

Session Program

13-15 Oct 2026



ICRF 2026 - 5th International Conference on INGOT CASTING, ROLLING & FORGING

Numerical Simulation, AI & Digital Innovation **/**

Hotel Caesius Terme & SPA Resort - Bardolino - Verona
Via Peschiera, 3, 37011 Bardolino VR

Tuesday 13 October

11:20

Numerical Simulation, AI & Digital Innovation I

Session | **Location:** Hotel Caesius Thermae & Spa Resort, Gardenia room, Via Peschiera, 3, 37011 Bardolino VR | **Convener:** Daniele Brunelli

11:20-11:40

Experimental determination of partition coefficients considering peritectic reactions and application to macro-segregation simulation in a large steel ingot

Speaker

Shintaro Yano

11:40-12:00

Minimization of mould flux entrapment during ingot casting through CFD modelling

Speaker

Prof. Yu-Chiao Lu

12:00-12:20

Transition to synthetic casting fluxes in ingot casting area, Acciaierie Bertoli Safau case study: analysis of process variables and qualitative impact following the fly ash supply crisis.

Speaker

Sara Busolini

12:20-12:40

Characterization of mould flux-originated non-metallic inclusions in ingot casting

Speaker

Ms Qingxin Xu

12:40-13:00

A Multiphysics Front-Tracking Model for Thermochemical Evolution of Casting Powders during Ingot Casting

Speaker

Mrs Noura BELAICHA

13:00