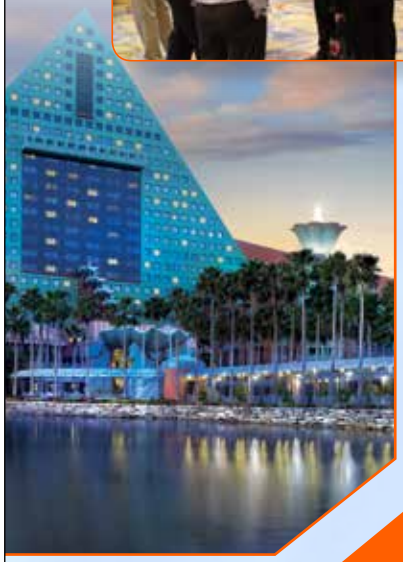
TMS2015

144th Annual Meeting & Exhibition

March 15-19, 2015 • Walt Disney World
Orlando, Florida, USA

Connecting the global minerals, metals, and materials community.



Plan Now to Attend:

CALPHAD-based ICME Research for Materials Genomic Design

This symposium provides a discussion forum for the development of the CALPHAD-based ICME tools and their applications for materials genomic design. The aim of this symposium is to bridge the CALPHAD technique and other computational/experimental tools for materials design, such as atomistic modeling, phase field simulation, atom probe tomography, etc. The keynotes of this symposium will invite leading experts in the CALPHAD-based materials design presenting their state-of-the-art activities in materials genomic research. The discussion of the CALPHAD-based designing materials will include, but are not limited to, steels, electronic materials, superalloys, light alloys, and energy materials. Experimentalists are particularly encouraged to join the discussion.

Four sessions are temporarily planned for this symposium, which will cover materials design topics in process, microstructure, properties and performance. The topics covered in this symposium will include:

- Development of different computational/experimental techniques as ICME toolkit
- CALPHAD digital database construction for Materials Genome
- CALPHAD-based computational/experimental studies for materials design
- CALPHAD methodology for materials design applications

Sponsored by:

- TMS Functional Materials Division (formerly EMPMD); TMS Materials Processing & Manufacturing Division;
- Alloy Phases Committee; Integrated Computational Materials Engineering Committee

Organized by:

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For more information on how to participate, visit:

www.tms.org/TMS2015

Questions? Contact ***programming@tms.org***