

The CoastLab Network - the network for small and medium coastal engineering laboratories - with the support of ENCORA Young Professional Exchange Program (YPEP) and the IAHR-Maritime Section has organized from November 26 through 29, 2007, the "First CoastLab Teaching School" at the Faculty of Engineering of the University of Porto (FEUP) - Portugal.

The network for small and medium coastal engineering laboratories was officially launched in the First International Conference on the Application of Physical Modelling to Port and Coastal Protection - CoastLab'06, held May 2006 in Porto. The forthcoming event of the CoastLab series will take place in Bari - Italy, in July 2008.

The 25-hours of the First CoastLab Teaching School were designed as a hands-on application-oriented training course. Experts from renowned European Universities were invited to give the lectures on wave generation; measuring techniques; movable and fixed bed models; and wave-structure interactions. In one of the school mornings, students went to the Laboratory of Hydraulics of FEUP where they got the chance to see several equipments operating. These demonstrations were supported by HR Wallingford, UK, and INNOVA Oceanografia Littoral, Spain.

The school brought together 29 young professionals, mostly from Europe but also from Kuwait and Tunisia. The variety of nationalities represented was acknowledged by students. This variety was not present in backgrounds; most of the students were PhD from engineering courses in the first years.

In the evenings, time was spent near the river Douro, in either sides Porto or Gaia but certainly with a glass of Port wine. The traditional Wednesday afternoon off of the University of Porto was considered in the school timetable, providing an opportunity for some sightseeing in Porto.

PoCoast - the National Network of ENCORA in Portugal was pleased to assist in the success of this event, which second edition is already being thought for the coming months; probably mid of March 2008 again in Porto.

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First CoastLab Teaching School



Faculty of Engineering of the University of Porto
Porto, Portugal | November 26-29, 2007

PROGRAMME

NOVEMBER 26 | TOPIC: WAVE GENERATION

[09:00-10:30] Time Series Analysis

Prof. Dr. Peter Frigaard (Aalborg University, Denmark)

[11:00-13:00] Wave Generation I

Prof. Dr. Peter Troch (University of Ghent, Belgium)

[14:30-16:00] Wave Generation II

Prof. Dr. Peter Frigaard (Aalborg University, Denmark)

[16:30-19:00] Wave Generation III

Dr. Hemming A. Schäffer (Schäffer Waves, Denmark)

NOVEMBER 27 | TOPIC: MEASURING TECHNIQUES AND DATA ANALYSIS

[09:00-10:30] Measuring Techniques in Hydraulic Model Testing

Prof. Dr. Pedro Lomonaco (University of Cantabria, Spain)

[11:00-13:00] Analysis of Wave Reflection at a Rubble Mound Breakwater by means of Artificial Intelligence

Prof. Dr. Gregorio Iglesias (University of Santiago Compostela, Spain)

[14:30-16:00] Statistical Analysis of Laboratory Data

Dr. Ir. P.H.A.J.M. van Gelder (Delft University of Technology, The Netherlands)

[16:30-18:00] Measuring Techniques and Data Analysis

Prof. Dr. Peter Frigaard (Aalborg University, Denmark)

NOVEMBER 28 | TOPIC: MOVABLE BED MODELS AND FIXED STRUCTURES

[09:00-10:30] Movable Bed Models

Prof. Dr. António Trigo Teixeira (Instituto Superior Técnico, Portugal)

[11:00-13:00] Physical Modelling of Fixed Structures

Prof. Dr. Francisco Taveira Pinto (Faculty of Engineering of the University of Porto, Portugal)

NOVEMBER 29 | TOPIC: STRUCTURES AND LABORATORY EQUIPMENT

[09:00-10:30] Doppler Technologies for Water Research in Laboratories and Sea

Dr. Oswaldo Lopez-Monzon (INNOVA Oceanografia Litoral, Spain)

[11:00-13:00] Demonstration of Several Laboratory Equipment

Dr. John Elliot (HR Wallingford, UK)

[14:30-16:00] Wave Structural Responses

Prof. Dr. Peter Troch (University of Ghent, Belgium)

[16:30-18:00] Modelling of Structures and Measurement of Wave-induced Damage

Prof. Dr. Pedro Lomonaco (University of Cantabria, Spain)

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