ADVANCES IN MOLTEN SLAGS, FLUXES, AND SALTS:
Proceedings of

Sponsored by
Extraction & Processing Division and Materials Processing and Manufacturing Division of The Minerals, Metals & Materials Society (TMS)

Held
May 22–25, 2016
Seattle Grand Hyatt
Seattle, Washington, USA

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PREFACE

The Tenth International Conference on Molten Slags, Fluxes and Salts (MOLTEN16) was held in Seattle, Washington, USA from May 22–25, 2016 and organized by TMS (The Minerals, Metals & Materials Society). The conference purpose was to provide an opportunity for scientists and engineers to share their new research findings, innovations, and industrial technological developments. The conference also aligns quite well with the TMS strategic goal to sustain and grow the core innovation in process engineering and to develop novel materials. The organizers are pleased to conclude that the set strategic goals were met and a very high-quality technical program with the participation of expert researchers in the field was held.

The conference was focused on ferrous and non-ferrous metallurgy where ionic melts, slags, fluxes, or salts play important roles in industrial growth and economy worldwide. Technical topics included are: thermodynamic properties and phase diagrams and kinetics of slags, fluxes, and salts; physical properties of slags, fluxes, and salts; structural studies of slags; interfacial and process phenomena involving foaming, bubble formation, and drainage; slag recycling, refractory erosion/corrosion, and freeze linings; and recycling and utilization of metallurgical slags and models and their applications in process improvement and optimization. These topics are of interest for not only traditional ferrous and non-ferrous metal industrial processes but also for new and upcoming technologies.
The program consisted of parallel sessions for all three days of technical programming. The conference included 185 oral presentations and 65 poster presentations. Plenary and invited talks in specialized topics were presented. Thirty nations participated in this conference. The distribution of submitted abstracts by nation is shown in the pie chart on the previous page.

We would like to thank all speakers and attendees for their valuable time in making presentations and actively participating in the symposium. We specially thank all the committee members and session chairs for their help in making this symposium successful.

We would like to express our sincere appreciation to the TMS leadership and staff for their support and dedication. All services in support of the conference, including but not limited to marketing, logistical management, timeline management, website design and development, web-based registration system, abstract collection, conference proceedings production and manufacturing provided by TMS staff is very much appreciated. We thank Louise Wallach, Senior Manager, Events, Education, and Exhibits for organizing the several social programs for all participants and their companions. We particularly thank Trudi Dunlap, Programming Manager, for her undivided attention to details in organizing the sessions and publication of conference proceedings.

Sincerely,

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