Important Dates
Submission of a two page abstract     28 February 2017
Acceptance of the paper         31 March 2017
Early payment 14 April 2017
Final announcement 14 May 2017
Beginning of the Conference 31 May 2017

Registration Fees
Early and late registration fees are:

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<th>Early</th>
<th>Late</th>
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<tbody>
<tr>
<td>Delegates</td>
<td>350 €</td>
<td>400 €</td>
</tr>
<tr>
<td>Students</td>
<td>175 €</td>
<td>200 €</td>
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<tr>
<td>Accompanying persons</td>
<td>150 €</td>
<td>175 €</td>
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The registration fee will cover: a book of abstracts, participation in all scientific sessions, lunches, coffee breaks, conference dinners and planned tourist attractions.

Accommodation
Block reservation at preference rates will be arranged by the organizers in the Castle Hotel as well as in the surrounding guest houses. A shuttle communication will be organized between Krasiczn and Rzeszow. More information can be found on the conference website.

Social Programme
A social programme for delegates and accompanying persons will be arranged. Half-day and longer excursions will be proposed and their list will be also available on the conference website.

Organizing Committee
Z. Waszczyszyn - Chairman
L. Ziemiański - Co-Chairman
P. Nazarko - Secretary

Conference Secretariat
Department of Structural Mechanics
Rzeszow University of Technology
Poznańska 2, 35-084 Rzeszow, Poland
phone: +48 178651535, fax: +48 178651173
e-mail: ipm@prz.edu.pl
website: ipm.prz.edu.pl

Supporting Organizations
Polish Association for Computational Mechanics
Department of Technical Sciences, Polish Academy of Sciences,
Rzeszow University of Technology,
Polish Academy of Arts and Sciences

ipm.prz.edu.pl
Objectives
Inverse Problems in Mechanics (IPM) are related to the analysis of excitations for known responses of the Mechanical System (MS) and/or searching the structure of MS and its parameters. IPM can be ill posed or ill conditioned so they need regularization and various optimization techniques to eliminate non-uniqueness of solutions and instabilities of algorithms. The Inverse Mechanics (IM) attracts attention mainly because of its close relations to many design problems. IM opens the door to the assessment of real structures and materials. Inverse problems are difficult for modelling and analysis since they need the application of advanced hard and soft computational methods supported on various experimental techniques. Multiscale modelling and homogenization methods have to be completed by efficient parametric identification and data banks with results of measurements on laboratory models or real structures. IM is commonly used to detection of damage, health monitoring and durability prediction of not only structures but also other systems, e.g. related to biomechanical problems of materials and structures.

The 4th ECCOMAS Thematic Conference IPM 2017 is a continuation of the IPM Symposia held in 2009, 2011 and 2013. The main objectives of the Conference IPM 2017 are to get together scientists, engineers and researchers working in various fields of inverse mechanics to make a forum for information exchange and discussion of new research and applications in engineering. The organizers will try attract also PhD students and young researchers.

Conference topics
- Advanced mathematical methods for modelling and analysis of Inverse Problems in Mechanics (IPM)
- Intelligent computing (machine learning and especially neural networks, fuzzy sets, evolutionary methods and strategies, immunological systems)
- Damage detection and health monitoring in structures and materials of civil and mechanical engineering
- Advanced methods for material and structure parameter identification and calibration
- Probabilistic identification and Bayesian inference in IPM, Kalman filter methodology
- Sensitivity analysis in IPM of biomechanical systems
- Topology and shape parameter identification, computational tomography, relation to optimal design for unspecified topology and boundary shape
- Hybrid systems in updating of computational models

Conference Chairman
T. Burczynski Institute of Fundamental Technological Research of the Polish Academy of Sciences, Warsaw, Poland
Z. Mróz Polish Academy of Sciences, Warsaw, Poland
Z. Waszczyznsyn Polish Academy of Sciences, Warsaw, Poland, Polish Academy of Arts and Sciences

Scientific Secretary
P. Nazarko Rzeszow University of Technology, Poland

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An ECCOMAS Thematic Conference
IPM 2017 is one of the Thematic Conferences of ECCOMAS. For further information visit: www.eccomas.org.

Submission of abstracts and publication of papers
Authors are invited to submit electronically two-page abstracts of their contributions using forms from the Conference website. In addition, a number of presented papers will be selected by the members of the Scientific Advisory Board and chairmen of Conference sessions for publishing in special issues of two international scientific journals: Computer Assisted Mechanics and Engineering Sciences (CAMES), Inverse Problems in Science and Engineering (IPSE).

Venue
The Conference IPM 2017 will be held in Krasiczyn. Krasiczyn is a country town in south-eastern Poland. It lies about 10 kilometres west of Przemyśl and 60 km south-east of the regional capital Rzeszów. Rzeszów is an economic, scientific and cultural centre of the southeastern Poland. It is in the middle of the region what used to be the Central Industrial District (COP in Polish). It has been established after Poland’s resurrection after 1918 and still is a symbol of Polish successful effort to be a truly independent European country. The Rzeszow University of Technology continues the tradition. Besides an excellent Department of Mechanical and Aircraft Engineering, a unique centre for the education and training of civil aviation pilots is well known in Poland and abroad. All lectures of the IPM 2017 will be held in the Castle and Park Complex in Krasiczyn. This place is unique because of the beautiful historic castle with unusual precious sgraffito decoration on the walls surrounded by one of the most beautiful parks in Poland. The castle in Krasiczyn is one of the greatest treasures of Renaissance in Poland and ranks among the most beautiful castles in Europe. More information about the venue as well as local tourist attractions can be found on the conference website.