ADMOS 2009

An ECCOMAS Thematic Conference

ADMOS 2009 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 2009 is also an IACM Special Interest Conference. More information about IACM in: **www.iacm.info**

Location

The conference will take place at the Université Libre de Bruxelles, Belgium.

Registration Fees

The registration fees, including social events, with early registration applicable if received before February 13, 2009 are:

	Early	Late
Delegates	490 €	570 €
Students	280 €	300 €

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, as well as a social programme for accompanying persons.

Conference Secretariat

International Center for Numerical Methods in Engineering (CIMNE), Edificio C1, Campus Norte UPC,
Gran Capitán s/n, 08034 Barcelona, Spain
Phone +34 934017441 Fax +34 934016517
email: admos@cimne.upc.edu
http://congress.cimne.upc.es/admos09

Supporting Organisations

· European Community on Computational Methods in Applied Sciences (ECCOMAS)
· International Association for Computational Mechanics (IACM)
· Université Libre de Bruxelles, Belgium
· Universitat Politécnica de Catalunya, Spain

ECCOMAS
Thematic Conference

ADMOS 2009

International Conference on Adaptive Modeling and Simulation

May 25-27, 2009, Brussels, Belgium

An IACM Special Interest Conference

Image © asbl Atomium - SABAM Belgium 2008.

http://congress.cimne.upc.es/admos09

Objectives

Numerical Modeling has reached an amazing level of maturity: scientists and engineers use it as complement to Experimental Modeling and Analysis and as a design tool in an extremely wide variety of problems. However, the user often forgets that answers provided by Numerical Models are affected by errors. The problem of assessing and controlling the quality of the numerical solutions is far of being solved for arbitrary models and it is in fact one of the challenges in computational mechanics for the next future. The adaptive strategies pertain to the techniques providing quality control with a minimum computational effort. The international conference in Adaptive Modeling and Simulation (ADMOS) is a forum to discuss these methods and techniques.

ADMOS is one of the conferences started with the first cohort of the ECCOMAS series of thematic events, in 2003. The first edition was held in Goteborg, Sweden in September 2003. The second edition took place in September 2005, in Barcelona. We came back to Goteborg for the 2007 edition. ADMOS is a medium-size conference with a balanced participation covering both the theoretical aspects of the subject and the engineering applications.

Conference Topics

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

Conference Chairmen

Ph. Bouillard, *Université Libre de Bruxelles, Belgium*
P. Díez, *Universitat Politecnica de Catalunya, Spain*

Honorary Chairman

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

Technical Advisory Panel

P. Beckers, *Belgium*
T. Belytschko, *USA*
A. Huerta, *Spain*
C. Johnson, *Sweden*
T. Kvamsdal, *Norway*
P. Ladevèze, *France*
M.G. Larson, *Sweden*
H. Mang, *Austria*
K. Mathisen, *Norway*
J.P. Moitinho, *Portugal*
K. Morgan, *UK*

E. Oñate, *Spain*
M. Papadrakakis, *Greece*
J. Peraire, *USA*
S. Prudhomme, *USA*
E. Rank, *Germany*
R. Rodríguez, *Chile*
K. Runesson, *Sweden*
L. Schwer, *USA*
E. Stein, *Germany*
P. Wriggers, *Germany*

Call for Papers

One page abstracts of contributions related to the topics of the conference are invited to be submitted by October 15, 2008. Authors have to register and submit their abstracts via the Conference Web Site. Notification of acceptance will be given by November 14, 2008. Then, the format for the extended abstracts to be published in the conference proceedings will be sent to the authors and included in the web page. In order to produce the proceedings in time for distribution to the delegates at the conference, extended abstracts will be required by February 13, 2009.

Format instructions: Full instructions for writing and submitting the extended abstracts will be available in due time. Authors are asked to send their collaborations in .pdf format. Other formats will not be accepted.

Important Dates

Deadline for presenting a one page abstract	October 15, 2008
Acceptance of the paper and instructions for writing an extended abstract	November 14, 2008
Deadline for submitting extended abstract and early payment	February 13, 2009
Booking of hotel accommodation as soon as possible	