

Please send to:

International Center for Numerical  
Methods in Engineering (CIMNE)  
Edificio C-1, Campus Norte UPC  
C/Gran Capitan, s/n,  
08034 Barcelona  
Spain



## 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](http://www.eccomas.org). Coupled Problems 2005 is also an IACM Special Interest Conference. More information about IACM in: [www.iacm.info](http://www.iacm.info)

### 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.

### Registration Fees

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

	(Euros)*	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".

### Conference Secretariat

International Center for Numerical Methods in Engineering (CIMNE), Edificio C-1, Campus Norte UPC  
C/Gran Capitan, s/n, 08034 Barcelona, Spain  
Phone: +34 93 401 74 41, Fax: +34 93 401 65 17  
[congress@cimne.upc.es](mailto:congress@cimne.upc.es)

<http://congress.cimne.upc.es/coupled05>

### 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 Politècnica de Catalunya (UPC)



# COUPLED PROBLEMS 2005

## Computational Methods for Coupled Problems in Science and Engineering

25-28 May 2005, Santorini Island, Greece

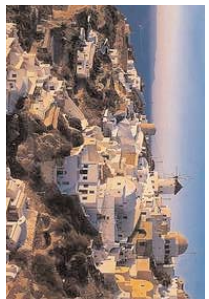
An IACM Special Interest Conference



<http://congress.cimne.upc.es/coupled05>

## Coupled Problems 05

Computational Methods for Coupled Problems in  
Science and Engineering  
Santorini Island, 25-28 May 2005



The organisers would be grateful if intending participants would, without

obligation, complete and return this form by fax or surface mail as soon as possible:

I intend to present a paper with the tentative title:

Title \_\_\_\_\_ First Name \_\_\_\_\_ Surname \_\_\_\_\_

Organisation \_\_\_\_\_

Address \_\_\_\_\_

Code/City \_\_\_\_\_

Country \_\_\_\_\_

Authors: \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Paper registration can also be made via conference web  
page: <http://congress.cimne.upc.es/coupled05>

E-Mail \_\_\_\_\_

## 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: thermo-mechanical problems, soil-structure-interaction, electro-magnetic-dynamic problems, aero-acoustic, geomechanics, etc.

## Location

Fira, Santorini Island  
Greece

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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G.E. Karniadakis, USA	N.-E. Wiberg, Sweden
A.J. Kassab, USA	P. Wriggers, Germany

## Call for Papers

One page abstract of contributions related to the topics of the Conference are invited to be submitted by October 4, 2004. Authors have to register and submit their abstracts via the Conference Web Site. Notification of acceptance will be given by November 4, 2004. Instructions for paper submission in format for publication will be available on the site. In order to produce the Proceedings in time for distribution to the delegates at the Conference, full papers will be required by February 15, 2005.

## Important Dates

Deadline for presenting a one page abstract	October 4, 2004
Acceptance of the paper and instructions	November 4, 2004
Deadline for submitting the full paper	February 15, 2005
Deadline for early payment	March 15, 2005

Conference web page: <http://congress.cimne.upc.es/coupled05>