

International Symposium on New Developments in Advanced High-Strength Sheet Steels

The Hythe Vail
Vail, Colo., USA

19-22 June 2023



Important Dates

Abstracts Due: 28 October 2022

Acceptance Notification:
1 December 2022

Manuscripts Due: 15 February 2023

Organizing Committee

Emmanuel De Moor
Colorado School of Mines

Narayan Pottore
ArcelorMittal Global R&D

Grant Thomas
Cleveland-Cliffs Steel Corp. Research
& Innovation Center

Matt Merwin
United States Steel Corporation

John G. Speer
Colorado School of Mines

Contact

Emmanuel De Moor at
edemoor@mines.edu or
+1.303.273.3624

Alicia Gauffin at
agauffin@aist.org

General information and
registration details will be
available on AIST.org.

Call for Abstracts

Substantial efforts are ongoing toward the development and implementation of advanced high-strength sheet steels (AHSS). These steels are of particular importance to the automotive industry, where their application enables improved fuel economy, extends the range of electric vehicles and increases occupant passive safety. The scope of the conference is to bring together the international community to highlight state-of-the-art research and development pertaining to AHSS.

Contributions are sought to address the latest developments in:

- Physical and mechanical metallurgy.
- Alloy and process design.
- Industrial processing, including coating responses.
- Manufacturing performance such as forming and welding.
- In-service performance, including baking and high strain-rate responses.

Steel grades of interest include, but are not limited to:

- Dual phase (DP).
- Transformation-Induced plasticity (TRIP).
- Hot stamped.
- Martensitic.
- Quenched and partitioned (Q&P).
- TRIP bainitic ferrite (TBF).
- Medium- and high-manganese steels.
- Other third-generation AHSS concepts.
- Future concepts.

The conference is the latest installment in a series of product-focused AIST conferences. Following the AHSS Symposia held in Keystone, Colo. (2017); Vail, Colo. (2013); Orlando, Fla. (2008); and Winter Park, Colo. (2004), this conference will be held at The Hythe Vail in Vail, Colo., USA, on 19-22 June 2023.

It is the goal of the symposium to serve as an international forum for technical exchange among steel professionals from industrial R&D, production, application, design and manufacturing, academia, and government.

Those interested in participating should submit an abstract of 150 words or less by 28 October 2022 at AIST.org.