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**TMS 2020**

**149<sup>th</sup> Annual Meeting & Exhibition**

February 23-27, 2020 • San Diego, California, USA



**Submit an abstract to:**

## **Materials Design**

### **Metal-Matrix Composites: Analysis, Modeling, Observations and Interpretations**

This symposium, the second in a series, will aim at bringing together engineers, scientists, scholars and entrepreneurs to present and discuss their novel and innovative contributions in the domain specific to metal-matrix composites and on aspects specific to: (i) modeling, (ii) analysis, (iii) observations specific to microstructural advances, and (iv) interpretations spanning microstructure architecture, mechanical behavior, failure behavior and kinetics governing microstructural influences on failure by fracture. We are looking for new or novel techniques that have been developed to help us investigate and understand composite materials.

The goal of this inter-disciplinary symposium is to bring together the range of developments in the domains spanning analysis, modeling and observations to facilitate ease in interpretation on all aspects related to the processing, fabrication, characterization, mechanical property evaluation, failure analysis of this material, an attractive choice for selection and use in both existing and emerging applications. The family of composites span the entire spectrum of metals to include the intermetallic. The conference will certainly provide an attractive forum for presenting recent advances on aspects related to materials processing, fabrication, characterization, modeling, analysis and observations by way of interpretations by both researchers and engineers working in industry, national research laboratories, and academia.

Keynote, invited, and contributed talks will be included. The keynote and invited papers from leading edge academic and industrial research settings will provide a lucid and comprehensive overview of the status and potential future directions for both research and applications. Contributed papers will attempt to cover specific problems in the same areas.

Topics of interest include: metals and metal-matrix composites, nano-metal based composites, and intermetallic-based composites. Where possible, contributions on these topics should relate to applications in one of the six industry-relevant areas:

- Automotive
- Energy applications
- Aerospace
- Failure Analysis
- Bio-medical and healthcare
- Heavy Equipment, Machinery and Goods

#### **ORGANIZERS**

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#### **SYMPOSIUM SPONSORS**

TMS Structural Materials Division  
TMS Composite Materials Committee

**Abstract Deadline is July 1, 2019. Submit online at**  
**[www.programmaster.org/TMS2020](http://www.programmaster.org/TMS2020).**

**Questions?**  
**Contact [programming@tms.org](mailto:programming@tms.org)**