

Session Program

20-22 May 2025



10th European Oxygen Steelmaking Conference - EOSC CTSI 2025

***Transformation towards electric steelmaking
(EAF, SMELTER)***

Wednesday 21 May

15:50

Transformation towards electric steelmaking (EAF, SMELTER)

Session | **Location:** Room 1 - Maria Theresia | **Convener:** Jens Kempken

15:50-16:10 **The way from BOF to EAF? Investigations and decisions to be done**

Speaker

Mr Hannes Beile

16:10-16:30

Selection of carbon bio-sources based on inherent properties and reactivity for electric smelting furnace applications

Speaker

Dr Lina Kieush

16:30-16:50

Effects of liquid-phase viscosity, gas phase fraction, and sedimentation particle density on foam bubble structure and particle sedimentation behavior

Speaker

Takayuki Iwama

16:50-17:10

Evaluation of the changes in oxidic steel cleanliness linked to tramp elements introduced by increased scrap recycling

Speaker

Mr Julian Cejka

17:10-17:30

Transformation of TŘINECKÉ ŽELEZÁRNY - Together for the generations to come

Speaker

Markéta Tkadlečková

17:30

Thursday 22 May

08:30

Transformation towards electric steelmaking (EAF, SMELTER)

Session | **Location:** Room 1 - Maria Theresia | **Convener:** Abdellah Kharicha

08:30-08:50

Smelter for Green Iron Production and Consequences for the BOF

Speaker

Gerald Wimmer

08:50-09:10

Refractory solutions for the transformation to Green Steel production - solving challenges due to new furnace designs and complex raw material demands for minimum conversion costs and high productivity.

Speaker

Mr Marcus Kirschen

09:10-09:30

Designing the secondary metallurgy for future steel plant based on Ultimate Electric Arc Furnace

Speaker

Dr Georg Gruber

09:30-09:50

PREVENT BOTTLENECKS AND OPTIMIZE LADLE AND CRANE LOGISTICS FOR AN EAF-BOF MELT SHOP

Speaker

Mr Alexander Koenig

09:50

10:20

Transformation towards electric steelmaking (EAF, SMELTER)

Session | **Location:** Room 1 - Maria Theresia | **Convener:** Gerhard Hackl

10:20-10:40

Monolithic. Steel Ladles - Advanced and Sustainable Refractory Solution as part of the Green Steel Transformation

Speaker

Birger Nonnen

10:40-11:00

Simulation of Logistics for Sustainable Steelmaking: Enhancing Efficiency in Green Steel Transitions

Speaker

Mr Stefan Mühlböck

11:00-11:20

CFD-Driven Analysis of EAF Dynamics: Insights into Thermal and Flow Optimization

Speaker

Mohamad Al Nasser

11:20-11:40

Observation of fluid flow characteristics by bottom blowing in the EAF-shaped vessel using physical modelling

Speaker

Ji hyeon Park

11:40