

Preface

2013 International Conference on Advanced Materials & Sports Equipment Design (AMSED 2013) will be held on September 21-23, 2013, Singapore. AMSED 2013 is technical co-sponsored by Singapore Management and Sports Science Institute, Singapore.

The conference will bring together researchers, developers, and users from around the world in both industry and academia for sharing state-of-art results, for exploring new areas of research and development, and to discuss emerging issues facing Advanced Materials & Sports Equipment Design.

It is gratifying that the proceeding of AMSED 2013 include more than 93 excellent papers selected from more than 159 submitted paper(s) whose authors involved at least 25 countries and areas such as Algeria, China, Christmas Island, Czech Republic, Estonia, France, Hongkong, India, Iran, Italy, Kazakhstan, Korea, Republic of Malaysia, Mexico, Norway, Poland, Portugal, Russian Federation, Saudi Arabia, Singapore, Slovakia, Spain, Taiwan, Thailand, Tunisia, Turkey, Ukraine, United Kingdom.

After the excellent presentations on September 22, 2013, authors from different countries and areas participated warmly discussions on September 23, 2013, for their viewpoints with dividing into several session by topics.

The organizing committee carried out the selection of invited and contributed papers, and their arrangements into 9 sessions with paper topics: 1) 11 papers stress on Polymer materials and composite materials; 2) 4 papers talk about "Metals and alloys"; 3) 2 papers "Building Materials"; 4) 2 papers "Biochemistry Materials and Engineering"; 5) 5 papers "Energy Science and Engineering"; 6) 17 papers "Manufacturing Materials and Engineering"; 7) 4 papers "Environmental Materials and Engineering"; 8) 17 papers "Automation and Mechatronics Engineering"; 9) 31 papers "Environmental Materials and Engineering"; especially, Environmental Materials and Engineering. Most of them made oral presentations or poster communications each others as the arrangement.

The editors were responsible for selection of reviewers for the papers, whom we thank for their promptitude and accurate work. The communication between authors and referees was managed by the editors.

Anyway, our sincere thanks to the support from technology committee for designing the conference web page and also spending countless days in preparing the final conference program in time for printing. Many thanks to Miss Han: AMSED 2013 secretary for arranging to type a large number of the invitation letters and for establishing the vast AMSED 2013 conference address data base. and thanks to other staffs assisting in the various stage of the editorial work, especially the international committees of our conference.

Dehuai Yang

AMSED 2013 Organizing Committee

Keynote Speaker

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

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Biswanath Vokkarane, Society on Social Implications of Technology and Engineering , Maldives

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