

Introduction

The International Postgraduate Course (4,5 ECTS) will take place for 10 days between **February 3-12, 2010** 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 to postgraduate (MSc and 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 28th January 2010**, together with a bank cheque payable to "RIMER Course 2010- MER CONSORTIUM". All participants will receive a receipt of payment and notification of acceptance in the course.

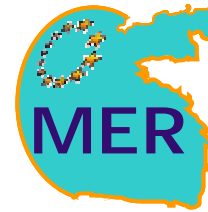
Grants

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. 52 €/day breakfast incl.), should contact (preferably by email) the Aquarium events office.

RIMER COURSE 2010
AQUARIUM SS – Events Office
Carlos Blasco de Imaz Plz. 1
20003 Donostia – San Sebastián, Basque Country (Spain)
Tln: (34) 943 440099 Fax: (34) 943 433554 e-mail: eventos@aquariumss.com



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 MEC 2008-2012 (MDC/2008-00122)

4th INTERNATIONAL POSTGRADUATE COURSE*

RESEARCH in MARINE ENVIRONMENT & RESOURCES (4,5 ECTS) - RIMER 2010

FEBRUARY 3-12, 2010
AQUARIUM, Donostia-San Sebastian, Basque Country (Spain)

Organized by: MER Master (MER Doctorate Prog, UPV/EHU)
MER Consortium, Dept Zoology & Cell Biology
Fac Science & Technology, **Univ Basque Country**

Coordinators:

Dr Adolfo Uriarte, AZTI-Tecnalia (Pasaia)
Prof Mike Collins, U Southampton (Southampton)
Prof Ionan Marigómez, Dept Zoology and Cell Biology, UPV/EHU (Leioa)



Additional information:

MER SECRETARIAT,
ac Science & Technology
Univ Basque Country, Leioa-Bizkaia
Telf: 34 946012690; Fax: 34 946013500,
e-mail: ionan.marigomez@ehu.es

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



* and MER Master Course "Research in Marine Environment and Resources" (4,5 ECTS)

Supporting Institutions:

- University of the Basque Country (Vice-rectorate Graduate & Postgraduate Studies)
- Basque Government: Education, Universities & Research Dept (Teaching Staff Mobility Programme)
- Ministry of Science and Innovation (Teaching Staff Mobility Programme)



RIMER 2010 PROGRAMME

February 3rd WEDNESDAY: PAST PRESENT AND FUTURE OF RIMER

- 10:00-10:30: "Welcome and General Introductory Remarks." V Zaragüeta (Aquarium SS-FOG), Ad Uriarte (AZTI-Tecnalia), I Marigómez (Univ. Basque Country)
10:30-11:00: "Oceanographical Research at the Univ. of Southampton" M Collins (Univ. Southampton)
11:00-11:30: "Research in Marine Science at the Univ. of Bordeaux 1" T Correge (Univ. Bordeaux 1)
12:00-12:30: "Research in MER at Univ. Basque Country" I Marigómez (Univ. Basque Country)
12:30-13:30: **Opening lecture:** "Integrative Assessment of Sediment Quality Based on Weight of Evidence (WOE) Approaches during 15 Years in Spain, from Genesis to Revolution" A del Valls (Univ. Cadiz)

14:00-15:00: *Welcome Reception at the Aquarium*

- 16:00-18:00: "Research Activities in the Aquarium SS + Visit inside the Aquarium", A Martínez de Murgia (Aquarium SS-FOG)

February 4th THURSDAY: MARINE ECOSYSTEM HEALTH

- 09:30-11:00: "Trace Element Transfer at the Continent-Ocean Interface", J Schäfer (Univ. Bordeaux 1)
11:10-11:55: "Persistent Organochemicals in Estuaries and Coastal Areas", N Etxebarria (Univ. Basque Country)
12:15-13:00: "Bioavailability and Bioaccumulation of Metallic Pollutants: Cellular Mechanisms of Uptake and Detoxification" M Soto (Univ. Basque Country)
13:10-13:55: "The use of WOE for Environmental Quality Assessment in Sediments above Carbon Dioxide Storage Sub-seabed Geological Formations". A Del Valls (Univ. Cadiz)
15:30-16:40: "Biodiversity and Marine Ecosystem Health Assesment: Biotic Indices" A Gremare (Univ. Bordeaux 1)
17:00-18:30: Round table: "Bioavailability and Persistence of Chemical Pollutants in the Marine Environment" N. Etxebarria, M. Soto, J Schäfer, A Gremare, A Del Valls (Chair)

February 5th FRIDAY: MARINE ECOSYSTEM HEALTH

- 09:30-10:20: "Integrative Ecological Status Assessment in Implementing the Water Framework Directive and the Marine Strategy Directive" A Borja (AZTI-Tecnalia)
10:30-11:20: "Eutrophication and Harmful Algae", E Orive (Univ. Basque Country)
11:40-12:30: "Introduced Invasive Species in Coastal Environments", X de Montaudouin (Univ. Bordeaux 1)
12:40-13:30: "Biomarkers in Marine Ecosystem Health Assessment", MP Cajaraville (Univ. Basque Country)
15:30-16:20: "Biomarker Based Integrative Assessment of Marine Ecosystem Health" I Marigomez (Univ. Basque Country)
16:30-17:20: "Gene Expression Profiling in Marine Ecotoxicology", I Cancio (Univ. Basque Country)
17: 40-19:00: Round table: "Prospects in Marine Ecosystem Health", I Cancio, I Marigomez, E Orive, X de Montaudouin, MP Cajaraville (Chair)

20:30-24:00: *Course dinner*

February 6th SATURDAY: NOON VISIT TO TXILLIDA-LEKU

February 8th MONDAY: GLOBAL CLIMATE CRISIS (I)

- 09:30-10:20: "Ecological Responses to Past Climatic Changes", MF Sánchez-Goni (Univ. Bordeaux 1)
10:30-11:20: "Lessons from the Past: the Paleocene Eocene Thermal Maximum Crisis", T Correge (Univ. Bordeaux 1)
11:40-12:30: "The Impact of Vegetation Changes on Climate", MF Sánchez-Goni (Univ. Bordeaux 1)
12:40-13:30: "Tropical Climate Variability from the Chemical Analysis of Coral Skeletons", T 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-Goni (Chair)

February 9th TUESDAY: GLOBAL CLIMATE CRISIS (II)

- 09:30-10:20: "Decadal Modulation of El Niño Southern Oscillation (ENSO), through Time", T Correge (Univ. Bordeaux 1)
10:30-11:20: "Mediterranean Sapropels: their Relation with African Monsoon", J Bonnin (Univ. Bordeaux 1)
11:40-12:30: "Satellite Oceanography and Climate", C Garcia 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", M Poulicek (Univ Liege)
16:30-18:00: Round table: "Challenges of Global Climate Change to Marine Life and Bioresources" J Bonnin, J Sáenz, M Poulicek, C Garcia Soto, T Correge (Chair)

February 10th WEDNESDAY: MARINE RESOURCES AND FISHERIES

- 09:30-10:20: "Oceanography and Primary Production in the Bay of Biscay", C Garcia Soto (IEO Santander)
10:30-11:20: "Marine Secondary Production in Biscay Bay", U Cotano (AZTI-Tecnalia)
11:40-12:30: "Fisheries Management in the Bay of Biscay", An Uriarte (AZTI-Tecnalia)
12:40-13:30: "Fisheries and Climate Change" H Murua (AZTI-Tecnalia)
15:30-16:20: "Modelling Animal Production in Aquaculture Systems: The Case of Rafted Mussels", E 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 11th THURSDAY: CHALLENGES FOR BIODIVERSITY CONSERVATION

- 09:30-10:20: "Coral ecology and Conservation", M Poulicek (Univ Liege)
10:30-11:20: "Tourism and Coral Reef Conservation", MC Uyarra (Simon Fraser Univ., Canada)
11:40-13:30: "Antarctica. A Whole Continent for Biodiversity Conservation" I Saiz Salinas (Univ. Basque Country)
15:30-16:20: Round table: "Challenges for Biodiversity Conservation" I Saiz Salinas, MC Uyarra, M Poulicek (Chair)
16:30-17:20: Workshop: "Presentation of Ongoing MER PhD Thesis Research projects" MER JPB
17:30-19:30: Viva: "Presentation of MER MSc Thesis Research Projects" MER JPB

February 12th FRIDAY: COASTAL MANAGEMENT

- 09:30-10:20: "High Frequency Monitoring in Estuaries: from Processes to Management" A Sottolichio (Univ. Bordeaux 1)
10:30-11:20: "Engineering for the Assessment and Management of Coastal Resources" I Losada (Univ. Cantabria)
11:40-12:30: "Management of the Urdaibai Reserve of the Biosphere" I Amezaga (Univ. Basque Country)
12:40-13:30: **Closing lecture:** "From Research to Application: Solving problems in the Coastal Environment" Ian Townend (Univ. Southampton)
15:30-16:20: Round table: "Sustainable Coastal Management" I Townend, A Sottolichio, I Losada, I Amezaga (Chair)
16:30-19:00: "Marine Environment and Resources Revisited" **Open workshop:** "The old man and the sea" (J Sturges, 1958) *Cineforum* session, Angulo (Univ. Basque Country), Ad Uriarte (AZTI-Tecnalia)
19:00-19:30: "Closing ceremony" MER JPB & V Zaragüeta (Aquarium SS-FOG)

FEBRUARY 3-12 2010, AQUARIUM SS - FOG

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Ref. MO2006-00744

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

Registration form RiMER Course 2010 (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

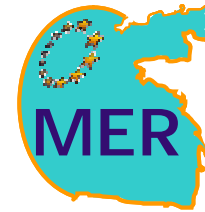
* Participants wishing to get accommodation in San Sebastian should fill in the corresponding application and send it by fax to the Aquarium SS, giving the reference of "RiMER Course 2010 - MER Master".

SIGNATURE: PLACE AND DATE:

For registration, participants should fill in this registration form and send it to MER SECRETARIAT before **January 28th 2010**, together with a bank check (225 €) payable to **"RiMER2010, 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: 2095 0260 80 9105923720
For International transfers (IBAN: ES94 2095 0260 8091 0592 3720; SWIFT: BASKES2BXXX)

MER SECRETARIAT
Dept of Zoology and Cell Biology
Fac of Science and Technology, University of the Basque Country
48940 Leioa-Bizkaia, Basque Country (Spain)
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Accommodation Application Form RiMER Course 2010 (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:.....

Completed and signed, this form should be submitted to AQUARIUM SS, **before January 28th 2010**.

RiMER COURSE 2010
AQUARIUM SS
Carlos Blasco de Imaz Plz. 1
20003 Donostia - San Sebastián, Basque Country (Spain)
TIN: (34) 943 440099 Fax: (34) 943 433554