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TMS2019
148th Annual Meeting & Exhibition

CALL FOR ABSTRACTS

March 10–14, 2019
San Antonio, Texas, USA

SUBMIT AN ABSTRACT TO:

MATERIALS DESIGN

Hume-Rothery Symposium – Bulk and Interfacial Thermodynamics of Complex Materials: Insights Derived from Integrating Modeling and Experiment

This symposium will survey recent progress in the predictive modeling and measurement of bulk and interfacial thermodynamic and kinetic properties of materials. Progress in this area has been critical over the past decade in enabling strategies for accelerated materials design, and is increasingly being leveraged in the area of advanced manufacturing.

The focus of the symposium will be to bring together experts in first-principles thermodynamic calculations, advanced experimental characterization and thermochemistry methods, and CALPHAD modeling to assess the current state of the art as it relates to complex materials. Of special interest will be strategies for making links across these areas, to enable advanced fundamental understanding and accurate modeling of materials with multicomponent chemistries and disordered structures. Six sessions are planned, covering topics of bulk and interfacial thermodynamic and chemical properties, in alloys, complex oxides and related structural and functional materials.

The session is by invitation only.

ORGANIZERS

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Abstract Deadline is July 1, 2018.
Submit online at www.programmaster.org/TMS2019

Questions?
Contact programming@tms.org