

Preface

2014 2nd international conference on Materials Science, Machinery and Energy Engineering (MSMEE 2014) will be held on November 7-8, 2014, Hong Kong.

2013 1st international conference on Materials Science, Machinery and Energy Engineering (MSMEE 2013) has been held on very successfully. MSMEE 2013 has been indexed by EI Compindex.

MSMEE 2014 is a very nice platform for sharing experiences, innovative ideas and research results focused on the progress of Materials Science, Machinery and Energy Engineering. The aim of the conference is to assemble all the professionals such as leading researchers, engineers, scientists, and students under one roof.

Materials science is an interdisciplinary field applying the properties of matter to various areas of science and engineering. This scientific field investigates the relationship between the structure of materials at atomic or molecular scales and their macroscopic properties. It incorporates elements of applied physics and chemistry. With significant media attention focused on nanoscience and nanotechnology in recent years, materials science has been propelled to the forefront at many universities. It is also an important part of forensic engineering and failure analysis. Materials science also deals with fundamental properties and characteristics of materials.

Machinery engineering is the discipline that applies the principles of engineering, physics and materials science for the design, analysis, manufacturing, and maintenance of mechanical systems. It is the branch of engineering that involves the design, production, and operation of machinery and tools.

Energy engineering is a broad field of engineering dealing with energy efficiency, energy services, facility management, plant engineering, environmental compliance and alternative energy technologies. Energy engineering is one of the more recent engineering disciplines to emerge. Energy engineering combines knowledge from the fields of physics, math, and chemistry with economic and environmental engineering practices.

We would like to thank the organization staff, the members of the program committees and reviewers. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. Special thanks go to the organizing committee, program committee members, and TTP Publisher. Finally, the conference would not have been a success without the support of the authors. We would like to acknowledge and thank all authors who submitted their research work to the conference, whether the submission made it to the proceedings or not.

Guohui Yang

MSMEE 2014 Organization Committee

Keynote Speaker

Gerald Schaefer, Department of Computer Science, Loughborough University, Loughborough, U.K

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