

# Journal of Mechanics of Materials and Structures

## PREFACE

Bogdan T. Maruszewski, Wolfgang Muschik, Andrzej Radowicz  
and Krzysztof W. Wojciechowski

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BOGDAN T. MARUSZEWSKI, WOLFGANG MUSCHIK,  
ANDRZEJ RADOWICZ AND KRZYSZTOF W. WOJCIECHOWSKI

*Guest Editors*

Trends in Continuum Physics (acronym TRECOP) is the name of the scientific branch that concerns and focuses itself around many physical problems which can be described by continuum models. Special emphasis is placed on the representation of various concepts applied to different physical fields interacting with each other. Special stress is put on the mechanical side of the investigations made within TRECOP.

The scope of the TRECOP includes fundamentals of continuum physics, new trends in thermodynamics and in electrodynamics, physics of materials (encompassing defective crystals, ferroic crystals, liquid crystals, molecular crystals, high-temperature superconductors, semiconductors, plasma, polymers, amorphous media, smart materials, and anomalous material phenomena (such as auxetics, negative thermal expansion and other negative ones in materials)), biophysics, biomedical mechanics, multiphase systems, and multiscale also nanoscale problems. These fields have been developing fast in recent years. So TRECOP as itself can be treated as an young branch of research.

The Trends in Continuum Physics as the scientific branch was born and then was developed by international symposia which had the same name. The idea to organize those meetings comes from three persons: Bogdan T. Maruszewski, Wolfgang Muschik and Andrzej Radowicz. The symposia took place since 1998: in Poznań, Poland (1998, 2001, 2004, 2014), in Lviv, Ukraine (2007) and in Msida, Malta (2010). One of the main aims of those meetings has initially been to bring together scientists from Eastern Europe working in different fields of continuum physics, broadly understood, as well as those from Western and Central Europe, in order to extend their cooperation and to create new connections and acquaintances.

In this place should be presented a list (certainly incomplete) of scientists who have been developing the TRECOP scientific branch:

- Vladimir Alshits* — Institute of Crystallography, Russian Academy Sciences,  
Moscow, Russia
- Jan Awrejcewicz* — Łódź University of Technology, Łódź, Poland
- Arkadi Berezowski* — CENS — Institute of Cybernetics, Tallinn, Estonia
- Yaroslav Burak* — Institute of Applied Mathematics and Mechanics, Ukrainian  
National Academy of Sciences, Lviv, Ukraine
- Yevhen Chaplya* — Pitstrihach Institute of Applied Problems of Mechanics and Mathematics,  
Ukrainian National Academy of Sciences, Lviv, Ukraine

- Enzo Ciancio* — Università di Messina, Messina, Italy  
*Juri Engelbrecht* — Estonian Academy of Sciences, Tallinn, Estonia  
*Joseph N. Grima* — University of Malta, Msida, Malta  
*Karl H. Hoffmann* — Chemnitz University of Technology, Chemnitz, Germany  
*David Jou* — University of Barcelona, Barcelona, Spain  
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*Józef Kubik* — Kazimierz Wielki University, Bydgoszcz, Poland  
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*Henryk Petryk* — Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland  
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*Jeremiah Rushchitsky* — Institute of Mechanics, Ukrainian National of Sciences, Kiev, Ukraine  
*Jarosław Rybicki* — Gdańsk University of Technology, Gdańsk, Poland  
*Czesław Rymarz* — Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland  
*Igor Selezov* — Institute of Hydromechanics, Ukrainian National Academy of Sciences, Kiev, Ukraine  
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*Gwidon Szefer* — Cracow University of Technology, Cracow, Poland  
*Alfons A. F. van de Ven* — Eindhoven University of Technology, Eindhoven, The Netherlands  
*Krzysztof W. Wojciechowski* — Institute of Molecular Physics, Polish Academy of Sciences, Poznań, Poland

BOGDAN T. MARUSZEWSKI: bogdan.maruszewski@put.poznan.pl  
 Institute of Applied Mechanics, Poznań University of Technology, ul. Jana Pawła II 24, 60-965 Poznań, Poland

WOLFGANG MUSCHIK: muschik@mailbox.tu-berlin.de  
 Institut für Theoretische Physik, Technische Universität Berlin, EW 7-1, Hardenbergstraße 36, 10623 Berlin, Germany

ANDRZEJ RADOWICZ: radowicz@tu.kielce.pl  
 Chair of Mechanics, Kielce University of Technology, ul. Tysiąclecia, Państwa Polskiego 7, 25-314 Kielce, Poland

KRZYSZTOF W. WOJCIECHOWSKI: kww@ifmpan.poznan.pl  
 Institute of Molecular Physics, Polish Academy of Sciences, ul. Smoluchowskiego 17, 60-179 Poznań, Poland

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## Special issue

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