

Annual Meeting of Finnish Synchrotron Radiation Users Organization (FSRUO) and Finnish Structural Biology Network (FinnBox)

Kontinkangas Campus, University of Oulu, 2018

Thursday, 15.11.

9:30 Registration open, Aapistie 7A, Lobby of the lecture hall **F101**

Session 1 10:25-12:00 Aapistie 7A, Lecture hall **F101**, Chair **Lari Lehtiö**

10:25 Opening words

Lari Lehtiö

10:30 Development of new methodologies for multidimensional electron spectroscopy with a magnetic bottle spectrometer

Jérôme Palaudoux (*Sorbonne Université*)

11:15 Library methods for studying challenging proteins

Darren Hart (*IBS, Grenoble, France*)

12:00 Lunch

12:00-13:15 Instruct-FI board meeting (closed meeting, room 102A)

Session 2 13:15-14:45 Aapistie 5A, Leena Palotie auditorium **101A**, Chair **Eetu Pelimanni**

13:15 Application of synchrotron-radiation core-level photoelectron spectroscopy in studies of Si and Ge surfaces and interfaces

Mikhail Kuzmin (*University of Turku*)

13:45 NORSCATT & NORCRYST

Petri Kursula (*The Department of Biomedicine, University of Bergen*)

14:05 The future of Finland in the Instruct-ERIC

Sarah Butcher (*Director of Instruct- FI, Institute of Biotechnology and Helsinki Institute of Life Science HiLIFE*)

14:25 Asymmetrical flow field-flow fractionation services provided by Instruct-FI Biocomplex unit for purification and characterization of macromolecular complexes

Katri Eskelin (*Biocomplex unit of Instruct-FI*)

14:45 Coffee

Session 3 15:15-16:35 Aapistie 5A, Leena Palotie auditorium **101A**, Chair **Tiila-Riikka Kiema**

15:15 Unraveling substrate specificity and catalytic promiscuity of *Aspergillus oryzae* catechol oxidase

Leena Penttinen (*University of Eastern Finland, Joensuu*)

15:35 Asymmetry in catalysis by *Thermotoga maritima* membrane-bound pyrophosphatase demonstrated by a non-phosphorous allosteric inhibitor

Keni Vidilaseris (*University of Helsinki*)

15:55 A structural model of malaria parasite actin I fragmentation

Esa-Pekka Kumpula (*FBMM, University of Oulu*)

16:15 AP XPS on deposited nanoparticles of atmospheric relevance

Kamal Raj R (*Atmos - Nano and Molecular Systems Research Unit – University of Oulu*)

Session 4 16:35-18:00 Foyer of Kieppi building, Aapistie 5A

16:35- 18:00 Poster session with snacks and tour at BCO Protein crystallization core facility (for anyone interested - **Kristian Koski**)

17:00- 18:00 FSRUO board meeting

19:00 Dinner at Radisson Blu hotel Oulu, Restaurant Toivo (for registered participants)

Friday, 16.11.

Session 5 9:00-10:40 Aapistie 5A, Leena Palotie auditorium **101A**, Chair **Kristian Koski**

9:00 Synchrotron light mediated operando spectromicroscopy surface analysis of advanced Fe–Cr alloys
Harri Ali-Löytty (*Tampere University of Technology*)

9:30 European bioinformatics (ELIXIR) infrastructure
Tommi Nyrönen (*ELIXIR, CSC - IT Center for Science, University of Helsinki*)

10:00 3D bioinfo
Tiina Salminen (*Structural Bioinformatics Laboratory, Åbo Akademi University*)

10:20 Crystal fishing with IceBear
Ed Daniel (*FBMM, University of Oulu*)

10:40 Coffee

Session 6 11:00-12:10 Aapistie 5A, Leena Palotie auditorium **101A**, Chair **Albert Galera Prat**

11:00 Metal-semiconductor contact mode of Ni-Au-MoS₂ revealed via XPEEM
Wei Cao (*Nano and Molecular Systems Research Unit – University of Oulu*)

11:30 Structural enzymological characterization of collagen prolyl 4-hydroxylase
Abhinandan Murthy (*University of Oulu*)

11:50 Molecular rules for substrate-selective proteostasis modulation
Shahid Rehan (*University of Helsinki*)

12:10 Lunch

Session 7 13:15-14:40 Aapistie 5A, Leena Palotie auditorium **101A**, Chair **Marko Huttula**

13:15 Ptychography imaging of selenium accumulation in young *Arabidopsis* root tips
Hanna Help-Rinta-Rahko (*University of Helsinki*)

13:45 Imaging of lignocellulose materials using synchrotron radiation
Mostafa Ismail (*Fibre and particle Engineering research group– University of Oulu*)

14:05 Aqueous organic-salt interactions illuminated with synchrotron radiation X-ray absorption spectroscopy
Jack Lin (*Atmos - Nano and Molecular Systems Research Unit – University of Oulu*)

14:35 Closing words
Marko Huttula