Special Issue of 7th European Thermal-Sciences Conference

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This special issue is dedicated to the seventh European Thermal-Sciences Conference (EUROTHERM 2016) held in Krakow, Poland in June 2016. The European Thermal-Sciences Conferences are taking place since 1992 all over in Europe. EUROTHERM 2016 in Krakow followed successful conferences in Birmingham (1992, 2004), Rome (1996), Heidelberg (2000), Eindhoven (2008), Poitiers, Futuroscope (2012).

The seventh European Thermal-Sciences Conference was organized under the auspices of the EUROTHERM Committee. The goal of this conference was to provide a forum for the exposure and the scientific exchange of ideas, methods and research results in mainly fundamentals of heat transfer, fluid mechanics and thermodynamics.

This EUROTHERM 2016 conference comprised invited lectures, oral sessions and poster sessions. Seven state-of-the-art keynote lectures were delivered by the world leading experts. All contributed papers of this conference have been peer reviewed and recommendations were received from 178 reviewers. The total number of submitted eligible abstracts was 258, and 232 authors have been invited to prepare full papers. Finally, 216 papers were selected for presentation at the EUROTHERM 2016. Those papers were delivered in 31 oral sessions and 2 poster sessions. The total number of participants of the EUROTHERM 2016 conference was about 250 from 28 countries.

The formal and informal sessions, poster representations and come-together included a large variety of topics: Advanced Energy and Environmental Systems,

Aerospace Technology, Biotechnology and Medical Engineering, Computational/Numerical Methodology, Combustion and Jets, Convection and Conduction, Fluid Mechanics and Turbulence, Heat and Mass Transfer, Heat Transfer in Life Sciences, Inverse Thermal Problems, Miscellaneous Applications, Micro-Electro-Mechanical Systems, Molecular Transport, MHD and Plasma, Micro Nano Systems, Material Processing, Measurement and Experimental Techniques, Two-phase/Multiphase Flows, Phase Change Processes, Heat Transfer in Porous Media, Thermal Radiation. Additionally, a mini-symposium and special sessions were organized within the general subjects of this conference dealing with topics of very specified technical applications like R744 (CO₂) Ejector Refrigeration Systems and very actual topics as Clean Coal and Gas Technologies, Fuel Cell Systems and furthermore High Magnetic Fields.

The papers published in this special issue have been recommended by the international scientific committee and were preselected by the Conference Chair Prof. Janusz S. Szmyd (AGH University of Science and Technology, Krakow, Poland) and Conference Secretary Prof. Andrzej J. Nowak (Silesian University of Technology, Gliwice, Poland). In all cases, the authors were asked to extend their papers. All manuscripts were also subjected to the standard Heat and Mass Transfer peer-review process. These articles are thus an excellent sample of the main topics presented through the keynote lectures, oral sessions and poster session of EUROTHERM 2016 Conference. These works reflect also a very good spectrum of topics of current interest in Thermal Science.

I would like to acknowledge gratefully the guest Editorial including the overview of the conference provided by Professor Szmyd and Professor Nowak.

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Finally, I would like to express special thanks to the authors for their contributions to this special issue, and the reviewers of the manuscripts for their invaluable input, responsiveness and for making the publication of this special issue possible.

I deeply appreciate the contribution of the organizers of the Conference and International Scientific Committee, Professor Szmyd and Professor Nowak and their teams.

Andrea Luke, Editor-in-Chief, Heat and Mass Transfer, June 2018

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