

THE WORLD COMES HERE  
**TMS2019**  
148<sup>th</sup> Annual Meeting & Exhibition

# CALL FOR ABSTRACTS

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

## SUBMIT AN ABSTRACT TO:

### NANOSTRUCTURED MATERIALS

#### **Powder Processing of Bulk Nanostructured Materials**

This symposium will cover recent advances in the powder-route synthesis of bulk nanostructured materials and nanocomposites. Talks are welcome on all aspects of the powder processing of nanostructured materials. Topics of special interest include the following:

- Powder synthesis methods: mechanical alloying and milling, rapid solidification, chemistry-based techniques, emerging powder synthesis methods
- Advanced powder forming methods: novel pressing techniques, binder jet 3Dprinting, laser/electron beam/plasma powder deposition processes, injection molding
- Pressure-assisted consolidation techniques: spark plasma sintering, cold spray deposition, hot pressing, shock-wave consolidation
- Pressureless densification techniques: liquid phase sintering, liquid metal infiltration, nanophase separation sintering, microwave sintering
- New and emerging powder metallurgy-based consolidation processes

TMS strongly encourages talks on structural evolution during these synthesis, forming, and densification operations.

### ORGANIZERS

**Zachary Cordero**, Rice University, USA

**Deliang Zhang**, Shanghai Jiao Tong University, China

**Brady G. Butler**, U.S. Army Research Laboratory, USA

**Ma Qian**, RMIT University (Royal Melbourne Institute of Technology), Australia

Abstract Deadline is July 1, 2018.  
Submit online at [www.programmaster.org/TMS2019](http://www.programmaster.org/TMS2019)

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