

Session Program

5-7 Oct 2021

**9th International Conference on Modeling
and Simulation of Metallurgical Processes in
Steelmaking - STEELSIM2021**

***T_10 Advanced iron & steel processing,
environmental impact***

Virtual Conference

Tuesday 5 October

13:00

T_10 Advanced iron & steel processing, environmental impact

Session | **Location:** Room 1 | **Convener:** Prof. Henrik Saxén

13:00–13:20

Recent modeling approaches to close-coupled atomization for powder production

Speaker

Prof. Hans-Jürgen Odenthal

Location

Room 1

13:20–13:35

Development of a kinetic mechanism for the direct reduction of hematite pellets in CO-H₂ atmospheres using a porous solid pellet model

Speaker

Mr Mohammed Liaket Ali

Location

Room 1

13:35–13:50

Hydrogen based direct iron ore reduction plant simulation

Speaker

Dr Roland Eisl

Location

Room 1

13:50–14:05

Search for Compositionally Complex Coating Materials for a Sustainable Steel Industry

Speaker

Dr Zihui Dong

Location

Room 1

14:05–14:20

Computational fluid modelling of plastics injections in EAF metallurgical operation through innovative nozzles and industrial testing

Speaker

Dr Michele De Santis

Location

Room 1

14:20