Contribution ID: **381** Type: **Oral Presentation**

Bucket Loading and Scrap Yard Logistics Simulation - Optimizing Material Flow and Enhancing Efficiency

Tuesday 7 October 2025 12:30 (20 minutes)

This paper synthesizes five years of simulations across diverse scrap yards, demonstrating how discrete event simulation enhances material flow optimization. The presentation will distill five key lessons, addressing common pitfalls in scrap yard modeling, optimizing scrap pile locations, comparing scrap manipulators, improving bucket handling time and integrating new processing plants. The findings offer a practical road map for steel plants to leverage state-of-the-art simulations, resulting in demonstrable improvements in production efficiency.

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Session Classification: Raw Material Optimization & Scrap Management

Track Classification: Steelmaking - Electric steelmaking