

## Preface

### The Ninth International Conference on Molten Slags, Fluxes and Salts (MOLTEN 12), May 27–30, 2012 in Beijing, China

The Ninth International Conference on Molten Slags, Fluxes and Salts (MOLTEN 12) was held in Beijing China on May 27–30, 2012. The Conference focused on ionic melts, slags, fluxes or salts applied to ferrous, and non-ferrous metallurgy. The symposium included oral and poster presentations, and an industrial exhibition. The symposium provided a forum for the scientists and researchers to share their technical and scientific ideas, experimental observations and innovations.

This symposium was divided into 28 sessions. The major topics included were: structure and thermodynamic properties of ionic melts; phase equilibria, phase diagrams and their applications; high temperature reaction kinetics; transport phenomena and process simulation; interfacial phenomena and foaming; physical properties of ionic melts; viscosity and its modeling; slag capacities and applications; slags in steelmaking and hot metal pre-

treatment; slags in ironmaking & ferroalloy smelting; slags in ESR refining and steel refining; slags and matte in non-ferrous metallurgy; recycle and utilization of slags; molten salts and application; molten fluxes and casting; high temperature reaction thermodynamics and applications. As special volume containing selected papers from the above topics are included in this special issue of HTMP Journal.

We acknowledge the efforts by all the MOLTEN 12 organizers, session chairs and participating authors. We express our heartfelt appreciation and thanks to Professor Hiroyuki Fukuyama, editor-in-chief of the HTMP for approving for this special journal issue publication.

Guest editors of this special issue  
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