Consortium Meeting SFI PhysMet May 31st 2022

Scandic Lerkendal Hotel. Room: Mesanin 2

PROGRAM

08:30 – 08:45	Opening and introduction by Centre manager Knut Marthinsen
08:45 - 13:00	**Consortium meeting part 1: Scientific highlights** *Presentations from the five SFI PhysMet research areas, RAs*
08:45 – 09:25 08:45-08:55 08:55-09:10 09:10-09:25	**Highlights from RA 1 Multi-scale material analyses** - *Overview of activities in RA1* by Randi Holmestad, NTNU - *Additions of V and Ti to 6xxx Al alloys* by Calin Marioara, SINTEF - *TEM studies of Al welding wires for WAAM* by Tor Inge Thorsen, NTNU
09:25 – 09:40	*Short presentation of the new PhD project in Research Area 2* by Xuezhou Wang, NTNU
09:40 -10:00	Break
10:00 – 10:40 *7 minutes each*	**Highlights from RA 2 Scale and process bridging methodologies** - *Overview of project activities in RA2* by Yanjun Li, NTNU - *Thermodynamic predictions on the eta' system using the temperature dependent effective potential technique* by Ole Martin Løvvik, SINTEF - *KMC simulation of the atom clustering in Al-Sc alloy* by Astrid Marthinsen, SINTEF - *Predicting the solidification grain size of additive manufacturing and welding of aluminium alloys* by Yijiang Xu, SINTEF - *Parameterization of multi-component kinetic phase diagrams* by Qiang Du, SINTEF
10:40 – 11:20 10:40-10:50 10:50-11:00 11:00-11:20	**Highlights from RA 3 Sustainable and high-performance material development** -*Overview of activities in RA3* by Marisa Di Sabatino, NTNU -*Highlights from PhD students* by Andreas Voll Bugten and Magnus Reiersen - *Highlights of SINTEF activities in RA 3* by Astrid Marthinsen, Magnus Reiersen and Qiang Du
11:20 – 11:40	Break
11:40 –12:20 11:40-11:45 11:45-12:00 12:05:12:20	**Highlights from RA 4 Innovative processing and joining methods** -*Motivation and Introduction* by Magnus Eriksson, SINTEF - *Novel aluminium welding wires* by Jens C. Werenskiold, NTNU - *High-efficiency laser-arc hybrid welding: challenges and solutions* by Ivan Bunaziv, SINTEF
12:20 – 13:00 *7 minutes each*	**Highlights from RA 5 Data, sharing and digital platforms** - *Presentation of ongoing activities in RA5* – Jesper Friis, SINTEF - *Sample database with QR codes* by Sylvain Gouttebroze, SINTEF - *Web-app for ontology visualisation* by Sylvain Gouttebroze, SINTEF - *Use of AiiDA* by Astrid Marthinsen, SINTEF - *Interest and themes for RA5-seminars* by Stephane Dumoulin, SINTEF
13:00 - 14:00	Lunch

14:00 – 17:00	Consortium meeting part 2: Materials Challenges for a Sustainable Future
14.00-14:30 14:30-15:00	*Challenges and needs for the metal end-users in Norway.* *Invited talks:* - *Title to be decided* Guro Thue Unsgård, Senior Environmental Consultant, Norconsult - *Shifting markets...What does this mean for an industry going from one off production to hundreds* by Stian Hauger, Head of Technology, Aker Solution
15:00 - 15:30	Break
15:30 – 17:00	*Discussion in groups. Topics to be discussed:* - Common topics for future development - What competence do we need? - How can partners in SFI PhysMet contribute? *Plenary discussion and conclusion of the meeting*
17:30	Dinner at Scandic Lerkendal Restaurant