

## MATERIALS DESIGN METAL-MATRIX COMPOSITES: ADVANCES IN ANALYSIS, MEASUREMENT AND OBSERVATIONS

This symposium, the third 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) measurements, and (iv) observations specific to microstructural advances, and spanning microstructure architecture, mechanical behavior, failure behavior and kinetics governing microstructural influences on failure by fracture. 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 intermetallics. 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. The topics of interest include the following:

- Metals and metal-matrix composites
- Nano-metal based composites
- Intermetallic-based composites

Where possible contributions in the above 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, 2020. Submit online at www.programmaster.org/TMS2021.

Questions? Contact programming@tms.org