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TMS 2020

149th Annual Meeting & Exhibition

February 23-27, 2020 • San Diego, California, USA



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Physical Metallurgy

Phase Transformations and Microstructural Evolution

Phase transformation is still one of the most effective 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 brings 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 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
- Phase transformations under far-from-equilibrium-condition processing or complex thermal histories
- Control phase transitions via defect engineering
- Materials defects induced by phase transformation
- Computation, data science, and experimentation in the understanding of phase transformations

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TMS Phase Transformations Committee

Abstract Deadline is July 1, 2019. Submit online at
www.programmaster.org/TMS2020.

Questions?
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