Symposium on Crystallography - Bridging Materials and Molecules in Modern Chemistry
9-10 June 2014, Djurönäset, Building 5, 5A

9 June
Building 5, 5E

11.30-13.00  
Registration and lunch

13.00-13.05  
Welcome
Xiaodong Zou

Session I: Modern inorganic chemistry
Chair: Xiaodong Zou

13.05-13.35  
Structures in motion - In situ studies of future battery concepts
Kristina Edström, Department of Chemistry, Uppsala University, Sweden

13.35-14.05  
Dye-sensitized solar cells – Some aspects of coordination and solid state chemistry
Lars Kloo, Department of Chemistry, Chemical Science and Engineering, KTH Royal Institute of Technology, Sweden

14.05-14.20  
Ca-Pd/Pt-Ge Compounds on the Zintl Border
Isa Doverbratt, Centre for Analysis and Synthesis, Lund University, Sweden

14.20-14.35  
Syntheses, structure determination, magnetic and thermoelectric properties of quasicrystal approximants in RE-Au-Sm systems (RE = Gd, Tb and Yb, SM = Si, Ge)
Girma Gebresenbut, Department of Chemistry - Ångström Laboratory, Uppsala University, Sweden

14.35-15.05  
Heusler compounds - From semiconductors to spintronics
Claudia Felser, Max Planck Institute for Chemical Physics of Solids, Dresden, Germany

15.05-15.35  
Coffee and poster session

Session II: Career development
Chair: Annika Pohl

15.35-16.05  
CO₂ separation with narrow pore zeolite A
Niklas Hedin, Department of Materials and Environmental Chemistry, Stockholm University, Sweden

16.05-16.25  
Open-Framework Germanates - Local structural information to solve crystal structures
A. Ken Inge, Awardee Anna Sundström Award 2013, Kiel University, Germany

16.25-16.45  
Awardee Anna Sundström Award 2014

16.45-17.00  
Au₅M₅ (M=Cd and Mg) - Synthesis, crystal structure and stability
Partha Pratim Jana, Centre for Analysis and Synthesis, Lund Universit, Sweden

17.00-17.15  
Rotation electron diffraction - Single-crystal electron diffraction from powders
Wei Wan, Berzelii Center EXSELENT on Porous Materials, Department of Materials and Environmental Chemistry, Stockholm University, Sweden

17.15-17.30  
Cutting edge technology
Tommy Larsson, Materials and Coating Technology, Seco Tools AB, Sweden

17.40-18.10  
Annual meeting of the Inorganic chemistry section within the Swedish Chemical Society

19.30-  
Symposium dinner, jointly with participants at Analysdagarna
10 June
Building 5, 5E

Session III: New crystallographic methods and applications
Chair Sten Eriksson

09.00-09.30 Correlated disorder in molecular framework materials
Andrew Goodwin, Inorganic Chemistry Laboratory, University of Oxford, UK

09.30-10.00 Structure solution by electron crystallography and X-ray diffraction
Junliang Sun, Department of Materials and Environmental Chemistry, Stockholm University, Sweden

10.00-10.15 In-situ hydration and structural studies of $\text{Ba}_2\text{In}_{2-x}\text{M}_x\text{O}_5$ ($M = \text{trivalent cation}$)
brownmillerites
S. M. H. Rahman, Department of Chemical and Biological Engineering, Chalmers University of Technology, Sweden

10.15-10.45 Coffee and poster session

Session IV: Development of crystallography and its impact in organic and inorganic chemistry
Chair:

10.45-11.15 Does crystallography blind us with its images?
Sven Lidin, Division of Polymer & Materials Chemistry, Chemical Centre, Lund University, Sweden

11.15-11.45 A momentum in space – A reciprocal space odyssey
Karl Wilhelm Törnroos, Department of Chemistry, University of Bergen, Norway

11.45-12.00 The structures of non-redox active 3d-transition metal cation oximate complexes as molecular models for studies of biologically related dioxygen activation mechanisms
Vadim Kessler, Department of Chemistry and Biotechnology, BioCenter, Swedish University of Agricultural Sciences, Sweden

12.00-12.10 Concluding remarks

12.10-13.00 Lunch
Poster list Crystallography – Bridging materials and molecules

Postersessions  Monday 9 June, 15.05-15.35
               Tuesday 10 June, 10.15-10.45

P101  A novel, smart and selective metal-organic framework (SUMOF-7II) for Fe(III) sensing in aqueous media
     Hani Abddelhamid, Stockholm University

P102  Functionalization of metal–organic frameworks with transition-metal complexes for catalysis
     Fabian Carson, Stockholm University

P103  Lithiation induced structural changes in Ni0.5TiOPO4
     Rickard Eriksson, Uppsala University

P104  Twinning in the structure of zeolite ITQ-39
     Elina Kapaca, Stockholm University

P105  Study of local ordering in lead-free ferroelectrics
     Alexandra Neagu, Stockholm University

P106  Synthesis and characterization of CuHCF nanoparticles, a promising battery electrode material
     Dickson Ojwang, Stockholm University

P107  One-pot synthesis of metal-organic frameworks multifunctionalised with transition metal complexes
     Ana Eva Platero-Prats, Stockholm University

P108  Pair distribution function analysis of (Co1−xNi)xSb2O6F6
     Viktor Renman, Uppsala University

P109  Tuning the structural modulation in Re(SiAl)2x ternary compounds
     Fei Wang, Lund University

P110  Indexing electron diffraction patterns from randomly-oriented crystals
     Yunchen Wang, Stockholm University