IMPORTANT DATES

Deadline for registration 13 December 2010 Deadline for submitting 13 December 2010 extended abstract Notification of acceptance 24 January 2011 Deadline for early conference 28 February 2011 fee payment Deadline for submitting 14 March 2011 revised extended abstract Deadline for regular 11 April 2011 conference fee payment 9 May 2011 Beginning of the Conference

FEES

	Early	Regular
Participants	1200 PLN	1600 PLN
Participants below the age of 30	900 PLN	1000 PLN
Accompanying persons	700 PLN	800 PLN

The Conference fee includes:

- conference proceedings and materials
- · access to all scientific sessions
- refreshments and lunches

Please note that the banquet and accommodation are not included in the Conference fee.

ACCOMMODATION

Suggestions for the hotels nearby the Conference venue will be available on the Conference website.

CONFERENCE VENUE

The main building of the Warsaw University of Technology. Please note that the University venues are non-smoking.

19th INTERNATIONAL CONFERENCE ON COMPUTER METHODS IN MECHANICS

9 - 12 May 2011, Warszawa, Poland

ADDRESS OF THE CONFERENCE OFFICE

CMM-2011 Faculty of Civil Engineering Warsaw University of Technology al. Armii Ludowej 16 00-637 Warszawa, Poland

fax: +48 22 825 88 99 e-mail: cmm2011@il.pw.edu.pl website: http://www.cmm.il.pw.edu.pl



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19th INTERNATIONAL CONFERENCE ON

COMPUTER METHODS IN MECHANICS



Under the auspices of:

European Community on Computational Methods in Applied Sciences

and

Central European Association for Computational Mechanics

Under the patronage of:

Michał Kleiber – President of the Polish Academy of Sciences

and

Włodzimierz Kurnik – Rector of the Warsaw University of Technology

Organized by:

Warsaw University of Technology Faculty of Civil Engineering

and

Section of Mechanics of Structures and Materials, Committee on Civil Engineering and Hydroengineering,

Section of Computer Methods in Mechanics, Committee on Mechanics, Polish Academy of Sciences

and

Polish Association for Computational Mechanics

CALL FOR PAPERS

9 – 12 MAY 2011 WARSAW, POLAND

http://www.cmm.il.pw.edu.pl

SCOPE AND OBJECTIVES

The 19th International Conference on Computer Methods in Mechanics CMM-2011 continues the 38-year series of Polish conferences dedicated to numerical methods and their applications to the problems governed by the laws of mechanics.

These scientific meetings, organized since 1973 at regular two-vear intervals, have common general objective - to provide a forum for presentation and discussion of new ideas referring to the theoretical background and practical applications of computational mechanics. The program of each conference reflects current extensive research in this field of science.

Conference sessions are supplemented by exhibitions and presentations of publishing houses and software companies.

CONFERENCE TOPICS

Authors are invited to submit papers on all aspects of computer methods in mechanics. Topics of interest include, but are not limited to:

- adaptive materials systems, structures and smart materials
- artificial intelligence methods
- biomechanics
- contact mechanics
- computational intelligence
- concrete and ceramic
- materials
- coupled field problems
- dynamics of multibody systems
- experimental mechanics
- fluid mechanics, including modeling of blood flow
- geophysics
- ogrowth phenomena and

- industrial applications
- inverse problems and optimization
- mechanics of multiphase and porous materials
- mechanics of plates and shells
- omeshless and related
- methods
- multiscale problems and nanomechanics
- onumerical analysis of the initial and boundary value problems in mechanics
- parallel computing · response of structures to
- extreme actions o soft computing
- evolution of microstructures o solid. structural and
- heat transfer composite mechanics

CONFERENCE PROCEEDINGS

Extended abstracts accepted for the Conference will be collected in a book and a CD-ROM. Short abstracts of presentations will be gathered in a separate booklet. Fulllength papers contributed by plenary lecturers and keynote speakers are planned to be published in a highprofile journal.

INTERNATIONAL ADVISORY BOARD

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CONFERENCE FORMAT

The Conference will begin in Warsaw with registration and a welcome reception at the main building of Warsaw University of Technology on Sunday evening, May 8. 2011. Plenary and keynote talks as well as oral presentations will be given during joint sessions. minisymposia and parallel sessions from Monday through Thursday in the auditoria and lecture rooms of the Conference venue.

The social program of the Conference includes the banquet on one of the mid-week evenings. More information on all events will be available on the Conference website.

PLENARY LECTURES

According to the preliminary program, plenary lectures dedicated to the most recent achievements in the computational methods will be given by the following researchers of international renown: J.S. Chen, F. Jouve, T. Kowalewski. G. Meschke. B. Schrefler and T. Uhl. An up-to-date schedule of lectures will be published on the Conference website.

MINISYMPOSIA

The following minisymposia will run concurrently with the regular sessions:

- MS1. Computational Aspects of Smart Materials and Structures
- MS2. Computational Mechanics of Materials
- MS3. Structures Under Extreme Actions
- MS4. Identification and Optimization
- MS5. Growth Phenomena and Evolution of Microstructures, Applications in Solids
- MS6. Asymptotic Analysis and Singular Perturbations in Solids. Applications in Topology Optimization and Inverse Problems
- MS7. Computational Mechanics of Multiphase Porous Materials Including Durability
- MS8. Heat Transfer
- MS9. Dynamics of Multibody Systems
- MS10. Modeling of Blood Flow
- MS11. Multiscale Modeling and Nanomechanics
- MS12. Artificial Intelligence Computational Methods in Mechanics of Structures and Materials
- MS13. Meshless and Related Methods
- MS14. Computational Mechanics of Plates and Shells