

INFORMATION ABOUT CONFERENCE
ON COMPUTATIONAL MECHANICS IN SERBIA

Organized by University of Kragujevac, it is held

SEECCM06

**First South-East European Conference on Computational Mechanics
Kragujevac 28-30 June 2006**

Conference Location: Faculty of Mechanical Engineering in Kragujevac

Conference Organizer: University of Kragujevac (Center for Scientific Research of Serbian Academy of Science and Art and University of Kragujevac, and Faculty of Mechanical Engineering)

Under the Auspices of: International Association for Computational Mechanics (IACM), and European Community for Computational Methods in Applied Sciences (ECCOMAS)

Sponsors: Ministry of Science and Environmental Protection of Republic of Serbia; City of Kragujevac.

Initiators and Conference Chairmen: Professors Manolis Papadrakakis, Greece; and Milos Kojic, Serbia.

President of the Organizing Committee: Professor Milos Djuran, Rector of the University

Conference Secretary: Professor Nenad Filipovic

The Basic Data About the Conference:

Following the growing success of International and National Conferences of Computational Mechanics worldwide, the National Associations of Computational Mechanics of the Balkan countries decided to launch an initiative for the organization of Balkan Conferences on Computational Mechanics every three years.

The aims of the conference are to promote achievements in Computational Mechanics in the Balkan region, to encourage research and development among young researchers, to stimulate education in Computational Mechanics at universities and to disseminate modern trends among scientists and engineers in the growing field of Computational Mechanics.

First conference is coordinated by Yugoslav (Serbian) Association for Mechanics and Greek Association for Computational Mechanics, and supported by other associations for mechanics within the Region.

The response of the authors from the Region and from many countries worldwide (authors from 21 countries: countries from the Region, Europe, from Russia, China, Iran, Japan, USA,...) was very good. More than 90 papers were presented (21 from Serbia, among which 16 from Kragujevac) in which a large number of young researchers participated.

General lectures were held by:

Herbert Mang, President of Austrian Academy of Science and President of (IACM), Vienna, Austria, **Conversion for Imperfection-Sensitive Into Imperfection-Insensitive Elastic Structures**

Eugenio Onate, President of (ECCOMAS), Barcelona, Spain, **Advances in the Particle Finite Element Method for Fluid-Structure Interaction Problems**

Panos Papdopoulos, University of California, Berkeley, USA, **Dual Finite Element Formulations for Two-Body Contact: A Review of Some Recent Results**

Mauro Ferrari, University of Houston, and Rice University, USA, **On the Dynamic Response of Micro-Cantilevers for Sensing Applications in a Fluidic Chamber**

Akira Tsuda, Harvard University, Boston, USA, **Biofluid Mechanics: Airflow and Particle Transport in the Lung**

Hermann Matthies, Technical University Braunschweig, Germany, **Numerical and Algorithmic Aspects of Coupled Problems**

Boris Jeremic, University of California, Davis, USA, **The Role of Material Variability and Uncertainty in Elastic-Plastic Finite Element Simulations**

Srboljub Mijailovic, Harvard University, Boston, USA, **Molecular Origins of Airflow Narrowing: Model Predictions of Hyperresponsiveness in Asthmatics**

Adnan Ibrahimbegovic, L.M.T. Cachan, France, **Multi-Scale and Multi-Physics Nonlinear Analysis of Material Inelastic Constitutive Behavior, Design, Control and Optimization**

Aleksandar Jovanovic, University of Stuttgart, Germany, and Nenad Filipovic, University of Kragujevac, Serbia, **The Roadmapping of the EU Materials Research (EuMaT) and an Alternative Modeling Concepts and Dissipative Particle Dynamics Method for Simulation of Particle Adsorption Onto a Polymer-Coated Surface**

The paper presentations were organized within 5 sections:

Computational Methods

Solid Mechanics

Coupled Problems

Biomechanics

Industrial Applications

The papers are printed in the Conference Proceedings

(Editors Milos Kojic and Manolis Papadrakakis).

The social program consisted of the concert in Theatre "Joakim Vujić" of Kragujevac, and visit of Oplenac. Student choir "Lyceum" from Kragujevac and the folklore ensemble of the Student Cultural Center of Kragujevac, together with our famous singer Dr. Sonja Perisic from Kragujevac, solist of Radio Television Belgrade, primadona of Serbian origin county music, and famous Bora Dugic from Kragujevac with the frula – or flute, and assemble "Smilje", participated at the concert. The songs and folklore were accompanied by the carefully prepared text explaining the background of each performance and the region to which the song or folklore were coming from. The foreign visitors could get to know Serbian cultural and historical roots.



The distinguished guests initiated establishing the Serbian Society for Computational Mechanics (SACM) with the aim to promote scientific, technical and educational activities and international collaboration in the field of Computational Engineering Sciences and related topics. The priority of SACM is to be affiliated to the ECCOMAS and to the IACM. The president of SACM is Milos Kojic, the vice-presidents are: Radovan Slavkovic, Miroslav Zivkovic and Dubravka Mijuca; and the secretary is Nenad Filipovic. The office of SACM is at Faculty of Mechanical Engineering in Kragujevac.

Information is prepared by
Miloš Kojić, professor
Harvard School of Public Health
and Faculty of Mechanical Eng.
University of Kragujevac

10. July 2006