

THE WORLD COMES HERE.
TMS 2025
154th Annual Meeting & Exhibition



March 23–27, 2025
MGM Grand Las Vegas
Hotel & Casino
Las Vegas, Nevada, USA
#TMSAnnualMeeting



SUBMIT AN ABSTRACT FOR THE FOLLOWING TMS2025 SYMPOSIUM:

DATA-DRIVEN AND COMPUTATIONAL MATERIALS DESIGN

Validation of Computational Tools - Industrial Perspectives

Integrated Computational Materials Engineering (ICME) has been widely adopted through academia, national labs, and industry for the design and development of new materials and manufacturing processes. This symposium will highlight efforts to transition computational tools to industrial practice as they relate to high temperature alloys, with special focus on validating tools through targeted experiments and industrially relevant manufacturing practices. Abstracts and presenters should include perspectives on lessons learned on implementing new ICME tools for manufacturing, as well as current challenges and opportunities to improve computational tools.

Topics of interest include, but are not limited to:

- Ingot production (vacuum induction melting, arc melting, remelting processes)
- Casting (investment, directional solidification)
- Thermo-mechanical processing (cold and hot rolling, swaging, heat treatment)
- Powder processing (injection molding, hot isostatic pressing, powder fabrication)
- Fe, Ni, and Co-based alloys

ORGANIZERS

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SYMPOSIUM SPONSORS

TMS Structural Materials Division, TMS High Temperature Alloys Committee

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QUESTIONS?

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