

Session Program

26-29 Jun 2017



EUROPEAN STEEL TECHNOLOGY AND APPLICATION DAYS 2017 - ESTAD 2017

Blast Furnace Ironmaking

Wednesday 28 June

08:30

Blast Furnace Ironmaking

Session | **Location:** Room G1

08:30–08:50

Holistic optimization models - recent developments in ironmaking process control

Speaker

Mr Dieter Bettinger

08:50–09:10

Hot blast superheating - A scalable technology to reduce coke consumption

Speaker

Mr Ian Cameron

09:10–09:30

Blast furnace smelting of the titaniferous magnetite ores with the various content of titanium dioxide and quality of the agglomerated raw materials

Speaker

Mr Andrey Dmitriev

09:30–09:50

Mathematical model to simulate liquid metal & slag accumulation, drainage and heat transfer in blast furnace hearth

Speaker

Mr Hemant Upadhyay

09:50–10:10

Influence of injection of pre-reduced iron ores on the processes in the blast furnace raceway

Speaker

Mr Alexander Babich

10:10

10:40

Blast Furnace Ironmaking

Session | **Location:** Room G1

10:40–11:00

Identifying the blast furnace salamander position by using non-destructive testing (NDT) techniques

Speaker

Dr Afshin Sadri

11:00–11:20

New designed long-life copper stave cooling system for blast furnace

Speaker

Mr Jungil Kim

11:20–11:40

New discrete element simulation for trickle flow in blast furnace

Speaker

Mr Shungo Natsui

11:40–12:00 Ironmaking in Western Europe**Speaker**

Mr Hans Bodo Lungen

12:00–12:20**Analysis of copper stove breakage and restoration technology in Pohang no.4 Blast Furnace****Speaker**

Mr Keun Young KIM

12:20

14:00

Blast Furnace Ironmaking**Session | Location:** Room G1**14:00–14:20****Improvement of overall blast furnace performance after the revamping of the top charging system at ArcelorMittal Atlantique et Lorraine BF-2****Speakers**

Mr Jérôme DAULMERIE, Mr Thiago RABELO NUNES CAMPOS

14:20–14:40**Mathematical model dedicated to the diagnosis and optimization of blast furnace hot stove battery operation****Speaker**

Mr Thibault Quatravaux

14:40–15:00**New hearth design for blast furnace no. 3 at DK****Speaker**

Mr Reinoud Van Laar

15:00–15:20**New top charging unit for Zaporizhstal****Speaker**

Mr Jan Bak

15:20–15:40**Industrial application of blast furnace liquid levels measurements using strain gauges****Speaker**

Mr Raffael Mancini

15:40

16:10

Blast Furnace Ironmaking**Session | Location:** Room G1**16:10–16:30****Hot blast stove campaign extension repairs at operating temperature****Speaker**

Mr Jan Bak

16:30–16:50**Importance of thermocouple layout in blast furnace hearth refractory wear monitoring**

Speaker

Mr Hamid Ghorbani

16:50–17:10

Temperature fluctuation impact on structural behavior of blast furnace hearth refractory system

Speaker

Mr Hamid Ghorbani

17:10–17:30

Mathematical model and stabilization system for slag mode of blast furnace operation

Speaker

Mr Yakov Gordon

17:30

Thursday 29 June

08:30

Blast Furnace Ironmaking

Session | **Location:** Room G1

08:30–08:50

Influence of sinter and pellets proportion and quality on blast furnaces operation

Speaker

Mr Yakov Gordon

08:50–09:10

Implementation and results of non-destructive testing method for cooling staves thicknesses at NLMK

Speaker

Mr Winnie Ying

09:10–09:30

AU-E control of blast furnace refractory lining at NTMK-EVRAZ ensures intensive operation and prediction of the end of campaign of titania blast furnace.

Speaker

Mr Yakov Gordon

09:30–09:50

Reactive PCI® technology - the next milestone in Küttner's comprehensive PCI know-how

Speaker

Mr Franz Reufer

09:50–10:10

A combined data processing approach to improve blast furnace raceway blockage detection

Speaker

Mr Stefan Puttinger

10:10

10:40

Blast Furnace Ironmaking

Session | **Location:** Room G1

10:40–11:00

Evaluation of bio-coke strength and reactivity for blast furnace use

Speaker

Mr Hannu Suopajarvi

11:00–11:20

Hot blast stoves - Latest developments, assessment and lifetime extension

Speaker

Mr Eric Schaub

11:20–11:40

Unconventional reducing agents for sustainable blast furnace ironmaking

Speaker

Mr Hesham Ahmed

11:40–12:00

Installation of a dry slag granulation pilot plant at blast furnace A of voestalpine**Speaker**

Mr Alexander Fleischanderl

12:00–12:20

Operation and maintenance technology for prolong campaign life of large blast furnace hearth**Speaker**

Mr Wanren Xu

12:20

14:00

Blast Furnace Ironmaking**Session** | **Location:** Room G1

14:00–14:20

Improved production efficiency with material selection for steel making**Speaker**

Mrs Alessandra Spaghetti

14:20–14:40

GRANSHOT turns logistic challenge into valuable product in integrated steel making**Speaker**

Mrs Kristina Beskow

14:40–15:00

A new practical engineering approach to improving the service sustainability of copper staves in blast furnaces**Speaker**

Mr Henk Reimink

15:00