

SFI Metal Production

Autumn Meeting 2018

November 6-7th



metal production

- *November 6th : Hotel Scandic Nidelven
Havnegata 1-3, Trondheim.*
- *November 7th : PFI Auditorium, 5th floor
Høgskoleringen 6B, Trondheim*



Tuesday November 6th

Hotel Scandic Nidelven

08:30 – 09:00 Welcome and information , Aud N. Wærnes, Sintef

09:00– 10:30 Highlights of 2018 and further plans, from each RD's

- 15 minutes for each RD1, RD2, RD3, RD4
- 30 min RD5, Industry overview, the students reports

10:30 – 10:50 *Pause*

10:50 – 12:30 Aluminium (Arne Petter Ratvik)

- “Dissolution of alumina”, Kristian E. Einarsrud (NTNU)
- “Summary of my PhD on oxidation”, Nicholas Smith (NTNU)
- “Summary of Al recycling work in SFI”, Anne Kvithyld (Sintef)
- “Sorting of Alumina Alloys”, Georg Rombach (Hydro)

12:30 – 13:30 *Lunch*

13:30-15:00 Si/Mn/Ti (Merete Tangstad)

- «Continuing work on SiMn production”, Postdoc Vincent Yves Canaguier (NTNU)
- “Updating on SiC production in Si-furnace”, Sethulakshmy Jayakumari (NTNU)
- “TiZir - Freeze lining properties”, BSc student Tor-Eivind Ebbesen
- «Knowledge from excavation Si-furnaces», Michal Ksiazek (Sintef)

15:00-15:30 *Pause*

15:30 – 17:00 Environment (Leiv Kolbeinsen)

- “Dust measurement distributed sensors”, Håkon H. Olsen (NTNU)
- “Summary of the Mn emission paper”, Ida Kero (Sintef)
- “Cold-finger experiments”, Daniel Clos (NTNU)
- “What’s up in TMT 4330-Resources, Energy and Environment”, Halvard Tveit (Elkem/NTNU)

18:00 Dinner at Hotel Scandic Nidelven



Wednesday November 7th

PFI Auditorium, 5.floor

08:30 – 10:30 Industry and digitalization

- 08:30-09:00 “Greece aluminium- digital twin, optimizing of energy and AlF₃ consumption”, Laith Al-Hindawi and Vincent Deborde (GE Power Digital)
- 09:00-09:30 “Model Applications in Potroom Operation», Nina Helene Omdahl (Alcoa).
- 09:30- 10:00 “Digitalization for Furnace Plant Operation”, Markus Reuter (Helmholtz-Institute Freiberg for Resource Technology)
- 10:00-10:30 «Prosess 21», Roger Strøm from Proses21

10:30 – 10:45 Pause

10:45 – 11:45 Industry’s participation in the Centre SFI Metal Production:

- 10:45 – 11:00 Hydro, Eirik Manger: “Mathematical Modelling in the Aluminium Industry – Models and Modelling Needs for the Future».
- 11:00 – 11:15 Elkem, Marit Dolmen: Participation in the Centre - new knowledge and innovation potential
- 11:15 – 11:30 TiZir, Haavard Elstad: Participation in the Centre - new knowledge and innovation potential
- 11:30 – 11:50 Discussions chaired by Ketil Rye, Alcoa: How participation in the Centre has influenced the industry partners R&D activities and/or given new opportunity and knowledge and/or innovation potential.

11:50 – 12:00 Concluding marks, by Aud N. Wærnes

12:00 - 12:45 Lunch, *We finish this Autumn meeting with lunch!*

Other meetings in connecting with this Autumn Meeting:

- Nov 5th: 15:00 – 18:00, Executive Comm. meeting for EC members, Bergbygget, room E-431
- Nov. 7th: 13:00 – 16:00, General Assembly for GA members, Bergbygget, room E-431.
- Nov. 7th: 16:00 – 18:00 Scientific Committee meeting for SC members and the RD-leaders.
- Nov. 8th: 09:00 – 12:00 Internal “Autumn meeting – alumina”, Room E-231