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**TMS 2020**

**149<sup>th</sup> Annual Meeting & Exhibition**

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



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## Advanced Materials

### Progress towards Understanding the Synthesis and Behavior of Metals Far from Equilibrium: An SMD Symposium Honoring Enrique Lavernia on the Occasion of His 60th Birthday

This symposium will honor the outstanding contributions of Prof. Enrique Lavernia to many fields in materials science in the last 30+ years and to celebrate his 60th birthday. In particular, Prof. Lavernia has made seminal contributions to the synthesis and behavior of nanostructured and multi-scale materials with particular emphasis on processing fundamentals and physical behavior, thermal spray processing of nanostructured materials, spray atomization and deposition of structural materials, high temperature-high pressure atomization processes, and additive manufacturing of metals. This symposium will provide a forum for scientists, engineers, and educators to discuss the present status and recent advances in research areas related to the synthesis and behavior of metals far from equilibrium.

Presentations on experimental, theoretical, and modeling research are solicited. Topics of interest to the symposium include, but are not limited to:

- Synthesis and processing of advanced materials, such as nanostructured materials, amorphous metals, high entropy alloys and metal matrix composites
- Fundamentals of synthesis/processing far from equilibrium
- Microstructural characterization of advanced materials using advanced techniques such as high-resolution transmission electron microscopy
- Mechanical behavior of metals far from equilibrium
- Deformation mechanisms in metals far from equilibrium
- Thermal stability of metals far from equilibrium
- Radiation damage and behavior in advanced materials
- Theoretical, computational and analytical modeling of mechanical properties in small dimensions

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Abstract Deadline is July 1, 2019. Submit online at  
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**Questions?**

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