

Editorial

IJoT Special Issue devoted to The Third International Conference on Contemporary Problems of Thermal Engineering **CPOTE 2012**

The CPOTE 2012 Conference was organized within the FP7 European Research Center for Energy and New Technologies (RECENT) project coordinated by the Institute of Thermal Technology. It was the third international conference on Contemporary Problems of Thermal Engineering. The first conference, held in 1998, was dedicated to the 50th anniversary of Prof. Szargut's scientific activity. The second one, held in 2004, was combined with the celebration of the centenary tradition of the Institute of Thermal Technology (ITT) reaching back to the Technical University of Lvov. The present, third CPOTE Conference, was connected with the jubilee of Professor Andrzej Ziębik celebrating his 50th anniversary of academic activity.

The objective of the 3rd Conference on Contemporary Problems of Thermal Engineering was to provide a world-wide forum for specialists and those interested in learning about research progress, discuss the state of the art, the future directions and priorities in the various areas of thermal engineering. This includes exchange and dissemination of knowledge within the following areas:

- Sustainability of Energy Systems,
- Thermodynamics and Heat Transfer,
- Exergy analysis and Thermo-economics,
- Simulation, improvement and optimization of energy systems,
- Process analysis, design, synthesis and integration,
- Renewable energy conversion and use of zero-emission technologies and strategies,
- Diagnostics and control of energy systems,
- Life Cycle Analysis and environmental impact of energy systems.

During the CPOTE 2012 Conference 6 invited lectures were given. The lecturers represented six European Universities: Aalborg University – Denmark, University of Florence – Italy, University of Zaragoza – Spain, Technical University of Berlin – Germany, Częstochowa University of Technology – Poland, and National Technical University of Athens – Greece.

All submitted papers after review and acceptance by the Scientific Committee were included in the CPOTE 2012 proceedings. The organizers would like to express their gratitude to all the authors for their interest in the conference and for their valuable contributions. Special thanks should be directed to the Members of the Scientific Committee and Reviewers who devoted their valuable time to reviewing the papers significantly contributing to the enhancement of the quality of the conference. Special thanks have to be extended to our colleagues from the Institute of Thermal Technology working in the Organising Committee. The Organizers wish to thank the Invited Lecturers for accepting the invitations to give their talks at the conference.

Selected papers, basing on the evaluations of session chairmen and Scientific Committee, have been invited for publication in the International Journal of Thermodynamics. These papers have been sent to a second round of review. In this point I would like to thank a lot Editor-in-Chief Professor Yasar Demirel and Publishing Editor Professor Derek Baker for their agreement to publish the selected papers in a Special Issue devoted to The Third International Conference on Contemporary Problems of Thermal Engineering CPOTE 2012 and for fruitful cooperation within the preparation this Special Issue.

Prof. Wojciech Stanek
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