7th European Steel Technology and Application Days - ESTAD 2025

Tuesday 7 October 2025

Poster Session - _Foyer (19:00 - 20:30)

[id] title	presenter	board
[17] Exploring the Potential of Electric-Arc-Furnace Slag in Sustainable Crop Production	BILDIRI, Rifat Bugra	
[29] New generation of Admite rolls using in Finishing Stans of section mils	SHEIKHHOSSEINI, Adel	
[49] Optimizing Biomass Gasification-Driven Carburization for Carbon-Neutral Hydrogen-Based Steelmaking	LEE, YUBIN	
[51] SMS ZERO2Flame HY2 burner for reheating furnaces	Mr ZANUSSO, Umberto	
[133] The Effect of Crystallization Temperature on the Properties of Silicon Manganese Slag Cast Stone	Mr HUANG, Yi	
[143] Advancements and Applications of Steel Coil Transportation Equipment Technology in Modern Steel Strip Plants	WEI, Fuqiang	
[155] Advancing Sustainability in Continuous Casting of Steel Strategies for Productivity, Traceability, and Waste Reduction	NACLERIO, Angelo	
[212] Prediction and controlling of strip buckling during industrial continuous annealing process	Dr LI, Ruowei	
[224] Effect of Magnesium Deoxidation on Non-Metallic Inclusions in Austenitic Stainless Steel	CHANG, Min Kwan	
[240] Development of an AI model to optimize cooling conditions for hot-rolled coils from the down coiler to the storage yard to minimize material properties deviations in high-strength steel	Dr KANG, Youn-Hee	
[253] Inline intermix detection by laser spectroscopy, increasing the metallurgical output in continuous casting strand.	AHSAN, amit	
[287] Technical Overview of Unique Non-Woven Process Rolls	Mr ALMQUIST, Eric	
[316] INNOVATION IN FREQUENCY CONVERTERS TO REDUCE DOWNTIME AND IMPROVE PRODUCTIVITY IN STEEL PLANT	Mr BASU, Suvro	
[320] Green steel production through the Endless Bar Production process	Mr TERCELLI, Cristiano	
[333] The Pathway to Autonomous Ironmaking	BETTINGER, Dieter	
[369] Improvement on energy efficiency systems under volatile production scenarios	OSWALD, Jonas	
[380] Multi-alloy production via chips compaction and hot rolling	Mr CETTO, Pietro	
[390] Optimizing DRI Production with Lime-Based Coatings Agents	ADERHOLD, Joyce	
[392] AI-BASED SURFACE INSPECTION AND 3D PROFILING FOR QUALITY ASSURANCE IN STEEL PRODUCT GRINDING	Mr SHARP, Richard	
[404] Green Hydrogen in Cogne	Mr ROMEO, Giuseppe Andrea DIANI, Matteo MORREALE, Vincenzo	
[439] Effect of slag conditions on the wetting behavior between blast furnace slag and cokes	Mr SHIN, Hyeonwoo	

[445] TWINGHY - Digital Twins for Green Hydrogen Transition in Steel Industry	LOSACKER, Johannes	
[450] Decarbonization of Steel: Challenges and Opportunities for Modern Steelmakers and Carmakers	BUCCI, Stefano	
[137] Production conditions of porous iron whisker for the gas reforming in CRIP-D ironmaking process	SATO, Haruka	
[231] Optimization of Fe-Mn-Al-C low-density steels for forging application	Dr PIGATO, Mirko	
[324] Investigation of the reoxidation behaviour of HBI samples produced on a laboratory scale	NESTEROV, Sergej	
[338] Determining of iron oxide pellet porosity using image analysis	Mr BORGES MATOS, Eduardo	
[43] Advanced fluid flow simulation for the RH process	Mr ODENTHAL, Hans-Jürgen	
[91] Transforming Underperforming Steel Plants into Industry Leaders Using State-of-the-art Sustainable Technologies	Mr STAMATAKIS, Georges	
[209] Revolutionizing Blast Furnace Stockhouses: Reducing Degradation and Enhancing Performance	Mr SIRI, Alessandro	
[225] Local Area Production System	THIEL, Jan	
[425] AI-Based Optimization of Compressed Air Networks in Hard-to-Abate Industrial Sectors	ORLIETTI, Lorenzo	
[9] Different Options of Stove Modernization using Innovative Top Combustion Stove of Kalugin Design	Ms KALUGINA, Marina	
[165] Oil Reconditioning in Metal Manufacturing	Mr AGRAWAL, Anshuman	
[173] Green Manganese steel from remelting of hydrogen based Direct Reduced Iron (DRI) and green Ferroalloy: a CO2 free approach	KUMAR, Pankaj	
[185] Next generation of sustainable HICON/H2® bell-type furnace systems	SEEMANN, PETER	
[266] How Biochar Drives the Transition to Sustainable Steel Production	Mr HUBER, Marcel	
[293] Effect of gas volume expansion on carbothermic reaction of phosphoric acid to produce white phosphorus	SIAHAAN, Andrey Stephan	
[306] Thermal simulation of WAAM process to support production	FERNANDES, Mériane	
[342] Development of a 1D Numeric model for axial pebble bed Thermal Energy Storage (TES) as a design decision tool for waste heat recovery in steel plants	MOUSSALEM, antoine	
[417] Advancing Hydrogen Plasma Smelting Reduction: Process Simulation and technical and environmental assessment	HASSANPOUR, Hamideh	
[104] FUME TREATMENT PLANT FOR A STEELMAKING FACILITY: OVERVIEW OF THE MAIN FACTORS THAT AFFECT THE FINAL CHOICE	TOMBA, MATTEO	
[118] Fast and robust order-based scheduling to solve the Mid-Term planning problem	BRANDENBURGER, Jens	
[128] Characteristics and Control of Oxide–Sulfide Complex Inclusions in D2 High-Speed Railway Wheel Steel	Dr BAO, Daohua	
[202] Smarter Galvanizing through Zinc Coating Optimization with EMG iCASS®: A Modular AI-Driven Platform	KRESO, Mark	
[251] Towards zero-defect manufacturing for flat steel production - Introduction of the SurfConInspect Project	BRANDENBURGER, Jens	
[280] Mitigating Worker Skills Gaps using Digital Workflows & Mixed Reality	Mr ALMQUIST, Eric	
[303] Safer Electric Melting: How robotics is transforming the EAF steel production	RUSU, ION	

[352] Integrating CO Reporting with Physically Consistent Material and Energy Flow Analysis to Improve Circularity of Steel Products	Dr DIEKMANN, Uwe	
[393] PREVENT BOTTLENECKS AND OPTIMIZE LADLE AND CRANE LOGISTICS FOR AN EAF-BOF MELT SHOP	UHL-HÄDICKE, Paul	
[457] FROM DATA TO DECISION: UNIFYING PRODUCTION MANAGEMENT AND TPQC FOR OPTIMIZED STEEL PRODUCTION	BECHYNE, Hayane ANKERMANN,, Kai Mr HERZOG, Kurt Mr OBERAIGNER, Wolfgang Dr ZHAI, Yuyou	
[466] Machine learning model for mould powder consumption in continuous steel casting	DA SILVA CRUZ, Pedro Paulo	
[101] PERT BS STAND APPLICATION IN A UPGRADE OF SECTION MILL – CASE HISTORY-	Mr TOMBA, NICOLA	
[71] Advancements in Genius CM® Chatter: Enhancing Chatter root cause detection and vibration management at BRS PLTCM	RICHARD, Sebastian	
[81] X-Pact® Solid Control – process optimization, quality control and root cause analysis in case of abnormalities in the cast product	Mr WILMES, Ronald	
[82] Integrating Centerline and Wedge Control: A Comprehensive Approach to Enhancing Strip Stability, Precision, and Product Quality	Mr HEINZ, Tim Oliver	
[57] Improvement of Breakout Prevention for startup stability enhancement in high productivity thin slab casters	Dr PURSCHE, Thomas	
[476] Latest EAF Off-Gas Results Using Deep View Infra-Red Technology	Ms GRAF, Alexandra	
[477] Experiences and lessons learned from Metso’s Outotec pilot DRI smelting tests	HAIMI, Timo	
[479] Novel production route of fully processed high-Si NGO steels for e-mobility at Marcegaglia Ravenna plant	Dr BARBERINI, Francesco	