

Session Program

25-28 Sept 2018



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

Sintering

Schloss Schönbrunn
Schloss Schönbrunn, Apothekertrakt, Vienna

Tuesday 25 September

10:45

Sintering

Session | **Location:** Schloss Schönbrunn, Room 7 - Marie Antoinette, Schloss Schönbrunn, Apothekestrakt, Vienna

10:45-11:05

KEY TECHNICAL CHALLENGES IN SINTER MAKING AT TATA STEEL KALINGANAGAR - USE OF HIGH ALKALI ORES & CONTROL OF HIGH TEMPERATURE PROPERTIES.

Speakers

Mr ARUNKUMAR CHELLADURAI, Mr SRINIVASA REDDY ASADI

11:05-11:25

DEVELOPMENT OF GRANULATION AND FIRING TECHNOLOGY IN USING LARGE QUANTITY OF MAGNETITE FINE ORE

Speaker

Mr Koji Osuga

11:25-11:45

EFFECT OF ORDINARY MAGNETITE RATIOS ON PROPERTIES, PRODUCTIVITY, AND STRENGTH OF HONGGE HIGH-CHROMIUM VANADIUM-TITANIUM MAGNETITE SINTERS

Speaker

Dr Weidong Tang

11:45-12:05

IMPACT OF IRON ORE ULTRA-FINES ADDITION ON GRANULATION IN THE SINTERING PROCESS

Speaker

Prof. Maurício Bagatini

12:05

14:30

Sintering

Session | **Location:** Schloss Schönbrunn, Room 7 - Marie Antoinette, Schloss Schönbrunn, Apothekestrakt, Vienna

14:30-14:50

DEM ANALYSIS OF GRANULE SIZE SEGREGATION IN IRON ORE SINTERING

Speaker

Prof. Tom Honeyands

14:50-15:10

NUMERICAL SIMULATION OF HEAT TRANSFER INSIDE THE SINTERING BED BY EMPLOYING DIFFERENT CROSS-SECTION SHAPES

Speaker

Mr Chengfeng Sun

15:10-15:30

INFLUENCE OF MAXIMUM TEMPERATURE, HOLDING TIME AND COOLING RATE ON THE STRENGTH OF SINTER ANALOGUES

Speaker

Mr Tobin Harvey

15:30-15:50

CRYSTAL PHASES IN CaO-FeO-Fe₂O₃ SYSTEM TRANSFORMED FROM CaO-Fe₂O₃ SYSTEM UNDER A HIGH COOLING RATE IN AIR**Speaker**

Prof. Yoshiaki Kashiwaya

15:50

16:15

Sintering: Sintering**Session** | **Location:** Schloss Schönbrunn, Room 7 - Marie Antoinette, Schloss Schönbrunn, Apothekertrakt, Vienna

16:15-16:35

ASSIMILATION BEHAVIOR OF MgO SOURCE DURING IRON ORE SINTERING**Speaker**

Mr Kohei Okada

16:35-16:55

REACTIVE WETTING OF CALCIUM FERRITE ON TiO₂ SUBSTRATE AT 1523K**Speaker**

Mr Mingrui Yang

16:55-17:15

THE DISTRIBUTION OF MAGNESIUM IN THE SINTERED PRODUCTS AND ITS EFFECT**Speaker**

Mr Weili zhang

17:15-17:35

APPLICATION OF CRYSTALLOGRAPHY TO THE THERMODYNAMIC MODELLING OF SILICO-FERRITE OF CALCIUM AND ALUMINUM**Speaker**

Dr Reiko Murao

17:35

Wednesday 26 September

09:00

Sintering: 3

Session | **Location:** Schloss Schönbrunn, Room7 - Marie Antoinette, Schloss Schönbrunn, Apothekertrakt, Vienna

09:00–09:20

ESTABLISHMENT OF NEW SINTERING REGIME FOR HIGH ALUMINA IRON ORE FINES AT TATA STEEL JAMSHEDPUR

Speakers

Mr Arunkumar CHELLADURAI, Mr SRINIVASA REDDY ASADI

09:20–09:40

EVALUATION OF SINTERING BEHAVIOUR OF IRON ORES BASED ON ORE CHARACTERIZATION

Speaker

Mr Takahide Higuchi

09:40–10:00

THE ROLE OF MINERAL PHASES BY SINTERING OF IRON ORES WITH BIOFUEL

Speaker

Mr Roland Mežibřícký

10:00–10:20

ISOTHERM IN THE Fe-RICH REGION AND MgO PARTITIONING BETWEEN LIQUID SLAG AND Fe₃O₄ ON THE FeOx-CaO-SiO₂-MgO SYSTEM AT 1573 K UNDER OXYGEN PARTIAL PRESSURE OF 10⁻⁷ atm

Speaker

Dr Miyuki Hayashi

10:20

10:50

Sintering: 4

Session | **Location:** Schloss Schönbrunn, Room 7 - Marie Antoinette, Schloss Schönbrunn, Apothekertrakt, Vienna

10:50–11:10

DEVELOPMENT OF A TECHNIQUE THAT ADDING IRON ORE MICRO-PARTICLE BINDER GROUND BY VERTICAL WET BALL MILL FOR INCREASE OF IRON CONCENTRATE AT SINTERING PROCESS

Speaker

Mr Yasuhide Yamaguchi

11:10–11:30

EFFECT OF ULTRA-FINE IRON ORES ON SINTER PROCESS AND QUALITY

Speaker

Mr Gabriel Steindorf

11:30–11:50

IRON ORE SINTERING RESEARCH AT DIFFERENT SCALES

Speaker

Dr Liming Lu

12:10

11:50-12:10

EFFECT OF CONDUCTIVITY AND MAGNETIZATION OF WATER ON GREEN MIX GRANULATION PROCESS

Speaker

Mr Acharyulu AVB

13:30

Sintering: 5

Session | **Location:** Schloss Schönbrunn, Room 7 - Marie Antoinette, Schloss Schönbrunn, Apothekestrakt, Vienna

13:30-13:50

RECENT PROGRESS IN IRON ORE SINTERING TECHNOLOGIES IN ANSTEEL

Speaker

Mr Mingshun ZHOU

13:50-14:10

FIVE DECADES OF SINTER MAKING AT TATA STEEL - A CONTINUOUS IMPROVEMENT JOURNEY

Speaker

Mr Debanik Mitra

14:10-14:30

CONTROLLING OF FUEL PARTICLE SIZE TO MINIMIZE DUST EMISSION AND IMPROVE PRODUCTIVITY IN IRON ORE SINTERING PROCESS

Speaker

Mr SEUNGYEON WON

14:30