

Session Program

25-28 Sept 2018



8th International Congress on Science and Technology of Ironmaking - ICSTI 2018

Modelling and simulation in coke and ironmaking

Schloss Schönbrunn
Schloss Schönbrunn, Apothekertrakt, Vienna

Thursday 27 September

08:30

Modelling and simulation in coke and ironmaking

Session | **Location:** Schloss Schönbrunn, Room 9 - Maximilian, Schloss Schönbrunn, Apothekertrakt, Vienna

08:30–08:50

THERMAL FLUID ANALYSIS IN DEFORMING PACKED BED

Speaker

Prof. Hiroshi Nogami

08:50–09:10

DEM-CFD MODELLING OF THE TRANSIENT, MULTIPHASE FLOW IN THE HEARTH OF A BLAST FURNACE

Speaker

Mr Frederik Bambauer

09:10–09:30

PREDICTION OF BLAST FURNACE HEARTH CONDITION: THEORY AND PRACTICE

Speaker

Dr xuefeng Dong

09:30–09:50

Multiphase modelling of the blast furnace hearth during tapping

Speaker

Mr Mathias Vångö

09:50

10:20

Modelling and simulation in coke and ironmaking: Modelling and simulation in coke and ironmaking

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10:20–10:40

SOFTENING AND MELTING MODELING OF IRON ORE PARTICLES USING A DISCRETE-CONTINUOUS COUPLING METHOD

Speaker

Mehdi Baniasadi

10:40–11:00

TOWARDS THE COMPREHENSION OF FERROUS BURDEN SOFTENING AND MELTING PHENOMENA IN BLAST FURNACE - DEVELOPMENT OF A THERMODYNAMIC APPROACH

Speaker

Mr Ismael Flores

11:00–11:20

MODELLING OF GAS AND MATERIAL DISTRIBUTION, RACEWAY CONDITIONS AND SLAG MODE OF OPERATION OF BLAST FURNACE

Speaker

Dr Yakov Gordon

11:20–11:40

SIMULATION OF BURDEN CHARGING IN A BLAST-FURNACE EQUIPPED WITH A BELL-LESS TOP SYSTEM USING DISCRETE ELEMENT METHOD

11:40

Speaker

Dr Rodrigo MAGALHÃES DE CARVALHO

12:40

Modelling and simulation in coke and ironmaking: Modelling and simulation in coke and ironmaking

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12:40-13:00

STRATEGIC OPERATION AND RAW MATERIALS PLANNING FOR INTEGRATED STEEL PLANTS IN THE PROCESSS INTEGRATION PLATFORM m.simtop

Speaker

Dr Bernd Weiss

13:00-13:20

SIMULATION RESEARCH ON IMPROVING 7.63M COKE OVEN HIGH-HEATING UNIFORMITY IN SHOUGANG

Speaker

Mr Chao Ma

13:20-13:40

IMPACT EVALUATION OF METALLIZATION DEGREE OF PELLETS FOR DIRECT REDUCTION ON ITS VALUE IN USE

Speaker

Mr Michel Leite

13:40