

International Seminar 2010

NTNU Campus 18-19 November 2010

Thursday 18 November 2010

Location: Chemistry Building 2, Sem Sælands vei 12, room K1-140, NTNU Gløshaugen

08:00 Welcome

08:05 *"High-Temperature Oxidation of Stainless Steels (Ferritic, Austenitic)"*

Harri Kiesi, Aalto University

Opponent: Rajat Sharma, NTNU

08:30 *"The Settling of Silicon in $\text{SiO}_2\text{-CaO-Al}_2\text{O}_3$ Slags and its Viability for State Aid from Enova"*

Ole J. Østensen, NTNU

Opponent: Sonja Patana, Aalto University

08:55 *"Availability of Minority Metals in Copper Production"*

Iiro Lehtiniemi, Aalto University

Opponent: Jens E. Davidsen, NTNU

09:20 *"Recycling of Aluminum and Steel – Challenges and Opportunities"*

Camilla Sommersest, NTNU

Opponent: Maria Helle, Aalto University

09:45 Coffee and Tea

10:05 *"Pre-Treatment Methods for Leaching of Refractory Gold Minerals"*

Zakaria Arifi, Aalto University

Opponent: Shuang Zhang, NTNU

10:30 *"Silicon Monoxide Condensation and Silicosis"*

Håvard Mølnås, NTNU

Opponent: Markus Aspöck, Aalto University

10:55 *"Modelling of Inclusions and Precipitations in Continuous Casting of Steel – A Case Example: Factsage Tool"*

Ville Fomkin, Aalto University

Opponent: Steinar Jørstad, NTNU

11:20 *"Materials for High-Temperature Corrosion in Power Generation"*

Hanna Sahivirta, Aalto University

Opponent: Ole J. Østensen, NTNU

11:45 Lunch

Location: PFI (Papir- og fiberinstituttet AS), Høgskoleringen 6B, 5 tr., NTNU Gløshaugen

12:45 *"Analysis of Non-metallic Inclusions in Different Fe-alloys by using Electrolytic Extraction"*

Mania Kazemi and Sadaf Vazehrad, KTH

Opponent: Harri Kiesi, Aalto University

13:10 *"Thermodynamic Properties of Silver Selenites, Selenates as well as Tellurites and Tellurates"*

Sonja Patana, Aalto University

Opponent: Mohammad Sadegh Kargar, KTH

- 13:35 *"Kinetics of Ilmenite Reduction with C, CO and H₂"*
Steinar Jørstad, NTNU
Opponent: Yi-Yao Lu, Yang Yang and Cen Zhang, KTH
- 14:00 *"Application of Electrolytic Extraction Technique for Analysis of Tool Steel"*
Georgina Jahan and Eric Kojo Kweitsu, KTH
Opponent: Håvard Mølnås, NTNU

14:25 Coffee and Tea

- 14:45 *"Determining Factors in Boron Removal by Slag Refining"*
Shuang Zhang, NTNU
Opponent: Hanna Sahivirta, Aalto University
- 15:10 *"Stabilities of Platinum Metal-Based Oxides"*
Maria Helle, Aalto University
Opponent: Jiang Zaixiang, Zhou Nian and Wang Hansheng, KTH
- 15:35 *"How to Measure Vapour Pressures at Elevated Temperatures"*
Martta Nousiainen, Aalto University
Opponent: Muhammad Shafiul Bashar, KTH
- 16:00 *"Reduction of SiO₂ in High Silicon Alloys"*
Jens E Davidsen, NTNU
Opponent: Niko Helstén, Aalto University

16:25 Coffee and Tea

- 16:45 *"Spouted-Bed Cells for Recovery of Metals from Dilute Solutions"*
Matti Ottelin, Aalto University
Opponent: Daniel Gonzalez Hernandez and Yuze Gong, KTH
- 17:10 *"Heat Transfer along the LD Wall"*
Niloofer Arzpeyma, KTH
Opponent: Johanna Haapasalmi, Aalto University
- 17:35 *"Electrochemical Regeneration of Oxidants for Sulphide Leaching (Fe³⁺, MnO₄)"*
Oskari Karhuvaara, Aalto University
Opponent: Georgina Jahan and Eric Kojo Kweitsu, KTH
- 18:00 *"Granulation Process and Gansbor® Mapping in SSAB Oxelösund"*
Mohammad Sadegh Kargar, KTH
Opponent: Martta Nousiainen, Aalto University
- 18:25 *"Recovery of Gold from Thiosulphate Solutions"*
Niko Helstén, Aalto University
Opponent: Frank Hayford and Sajjad Hussain, KTH

18:50 End day 1

19:15 Dinner

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Friday 19 November 2010

Location: PFI (Papir- og fiberinstituttet AS), Høgskoleringen 6B, 5 tr., NTNU Gløshaugen

08:00 Welcome

08:05 *"Material Science Information Technology"*
Kidist Yisfashewa Wondemu and Mohammad Ali Baradaran, KTH
Opponent: Iiro Lehtiniemi, Aalto University

08:30 *"Refractory Carbides and Their Processing (E.G. SiC, WC) "*
Johanna Haapasalmi, Aalto University
Opponent: Mania Kazemi and Sadaf Vazehrad, KTH

08:55 *"Electromagnetic Stirring in EAF"*
Jiang Zaixiang, Zhou Nian and Wang Hansheng, KTH
Opponent: Ville Fomkin, Aalto University

09:20 *"Heat Resistant Steels – Effect of Thermal Cycling"*
Marleena Ahonen, Aalto University
Opponent: Niloofar Arzpeyma, KTH

09:45 Coffee and Tea

10:05 *"Clean Steel for High Quality and High Performance"*
Muhammad Shafiul Bashar, KTH
Opponent: Saara Siirola, Aalto University

10:30 *"The Past, Present and Future of Hip Joint Replacements"*
Sara Ehsani Majd, KTH/NTNU
Opponent: Matti Ottelin, Aalto University

10:55 *"Modelling of LD Converters - A Case Example: CONSIM Model"*
Anu Seppälä, Aalto University
Opponent: Camilla Sommerseth, NTNU

11:20 *"Alloy and Energy Efficiency in the Foundry Industries"*
Daniel Gonzalez Hernandez and Yuze Gong, KTH
Opponent: Zakaria Arifi, Aalto University

11:45 Lunch

12:35 *"Methods for Measuring Electric Conductivities of Aqueous Solutions"*
Saara Siirola, Aalto University
Opponent: Kidist Yisfashewa Wondemu and Mohammad Ali Baradaran, KTH

13:00 *"Simulation of Duplex Stainless Steel under Welding with different Cooling Rates"*
Yi-Yao Lu, Yang Yang and Cen Zhang, KTH
Opponent: Marleena Ahonen, Aalto University

- 13:25 *"Agi-Based Ionic Conductors in EMF Cells"*
Markus Aspiala, Aalto University
Opponent: Sara Ehsani Majd, KTH/NTNU
- 13:50 *"Application of Electrolytic Extraction Technique for Analysis of Stainless Steel"*
Frank Hayford and Sajjad Hussain, KTH
Opponent: Anu Seppälä, Aalto University
- 14:15 *"The Diffusion Behavior and Detrimental Effects of Dissolved Hydrogen in Low Carbon Steel Castings"*
Rajat Sharma, NTNU
Opponent: Oskari Karhuvaara, Aalto University
- 14:40 End day 2

14:45 Coffee and Tea
