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# TMS 2026

155th Annual Meeting & Exhibition

**March 15–19, 2026**
San Diego Convention Center
and Hilton San Diego Bayfront
San Diego, California, USA
#TMSAnnualMeeting

## SUBMIT AN ABSTRACT FOR THE FOLLOWING SYMPOSIUM

**ADDITIVE MANUFACTURING**

# Additive Manufacturing of Lightweight Alloy Matrix Composites

This symposium aims to showcase studies and advancements in the field of additive manufactured light metal composites. It serves as a platform for researchers, and industry professionals to exchange ideas and foster collaborations in this rapidly evolving domain.

The scope of the symposium encompasses a wide range of topics related to metal matrix composites (MMCs), with a particular emphasis on lightweight alloys, including, but not limited to, aluminum and magnesium matrix composites. These materials represent the forefront of engineering advancements, offering exceptional strength-to-weight ratios and versatile applications across various industries, including aerospace, automotive, and beyond.

Key areas of focus include:

- Recent breakthroughs in additive manufacturing techniques for lightweight alloy matrix composites.
- Novel technologies and methodologies transforming the design and production of metal composites.
- Practical case studies and applications demonstrating the real-world impact and potential of these advanced materials.
- Experimental, theoretical, and computational studies on the interplay between microstructure, geometry, composition, and other properties and the mechanical behavior of additive manufactured light metal matrix composites.

The symposium provides a unique opportunity for attendees to delve into state-of-the-art developments in additive manufacturing and its role in shaping the future of light metal composites.

**SPONSORED BY:**
TMS Structural Materials Division; TMS Additive Manufacturing Committee; TMS Composite Materials Committee

**ORGANIZED BY:**

- **Ioannis Mastorakos,** Clarkson University
- **Xiaoming Wang,** Purdue University
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**QUESTIONS?**
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