

## IMPORTANT DATES

Mini-Symposia proposals deadline	January 31, 2015
Mini-Symposia acceptance deadline	February 15, 2015
<b>Abstract submission deadline</b>	<b>February 28, 2015</b>
Notification of acceptance	May 15, 2015
Early registration fees deadline	May 31, 2015
Regular registration fees deadline	July 30, 2015
<b>Full paper submission deadline</b>	<b>October 15, 2015</b>

### Registration:

The registration of participation, the submission of abstracts, the notification of acceptance and the qualification for oral or poster presentation **will only be carried out electronically**

## FEES

	Early	Regular
Participants	350 € (1450 PLN)	450 € (1850 PLN)
Young scientists (age < 30)	250 € (1050 PLN)	300 € (1250 PLN)
Accompanying persons	225 € (950 PLN)	250 € (1050 PLN)

### The fee includes:

proceedings and materials  
access to all scientific sessions  
refreshments and lunches  
get-together party  
banquet  
guided excursion

## VENUE

The officially appointed place of the PCM-CMM-2015 is Gdańsk University of Technology  
Narutowicza 11/12, 80-233 Gdańsk, Poland

## ACCOMMODATION

Suggestions for the hotels will be available on the PCM-CMM-2015 website soon

# The 3<sup>rd</sup> Polish Congress of Mechanics and The 21<sup>st</sup> International Conference on Computer Methods in Mechanics

September 8-11, 2015  
**Gdańsk, Poland**

## OFFICE

PCM-CMM-2015 Organizing Committee  
Department of Structural Mechanics  
Faculty of Civil and Environmental Engineering  
Gdańsk University of Technology  
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## WEBSITE & E-MAIL

<http://www.pcm-cmm-2015.pg.gda.pl>  
e-mail: [pcm-cmm-2015@pg.gda.pl](mailto:pcm-cmm-2015@pg.gda.pl)

## ORGANIZING COMMITTEE

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organized by

Polish Society of Theoretical and Applied Mechanics

Polish Association for Computational Mechanics

Institute of Fundamental Technological Research of the Polish Academy of Sciences

Committee on Mechanics of the Polish Academy of Sciences

Committee on Civil Engineering and Hydroengineering of the Polish Academy of Sciences

Committee on Machine Building of the Polish Academy of Sciences

Institute of Fluid-Flow Machinery of the Polish Academy of Sciences

Gdańsk University of Technology



## SCOPE AND OBJECTIVES

### The 3<sup>rd</sup> Polish Congress of Mechanics

sustains the idea of scientific meetings of mechanics, initiated 8 years ago in Warsaw.

The Congress presents the current state of research in the field of mechanics;

reviews issues related to the education of engineers; analyses the relations between scientific community and economy and correlates those issues to technology transfer in the field of mechanics and related disciplines.

**Previous edition:** <http://www.kmp2011.put.poznan.pl/>

**The 21<sup>st</sup> International Conference on Computer Methods in Mechanics** continues the 44-year series of conferences dedicated to numerical methods and their applications to the mechanics-based problems.

The meetings, organized biannually since 1973, provide a forum for presentation and discussion of new ideas referring to the theoretical background and practical applications of computational mechanics.

**Previous edition:** <http://www.cmm2013.put.poznan.pl/>

**In 2015, the 3<sup>rd</sup> PCM and the 21<sup>st</sup> CMM will be a joint scientific event: PCM–CMM–2015!**

## FORMAT

The plenary and keynote talks, joint sessions, mini-symposia and parallel sessions as well as oral and poster presentations, will be given in the auditoria and lecture rooms of Gdańsk University of Technology and Institute of Fluid-Flow Machinery in Gdańsk. The language of the PCM–CMM–2015 will be English.

The social program includes a get-together party, a banquet and a guided excursion.

More information on all events will be available soon on the PCM–CMM–2015 website.

## PROCEEDINGS

Abstracts accepted for the PCM–CMM–2015 will be printed in a **Book of Abstracts**.

Articles contributed by keynote speakers and selected full papers will appear in the **hard-cover volume of Proceedings published by CRC Press/Balkema (Taylor & Francis Group)**.

In addition, a **list of recommended journals**, to which the proposed articles may be submitted, will be given.

Details of the article format and the list of journals will be given soon on the PCM–CMM–2015 website.



## TOPICS

Authors are cordially invited to submit papers on all aspects of theoretical, applied and computational mechanics, including:

### • solid, fluid, structural and interphase mechanics:

- adaptive, functional, smart materials and nanomaterials
- mechanics of composite, multiphase and porous materials
- interphase and contact mechanics of multibody and multiflows systems
- evolution of microstructure: turbulence, rheology, plasticity, creep and damage
- mechanics of phase-change undergoing continua
- mechanics of plates, shells and multipolar continua
- unstationary response of fluid and solid bodies under extreme actions
- nonlinear dynamics, chaos

### • computational approaches in mechanics

- artificial intelligence methods
- computational intelligence
- sensitivity and reliability analysis
- inverse problems and optimization
- advanced Finite Element Method, Finite Volume Method and Boundary Element Method
- meshless and related methods
- numerical analysis of the initial and boundary value problems
- parallel computing
- soft computing
- analytical methods

### • interdisciplinary issues in mechanics

- fluid – structure interactions
- biomechanics
- coupled field problems, energy harvesting
- mechatronics, MEMS, NEMS
- deformation and flow control
- multiscale problems and nanomechanics
- challenges in tutoring of mechanics
- forum of young scientists in the field of mechanics

## PLENARY LECTURERS

Plenary lectures dedicated to the most recent achievements in all aspects of theoretical, applied and computational mechanics will be given by the following researchers of international renown:

**Jorge Ambrósio** Technical University of Lisbon, Portugal

**Marc Geers** Technical University of Eindhoven, The Netherlands

**Reinhold Kienzler** University of Bremen, Germany

**Tomasz Kowalewski** IFTR of PAS, Poland

**Zbigniew Kowalewski** IFTR of PAS, Poland

**Mieczysław Kuczma** Technical University of Poznań, Poland

**Tadeusz Kurtyka** European Organization for Nuclear Research - CERN, Switzerland

**Waldemar Rachowicz** Technical University of Kraków, Poland

**Ekkehard Ramm** University of Stuttgart, Germany

**Alfredo Soldati** University of Udine, Italy

**Viggo Tvergaard** Technical University of Lyngby, Denmark

## CHAIRMANSHIP

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**Arkadiusz Mężyk** Silesian University of Technology, President of the Polish Society of Theoretical and Applied Mechanics

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## HONORARY PATRONAGE

**Minister of Science & Higher Education**

**Marshal of the Pomorskie Voivodeship**

**Rector of the Gdańsk University of Technology**

**Director of the Institute of Fluid-Flow Machinery of the Polish Academy of Sciences**