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Area C

Symposium C.5

Title: Liquid metal processing

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Abstract

The aim of the symposium is to highlight latest developments in the liquid metal processing of ferrous and non-ferrous alloys. The content is up-stream extended to carbon-lean extractive technologies and environmental control of metallurgical processes. Second focus lies on the importance of liquid metal processing and the refining of alloys for the steadily increasing quality demands on steels, non-ferrous products and casting alloys.

The symposium should attract researchers and engineers from non-ferrous and ferrous industry as well as foundries.

The following topics will be addressed:

- Carbon-lean extractive metallurgy involving hydrogen metallurgy.
- Environmental control in the production and processing of ferrous and non-ferrous alloys, "green technologies" for liquid metal processing.
- Physico-chemical properties of slags and metals.
- Computational thermodynamics for slags, metals and slag/metal/refractory interaction.
- Numerical simulation of high temperature metallurgical processes.
- Melting and refining of high-quality non-ferrous alloys.
- Ladle refining of advanced steel grades: Modelling and plant results.
- Non-metallic inclusions in steel with special emphasis on analytical methods.