

FOREWORD

2013 is the year when the 17th conference in the global field of manufacturing engineering will be organized (23rd – 24th of May 2013) by the departments of machine manufacturing from Iași (Romania) and Chișinău (Republic of Moldova) in one of the oldest Romanian university centers and namely in Iași. One must mention that the first such a conference was organized in May 1996, as a consequence of the initiative promoted by the professor Octavian Pruteanu, in that time he being the head of the department of machine manufacturing technology from Iași. Starting from 1999, in accordance with a proposal formulated by the professor Alexandru Marin, from the Technical University of Chișinău (Republic of Moldova), the conferences were organized alternatively, in Iași and Chișinău, by collaboration of the departments of machine manufacturing technologies from the “Gheorghe Asachi” Technical University of Iași (Romania) and the Technical University of Moldova, from Chișinău (Republic of Moldova). Between 2010 and 2012, the Institute of Technical Science of the Serbian Academy of Sciences and Arts was included in the group of institutions which coordinated the organizing of the conferences.

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, nonconventional 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 etc.) were approached and debated in discussions developed within conferences organized along the 17 years from the first conference developed in Iași, 1996.

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*”.

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, to change information of mutual interest in the above mentioned field (manufacturing engineering) or in connection with the didactic activities. As a result of the conferences, relations of collaboration among researchers and engineers working in distinct universities, research structures or industrial enterprises from various countries were initiated and developed. In some years, the conferences proceedings were indexed in significant international data bases.

Along the years, the quality of 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 exposures concerning the results of their researches in the field of manufacturing engineering. 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.

During the current conference organized in Iași (2013), by the departments of machine manufacturing technology from Iași (Romania) and Chișinău (Republic of Moldova), more than 300 of abstracts were initially proposed to be developed in papers and for a possible inclusion in the conference proceedings; after the reviewing process, about 180 de papers were selected and proposed to be presented in the sections of the scientific event and included in the conference proceedings.

In this way, the organizers of the conference hope that new circumstances for scientific and/or didactic collaborations will be highlighted and developed, being beneficial for the specialists involved.

Last, but not least, one must express our gratefulness to the papers reviewers, to the members of the two departments from the “Gheorghe Asachi” Technical University of Iași – Romania and from the Technical University of Moldova from Chișinău – Republic of Moldova and to many other specialists for their involving in adequate solving of many and sometimes not easy problems appeared during the process of organizing the conference.

We express also a warm welcome to all papers authors and participants to the conference IManE 2013!

Professor Laurențiu SLĂTINEANU,

*Department of Machine Manufacturing Technology
from the „Gheorghe Asachi” Technical University of
Iași, Romania*

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