

Green Refractories

Shaping our Future: Vision or Fiction?

Refractory Recycling: A contribution for raw materials, energy and climate efficiency in high temperature processes.

Lectures



08:30 AM Christos Aneziris

Welcome address



08:40 AM Dr. Patrick Gehre

Recycling of MgO-C for raw materials, energy, and climate efficiency in high-temperature processes



09:10 AM Dr. Otávio H. Borges

Designing porous ceramics through Kirkendall and dealloying-like mechanisms to improve high-temperature thermal insulation



09:40 AM Alexander Schramm

Thermo-mechanical characterization of commercial MgO-C refractory bricks with and without MgO-C recyclates



10:10AM Dr. Luiz Otávio Z. Falsetti

A framework for predicting slag properties and investigating an alternative foaming conditioner in the EAF



10:40 AM Dr. Vasileios Rountos

Prospects of boron-free self-glazes for cold-isostatic pressed Al_2O_3 -C functional refractories



11:10AM Dr. Murilo H. Moreira

Can a polymeric fiber crack a refractory castable? On the role of microcracking on the permeability enhancement of castables



11:40AM Dr. Dániel Veres

Environmentally friendly binder systems for MgO-C recyclates containing ladle bricks



12:10AM MSc. Matheus F. dos Santos

Transient liquid sintering: first look into ACZ refractory castables and additives



12:40 AM Prof. Victor Pandolfelli

Closing remarks

October 21, 2025

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