Preface

The international conference ICPMT that featured mainly the machining field has been held every two years since 1992. New international conference IC3MT (International Conference on Machining, Materials and Mechanical Technologies) that expands the object field not only the machining technology field but also materials and mechanical technologies succeeding to the policy of the ICPMT will be started up. The 1st conference of IC3MT had been successfully held in Taipei city, Taiwan, August 31 to September 5, 2014. The hosted Taipei city is one of the typical cities in an Asian region, and is the city where the center role of Taiwan's commerce and industry is played. In addition to the professional exchanges, sightseeing and a rich gastronomic culture are attractive to many scientists, engineers, technicians and retired experts and to be part of the exchange of valuable information as well as establishing useful contacts amongst professionals in this field.

The main theme of IC3MT2014 was intended for the presentation of innovative ideas in the following five chapters: Materials Research and Its Applications; Material Processing Technologies; Applied Research in Materials Science; Applied Mechanics and Mechanical Technologies; Measurements and Monitoring. Particular attention was paid to the fundamental issues of mechanical and technology in terms of machining, materials properties as well as modern methods for relevant mechanical technologies. The previous conferences and their findings promoted the idea of the exchange of experience and personnel of the technical practice of researchers and mutually beneficial for both sides. Furthermore, this conference extended the original machining field such that personnel from practice need not only to solve just machining problems but also to involve the new solutions of material products and mechanical technologies for integration. The organizers of the conference are convinced the main objective of the conference as the exchange of knowledge in the field of maching, materials and mechanical technologies has been fulfilled.

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