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EUROMAT 2017 Symposia on Processing

This issue of JMEP contains peer-reviewed contributions presented at the following four symposia from the Area C “Processing” of the European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2017) held on September 17–22, 2017, in Thessaloniki, Greece:

C5 “Interface Design and Modelling, Wetting and High-Temperature Capillarity,” organized by S. Agathopoulos and F. Valenza

C6 “Joining,” organized by I. Kaban and C. Sommitsch

C7 “Steel Making,” organized by J. Schenk and S. Papaefthymiou

C8 “Solidification, Casting, Foundry and Liquid Metal Processing,” organized by A. Karantzalis and A. Kennedy

Symposium C5 focused on research in the fields of surfaces and interfaces, wetting and capillarity in materials, and materials processing.

Joining techniques such as brazing and diffusion bonding, electron beam welding, resistance spot welding, electromagnetic pulse technology welding, and riveting were the scope of Symposium C6. Recent experimental and theoretical studies on the characterization and modeling of the joining processes and obtained joints were presented and discussed.

The latest scientific and technological advances in solidification, casting, and industrial practice optimization, and development for currently produced cast aluminum alloys and steels, along with other special-purpose alloy systems, were part of the discussions held at Symposia C7 and C8.

We would like to thank all participants for their presentations at the symposia as well as the authors for their written contributions to this issue. We acknowledge the reviewers for their careful reading and evaluation of the manuscripts and their valuable suggestions to improve the quality of the papers.

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