

Session Program

22-25 Sept 2024



Liquid Metal Processing & Casting Conference - LMPC 2024

Session 8

ASIA Hotel & Spa Leoben
In der Au 1/3, A-8700 Leoben, Austria

Wednesday 25 September

10:40

Session 8: Properties

Session | **Location:** ASIA Hotel & Spa Leoben, In der Au 1/3, A-8700 Leoben, Austria | **Convener:** Ashish Patel

10:40–11:00

A Novel Approach for Measuring the Electrical Conductivity of Molten ESR Slag Systems

Speaker

Mr Emanuel-Sebastian Drude

11:00–11:20

Surface tension and viscosity measurements on laser heated liquid gallium droplets using acoustic levitation and oscillations methods

Speaker

Dr Thibault Quatravaux

11:20–11:40

Non-metallic inclusion capture at the steel-slag interface in tundish simulations

Speaker

Gerhard Holzinger

11:40–12:00

Effect of deoxidizing elements on inclusions in vacuum refining of stainless steel

Speaker

Mr Shunsuke Narita

12:00

13:30

Session 8: Properties 2

Session | **Location:** ASIA Hotel & Spa Leoben, In der Au 1/3, A-8700 Leoben, Austria | **Convener:** Dr Thibault Quatravaux

13:30–13:50

Modelling the physical properties of electrofluxes through the lens of experimental data

Speaker

Dr Javad Mohsseni

13:50–14:10

A Review of Nitrogen Solubility in Nickel-based Alloys

Speaker

Richard Smith

14:10–14:30

Steel and slag combined in HT-CSLM: A new approach for the in-situ investigation of non-metallic inclusions

Speaker

Mr Julian Cejka

14:30–14:50

Integrated Numerical and Experimental Analysis of Refractory Erosion: A Case Study on Alumina with CAS and CASM Slags

15:10

Speaker

Jeronimo Guarco

14:50-15:10

Experimental observation and CFD study on inclusion particle behavior at a slag/argon interface

Speaker

xiaomeng zhang

15:30

Session 8: Properties 3

Session | **Location:** ASIA Hotel & Spa Leoben, In der Au 1/3, A-8700 Leoben, Austria | **Convener:** Christoph Turk

15:30-15:50

Microstructural evolution and dynamic phase transformation of micro-alloyed steel during hot deformation and its impact on the 2nd ductility minimum

Speaker

Mr Saeid Bakhtiari

15:50-16:10

Laser ultrasound for in line and in situ measurements during casting and rolling.

Speaker

Edgar Scherleitner

16:10-16:30

Reducing the risk of blowholes in heavy steel plates: causes to consider

Speaker

Lev Medovar Medovar

16:30