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TMS 2017
146th Annual Meeting & Exhibition



February 26 – March 2, 2017
San Diego, California, USA

CAST SHOP TECHNOLOGY

Cast Shop Technology, along with Aluminum Reduction Technology, Aluminum Alloys: Processing and Characterization, Electrode Technology for Aluminum Production, and Alumina and Bauxite collectively form the Light Metals Symposium. This year, dedicated sessions in Cast Shop Technology will honor the contributions by Thorvald Engh and Christian Simensen of Norway to the science and technology of alloying practice, melt oxidation, melt characterization, and melt refining. The focus is on aluminum, but magnesium papers are also welcome. Papers covering topics in this field include:

- Charging materials, alloying, pre-furnace treatment, melting, and fluxing
- Melt oxidation
- Inclusion detection and removal
- Dissolved impurity removal, e.g. Na
- Filtration and degassing

A growing demand for high-quality and complex cast aluminium products requires improved scientific understanding of the refining and casting processes. This symposium is an excellent opportunity to interact with experts from the light metals industry and academia from all over the world and hear the latest updates on key issues in the industry. You are also invited to submit papers of fundamental and applied research in the following subject areas:

- Sustainable operation and life-cycle assessment
- Environmental issues and safety
- Impact of impurities
- Energy consumption
- Recycling impact and awareness
- Furnace operations
- Dross minimization and processing
- Grain refinement
- Direct chill casting
- Open mold ingot casting
- Strip casting
- Cast structures and defects
- Automation, process modeling, and control
- New innovations in process and product measurements and control

Joint sessions with the Recycling Committee will be organized on recycling and with the Energy Committee on energy (furnace).

ORGANIZER

David Gildemeister, Alcoa Technical Center, USA

PROCEEDINGS PLANS

Papers from this symposium will be a part of the *Light Metals 2017* proceedings volume. Manuscripts for accepted abstracts are due September 1.

SYMPOSIUM SPONSOR

TMS Aluminum Committee

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