Correge (Univ. Bordeaux 1)
 11:20-11:40: *Coffee-break*
 11:40-12:30; "The Impact of Vegetation Changes on Climate", Maria Fernanda Sánchez-Goñi (Univ. Bordeaux 1)
 12:40-13:30; "Tropical Climate Variability from the Chemical Analysis of Coral Skeletons", Thierry Correge (Univ. Bordeaux 1)
 15:30-16:20; "Molecular markers in Paleoceanography", JH Kim (NIOZ, The Netherlands)
 16:30-18:00; Round table: "Fossil Records of Climate Change", T Correge, JH Kim & MF Sánchez-Goñi (Chair)

February 7th TUESDAY: GLOBAL CLIMATE CRISIS (II)

- 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*
 11:40-12:30; "Satellite Oceanography and Climate Change", Carlos García Soto (IEO Santander)
 12:40-13:30; "From Global Climate Models to Regional Climate Assessment", J Sáenz (Univ. Basque Country)
 15:30-16:20; "Coral Bleaching due to Pollution and Climate Change", Mathieu Poulıcek (Univ Liege)
 16:30-18:00; Round table: "Challenges of Global Climate Change to Marine Life and Bioresources" J Bonnin, J Sáenz, M Poulıcek, C García Soto, T Correge (Chair)

February 8th WEDNESDAY: 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)
 15:30-16:20; "Modelling Animal Production in Aquaculture Systems: The case of rafted mussels", Enrique Navarro (Univ. Basque Country)
 16:30-18:00; Round table: "Future of Fisheries in Biscay Bay", U. Cotano, H Murua, E Navarro, C García Soto (Chair)

February 9th THURSDAY: 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; "Coral Ecology and Conservation", Mathieu Poulıcek (Univ Liege)
 11:20-11:40: *Coffee-break*
 11:40-12:30; "Parasites and Biodiversity in the Marine Environment" Ana Pérez Del Olmo (Autonomous Univ Barcelona)
 12:40-13:30; "Antarctica. A Whole Continent for Biodiversity Conservation" Iñaki Saiz Salinas (Univ. Basque Country)
 15:30-16:20; Round table: "Challenges for Biodiversity Conservation" M Becerro, I Saiz Salinas, A Pérez, A Rallo, M Poulıcek (Chair)
 16:30-18:30; Practical Workshop: "An Approach to Modelling in System Biology." A Rallo, A Antón (Univ. Basque Country)

February 10th FRIDAY: CLOSING SESSION

- 09:30-11:00; Workshop: "Presentation of ongoing MER PhD Thesis Research projects" MER JPB
 11:00-11:30: *Coffee-break*
 11:30-12:30; **Closing lecture** "Radionuclides in the Marine Environment" Peter Mitchell (University College Dublin)
 12:30-13:30; Round table: "Towards a Strategy for Basque Marine Science" M Collins (Ikerbasque; Plentzia Mar. Station)
 13:30-14:00; "Closing ceremony" MER JPB & V Zaragueta (Aquarium SS-FOG)
 15:30-18:00; **Open workshop:** "The perfect storm" (2000; Wolfgang Petersen)", cinema+discussion session: "Marine Environment and Resources Revisited" Eduardo Angulo (Univ. Basque Country), Ad Uriarte (AZTI-Tecnalia)

JANUARY 31-FEBRUARY 10 2012, AQUARIUM SS - FOG

<http://www.ehu.es/MER>





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Ref. MO2006-00744

JOINT EUROPEAN POSTGRADUATE STUDIES - Mención de Calidad MEC 2008-2012

Registration form RiMER Course 2012 (MER CONSORTIUM, UPV/EHU)

Surname.....

Name..... Title.....

Postal address.....

.....

Postal code..... City/Town..... Country.....

Tln Fax.....

e-mail.....

I wish to be elected for a grant:	YES	NO
I need accommodation* in the student's residence:	YES	NO

* Participants wishing to get accommodation in San Sebastian should fill in the corresponding application and send it by fax to the Aquarium SS, giving the reference of "RiMER Course 2012 – MER Master".

SIGNATURE:

PLACE AND DATE:

For registration, participants should fill in this registration form and send it to MER SECRETARIAT before **February 25th 2012**, together with a bank check (225 €) payable to "**RiMER2012, MER CONSORTIUM (UPV/EHU)**" or a copy of the bank document indicating that a bank transfer has been made to the bank:

BILBAO BIZKAIA KUTXA

BRANCH: 0260, UNIBERTSITATEA, LEIOA E-48940 LEIOA, BASQUE COUNTRY, SPAIN

Account Number: TO BE CHANGED in January 2011, ASK INFORMATION BY EMAIL TO ionan.marigomez@ehu.es

For International transfers TO BE CHANGED in January 2011, ASK INFORMATION BY EMAIL TO ionan.marigomez@ehu.es

MER SECRETARIAT
Dept of Zoology and Cell Biology
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Ref. MO2006-00744

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Accommodation Application Form RiMER Course 2012 (MER CONSORTIUM, UPV/EHU)

Surname.....

Name.....

Title..... IDENTITY CARD/PASSPORT N.....

Postal address.....

.....Postal code.....

City/Town.....Country.....

Telephone.....Fax.....e-mail.....

Arrival date:Departure date:

SIGNATURE:

PLACE AND DATE:

ADDITIONAL REMARKS:

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Completed and signed, this form should be submitted to AQUARIUM SS, before January 25th 2012.

RiMER COURSE 2011
AQUARIUM SS
Carlos Blasco de Imaz Plz. 1
20003 Donostia – San Sebastián, Basque Country (Spain)
TIN. (34) 943 440099 Fax: (34) 943 433554