



IMACS NEWS

OCTOBER 2008



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(pdf version of the 10th 2008 edition of IMACS News, sent to IMACS members)

MASCOT08

The 8th Meeting on Applied Scientific Computing and Tools Grid Generation, Approximation and Visualization (MASCOT08), the eighth edition of the MASCOT workshop series, was held in the Istituto per le Applicazioni del Calcolo-CNR, Roma, Italy, October 23-25, 2008.

This annual IMACS/ISGG event is now a well established tradition, focusing on methods and tools for the whole cycle of numerical modelling and simulation, with a particular emphasis on computational fluid dynamics applications and computer aided geometric design (CAGD). For this edition, the weather was very sweet in Rome making the workshop particularly enjoyable.

We had the chance to have a.o. Jochem Häuser as keynote speaker, who reported on the direct Monte Carlo simulation of the hypersonic flow fields of the EXPERT (European eXPERimental Test) space vehicle at high altitudes, where regimes of rarefied gas flows require shifting from the Navier-Stokes to the Boltzmann equations as soon as the mean free path between molecules becomes too large.

On the other hand, a spectacular presentation of 3D visualization applications in research, education and training was given by Bharat Soni, using advanced 3D visualization technology developed at the UAB (University of Alabama at Birmingham).

We were also, once again, and as now usual in this series of workshops, very much impressed by the high expertise of Italian female mathematicians, a.o. in CAGD.

This short overview cannot of course (nor does it intend to) give a complete view of the numerous contributions which we enjoyed to listen but only give a taste of what we could enjoy this year in Rome.

We heartily thank Rosa Maria Spitaleri and Francesca Pistella for this nice eighth MASCOT meeting.

18th IMACS WORLD CONGRESS

July 13-17 and August 3-7, 2009

We recall that our next world congress will be held in two parts :

The first part will take place in the South, at Cairns, Australia, organized in cooperation with MSSANZ, the IMACS affiliated Society in Australia and New Zealand: 18th IMACS/MODSIM World Congress, July 13-17, 2009 . It is there that the congress will be opened.

The second part will take place in the North, at the University of Georgia : 18th IMACS World Congress, August 3-7, 2009 , Athens GA, USA It is there that Technical Committee meetings, IMACS Board meetings and IMACS's General Assembly will take place, followed by the closing of the Congress.

General Chair of the Congress : Robert Vichnevetsky Congress Co-Chair : Tony Jakeman Chairs IMACS WORLD CONGRESS/Athens : Robert Beauwens, Thiab Taha Chairs IMACS/MODSIM CONGRESS/Cairns : Bob Anderssen, Roger Brad-dock

The topics covered are all those of interest to IMACS (see www.imacs-online.org) including, non exclusively, Computational and Applied Mathematics, Numerical Analysis, Modelling and Simulation, Applications in most areas of Science and Engineering, Physics, Fluid Dynamics, Environmental and Biological Sciences.

For proposing a session or submitting a paper, please consult the conference websites:
<http://www.imacs-modsim-world-congress.org> (for IMACS/MODSIM World Congress/
Cairns)
<http://www.uga.edu/imacs/>(for IMACS World Congress/ Athens)

CALENDAR OF EVENTS - NEW ANNOUNCEMENTS SOON COMING EVENTS

Please consult our calendar on our website. New announcements, not yet included in the calendar are added below (as well as possible corrections to the already announced events). We also stress soon coming events.

Date :September 14-18, 2009

Place :Martin-Luther-University Halle-Wittenberg (Germany)

The twelfth Seminar NUMDIFF on the Numerical Solution of Differential and Differential-Algebraic Equations

Topics: The conference is devoted to all numerical aspects of time-dependent differential equations

The Selected papers of NUMDIFF-12 will be published as a special issue of the IMACS Journal Applied Numerical Mathematics (APNUM).

Contact:NUMDIFF-12, c/o Helmut Podhaisky

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Organizers : B.P. Sommeijer, J.G.Verwer

Date: May 18-22 , 2009

Place : Agadir, Morocco

The International conference on :

”Numerical Analysis and Scientific Computation with Applications” (NASCA)

MAIN TOPICS: Large linear systems and preconditioning, eigenvalue problems. High-performance and parallel computation. Linear algebra and control, model reduction. Multigrid and multilevel methods. Numerical methods for PDEs’: Finite element, Finite volume, Meshless methods... Approximation, Radial Basis Functions, Scattered data approximation, Splines Optimisation. Applications: image processing, financial computation, learning machine,...

The selected papers of the conference will be published as a special issue of the IMACS Journal Applied Numerical Mathematics (APNUM)

For more informations, please refer to the web page:

<http://www-lmpa.univ-littoral.fr/NASCA09/>

or contact us at:

nasca09@lmpa.univ-littoral.fr

Date: June 22-26, 2009

Place: Roznov pod Radhostem, Czech Republic

The Fourth IMACS Conference

”Mathematical Modelling and Computational Methods in Applied Sciences and Engineering”

Devoted to Owe Axelsson in occasion of his 75th birthday

Topics of interest include: applications of computational modelling in engineering and science, modelling of multiscale and multiphysics phenomena, progress in discretization methods, efficient solvers, nonlinear problems, large scale computing, parallel algorithm etc.

The conference is organized by the Institute of Geonics AS CR and VSB - TU Ostrava, CR in cooperation with IMACS (International Association for Mathematics and Computers in Simulations)

For more informations, please refer to the web page:

<http://www.ugn.cas.cz/link/modelling09>

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IMACS

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