

IMPORTANT DATES

Mini-symposia proposals deadline	31 December 2012
Mini-symposia acceptance deadline	15 January 2013
Abstract submission deadline	28 February 2013
Notification of acceptance	1 May 2013
Extended abstract submission deadline	30 May 2013
Early registration fees deadline	30 May 2013
Regular registration fees deadline	30 July 2013

FEES

	Early	Regular
Participants	350 EUR (or 1500 PLN)	450 EUR (or 2000PLN)
Young Scientists (below the age of 30)	250 EUR (or 1100 PLN)	270 EUR (or 1200PLN)
Accompanying persons	225 EUR (or 1000 PLN)	250 EUR (or 1100PLN)

The Conference fee includes:

- conference proceedings and materials,
- access to all scientific sessions,
- refreshments and lunches,
- banquet and gala evening,
- half day tour.

ACCOMMODATION

Suggestions for the hotels nearby the Conference venue are available on the Conference website.

ADDRESS OF THE CONFERENCE OFFICE

CMM-2013
Institute of Structural Engineering
Poznan University of Technology
ul. Piotrowo 5,
60-965 Poznań, Poland

fax: +48 61 876 61 16

e-mail: cmm2013@put.poznan.pl

www: <http://www.cmm2013.put.poznan.pl>

SCOPE AND OBJECTIVES

The **20th International Conference on Computer Methods in Mechanics CMM-2013** continues the 40-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-year 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 has reflected 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
- growth phenomena and evolution of microstructures
- heat transfer
- industrial applications
- inverse problems and optimization
- mechanics of multiphase and porous materials
- mechanics of plates and shells
- meshless and related methods
- multiscale problems and nanomechanics
- numerical analysis of the initial and boundary value problems in mechanics
- parallel computing
- response of structures to extreme actions
- soft computing
- solid, structural and composite mechanics

PUBLICATIONS

Proceedings. Authors are invited to submit a two-page abstract that will be published in the CMM-2013 conference proceedings entitled *Conference Papers* and on a *USB-stick*. The organizing committee shall endeavour to include the *Conference Papers* book into the Web of Science database. Templates for preparing two-page and extended abstracts are available on the Conference website.

Post-Conference book (CRC Press/Balkema). We are pleased to inform that the CRC Press/Balkema has decided to publish the full length papers in a special hard-cover volume dedicated to CMM2013. The CRC Press/Balkema shall submit this special volume to the Web of Science database.

Journals. The authors who will present 2-page abstract to the conference proceedings are encouraged to publish their full-length papers in scientific journals of their choice. We will arrange a possibility and suggest the publication in one of prestigious journals. The list of the journals will be published on the Conference website soon.



20th INTERNATIONAL CONFERENCE ON COMPUTER METHODS IN MECHANICS

Honorary Patronage

Prof. Michał Kleiber

President of the Polish Academy of Science

RECTOR

of the Poznan University of Technology

Auspices

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

**Section of Computational Methods and
Optimization,** Committee on Mechanics, PAS

Committee on Mechanics, PAS

Polish Association for Computational Mechanics

CALL FOR PAPERS

27 – 31 AUGUST 2013
POZNAŃ, POLAND

<http://www.cmm2013.put.poznan.pl>
2nd announcement

MINI-SYMPOSIA

MS-01 **P. Steinmann, J-F. Ganghoffer**

Growth and remodelling in the framework of shape and topology optimization

MS-02 **J. S. Leszczynski, M. Hall**

Analysis and modelling of coupled transport phenomena in complex materials and structures

MS-03 **A. Glema, Z. Kacprzyk, J. Magiera, A. Tomana**

BIM – BuildingSmart

MS-04 **J. Outinen, A. Glema, E. Blazik-Borowa**

Structural Fire Engineering

MS-05 **A. Garstecki, T. Lewiński, N. Olhoff, J. Sokołowski**

Optimization of Materials and Structures

MS-06 **T. Kubiak, V. Ungureanu**

Numerical methods in thin-walled structures analysis

MS-07 **B. Boni, W. Kąkol, A. Borkowski**

Industrial Application in Solid and Fluid Mechanics

MS-08 **J. Małachowski, E. Cadoni, J. A. Rodríguez-Martínez**

Numerical methods in analysis of structures subjected to extreme loading conditions

MS-09 **E. Majchrzak, B. Sarler, B. Mochnacki**

Heat and Mass Transfer

MS-10 **W. Cecot, W. Rachowicz, G. Zboinski**

Adaptive methods and error estimation

MS-11 **T. Burczynski, J. Fish, M. Pietrzyk**

Multiscale Modelling of Materials and Structures

MS-12 **J. Orkisz, S. R. Idelsohn, S. Milewski**

Meshless and related methods

MS-13 **J. Pamin, L.J. Sluys, J. Tejchman**

Computational Mechanics of Concrete and Geomaterials

MS-14 **R. Buczkowski, P. Litewka, A. Zmitrowicz**

Contact Mechanics

MS-15 **M. Kuczma, J. Schröder, G. Szefer, V. Kompis, M. Zmindak**

Composite materials and structures

THEMATIC SESSIONS

TS1: Dynamics Chairman: Cz. Bajer

TS2: Mechanics of Structures Chairman: W. Sosnowski

TS3: Material Properties Chairman: J. Rojek

TS4: Fluid Mechanics Chairman: T. Kowalewski

TS5: Damage and Failure Chairman: T. Niezgodą

TS6: Biomechanics Chairman: R. Będziański

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H. Napieralska, Z. Pawlak, Z. Pozorski, K. Rzeszut, R. Studziński, P. Wielentejczyk.

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:

Professor **Jacob Fish** - Columbia University, USA

Professor **John W. Hutchinson** - Harvard University, USA

Professor **Sergio R. Idelsohn** - Technical University of Catalonia, Spain

Professor **Manolis Papadrakakis** - National Technical University of Athens, Greece

Professor **Umberto Perego** - Politecnico di Milano, Italy

Professor **Stanisław Stupkiewicz** - Institute of Fundamental Technological Research, Poland

Professor **George Z. Voyiadjis** - Louisiana State University, USA

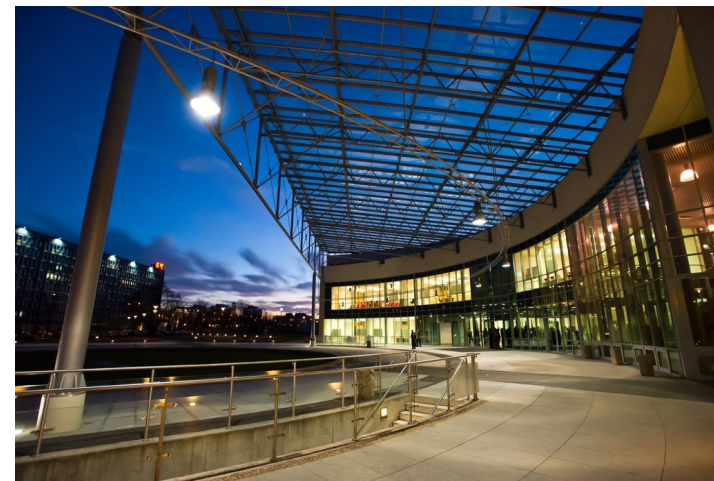
Professor **Krzysztof Wilde** - Gdansk University of Technology, Poland

Professor **Peter Wriggers** - Leibniz Universität Hannover, Germany.

An up-to-date schedule of lectures will be published on the Conference website.

CONFERENCE VENUE

Scientific events will take place at the Poznan University of Technology Educational Center, Piotrowo 3 St. in Poznań, POLAND.



Poznan University of Technology Educational Center

SEE YOU IN POZNAŃ!