

Centre of European excellence for oceanography and the marine environment, Brest is hosting the seventh Sea Tech Week, a major interdisciplinary forum for the marine science and technology sector.

Sea Tech Week combines **five days of seminars and workshops with a professional trade fair**, creating a unique forum for all those involved in the wide-ranging disciplines of maritime research and development.

Around a thousand participants including researchers, economists, legal experts, professionals and delegates from major institutions are expected to gather to review the latest scientific work, groundbreaking technological developments and current economic and legal issues. Sea Tech Week is organised by Brest métropole océane and supported by IEEE (Institute of Electrical and Electronics Engineers), Ifremer, Europôle mer, Pôle Mer, Université de Bretagne occidentale, Ensieta, Télécom Bretagne...

For more information : www.seatechweek.com

Europole Mer Axis 3: Workshop on "Systems Modelling"

Science-policy integration, integrated and participatory assessments, simulation models and model coupling platforms, foresight and scenario are keywords common to all the work done in the area of system modelling applied to sustainability issues in the Coastal Zones. Interdisciplinary work across natural and social sciences to model and simulate the complex interactions between bio-geophysical dynamics and socio-economic processes as well as the integration of processes from catchment to coast are major challenges.

This workshop on the "Systems Modelling" applied to watersheds, coastal or oceanic systems is organized by Europole Mer Research Axis 3 "Observation and Dynamics of Coastal Systems". It is an internal workshop for the member of the GIS Europole Mer in cooperation with the CSIRO and the University of Tasmania in Australia. System modelling frameworks and applications developed in France and in Australia will be presented. More specifically, it will focus on applications that take into account the marine environment and/or resources along with their human use. Work from the IP SPICOSA, DAHU platform, IPRAC and other projects will be presented for the French side. Over three days, from June 21 to 23, this workshop will aim at sharing experience and current good practices on both technical and collaborative aspects of systems modelling. The workshop is open to Europole Mer members and invitees only.

Registration: <http://www.europolemer.eu/en/> (free for Europole Mer members, but registration is necessary for access including sessions, breaks and lunches)

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Workshop "Systems Modelling"



Organized by the axis 3 of GIS Europole Mer
Observation and Dynamics of Coastal Systems

21st, 22nd et 23rd June 2010, Brest, Le Quartz



Workshop programme

Monday 21st

9:00 Welcome (D. Bailly and C. Crawford)

9:15 The Integrated Project SPCIOSA and French Study Sites.
Denis Bailly

9:40 Overview of INFORMD (Inshore Network for Observation and Regional Management: Derwent-Huon) research program.
Christine Crawford

10:00 break

10:30 The System Approach and WADBOS **Pascal Raux**

11:00 MSE modelling in the catchment-to-coast domain. An example from South East Queensland, Australia. **Leo Dutra**

11:50 Using ecosystem services modelling to explore conflict mitigation in the coastal zone, **Rémi Mongruel**

12h30 Lunch

14:00 Accounting for water use across a catchment. **Christine Crawford**

14:30 Use of 3D hydrodynamic model outputs for microbiological transport in an integrated model of the Thau lagoon, **Johanna Ballé-Béganton and Annie Fiandrino**

15:00 Determining environmental water requirements of estuaries: a case study in Little Swanport, Tasmania. **Jeff Ross**

15:30 Break

16:00 Atlantis, what, how, why... **Leo Dutra (presenting for Belt Fulton)**

16:40 Watershed hydrology for integrated systems: experiences and perspectives, **Michel Lamplé**

17:20 Bio-economic effects of water shortages on shellfish farming. An integrated dynamic modelling approach, **José Pérez Agúndez**

Workshop programme

Tuesday 22nd

9:00 Anthropogenic drivers of biogeochemical change in the Derwent Estuary, Tasmania. **Jeff Ross**

9:30 Dealing with integrated modelling of complex socioecosystems: integrated model versus model integration, **Johanna Ballé-Béganton**

10:00 Establishing a catchment-to-coast community of Practice in Australia: 2 years on the track. **Leo Dutra**

10:30 Break

11:00 Quality protocol model outputs in participative modelling experiments, **Michel Lamplé and Johanna Ballé-Béganton**

11:40 Participation, deliberation et al., **Denis Bailly and Katia Frangouides**

12:30 Lunch

14:00 the DAHU palteform and its applications, **Cyril Tissot and Mathias Rouan**

14:30 The Fisheries Bio-Economic working group **Claire Macher and Mathieu Merzereaud**

15:00 Oyster culture economics in the context of system modelling **Rémi Mongruel**

15:30 Break

16:00 IPRAC projet in the Bay of Mont Saint-Michel, **Philippe Cugier**

16:30 Catchment to coast modelling: the MOITEM project, **Olivier Ragueneau (tbc)**

17:00 Discussion and selection of topics for general discussion

Wednesday 23

9 to 12:30 **General discussion**

14:00 to 15:30 **Conclusions**

15:30 to 17:00 **roundtable of the Climate, Ocean and Vulnerabilité workshop (optional)**