

# Preface

Nowadays many developed countries are in recession and their consumption of natural resources like energy, minerals and other raw materials is lower than usual. At the same time the global prices of those materials stay at a high level because the BRICS-countries (short for Brazil, Russia, India, China and South Africa) have developed their economy to a higher level. Consequently, their consumption of those materials has been reaching a higher level as well. Considering the total population of the BRICS, their need will be increasing and the prices for raw materials are obviously to remain stable or go up in the future. Prices at such high levels remind us of the fact that the available resources of refinery or processing facilities and the natural reserves of those discovered materials on earth hardly cover the increasing demand.

The reasons to promote the subjects of science are extraordinarily the same as those for Materials Science and Engineering Technology, and we won't to repeat them in the foreword for MSET2014.

When we were collecting the papers for the Conference on Materials Science and Engineering Technology, the interesting things were that a number of authors were quite keen to look for the same chance to make public the theoretical works of intellectual creativity or formal results of scientific research or practice, written by those who are their former class mates, campus fellows, friends, relatives, colleagues and cooperators. It is really a chance for us to organize a chance for our smart intellectuals to expose, exchange and confidently approve each other the value of their arduous work. In six months, we have collected 758 copies of papers in the scope the mentioned subjects and their close-related subjects, and 420 copies selected after peer-view. 232 copies are in the research of materials science while 61 copies of materials properties, measuring methods and applications, 61 copies of methodology of research and analysis and modeling and 66 copies are on the subjects of close -related to materials manufacturing and processing.

Material science is one of the most important matters of our life and with us as ever we have existed, unlike computer or information technology but unfortunately we have never known all materials we have used or around us. Nevertheless, we have been working very hard to discover new sources of materials we are in need of and striving non-stop for new synthetic stuffs or man-made matters. High demand has pushed our scholars, experts and professionals to continue the mission, not only for the materials themselves but non-perilous to the life and environment as well, causing the least hazard to the world. We appreciate our authors consciously to involve into that mission.

Engineering technology appeared in the antient time in human life. All tools we found or created beside we can simply use as part of our body such as our hands and feet, eyes and teeth, are mechanics, but modern mechanical has extended its concept since steam and gasoline engine, electric motor were found. It has spread to all corners of life, without what, we can not survive in contemporary days. Consequently, there are countless subjects for our learned people to work at. As the organizer of the conference MSET2014, we have selected 232 copies of papers in materials science which are comparatively at a high level of each research.

Conference on Materials Science and Engineering Technology is scheduled to hold in Shanghai from June 28 to 29, 2014, experts and scholars, a group of the authors and other related people will attend the conference with apparent interest, we are expecting a full success of the conference.

We appreciate those who responded to our proposal and submitted their papers, especially those whose papers have been selected for the conference MSET2014, the sponsors who have provided their valuable and professional suggestions and instructions and the scholars and professors who have spent their efforts as peer reviewers. We expect the conference to be successful and we hope that our proposal

'China Made jumping to China Create' will result in many more conferences on various other scopes and subjects, nation-wide, encouraging more professionals, scholars and students to contribute their talents to improving our life.

Thank you!

Zhang Mei

March 25, 2014

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