

## Coupled Problems 2011

20-22 June 2011, Kos Island, Greece

### Conference Secretariat

International Center for Numerical Methods  
in Engineering (CIMNE)

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<http://congress.cimne.com/coupled2011>



## An ECCOMAS Thematic Conference

Coupled Problems 2011 is one of the Thematic Conferences of the European Community in Computational Methods in Applied Sciences (ECCOMAS). For further information on ECCOMAS visit: [www.eccomas.org](http://www.eccomas.org)

Coupled Problems 2011 is also an IACM Special Interest Conference. More information about IACM in: [www.iacm.info](http://www.iacm.info)

## Location

The globally known Kos International Convention Centre is an impressive 3 level modern building, situated directly adjacent to Sol Kipriotis Village - the biggest hotel of the Kipriotis group - and only a breath away from the remaining 4 Kipriotis Hotels. KICC is one of the most luxurious Convention Centres offering the latest in meeting technology. High standard materials, modern ideas and excellent space design were adopted and applied in order to achieve maximum comfort, prestige and splendour that will make your meeting, conference or convention special.

## Registration Fees

The registration fees in euro, including social events, with early registration applicable if received before **February 28th 2011** are:

	Early	Late
<b>Delegates</b>	490 €	590 €
<b>Students</b>	290 €	350 €

ECCOMAS and IACM members will have a 5% reduction on the delegates fees.

The delegate fees will include:

Conference Proceedings; Attendance at all scientific sessions;  
Coffee breaks, reception and banquet

## Accommodation

Block reservations at preference rates will be arranged by the organizers. Detailed information will be available on the Conference site.

## Supporting Organisations

- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- International Association for Computational Mechanics (IACM)
- Greek Association for Computational Mechanics (GRACM)
- International Center for Numerical Methods in Engineering (CIMNE)
- National Technical University of Athens, Greece
- University of Padova, Italy
- Universitat Politècnica de Catalunya (UPC)



# Coupled Problems 2011

## IV International Conference on Computational Methods for Coupled Problems in Science and Engineering

20-22 June 2011, Kos Island, Greece

An IACM Special Interest Conference



<http://congress.cimne.com/coupled2011>

## Objectives

The fourth conference on Computational Methods for Coupled Problems in Science and Engineering (Coupled 2011) will be organised on 20-22 June, 2011 in the island of Kos, Greece. The previous three editions of this conference were held in the islands of Santorini (Greece) on 25-28 May 2005, Ibiza (Spain) on 21-23 May 2007 and Ischia (Italy) on 8-11 June 2009.

The objectives of Coupled 2011 are to present and discuss state of the art, mathematical models, numerical methods and computational techniques for solving coupling problems of multidisciplinary character in science and engineering. The conference goal is to make step forward in the formulation and solution of real life problems with a multidisciplinary vision, accounting for all the complex couplings involved in the physical description of the problem.

The conference will be included as one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS). It will also be supported by other scientific organisations in Europe and worldwide including the International Association for Computational Mechanics (IACM).

## Conference Topics (the list is not exhaustive)

- Applications in Science and Engineering: Thermo-Mechanical Problems, Fluid-Structure-Interaction, Electro-Magnetic Dynamics, Bio-Medicine, etc.
- Coupled Solution Strategies. Loose & Strong Coupling Schemes
- Mathematical Formulation of Multidisciplinary Problems
- Numerical Methods for Coupled Problems: Finite Elements, Finite Volume, Finite Difference, Particle Methods, Meshless Methods, etc.
- Optimum Design in Multi-Disciplinary Problems
- Parallel and Real Time Computational Techniques

## About Kos Island

Kos is an island part of the Dodecanese islands, located in the southeast part of the Aegean Sea. It is the third largest of the Greek islands of the group (after Rhodes and Karpathos), and the second most popular and tourist island.

**AN ANCIENT HISTORY:** The history of Kos goes back to prehistoric times (early 3rd millennium b.C., Early Bronze Age), when several migrations took place in the Aegean and the broader area around. The island flourishes during the Minoan and Mycenaean periods and, according to traditions, the island took part to the Trojan War with 30 ships. After the collapse of the Mycenaean civilization, the island becomes Doric with a large contingent of settlers from Epidaurus who took with them their Asclepius cult and made their new home famous for its sanatoria. The rod of Asclepius, a snake-entwined staff, remains a symbol of medicine today. In the Hellenistic age Kos attained the zenith of its prosperity. It became a kind of provincial branch of the museum of Alexandria, and a favorite resort for the education of the princes of the Ptolemaic dynasty; among its most famous sons the physician Hippocrates, the "father of modern medicine".

## Conference Chairmen

**M. Papadrakakis**, National Tech. University of Athens, Greece

**E. Oñate**, Universitat Politècnica de Catalunya, Spain

**B. Schrefler**, Università degli Studi di Padova, Italy

## Advisory Scientific Committee

**C. Agelet de Saracibar**, Spain

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**C. Sinka**, U.K.

**A. Tadeu**, Portugal

**T. Tezduyar**, USA

**O. von Estorff**, Germany

**W. Wall**, Germany

**N.-E. Wiberg**, Sweden

**P. Wriggers**, Germany

**Ch. Wu**, U.K.

## Important Dates

Deadline for presenting one page abstract **29 October 2010**

Acceptance of the contributions **1 December 2010**

Deadline for submitting an extended abstract and early payment **28 February 2011**

Booking of hotel accommodation **soon available in the web**



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Kos Island, Greece, 20-22 June 2011

## How to register and submit contributions

Authors are invited to submit their contributions on any of the conference topics. Submission of contributions and conference registration should be performed electronically via the conference web site.

<http://congress.cimne.upc.es/coupled2011/>