COUPLED PROBLEMS 2005 Conference Secretariat International Center for Numerical Methods in Engineering (CIMNE) Edificio C-1, Campus Norte UPC

nttp://congress.cimne.upc.es/coupledproblems

coupledproblems@cimne.upc. es

An ECCOMAS Thematic Conference

Coupled Problems 2005 is one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS) and it has been promoted by the European Committee in Solids and Structural Mechanics (ECSSM) of ECCOMAS For further information visit: www.eccomas.org. Coupled Problems 2005 is also an IACM Special Interest Conference. More information about IACM in: www.iacm.info

Registration Fees

The registration fees, including social events, with early registration applicable if received before February 15, 2005 are:

	Early	Late
Delegates	350 €	400 €
Students	150 €	200 €

The 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

- 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 Politécnica de Catalunya (UPC)



COUPLED PROBLEMS 2005

Computational Methods for Coupled Problems in Science and Engineering

25-28 May 2005, Santorini Island, Greece

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 2005 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 conference goal 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.
- Distributed computing methods. Grid computing technologies.
- Optimum design in multi-disciplinary problems
- Applications in science and engineering: thermomechanical problems, soil-structure-interaction, electro-magnetic-dynamic problems, aero-acoustic, geomechanics, etc.

Location

The conference will take place on the island of Santorini in Greece. Santorini is one of the most appealing islands in Greece with beautiful beaches and landscapes, an 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

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H. Muhlhaus, Australia

R. Ohayon, France

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K. C. Park, USA

J. Périaux, France

P.M. Pinsky, USA

E. Ramm. Germany

E. Rank. Germany

K. Runesson, Sweden

A. Tadeu. Portugal

T. Tezduvar, USA

O. von Estorff, Germany

W. Wall, Germany

A.J. Whittle, USA

N.-E. Wiberg, Sweden

P. Wriggers, Germany





Important Dates

Deadline for presenting one page abstract Acceptance of the paper and instructions Deadline for submitting the full paper and early payment

October 4, 2004 November 4, 2004 February 15, 2005



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How to register and submit contributions **PROBLEMS** 2005

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

