Preface

2014 2nd International Conference on Future Materials Engineering and Industry Application (ICFMEIA2014) will be held on December 10-11, 2014, Hong Kong. ICFMEIA 2014 provides a chance for academic and industry professionals to discuss recent progress in the area of Future Materials Engineering and Industry Application.

Materials engineering discussed the topical information on innovative, structural and functional materials and composites with applications in optical, electronical, mechanical, civil, aeronautical, medical, bio and nano engineering. Industrial engineering is a branch of engineering which deals with the optimization of complex processes or systems. It is concerned with the development, improvement, implementation of integrated systems of people, money, knowledge, information, equipment, energy, materials, analysis and synthesis, as well as the mathematical, physical and social sciences together with the principles and methods of engineering design to specify, predict, and evaluate the results to be obtained from such systems or processes.

ICFMEIA2014 is a very nice platform for sharing experiences, innovative ideas and research results focused on the progress of Future Materials Engineering and Industry Application. The aim of the conference is to assemble all the professionals such as leading researchers, engineers, scientists, and students under one roof.

We are thankful to colleagues for their contributions to ICFMEIA 2014. We also would like to thank the members of the Organizing Committee, IERI, and the corporate sponsors for their efforts and contributions towards making the conference successful. Special thanks go to TTP Publisher. Our sincerely acknowledgements are also expressed to the people who contribute to the proceedings and conference. Moreover, our thanks are also due to the sponsors for providing much help for the conference.

Finally, we hope the attendees benefit from the conference, and have a happy and meaningful journey in Hong Kong.

Thanks.

Barry Tan and Mont Kumpugdee Vollrath

Organization Committee

Keynote Speaker

Gerald Schaefer, Loughborough University, U.K.

General Chairs

Jian Yang, Huazhong University of Science and Technology, China Yuanzhi Wong, Wuhan University, China

Publication Chairs

Barry Tan, Wuhan University, China Mont Kumpugdee Vollrath, University of Applied Sciences, Germany

International Committee

Ming-Tsung Tsai, Southern Taiwan University of Science and Rechnology, Taiwan CHICHERNEA G. FLORIN, Transilvania University of Brasov, Romania Jung-Guk Kim, Hankuk University of Foreign Studies, Korea Eui in choi, Hannam University, Korea Ayyoub Akbari-Moghanjoughi, Universiti Putra Malaysia, Malaysia Hernan Gonzalez Acuña, Universidad Autonoma de Bucaramanaga, Colombia Fabiane Bordin, University of Vale do Rio dos Sinos, Brazil Uipil Chong, University of Ulsan, Korea Grzegorz Sierpiński, Silesian University of Technology, Faculty of Transport Serap Akdemir, Namık Kemal University, Turkey J.Manoranjini, Tagore Engg College, Anna University, India Ana Breda, University of Aveiro, Portugal Nurdiana binti Samsulrizal, Universiti Teknologi MARA, Malaysia Radin Yury, All Russia Thermal Engineering Institute, Russia Yuriy V. Kostyuchenko, Earth of National Academy of sciences of Ukraine, Ukraine Dwi Agustina, Nanyang Technological University (NTU), Singapore Carlo Pozzi, Department of Architecture, Pescara, Italy Nuraini Abdul Aziz, Universiti Putra, Malaysia Mou'ad A. Tarawneh, National University of Malaysia, Malaysia Ha Nguyen Thi Thu, Vietnam Electric Power University, Vietnam Irwansyah. E, Bina Nusantara University, Indoensia Maha TEBAA, University Mohammed V-Agdal, Morocco Tomáš Bublík, Czech Technical University in Prague, Czech Republic Prerna Saxena, Department of Electronics Engineering, VNIT, India Artem M. Chirkin, ITMO University, Russian Federation Nikolay E. Galich, Saint-Petersburg State Polytechnic University, Russian Federation Yasuaki Ibayashi, Tokyo Institute of Technology, Japan

Paweł Kędzia, Wrocław University of Technology, Poland