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## Preface



The 7th World Congress on Particle Technology (WCPT7) was held in Beijing from May 19 through May 22, 2014. It was organized by Chinese Society of Particuology and Institute of Process Engineering, Chinese Academy of Sciences, in collaboration with the Asian/Oceanian Particle Technology Communities.

As a natural development of the previous sessions of the congress (Nuremburg, Germany, 1986; Kyoto, Japan, 1990; Brighton, United Kingdom, 1998; Sydney, Australia, 2002; Orlando, United States, 2006; Nuremburg, Germany, 2010), the theme of this session was chosen as *New Paradigm of Particle Science and Technology*, hoping to stimulate discussions on the forefronts of both the fundamentals and applications in this interdisciplinary area. The congress has enjoyed warm response worldwide with more than 1100 registered participants from 40 countries and over 50 exhibitors. The congress finally delivered 7 plenary speeches, 51 keynote speeches, 814 oral presentations and 153 poster presentations, which are organized into 6 tracks and 6 seminars on special topics.

The presentations at the congress has served and demonstrated the theme of this congress very well. The track summaries in the proceedings have outlined the main trends in different aspects of particle technology, from which a general tendency to addressing the inherent complexity and multi-scale characteristics of particulate systems can be identified more clearly than ever. It is indeed an encouraging indication to the establishing of a new paradigm of particle science and technology. The realm of particle studies is ever expanding and has covered the wide range from atoms and molecules to reactors or even the whole ecosystem. Our research tools have evolved from simple experimental facilities to in situ and online measurements combining different technologies and different scales, and computer simulation is playing a more and more important role. Preparation and mass production of particle products is calling for a deeper understanding in the multi-scale dynamic behavior of the processes involved, and the studies on various meso-scales are playing a central role.

The proceedings of this congress comprise 226 articles in total, which is a representative, though not comprehensive, collection of the presentations in the congress. They are organized into 6 tracks each starts with a track summary by our track organizers. At the occasion of its publication, we would express our genuine gratitude to the Organizing Committee and the Scientific Committee, the supports from our sponsors, co-organizers, reviewers, session chairs, volunteers, and last but not least, all the participants that has made this session of the congress a great success. We are looking forward to meet you again in the future sessions of this congress.

Jinghai Li  
Chairman of WCPT7