

Preface

This book is a collection of papers dedicated to the memory of Prof. Dr. Krzysztof Wilmański. It contains the written form of many contributions to the 2nd International Conference on *Continuous Media with Microstructure* held in Łagów, Poland, March 2–5, 2015 (Fig. 1).

CMwM2015, also announced as an ECCOMAS Special Interest Conference, was organized by the Polish Academy of Sciences, Poznan University of Technology, Berlin University of Technology, and the Polish Association for Computational Mechanics. Many friends and colleagues of Prof. Krzysztof Wilmański eagerly accepted the invitation of the conference chairpersons Bettina Albers (at that time: TU Berlin) and Mieczysław Kuczma (Poznan UT). Professor Krzysztof Wilmański regrettably passed away on August 26, 2012 but would have celebrated his 75th birthday on March 1, 2015. The 1st conference CMwM took place in Zielona Góra, Poland, in 2010 to celebrate the 70th birthday of Prof. Wilmański. At this occasion he received the first part of the book *Continuous Media with Microstructure*. That book contains further information about him, especially a photo, his curriculum, and his publication list (Reference: Albers, B. (ed.):



Fig. 1 Participants of the 2nd International Conference on Continuous Media with Microstructure

Continuous Media with Microstructure. Collection in Honor of Krzysztof Wilmanski, Springer, Berlin, Heidelberg, 2010, ISBN 978-3-642-11444-1).

CMwM2015 was a conference with an intimate atmosphere, attended by nearly 40 scientists from Brazil, Czech Republic, Estonia, Georgia, Germany, Italy, Poland, Russia, and the USA, who gave 35 presentations.

The general lectures were delivered by

- Tadeusz Burczyński on *Intelligent optimization of media with microstructure*,
- Carlo Giovanni Lai on *Measurement of damping ratio spectra in soils from the exact solution of Kramers-Krönig equations of linear viscoelasticity*,
- I-Shih Liu on *A mixture theory of porous media and some problems of poroelasticity*,
- Martin Ostoja-Starzewski on *Continuum mechanics beyond the second law of thermodynamics*,
- Jörg Schröder on *A FE^2 -homogenization scheme for the analysis of product properties of two-phase magnetoelectric composites*, and
- David M.J. Smeulders on *Electrokinetic experiments in porous media for energy applications*.

The contributions to the book concern various aspects of extension of classical continuum models and of engineering applications of continuum theories. In particular, the contributions deal with the following subjects:

- continuum mechanics,
- thermodynamics,
- porous and granular media,
- engineering applications.

We would like to kindly thank both the participants of *CMwM2015* and the contributors to the current book for the nice cooperation and for their commitment. Furthermore, we are grateful for technical work, especially the transformation of some contributions into LaTeX, by Benedikt Preugschat. Last but not least we appreciate very much the pleasant collaboration with Springer, especially with Christoph Baumann who accepted the publication of this book.

Essen
Poznań
October 2015

Bettina Albers
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Continuous Media with Microstructure 2

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2016, XV, 418 p. 112 illus., 49 illus. in color., Hardcover

ISBN: 978-3-319-28239-8