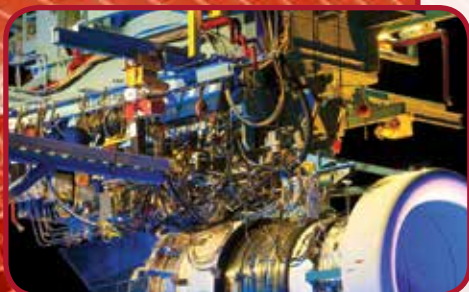
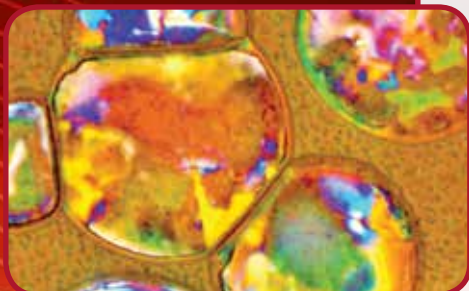


JOM Call for papers

An official publication of The Minerals, Metals & Materials Society



Publication Date: *October 2020*

Manuscript Deadline: *May 1, 2020*

Solidification Behavior in the Presence of External Fields

The introduction of external fields, including electromagnetic fields, ultrasonic excitation, and mechanical shearing to solidification processes can significantly alter solidification behavior. This encompasses a wide range of applications in casting, welding, remelting, and additive manufacturing processes that have been explored in industry to refine grains, homogenize segregation, prevent defect formation, and break up agglomeration of particles. Publications focused on new scientific discoveries, engineering advancement and industrial applications are solicited under this topic.

Original research papers should be 3,000-6,000 words with up to 8 figures maximum; review papers should be 6,000-10,000 words with up to 15 figures maximum.

Detailed author instructions are available at:
<http://www.tms.org/AuthorTools/>

Keywords for this topic: **Advanced processing; modeling and simulation; solidification fundamentals; external fields; defects**

Guest Editor(s): **Lang Yuan and Andrew Kao:**
langyuan@cec.sc.edu; A.Kao@greenwich.ac.uk

Committee Sponsor(s): **Solidification**

If you are interested in submitting a paper, upload your manuscript at
<https://www.editorialmanager.com/jomj/>

Please note that all submissions will be subject to peer review. Submission does not guarantee acceptance.

For more information on JOM, please visit jom.tms.org