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**TMS2019**  
 148<sup>th</sup> Annual Meeting & Exhibition

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

## JOIN US FOR THIS TMS2019 SYMPOSIUM:

### ADDITIVE TECHNOLOGIES

### Additive Manufacturing of Metals: Microstructural Evolution and Phase Transformations

Currently, an immense effort is being put into implementing Additive Manufacturing (AM) built components in demanding industrial applications. This requires the understanding of the stability of AM microstructures in service, including high load and temperature conditions. Presently, most feasibility studies are limited to existing commercial alloy compositions. Nevertheless, the uniqueness of AM technology opens new opportunities for the design of future alloys specifically tailored for the AM process and its application. The aim of this symposium is to provide a forum for presenting the latest progress towards the future of AM.

Topics of interest include, but are not limited to:

- Microstructural response of AM components to post-processing conditions
- Simulation/modelling of phase transformations and microstructure stability of AM components during service
- Novel alloy design tailored for AM
- Extension of these concepts to high-temperature Fe-, Co-, Ni- alloys currently not available as commercial AM product.

### ORGANIZERS

**Bij-Na Kim**, LPW Technology/Lancaster University, United Kingdom

**Eric A. Lass**, National Institute of Standards and Technology, USA

**Chantal K. Sudbrack**, QuesTek Innovations, LLC, USA

**Mohsen Asle Zaeem**, Missouri University of Science & Technology, USA

**Sudarsanam S. Babu**, The University of Tennessee, Knoxville, USA

**Ryan R. Dehoff**, Oak Ridge National Laboratory, USA

**Gerhard Fuchs**, University of Florida, USA

Nearly 4,000 presentations are planned at more than 80 symposia at TMS2019.

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