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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:

ADVANCED MATERIALS

Advanced High-Strength Steels III

The demand for fuel economy and lightweighting, without compromising passenger safety, has yielded new innovations in advanced high strength steels (AHSS). This symposium focuses on the latest developments in AHSS, ranging from low-carbon and conventional grades like high-strength low alloy (HSLA) steels, to AHSS grades like dual-phase (DP), transformation-induced plasticity (TRIP), complex phase (CP), and martensitic steels, to second-generation AHSS grades like twinning-induced plasticity (TWIP) steels, to emerging third-generation AHSS grades, such as quenching and partitioning (Q&P), TRIP-assisted bainitic ferrite (TBF), medium-Mn, and low-density steels, for example. This symposium invites experimental and modeling contributions from industry, academia, and government that further our understanding of alloying, processing, microstructure, property, and performance relationships in AHSS.

Topics of interest include:

- alloy, process, and microstructural design
- plasticity and damage
- hydrogen and liquid metal embrittlement
- multi-scale, advanced characterization and modeling of AHSS

ORGANIZERS

Amy J. Clarke, Colorado School of Mines, USA

MingXin Huang, University of Hong Kong, Hong Kong

C. Cem Tasan, Massachusetts Institute of Technology, USA

Kester D. Clarke, Colorado School of Mines, USA

Ana Luiza Araujo, Colorado School of Mines, USA

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

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