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**MARCH 14-18, 2021 • ORLANDO WORLD CENTER MARRIOTT
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SUBMIT AN ABSTRACT TO:

ADVANCED MATERIALS

ADVANCED HIGH STRENGTH STEELS V

High Strength Steels (HSS) and Advanced High Strength Steels (AHSS) have been widely used in commercial vehicles for a few decades. In recent years, the demand for vehicle light weighting has pushed the development of new steel grades (Gen3 AHSS) with a combination of high strength and high elongation that are possible by careful alloying and processing design, often taking advantage of retained austenite. Gen3 steels are becoming commercially available as more steel producers offer high-strength and high-elongation products in their portfolios.

This symposium focuses on the latest developments of the more traditional grades of HSS and AHSS as well as Gen3 steels, including but not limited to: high strength low alloy (HSLA), dual-phase (DP), transformation-induced plasticity (TRIP), complex phase (CP), martensitic, quenched & partitioned (Q&P), medium manganese, TRIP-assisted bainitic ferrite (TBF), press-hardened steel (PHS), twinning-induced plasticity (TWIP) and low density steels.

Submissions are encouraged to demonstrate in-situ techniques, constitutive models, simulations, computational thermodynamics and kinetics, integrated computational materials engineering (ICME), or other advanced techniques that provide increased depth of understanding of these alloys. The advances in the fundamental understanding of these alloys from this symposium facilitate the acceptance and implementation of AHSS and Gen3 steels in commercial vehicles.

ORGANIZERS

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Abstract Deadline is July 1, 2020. Submit online at
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Questions?
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