

# **MAX IV Workshop on STXM**



**Tuesday 10 December 2013 - Wednesday 11 December 2013**

**Swedish Agricultural University**

## **Programme**

**Confirmed Speakers:**

Prof. Adam Hitchcock, McMaster University, Toronto, Canada

Prof. Frank de Groot, University of Utrecht, Utrecht, The Netherlands

Dr Trudy Bolin, 9-BM Tender Exafs beamline, APS, Argonne (IL), USA

Dr Alessandra Gianoncelli, TwinMIC beamline, Sincrotrone Elettra, Trieste, Italy

Dr Martin Obst, University of Tuebingen, Tuebingen, Germany

Dr Karina Thånell (Schulte), MAX IV Laboratory, Lund, Sweden

Preliminary program (2/12, nearly final)

**--- Tuesday, December 10th**

11:00 **Registration opens**

12:00 **Lunch**

13:00 *Opening and Intro (Karina)*

13.15 Adam Hitchcock: *A comprehensive overview of STXM*

14.10 Linda Sandblad: *Visualization of Bacterial Cytoskeleton*

14:30 Mikael Thyrel: *STXM study of C and Ca in thermotreated reed canary grass – an approach to use hyperspectral image mosaics for global analyses*

14:50 **Coffee break**

15:20 Frank de Groot: *In-situ X-ray spectroscopy and microscopy of catalysts*

16:05 Jurate Kumpiene: *The use of XAS techniques in residual risk assessment of remediated soils*

16:25 Ellen Moons: *STXM studies of the morphology in spin-coated polymer:fullerene films*

16:45 **Leg stretching**

16:50 Alessandra Gianoncelli: *The TwinMic Beamline at Elettra; fullfield microscope and STXM in one*

17:35 Mark Smits: *The study of fungal interactions with soil organic matter: present and future*

17:55 *Round up for the day*

>18:00 **Bastu!! Sauna!!** Finnish sauna & snow angels. Please bring your own swim suit and bath towel, sit in the hot darkness, feel the steam, run out in the cold darkness, make angels in the white snow ...then shower before dinner. </span>

19:00 **Dinner - served at the university**

### **--- Wednesday, December 11th**

08:45 Trudy Bolin: *Intermediate Energy Research at the APS Beamline 9-BM*

09:30 Sepehr Shakeri Yekta: *Chemical Speciation of Sulfur and Metals in the Biogas Process*

09:50 Jussi Rahomäki: *Zone plates for high resolution X-ray focusing*

10:10 **Coffee break**

10:40 Martin Obst: *Chemical Nanotomography using STXM: Applications in biogeo- and environmental sciences*

11:25 Changxun Yu: *Speciation of trace elements and mineralogy of Mn/Fe oxides in natural materials*

11:45 Wei Cao: *Progress and bottlenecks in nano-to-micro sized functional material researches: Solutions via STXM?*

12:05 **Leg stretching**

12:10 Karina Thånell (Schulte): *Presentation of the SoftiMAX Beamline & Discussion*

12:55 **Closing remarks**

13:00 **Lunch**

**>14:00 Informal session on data analysis etc. with Adam Hitchcock**