

3RD INTERNATIONAL SYMPOSIUM ON THE RECENT DEVELOPMENTS IN PLATE STEELS

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ABSTRACT DEADLINE: 15 OCTOBER 2023

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SCOPE

Plate steels can be produced as hot-rolled coils, discrete plates and cut-to-length plates, and can be produced on hot strip mills, conventional plate mills and Steckel mills.

Submissions are currently being accepted for papers on all aspects related to new developments in steel plate from around the world, including:

- New developments in clean steelmaking practices
- Effects of scrap quality and direct reduced iron on residual elements
- Decarbonization efforts
- Inclusion engineering
- Superior slab centerline casting practices
- Advances in slab conditioning practices
- Advances in slab internal quality assessment techniques
- Microstructure evolution and the effects on properties and performance
- Alloy design/product development
- Trends in newer steel developments (e.g., high-Mn, low-density steels)
- Slab reheating practices
- Thermomechanical controlled processing and heat treating (including quenching and partitioning)
- Cooling technologies and applications
- Newer technologies for plate production (e.g., in-line induction tempering)
- Leveling (roller, temper and stretcher)
- On-line inspections (ultrasonic testing and measurement of austenite-to-ferrite transformation)
- Plate surface defects and mitigation
- Digitalization
- Modeling and simulation

WHO SHOULD SUBMIT

Both producer and user perspectives are desired, as well as academia and other researchers.

Of particular interest are papers on product application and the attributes required (i.e., abrasion resistance, hydrogen resistance, welding, forming, thermal cutting, high-temperature resistance, earthquake resistance, low-density materials and machinability).

Recognized sectors for product application include:

- Line pipe
- Bridge
- Infrastructure
- Structures
- Offshore
- Shipbuilding
- Railroad cars
- Pressure vessels
- Heavy machinery
- Lifting equipment
- Dumper bodies
- Nuclear power plants
- Wind towers
- Transmission poles
- Mining
- Armor
- Overlay
- Clad
- Yellow goods



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