

Wednesday, February 20, 2019

- 09.00 - 09.30 Registration and mounting of posters
- 09.30 - 10.00 Poster session and morning COFFEE
- 10.00 - 10.15 Welcome
Session chair: Lena Falk, Physics
- 10.15 - 10.30 Novel electrolytes for next-generation supercapacitors
Simon Lindberg, Physics
- 10.35 - 10.50 How the use of biogas impacts the emissions from heavy-duty vehicles
Johanna Englund, Chemistry and Chemical Engineering
- 10.55 - 11.10 Thermomechanical Fatigue Life Prediction of High Specific Power IC Engine Cylinder Heads
Elanghovan Natesan, Industrial and Materials Science
Session chair: Lars Nordstierna, Chemistry and Chemical Engineering
- 11.15 - 11.30 Surface modification of carbon materials for use in lithium-sulfur batteries
Samuel Fretz, Chemistry and Chemical Engineering
- 11.35 - 11.50 Invited: Presentation of Materials Science Area of Advance
Maria Abrahamsson, Area of Advance Co-director
- 11.50 - 13.00 LUNCH
- 13.00 - 13.30 Invited: From forging to additive manufacturing
Niklas Israelsson, Materials Specialist, GE Additive
Session chair: Antal Boldizar, Industrial and Materials Science
- 13.35 - 13.50 Compaction and sintering of water-atomized iron powder
Johan Wendel, Industrial and Materials Science
- 13.55 - 14.10 Modelling complete methane oxidation over palladium oxide in a porous catalyst using first-principles surface kinetics
Carl-Robert Florén, Chemistry and Chemical Engineering
- 14.15 - 14.30 The effect of workpiece microstructure on tool wear in metal cutting
Philipp Hoier, Industrial and Materials Science
- 14.35 - 14.50 The Corundum Conundrum
Vedad Babic, Chemistry and Chemical Engineering
- 14.50 - 15.40 COFFEE and Poster session
Session chair: Jan Froitzheim, Chemistry and Chemical Engineering
- 15.45 - 16.00 Surface active silica sols with hydrophilic and hydrophobic functionalizations used in Pickering emulsions
Sanna Björkegren, Chemistry and Chemical Engineering
- 16.05 - 16.20 Effect of part geometry on the microstructure of 316L parts produced by laser powder bed fusion
Alexander Leicht, Industrial and Materials Science
- 16.25 - 16.40 Electrodeposited Fe-W and FeW/Al₂O₃ protective coatings as a sustainable replacement for chromium coatings
Antonio Mulone, Industrial and Materials Science
- 16.45 - 17.00 Catalytic methane oxidation in dry and wet conditions
Peter Velin, Chemistry and Chemical Engineering
- 17.00 - 17.30 Scientific speed dating

17.30 --> Poster viewing and buffé DINNER

Thursday, February 21, 2019

10.00 --> Lab tours