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TMS2019
 148th Annual Meeting & Exhibition

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

JOIN US FOR THIS TMS2019 SYMPOSIUM:

PHYSICAL METALLURGY

Phase Transformations and Microstructural Evolution

Phase transformation is one of the most potent and efficient means to produce desired microstructures in materials for various applications. This symposium is a continuation in a series of annual TMS symposia focusing on phase transformations and microstructural evolution in materials during processing and in service. It intends to bring together experimental, theoretical and computational experts to assess the current status of theories of phase transformations and microstructure evolution primarily in the solid states. In addition to fundamental understanding of the mechanisms underlying phase transformations and microstructure evolution; attention will also be given to the utilization of unique transformation pathways to develop novel microstructures for advanced structural and functional materials.

The phase transformations topics of choice for this year include, but are not limited to phase transformations in:

- Steels and ferrous alloys, non-ferrous alloys, ceramics, and other materials
- Shape memory materials
- in-situ and ex-situ characterization of transformation kinetics and microstructure evolution

All oral presenters are invited to submit regular articles in *JOM* (3,000 to 6,000 words and 8 figures).

ORGANIZERS

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

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