

Session Program

5-6 May 2022

Integrated Computational Materials, Process and Product Engineering - IC-MPPE 2022

Poster Show & Get-Together

Live Congress Leoben
Hauptpl. 1, 8700 Leoben, Austria

Thursday 5 May

19:00

Poster Show & Get-Together

Session | **Location:** LCS-Dominikanerhof

19:00–19:02

Selected metallurgical models for computationally efficient prediction of quality-related issues in continuous slab casting of steel

Speaker

Michael Bernhard

19:02–19:04

Simulation of a free dross particle growth from a zinc melt and the effect of hydrodynamics

Speaker

Mihaela Stefan-Kharicha

19:04–19:06

Small-scale mechanical characterization of LiTaO₃ and LiNbO₃ single crystals for SAW filters

Speaker

Manuel Gruber

19:06–19:08

How to measure thermal properties of thin layers with rough surfaces.

Speaker

Dr Katrin Fladischer

19:08–19:10

Is there a representative grain boundary?

Speaker

Ayush Suhane

19:10–19:12

In-situ investigation on the effect of carbon and phosphorus on austenite grain growth by High-Temperature Laser Scanning Confocal Microscope

Speaker

Maximilian Kern

19:12–19:14

Experimental thermodynamics for improving CALPHAD optimizations at the Chair of Ferrous Metallurgy

Speaker

Peter Presoly

19:14–19:16

AI prediction of mechanical properties of steel from a technological production route.

Speaker

Mr Gerfried Millner

19:16-19:18

Software Development Best Practices: Implementing Continuous Integration/Continuous Deployment (CI/CD) at MCL**Speaker**

Mr Franco Moitzi

19:18-19:20

MCL Software Tools**Speaker**

Natalia Bedoya

19:20-19:22

Non-Destructive 3D Fracture Detection in Pb-Free Solder Ball Grid Arrays using Micro X Ray Computed Tomography and Image Analysis**Speaker**

Ms Priya Paulachan

19:22-19:24

Scarring of Acoustic Waves - Indirect detection of sub micro errors in TSVs at Wafer level**Speakers**

Ms Priya Paulachan, Dr Roland Brunner

19:24-19:26

Cold Rolling of Railway Axles: Why Residual Stresses Can Prevent Failures Under the Influence of Corrosion Fatigue**Speaker**

Jakob Bialowas

19:26-19:28

Material Accelerator Platforms for Novel Material Design**Speaker**

Bernd Schuscha

19:28-19:30

Digital twins of industrial manufacturing processes**Speaker**

Dr Peter Raninger

19:30-19:32

Local Hydrogen Concentration- a process and microstructure dependent evaluation for high strength fasteners**Speaker**

Dr Silvia Leitner

20:00