8th K1-MET Scientific Exchange Day

February 1st 2017, Fachhochschule Oberösterreich,
Campus Wels (School of Engineering / Environmental Sciences)
Stelzhamerstraße 23, 4600 Wels
Location: Aula (Raum Nr. EG-005)

Main goal of the Scientific Exchange Day (SED) is to present current research activities and results within the COMET K1-MET programme. Furthermore, the SED represents an opportunity to stimulate the interactions between the scientific and the industrial partners of K1-MET. There will be plenty of time for discussion.

09:00 - 09:30 Come together, Registration

09:30 - 09:40 Welcome and Introduction

Morning Session: Success Stories Research Areas

Chairman: em.O.Univ.-Prof. Dipl.-Ing. Dr.mont. Werner Kepplinger

(Maximum time target: 20 min. Presentation, 10 min. Discussion)

09:40 - 10:10 Research Area (RA) 1: Laura Muche (Technische Universität Bergakademie Freiberg)
"Briquetting of a coking coal mixture for utilization in a coking plant".

10:10 - 10:40 RA 2: Stefan Puttinger (Johannes Kepler Universität Linz)
"Process optimization of metals reduction technologies - Data analysis & monitoring of multiphase flows".

10:40 - 11:00 Break

11:00 - 11:30 RA 3: Lukas Preuler (K1-MET GmbH)
"Heat transfer in the secondary cooling zone of the continuous casting process".

11:30 - 12:00 RA 4: Thomas Lichtenegger (Johannes Kepler Universität Linz)
"Recurrence CFD - a new approach to simulate the long-term evolution of highly dynamic flows".

12:00 - 13:00 Lunch

Afternoon Session: Workshop "modeling - simulation - data measurement"

Chairman: Prof. Dr. Ing. Rüdiger Deike / Maximum time target: 15 min., discussion afterwards

- Christian Weiß (Montanuniversität Leoben): "Transport phenomena and material parameters in reactive metallurgical melts".
- Harald Harmuth (Montanuniversität Leoben): "Mass transfer at moving boundaries".
- Stefan Pirker (Johannes Kepler Universität Linz): "Simulation & modeling 2019+".
- Ernst Kozeschnik (Technische Universität Wien): "Modeling hot ductility during continuous casting of steel".
- Peter Presoly (Montanuniversität Leoben): "In thermodynamic databases we trust".
- Afterwards open discussion on the presentations and for future research activities (2nd funding period 2019 – 2023)

Closing Coffee (~ 15:00)

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