

## Preface

The present issue of *Technische Mechanik* contains the proceedings of the

**3rd International Conference on Material Modelling (ICMM3)**

incorporating the

**13th European Mechanics of Materials Conference (EMMC13)**

which took place September 8 - 11, 2013 at the Old Library Building of the University of Warsaw, Poland. The conference was organized by Paweł Dłużewski and his team of the Institute of Fundamental Technological Research, Polish Academy of Sciences.

During the last decades material modelling has become a field of central scientific importance. With these conferences we intend to provide a forum for the discussion of a wide spectrum of aspects in the field of material modelling as initiated in 2009 in Dortmund with ICMM1 and continued in 2011 in Paris with ICMM2.

Although there exist many workshops, meetings, and colloquia on particular aspects, specific materials, and particular applications of material modelling, there is some need for a coherent conference series dedicated to material modelling in all its various facets. To this end, the aim of the conference series is to bring together researchers from various fields of material modelling to foster bridges between different disciplines including materials science, mechanics, physics, chemistry, etc. This provides an excellent opportunity for the interaction between scientists working in different branches of material mechanics.

230 persons from 29 different countries attended the conference. The largest delegations came from Germany (62), Poland (48), France (33), The Netherlands (13), Japan (10), Algeria (8), Italy (7), Russia (7), and the Czech Republic (7). The participation shows still a strong interest in such conferences focussing on the modelling and understanding the behaviour of materials.

The participants of the conference were asked to publish their results in the present format after the usual peer reviewing process. As a result we publish 9 contributions in this volume in alphabetical order after the leading author. All papers are also be made available for everybody in electronic form on the site

[www.ovgu.de/techmech](http://www.ovgu.de/techmech)

or directly

[www.ovgu.de/ifme/zeitschrift\\_tm/02\\_HTML\\_Inhalt/2014.htm](http://www.ovgu.de/ifme/zeitschrift_tm/02_HTML_Inhalt/2014.htm)

In addition, the contributions will be optionally available in printed form and as a DVD. For ordering please contact the editorial office, see also [www.ovgu.de/techmech](http://www.ovgu.de/techmech)).

The next conference ICMM4 of the series will be organized at the University of California in Berkeley, USA in May, 27 -29, 2015, see

<http://icmm4.usacm.org/>

Paweł Dłużewski (local organizer of ICMM3/EMMC13)

Albrecht Bertram (editor of *Technische Mechanik*)

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The participants of ICMM3 in front of the Old Library (photo by Piotr Tazowski, ©2013)