An ECCOMAS Thematic Conference

ADMOS 2011 is one of the Thematic Conferences of the European Community in 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 on ECCOMAS visit: www.eccomas.org

ADMOS 2011 is also an IACM Special Interest Conference. More information about IACM in: www.iacm.info

Location

The conference will take place at the École Centrale Paris, France.

Registration Fees

The registration fees, including social events, with early registration applicable if received before March 19, 2011 are:

	Early	Late
Delegates	**490** €	**590** €
Students	**290** €	**350** €

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

Conference Secretariat

International Center for Numerical Methods in Engineering (CIMNE)

Edificio C1, Campus Norte UPC
Gran Capitán s/n, 08034 Barcelona, Spain
Phone +34 93 405 46 96 Fax +34 93 205 83 47
email: admos@cimne.upc.edu
web: http://congress.cimne.com/admos2011

Supporting Organisations:

- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- International Association for Computational Mechanics (IACM)
- École Centrale Paris, France
- Universitat Politècnica de Catalunya, Spain

ECCOMAS
Thematic Conference

ADMOS 2011

International Conference on
Adaptive Modeling and Simulation

6-8 June 2011 Paris, France

An IACM Special Interest Conference

http://congress.cimne.com/admos2011

Objectives

Numerical Modeling and Simulation has reached an amazing level of maturity and therefore is increasingly used as a complement to Experimental Modeling and Analysis and as a design or certification tool in engineering applications. However, after more than thirty years of worldwide research efforts around Adaptive Modeling and Simulation, the problem of assessing and controlling the quality of the numerical solutions is still relevant. The design of sophisticated engineering systems requires increasingly complex and coupled modeling and increasingly time-consuming computations. Adaptive approaches, which provide reliable and cost efficient modeling and coherent coupling of different scales and mechanisms in a unique model, are more strategic and indispensable than ever.

The objective of the ADMOS 2011 conference on Adaptive Modeling and Simulation is to provide a forum for presenting and discussing the current state-of-the-art achievements in the fields including theoretical models, numerical methods, algorithmic strategies and challenging engineering applications.

ADMOS is one of the conferences that launched the ECCO-MAS series of thematic events, in 2003. It is a medium-size conference (an average of about 80 delegates), which allows for dynamic and fruitful exchanges. After four successful editions, held successively in Göteborg in 2003, in Barcelona in 2005, in Göteborg in 2007 and in Bruxelles in 2009, the fifth edition of ADMOS will take place at Ecole Centrale Paris, in Châtenay-Malabry (France).

Conference Topics

- Verification and validation
- Error estimates (exact bounds, goal-oriented, space/time/phase)
- Adaptive techniques (h, p, r, model)
- Numerical methods (FEM, BEM, FDM, Meshless, Finite Volumes)
- Meshing and remeshing, anisotropic remeshing
- Equation solvers (iterative, parallel, multigrid, preconditioning)
- Optimization
- Inverse problems
- Adaptive design loop, integration with CAD and VR
- Applications (solids, structures, fluids, acoustics, electromagnetics, environmental, multifield, multi-scale)
- Industrial and engineering applications

Conference Chairmen

Denis Aubry, Ecole Centrale Paris, France
Pedro Díez, Universitat Politècnica de Catalunya, Spain

Conference Managers

Bing Tie, Ecole Centrale Paris, France
Núria Parés, Universitat Politècnica de Catalunya, Spain

Honorary Chairman

N.-E. Wiberg, Chalmers University of Technology, Sweden

Technical Advisory Panel

M. Ainsworth, UK	P. Beckers, Belgium
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S. Prudhomme, USA	R. Rannacher, Germany
E. Rank, Germany	R. Rodríguez, Chile
K. Runesson, Sweden	L. Schwer, USA
E. Stein, Germany	P. Wriggers, Germany

Confirmed Plenary Speakers

Pierre Ladevèze, LMT, ENS Cachan, France
Anthony Patera, MIT, USA
Simona Perotto, MOX, Politecnico di Milano, Italy
Serge Prudhomme, ICES, U. Texas, Austin, USA

Important Dates

Deadline for presenting the abstract	**November 15, 2010**
Acceptance of the paper and instructions for writing the full paper	**December 15, 2010**
Deadline for submitting the full paper and early payment	**March 19, 2011**