Preface

ICMSNT 2016 was held in Seoul, South Korea during May 12-14, 2016. ICMSNT 2016 was organized by Hong Kong Society of Mechanical Engineers (HKSME). The conference has attracted a representative Scholars, Professors, and other participants to make oral presentations in their fields. So it provides a useful and wide platform both for display the latest research and for exchange of research results and thoughts in broad Materials Science and Nanotechnology areas. The participants of the conference were from many countries like Canada, Singapore, Japan and the like, with background of either academia or industry, even well-known enterprise. The success and prosperity of the conference is reflected high level of the papers received.

We would like, on behalf of the organizing committee of HKSME, to express our sincere thanks to the Keynote, Plenary and Invited Speakers for their contribution to the conference. Each individual and institutional help were very important for the success of this conference, as well as the help from our reviewers.

We sincerely hope that ICMSNT2016 will be a forum for excellent discussions so that all participants and other interested readers will benefit scientifically from the proceedings and also find it stimulating in the process. We are sure that the proceedings will serve as an important research source of references and the knowledge, which will lead to not only scientific and engineering progress but also other new products and processes.

Prof. Shinhoo Kang, Seoul National University, South Korea

Prof. GongHao, National University of Singapore, Singapore

Prof. LU Li, National University of Singapore, Singapore

Committees

Conference Committee Chairs

Prof. Shinhoo Kang, Seoul National University, South Korea (Co-Chair)

Prof. Hong Soon Hyung, KAIST, South Korea (Co-Chair)

Prof. Gong Hao, National University of Singapore, Singapore (Co-Chair)

Prof. Dongil Kwon, Seoul National University, South Korea

Prof. Chen Zhong, Nanyang Technological University, Singapore

Program Committee Chairs

Prof. Jang-Kyo KIM, Hong Kong University of Science and Technology, HK

Prof. Heon Lee, Korea University, South Korea

Prof. Jae-Seung Lee, Korea University, South Korea

Publication Chairs

Prof. Jianguo Lin, University of Birmingham, UK

Prof. LU Li, National University of Singapore, Singapore

International Technical Committees

Prof. Zhu Weiguang, Nanyang Technological University, Singapore

Dr. Jun Yang, University of Western Ontario, Canada

Dr. Duan Hongwei, Nanyang Technological University, Singapore

Prof. Zhan Chen, AUT University, Auckland, New Zealand

Prof. Osman Adiguzel, Firat University, Elazig, Turkey

Prof. A.S. Md. Abdul Haseeb, University of Malaya, Malaysia

Prof. Ramesh Singh A/L Kuldip Singh, University of Malaya, Malaysia

Prof. Alexander Lukin, Australian Institute of High Energetic Materials, Australia

Prof. Song-Jeng Huang, National Taiwan University of Science and Technology, Taiwan

Prof. Boris Krit, Moscow Aviation Institute, Russia

Prof. Michael McCarthy, University of Limerick, Ireland

Prof. Hamid Bahai, Brunel University London, UK

Dr. YANG Weifeng, Institute of Materials Research and Engineering, Singapore

DR. YIP MUM WAI, Tunku Abdul Rahman University College, Malaysia

Prof. Lin Jing-Chie, National Central University, Taiwan

Prof. Madya Dr. Zainuddin Sajuri, Universiti Kebangsaan Malaysia, Malaysia

Prof. Sofoklis Makridis, Nazarbayev University, UK

Dr. Homayoun Hadavinia, Kingston University, UK

Dr Rajesh Kumar Bhushan, A Central University, India

Dr. Duncan Allsopp, University of Bath, UK

Dr. Mohzani Mokhtar, Universiti Sains Malaysia, Malaysia