

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

**REGISTER  
 TODAY!**

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

**JOIN US FOR THIS TMS2019 SYMPOSIUM:**

**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

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

Visit [www.tms.org/TMS2019](http://www.tms.org/TMS2019)  
 today to register and book housing.