

Session Program

20-22 May 2025



10th European Oxygen Steelmaking Conference - EOSC CTSI 2025

CO2 mitigation in iron and steelmaking

Wednesday 21 May

09:10

CO2 mitigation in iron and steelmaking

Session | **Location:** Room 1 - Maria Theresia | **Convener:** Susanne Michelic

09:10–09:30

The potential of selective adjustments to the suction gas in iron ore sintering to reduce greenhouse gas emissions

Speaker

Dr Jan Eisbacher-Lubensky

09:30–09:50

REDUCING USE OF FOSSIL CARBON AND FUELS TO DECARBONIZE THE ELECTRIC STEELMAKING ROUTE: EVALUATION OF THE EFFECTS OF ALTERNATIVE C-BEARING MATERIALS AND HYDROGEN IN THE ELECTRIC ARC FURNACE

Speaker

Dr Ismael Matino

09:50–10:10

Techno-Economic and Environmental Assessment of By-product Coke-Making Using non-recyclable Waste Plastics: A European Perspective

Speaker

Mr Mario Avila

10:10–10:30

Development of a fuel-flexible ladle preheating system

Speaker

Hannah Kaiser

10:30

11:00

CO2 mitigation in iron and steelmaking

Session | **Location:** Room 1 - Maria Theresia | **Convener:** Neslihan Dogan

11:00–11:20

Reducing CO2 Emissions and Increasing Scrap Recycling in the Integrated Blast Furnace - Basic Oxygen Steelmaking

Speaker

Dr Elena Jipnang

11:20–11:40

The Revival of the KOBM Process

Speaker

Bernhard Voraberger

11:40–12:00

Investigation of the reoxidation and material behaviour of directly reduced pellets

Speaker

Bernd Taferner

12:00–12:20

Decreasing Hot Metal Ratio with dual-flow post-combustion lance at ArcelorMittal Dunkerque

12:20

Speaker

Damien Wagner

14:00

CO2 mitigation in iron and steelmaking**Session** | **Location:** Room 1 - Maria Theresia | **Convener:** Bernd Linzer

14:00–14:20

Application of hydrochar composite briquettes for sustainable slag foaming process in the electric arc furnace**Speaker**

Dr Yu-Chiao Lu

14:20–14:40

Numerical Modeling of Hydrogen Electric Arcs for Optimizing Green Steel Production in EAF**Speaker**

Mohamad Al Nasser

14:40–15:00

Microstructural effect of Al₂O₃ on the H₂-based direct reduction of iron ore**Speaker**

Dr Lena Patterer

15:00–15:20

CO₂ reduction at Tata LD3 using Tallman Technologies focus post combustion technology**Speaker**

Mr Michael Strelbisky

15:20