

## Program Spring Meeting 2022

Trondheim, Lerkendal Hotel, April 26—27

### Tuesday April 26

08:30-09:00 Opening remarks by Centre Manager Aud Wærnes

#### TOPIC: INTERNATIONAL COLLABORATION

**09:00-10:35 Presentations from international collaborators. Members of Scientific Committee:**

09:00-09:20 In-Ho Jung, Seoul National University, South Korea  
 09:20-09:40 Markus Reuter, SMS-Group GmbH Düsseldorf Germany  
 09:40-10:00 Margaret Hyland, Victoria University of Wellington, New Zealand  
 10:00-10:20 **Break**  
 10:20-10:50 Jean-Pierre Birat, IF Steelman, France

**10:50-11:40 International mobility**

10:50-11:10 *NTNU experience with exchange students (Erasmus, Marie S.Curie, Intpart)*  
 by Professor Gabriella Tranell, NTNU

11:10-11:40 *NTNUs strategies and assistance regarding exchange students*  
 by senior adviser Wolfgang Laschet, Section of international relations

**11:40-12:40 Lunch**

12:40-13:00 *Available infrastructure for national and international collaboration: Transition to Sustainable Resource Efficiency in Metal Production and Recycling (TEMP)* Halvor Dalaker, SINTEF

**13:00-14:00 INTPART**

13:00-13:30 *The Research Council of Norway - International cooperation* by senior adviser Merethe Sandberg, NFR

13:30-13:55 Short presentations of two SFI INTPART projects:  
*CaNAL - Norwegian-Canadian Partnership on Primary Production of Aluminium (2018-2021)*  
 By Kristian Etienne Einarsrud, NTNU  
*INTPART Metal Production (2016-2019)* By Jan Erik Olsen, SINTEF

**13:55-14:10 Break**

**14:10-15:10 EU projects at SFI Metal Production**

14:10-14:30 **PREMA:** Energy efficient, primary production of manganese ferroalloys through the application of novel energy systems in the drying and pre-heating of furnace feed materials. By Eli Ringdalen, SINTEF



14:30-15:00 **ENSUREAL:** Ensuring Alumina production in Europe  
**HARARE:** Hydrogen-based metal recovery from waste.  
By Casper van der Eijk, SINTEF



15:00-15:20 **THERMOBAT:** A Ferrosilicon Latent Heat Thermophotovoltaic Battery.  
By Maria Wallin, NTNU

**15:20-15:40 Break****15:40-17:00 Master and Bachelor students: My project in 2 minutes - posters and oral presentations**

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|--------------------------|--|
| 1. Mads Urang Nilsen     | 10. Jamey Davies                                 |
| 2. Solveig Høgåsen       | 11. Erlend G.K. Hauge                            |
| 3. Simen Bekkevoll       | 12. Veronica Milani                              |
| 4. Marius C.H. Larsen    | 13. Fride Müller                                 |
| 5. Astrid Nordhus        | 14. Markus A.E. Pedersen and<br>Ariel Skaug Eini |
| 6. Jesper L.S. Baumann   | 15. Cathrine Nøstvold                            |
| 7. Kristian Ringheim Moe | 16. Nishan Simkhada                              |
| 8. Emma Solhaug          |  |
| 9. Aren Lekve Nordhagen  |  |

From 16:30 Sparkling drink before dinner

**17:00****DINNER at Lerkendal Hotel Restaurant**

## Program Spring Meeting 2022

Wednesday April 27

08:30-08:35	Opening day 2. By Centre Manager Aud Wærnes
08:35-11:45	<b>TOPIC: SCIENTIFIC HIGHLIGHTS FROM THE RESEARCH DOMAINS</b>
08:35 - 09:05	<b>RD1 Fundamentals and modelling tools</b> - Modelling microsilica formation: simplified vs detailed kinetics by Kurian Vachaparambil, Stefan Andersson and Halvor Dalaker, Sintef - A dynamic model for the pilot furnace for the production of FeMn and SiMn by Ulrik Thisted, Norce
09:05-10:05	<b>RD2 Primary metal production</b> - Update on the Production of High Silicon Alloy – revision by Eli Ringdalen - Two zone furnace and its possibilities by Michal Ksiazek
09:35-09:50	<b>Break</b>
09:50-10:05	- RD2 Activities at TiZir by Stephen Lobo, Tizir
10:05 - 10:35	<b>RD3 Recycling and refining</b> - Oxidation by Cathrine Kyung Won Solem, NTNU - Recycling of Li batteries by Anne Kvithyld, SINTEF
10:35-10:45	<b>Break</b>
10:45 – 11:20	<b>RD4 Emissions and energy recovery</b> -PAH emissions from silicon production by Kamilla Arnesen -What have we learned about dust in the SFI period? By Gabriella Tranell
11:20 – 11:45	<b>RD5 Materials and society</b> -Influence of the electric mobility transition on the global carbon footprint of automotive Al by Romain Billy, NTNU -Future needs for capacity development in primary and secondary Al production by Moritz Langhorst, NTNU
11:45	Lunch – end of Spring Meeting program
13:00-15:00	<i>SFI Executive Committee meeting</i>