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TMS 2026

155th Annual Meeting & Exhibition

March 15–19, 2026
San Diego Convention Center
and Hilton San Diego Bayfront
San Diego, California, USA
#TMSAnnualMeeting

SUBMIT AN ABSTRACT FOR THE FOLLOWING SYMPOSIUM

MECHANICS OF MATERIALS

Fundamental Science of Microstructural Evolution and Phase Transformations: An MPMD/FMD/SMD Symposium in Honor of Peter Voorhees

Understanding microstructural evolution is at the heart of the processing-structure-properties-performance paradigm in materials science. Throughout his career, Professor Voorhees has advanced scientific understanding of microstructural evolution and the kinetics of phase transformations that drives it through a combination of theory, computational modeling, and experimental methodologies. His research has advanced the state of the art in each of these areas. This symposium will highlight key contributions that have furthered scientific understanding of microstructural evolution. Discussion will address the broad-reaching impact of the methodological advancements and their application in a variety of materials, including fundamental thermodynamics, analytical models for coarsening and phase transformations, phase-field and phase-field crystal modeling, and three-dimensional microstructure characterization using sectioning and X-ray tomography.

This symposium will feature invited presentations by colleagues and collaborators of Professor Voorhees. Contributed presentations that are especially inspired or influenced by interactions with him or his work on the previously mentioned topics are also encouraged.

SPONSORED BY:
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