

European Research of Secondary Metallurgy: with Emphasize on Connected Auxiliary Materials

22-23 MAY 2017, Nordic Forum, Kista

DURING THIS LUNCH-TO-LUNCH workshop the past and present researches on the topic of secondary steelmaking will be presented. Presentations will be given by European experts including researchers from Swerea MEFOS.

DissTec - Valorisation and dissemination of technologies for measurement, modelling, and control in secondary metallurgy, is a continuation of the previous RFCS project VALEAF (Valorisation and dissemination of EAF technology) which focuses on disseminating the projects funded by RFCS on the subject of secondary metallurgy. Within the current project, results obtained in previous RFCS projects will be valorized and disseminated.

There have been significant numbers of research projects on secondary metallurgy technology within the RFCS programme over the past 25 years. This contributed to the development of a number of models, technological solutions and hardware/software tools. The objectives of DissTec are to promote the knowledge and various outputs derived from the European projects, clarify the efforts, obstacles and gains of the European industries and develop a road-map to promote the future research on the secondary metallurgy.

The seminar is intended for Swedish and European steel industry and research institutes.

Welcome!

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LOCATION

Nordic Forum, Torshamnsgatan 35, Kista

REGISTRATION

Registration should be made by 17 May 2017.

The participation is free of charge.

Register on: www.swerea.se/disstec

PROGRAMME

Monday 22 May

13.00-13.30 Introduction *Swerea MEFOS*

13.30-14.00 Development of applied process metallurgy with respect to secondary refining *Pär Jönsson and Andrey Karasev, KTH*

14.00-14.30 Improved purging plugs performances and monitoring to improve availability and performance of the gas stirring *Birgit Palm, BFI*

14.30-15.00 Break

15.00-15.30 Development of steel grade related slag systems with low reoxidation potential in ladle and optimised ladle glaze technique for improving steel cleanliness *Mselly Nzotta, Uddeholms*

15.30-16.00 Resource-saving operation and control of stainless steel refining in VOD and AOD process *Mikael Ersson, KTH*

16.00-16.30 Grain size control in steel by means of dispersed non-metallic inclusions *Jesper Janis, Outokumpu Stainless*

Visit at UHT – Demonstration of UTCAS®

19.00 Dinner (FnB Market, Kista Galleria)

Tuesday 23 May

09.00-09.30 Increased yield and enhanced steel quality by improved deslagging and slag conditioning *Lars-Erik From, Swerea MEFOS*

09.30-10.00 Enhanced steel ladle life and thermal state ladle monitoring by temperature measurements and numerical simulation of temperature and stresses *Birgit Palm, BFI*

10.00-10.30 Break

10.30-11.00 Refractories in secondary metallurgical processes *Johan Björkvall, Swerea MEFOS*

11.00-11.30 Characterisation and optimisation of ladle stirring systems for the steelmaking industry *Jonas Alexis, Swerea MEFOS*

11.30-12.00 Concluding remarks *Swerea MEFOS*

12.00-13.00 Lunch

