



Institute of Fundamental
Technological Research
and
Committee on Mechanics

38th SOLID MECHANICS
CONFERENCE



Warsaw, Poland
August 27-31, 2012



SECOND ANNOUNCEMENT

<http://solmech2012.ippt.gov.pl/>

General

The series of Solid Mechanics Conferences have been organized by the Institute of Fundamental Technological Research since 1953. The conferences have maintained high scientific standard and served as a forum for exchange of ideas and research information. Traditionally a set of invited lectures have been presented at the Conferences by outstanding researchers. The aim of the Conference is to bring together the researches from different countries and to create them the possibilities for the presentation of scientific results from a wide area of solid mechanics.

Thematic Sessions and Chairmen

Micromechanics, Interfaces and Multi-Scale Modelling:
J. Schroeder (Germany) & S. Stupkiewicz (Poland),

Fracture, Damage and Fatigue of Materials:
J. Fernandez-Saez (Spain) & Z. Nowak (Poland),

Continuum Mechanics, Elasticity and Plasticity
(Special Session in Memory of Jan Rychlewski):
*K. Kowalczyk-Gajewska (Poland)
& P. Lipinski (France) & P. Perzyna (Poland),*

Experimental Mechanics:
Z. Kowalewski (Poland) & A. Rusinek (France),

Biomechanics:
T. Lekszycki (Poland) & P.J. Prendergast (Ireland),

Geomechanics:
*Z. Mroz (Poland) & S. Pietruszczak (Canada) & J.
Tejchman (Poland),*

Smart Materials and Structures:
C. Boller (Germany) & J. Holnicki-Szulc (Poland),

Structural Mechanics, Optimization and Reliability:
K. Dems (Poland) & R. Stocki (Poland),

Shells and Plates:
W. Pietraszkiewicz (Poland) & K. Wisniewski (Poland),

Computational Aspects of Solid Mechanics:
T. Burczynski (Poland) & E. Onate (Spain),

Nonlinear and Stochastic Dynamics:
R. Iwankiewicz (Germany) & Z. Kotulski (Poland)

Invited Plenary Lectures

Francesco dell'Isola, Italy
*Contact interactions in generalized N-th gradient continua:
mathematical foundations and a view to the applications*

Zbigniew Kowalewski, Poland
*Interdisciplinary methods for damage assessment of
materials subjected to creep and fatigue*

Sebastien Mercier, France
Multiple necking and dynamic damage problems

Dirk Mohr, France/USA
*Multi-axial static and dynamic experiments to
investigate the effect of stress triaxiality and Lode angle
on ductile fracture*

Eugenio Oñate, Spain
*Advances in the particle finite element method for
multidisciplinary problems in solid mechanics*

Wojciech Pietraszkiewicz, Poland
Resultant thermodynamics of shells

Fabrizio Scarpa, UK
Auxetics: From foams to composites and beyond

Stanisław Stupkiewicz, Poland
*Interfacial energy effects in micromechanical modelling
of shape memory alloys*

Dieter Weichert, Germany
On recent progress in limit and shakedown analysis

Abstracts

Abstracts should be submitted electronically on-line via <http://solmech2012.ippt.gov.pl/>. Two-page camera-ready extended abstracts in English are due by **February 28, 2012. Extended to March 18, 2012.**

Guidelines will be available at the Conference website. Authors will receive notification of acceptance of their proposed contribution after a reviewing procedure. A book of abstracts will be distributed to participants during the conference.

We will encourage all the authors to submit **full length papers** after the conference for publication according to a usual peer review procedure in *Archives of Mechanics* or in *Engineering Transactions*.

Scientific Committee

J. Badur	J. Kubik	B. Raniecki
M. Basista	Z. Kowalewski	B. Skoczeń
A. Borkowski	T. Łodygowski	K. Sobczyk
T. Burczyński	Z. Mróz	S. Stupkiewicz
K. Dems	A. Nowicki	G. Szefer
P. Dłużewski	P. Perzyna	J. Tejchman
W. Gutkowski	H. Petryk	A. Tylikowski
M. Kleiber	R. Pęcherski	K. Wiśniewski
W. Kosiński	W. Pietraszkiewicz	
Z. Kotulski	M. Pietrzyk	

Organizing Committee

R. Pęcherski – Chairman of the Conference
J. Rojek – Scientific Secretary
M. Nowak, P. Tauzowski - Managing assistants
U. Czubacka - Secretary

Registration

Registration for the conference should be performed on-line using the registration form available at the conference web site <http://solmech2012.ippt.gov.pl/>

Conference Fee

Registration fee includes:

- welcome reception, participation in all sessions, coffee and beverages during two breaks each day, lunches, a concert, Warsaw sightseeing,
- conference materials,
- Gala Dinner (not included in standard fee).

Registration fee:

- **Standard: 1430 PLN** (before May 31, 2012) or **1680 PLN** (after May 31, 2012).
- **Full** (includes the Gala Dinner): **1820 PLN** (before May 31, 2012) or **2070 PLN** (after May 31, 2012).
- Accompanying person: **800 PLN**.

The fee reduction is possible for students and junior scientists who have submitted an abstract. Applications for the fee reduction should be submitted until May 31, 2012.

Conference Site

Warsaw the capital of Poland, is located in the very centre of Europe. Frederic Chopin Airport is situated only 10 kilometres from the conference venue. There is direct connection from the airport to the downtown and the conference site.



Conference will take place in The Old Library of Warsaw University, ul. Krakowskie Przedmieście 26/28. Recently the Library has been renovated and become a conference centre. Near to the conference site, ul. Krakowskie Przedmieście 66 is the place, where Maria Skłodowska performed her first experiments on physics and chemistry.



"After all, science is essentially international..."

Maria Skłodowska-Curie (1867-1934)
born in Warsaw.

Conference Partner



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<http://www.globalwings.pl>

Conference Programme

Participants Registration and Welcome Reception begins on Sunday, 26th August at 6 p.m. Opening Session starts on Monday, 27th August at 9 a.m. Gala Dinner: Thursday, 30th August at 8 p.m. The conference closes with lunch on Friday, 31st August at 2 p.m.

Accommodation

Accommodation is not included in the Conference fee. A variety of hotels of various standards and convenient locations in Warsaw can be advised by Conference Partner Global Wings. For participants of the conference, accommodation is offered at special conference rates. Detailed information about the hotels' locations, room standards and prices can be found at the Global Wings web page. Registered participants may reserve rooms at these hotels after login.

Contacts

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Conference sponsor

