

Preface

2018 is the year when the twenty-two conference in the field of manufacturing engineering and energy (IManE&E 2018) has been organized by the Machine Manufacturing Technology Departments of Chisinau (Republic of Moldova) and Iasi (Romania) in Chisinau, Republic of Moldova. The first conference was organized in May 1996 as a consequence of the initiative promoted by Professor Octavian Pruteanu, the former head of the Manufacturing Technology Department from Iasi. Since 1999, according to the proposal made by Professor Alexandru Marin from the Technical University of Chisinau, the conferences have been organized alternately, in Iasi and Chisinau, by the collaboration of the Machine Manufacturing Departments from the Gheorghe Asachi Technical University of Iasi (Romania) and from the Technical University of Moldova from Chisinau (Republic of Moldova). In some years, the Institute of Technical Sciences of the Academy of Sciences from Serbia and the Department of Mechanical Engineering and Industrial Design from the Western Macedonia Technological Education Institute (Greece) have also been involved in the organization of the conference.

The conferences had a rigorous periodicity, being organized by the managers of the structures involved and being strongly supported by the members of these structures. Various aspects from distinct subfields of manufacturing engineering (cutting machining processes, cold pressing technologies, non-conventional machining processes, welding and other assembling processes, automation and robotics of the machining processes, computer aided manufacturing, flexible manufacturing technologies, quality ensuring in manufacturing processes, repairing and reconditioning processes, innovation in manufacturing processes and education, energy, energy and environment) were approached and debated in discussions developed within the conferences organized along the 22 years from the first conference developed in Iasi.

By considering the new trends and requests valid in the field of machine manufacturing technology from the entire world, starting from 2013, the name of the conference was changed in „Innovative Manufacturing Engineering” and later in „Innovative Manufacturing Engineering and Energy”. A first result of these conferences was that they constituted a benefic occasion for the researchers from Romania, Republic of Moldova and other countries to better know each other, to understand their preoccupations invested in developing researches in the field of manufacturing engineering and energy, to change information of mutual interest in the above mentioned fields (manufacturing engineering and energy) or in connection with the didactic activities. As a result all the participants of the IManE&E 2018 conference have developed strong relations of collaboration translated among researchers and engineers working in distinct universities and research structures or industrial enterprises from various countries. In some years, the conferences proceedings were indexed in significant international data bases. Over the years, the quality of the papers presented within conferences was continuously improved, by taking into consideration new requests valid in this field and accepted for international scientific events. Representatives of various universities and research structures from Romania, Republic of Moldova and from other countries were invited to present the results of their researches in the fields of manufacturing engineering and energy. The informal meetings and discussions facilitated by the conferences

development contributed to a better knowledge and understanding the research activities presented by the participants to these scientific events.

In this way, the organizers of the conference hope that new circumstances for scientific and/or didactic collaborations will be highlighted and strengthen, being beneficial for the specialists involved. Last but not least, we have to express our gratitude to the papers authors, to the members of the two departments of the Technical University of Moldova in Chisinau – Republic of Moldova and the Gheorghe Asachi Technical University of Iasi - Romania and to many other specialists for their involvement and devotement in solving problems that occurred during the process of organizing the conference.

The Editorial Committee ensures all participants that it is our commitment to offer each and every one large visibility of submitted abstracts via dedicated poster viewing sessions or by posting them on the conference's official website. The presented papers from our conference proceedings will be submitted further to MATEC for publishing procedures.

We look forward to be welcoming you next year.