

Session Program

5-7 Oct 2021

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

T_5 Flow control & solidification

Virtual Conference

Tuesday 5 October

10:20

T_5 Flow control & solidification

Session | **Location:** Room 2 | **Convener:** Prof. Božidar Šarler

10:20–10:40

Model experiments in a liquid metal mockup focusing on the bubble dynamics in a steel ladle

Speaker

Dr Thomas Wondrak

Location

Room 2

10:40–10:55

Study of Bubble Breakup and Coalescence in Gas-Stirred Ladle Refining Process

Speaker

Dr Wentao Lou

Location

Room 2

10:55–11:10

Ensuring better inert gas shielding of ladle shroud-collector nozzle (LS-CN) assembly: A new gas delivery design and industrial scale assessment

Speaker

Prof. Dipak Mazumdar

Location

Room 2

11:10–11:25

Experimental and numerical study of the open eye in the uphill teeming ingot casting process

Speaker

Mr Jun Yin

Location

Room 2

11:25

13:00

T_5 Flow control & solidification

Session | **Location:** Room 2 | **Convener:** Prof. Božidar Šarler

13:00–13:20

From real-time CFD simulations towards flow-based digital shadows of metallurgical processes

Speaker

Prof. Stefan Pirker

Location

Room 2

13:20–13:35

Analysis of inclusions removal during steel flow in multi-strand tundish using numerical modelling

Speaker

Mrs Markéta Tkadlečková

Location

Room 2

13:35–13:50

Water model experiments on the influence of the phase distribution in the SEN considering varying operating conditions

Speaker

Mrs maria thumfart

Location

Room 2

13:50–14:05

Analysis of the hysteresis behavior in regime transition of co-current liquid-gas flow using computational fluid dynamics

Speaker

Mr Mahdi Saeedipour

Location

Room 2

14:05