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
  *Elangovan 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
Thursday, February 21, 2019

10.00 --> Lab tours