

## PREFACE

The 8-th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2019 - <http://www.tererd.pub.ro/>) was organized in the period 06-06 June 2019 at the International Conference Center of the University Valahia of Târgoviște (Romania). The social Programme and participants accommodation were hosted by Hotel Nova of Târgoviște.

**TE-RE-RD** is an International pluridisciplinary Conference aimed to be a forum for information exchange between scientists from academic, research and development communities around the world on topics related to thermal machines and equipments and technologies, equipments, technologies and policies for rural development, renewable energy sources conversion and other technical domains.

Another target of the Conference is to offer to the young people involved in research activities (PhD, Master, and regular students) the opportunity to disseminate their work results and learn from experimented scientists.

We also welcome people and entities from industry, agriculture, administration, trade, politics and media who want to cooperate with academic and R&D organizations in the fields of the Conference.

The main Organizers, University POLITEHNICA of Bucharest (Faculty of Mechanical Engineering and Mechatronics and Faculty of Biotechnical Systems Engineering), National Institute of Research – Development for Machines and Installations Designed to Agriculture and Food Industry and the Romanian Society of Agricultural Mechanical Engineers produce every year since 2012 an itinerant Conference in academic cities or touristic resorts. This year, the chosen partner was University Valahia of Târgoviște who offered his Conference Center and a part of his staff for the event success.

The main topics of the Conference were:

- Processes in thermal equipment
- Steam and hot water generators
- Steam and gas turbines
- Internal combustion engines
- Environmental protection
- Solar, wind, geothermal, biomass
- Building efficiency
- Equipment for rural development
- Politics of rural development
- Agricultural engineering
- Energy of rural space

This year the Organizers used the Conference Management Toolkit provided from Microsoft in order to manage the paper submissions and reviewing process. We received 96 papers

distributed to 85 reviewers. 79 papers were accepted to be presented and 16 papers were rejected or retired by the authors after revision process.

The Conference was developed on 4 tracks:

- 19 papers in the section Thermal Equipments
- 14 papers in the section Renewable Energy
- 34 papers in the section Rural Development
- 10 papers in the section Miscellaneous

Besides the representatives of the Organizers, the Conference also welcomed researchers from University Angel Kanchev of Ruse (Bulgaria), Technical University of Varna (Bulgaria), Technical University of Sofia (Bulgaria), University of Food Technologies of Plovdiv (Bulgaria), SEC Biomass Center of Kiev (Ukraine), Institute of Engineering Thermophysics of Kiev (Ukraine), “Ferdinand I” Technical Military Academy of Bucharest (Romania), University of Craiova (Romania), University “Dunărea de Jos” of Galați (Romania), INCD Comoti (Romania), SCDCPN Dăbuleni (Romania), INCD ICEMENERG (Romania), INOE2000-IHP Bucharest (Romania), Encon Services (USA), Bioterpena System (Romania).

We hope that next edition the number and the value of papers will increase, the current participants will come back and new authors will attend.

See you again in 2020,

Prof. Gabriel Negreanu

Dr. Valentin Vlăduț

Editors of the Conference Proceedings TE-RE-RD 2019