

# COUPLED PROBLEMS 2007

21-23 May 2007, Santa Eulalia, Ibiza, Spain

## Conference Secretariat

International Center for Numerical Methods in Engineering (CIMNE),

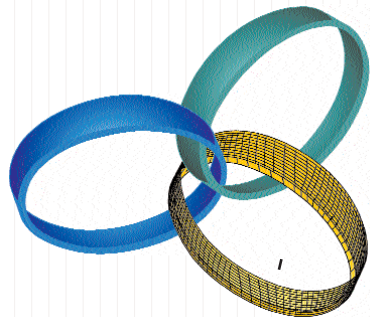
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<http://congress.cimne.upc.es/coupled07>



## An ECCOMAS Thematic Conference

Coupled Problems 2007 is one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS) [www.eccomas.org](http://www.eccomas.org).

Coupled Problems 2007 is also an IACM Special Interest Conference. More information on IACM in: [www.iacm.info](http://www.iacm.info)



## Registration Fees

The registration fees (in Euro), including social events, with early registration applicable if received before February 15, 2007 are:

	Early	Late
Delegates	450 €	500 €
Students	230 €	280 €

ECCOMAS members will have a 10% reduction on the delegates fees. The delegates fees will include: Conference Proceedings; attendance at all scientific sessions; coffee breaks, reception and banquet.

## Social Programme

A social programme for delegates will be arranged, including a reception and a banquet at a local place of interest, as well as a social programme for accompanying persons.

## Accommodation

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

## Supporting Organisations

- Ayuntamiento de Santa Eulalia del Rio, Ibiza, Spain
- Center for Advanced Studies of Ibiza, Spain
- Consell Insular d'Eivissa i Formentera, Spain
- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- International Association for Computational Mechanics (IACM)
- International Center for Numerical Methods in Engineering (CIMNE), Barcelona, Spain
- Greek Association for Computational Mechanics (GRACM)
- National Technical University of Athens, Greece
- University of Padova, Italy
- Universitat Politècnica de Catalunya (UPC), Spain



# COUPLED PROBLEMS 2007

## Computational Methods for Coupled Problems in Science and Engineering

21-23 May 2007, Santa Eulalia, Ibiza, Spain

An IACM Special Interest Conference



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## Objectives

The increasing necessity to solve complex problems in science and engineering accounting for all the coupling occurring on the different scales of the problem requires the development of new ideas and methods which can effectively provide accurate numerical solutions in affordable computing times.

The objective of Coupled Problems 2007 is to present and discuss state of the art, mathematical methods, numerical methods and computational techniques for solving coupling problems of multidisciplinary character in science and engineering. Emphasis will be given on showing the potential of new computational methods for solving practical multidisciplinary problems of industrial interest.

The first edition of these series of conferences was held on 25-28 May 2005 in Santori Island, Greece and attracted some 150 participants.

The goal of COUPLED PROBLEMS 2007 is to make a 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.

## Conference Topics

Papers are welcomed in one of the following topics (the list is not exhaustive):

- Mathematical formulation of multidisciplinary, multiphysics problems
- Numerical methods for coupled problems: finite elements, finite volume, finite differences, meshless methods, etc.
- Coupled solution strategies. Loose and strong coupling schemes.
- Computational methods for multiscale problems
- Distributed computing methods. Grid computing technologies.
- Optimum design in multi-disciplinary problems
- Applications in science and engineering: thermo-mechanical problems, soil-structure-interaction, electro-magnetic-dynamic problems, aero-acoustic, geomechanics, etc.

## Location

The conference will take place in the city of Santa Eulalia in the island of Ibiza in Spain. Ibiza is one of the most appealing islands in the Mediterranean sea with beautiful beaches and landscapes, and interesting cultural heritage and excellent cuisine.

The precise location of the conference sessions will be announced in the conference web site.

## Conference Chairmen

**M. Papadrakakis** National Technical University of Athens, Greece  
**E. Oñate** Universitat Politècnica de Catalunya, Spain  
**B. Schrefler** Università degli Studi di Padova, Italy

## Technical Advisory Panel

C. Agelet de Saracibar, Spain	P. Ladevèze, France
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J.M. Huyghes, The Netherlands	W. Wall, Germany
S. Idelsohn, Argentina	A.J. Whittle, USA
H. Irschik, Austria	N.-E. Wiberg, Sweden
G.E. Karniadakis, USA	P. Wriggers, Germany
A.J. Kassab, USA	



## Important Dates

Deadline for presenting one page abstract **October 4, 2006**  
Acceptance of the contributions and instruction **November 6, 2006**

Deadline for submitting the final contribution and early payment **February 15, 2007**  
Hotel booking **available on the congress site**



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### 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.

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