JOINT SPRING-8 - MAX IV LABORATORY WORKSHOP ON NEW LIGHT SOURCES AND BIOLOGICAL APPLICATIONS

Date: 8-9 September 2016
Venue: Lecture Room, MAX IV Laboratory, Lund University

Local contact at Max IV Laboratory: Dr. Marjolein Thunissen
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Organisers:
Prof. Atsushi Nakagawa (Institute for Protein Research, Osaka University)
Dr. Naoto Yagi (Japan Synchrotron Radiation Research Institute (JASRI/SPring-8))
Dr. Masaki Yamamoto (RIKEN SPring-8 Center)
Prof. Janos Hajdu (Laboratory of Molecular Biophysics, Department of Cell and Molecular Biology, Uppsala University)
Dr. Marjolein Thunissen (Max IV Laboratory)

Host Institutions:
- Max IV Laboratory
- Institute for Protein Research, Osaka University
- Japan Synchrotron Radiation Research Institute (JASRI)
- RIKEN SPring-8 Center
- Japan Society for the Promotion of Science (JSPS) Stockholm Office
- Department of Cell and Molecular Biology, Uppsala University

Scientific Programme

Day 1: 8 September 2016

09:00 - 09:15 Welcome
09:15 - 09:45 The MAX-IV facility (Christoph Quitmann, MAX-IV)
09:45 - 10:15 Structural biology at SPring-8 and SACLA (M. Yamamoto, RIKEN/SPring-8)
10:15 - 10:45 FemtoMax at Max IV (Jörgen Larsson, Lund U.)

10:45 - 11:15 Coffee/Tea

FELs
11:15 - 11:45 MAX-FEL (Sverker Werin, MAX-IV)
11:45 - 12:15 Protein Crystallography at SACLA: So Iwata (Riken SPring-8 Center / Kyoto University)

12:15 - 13:15 Lunch

13:15 - 13:30 JSPS activities and programs to promote collaborative research: Yuriko Kawakubo (Japan Society for the Promotion of Science)
13:30 - 14:00 Single-particle imaging with FELs (Filipe Maia, Uppsala U.)
14:00 - 14:30 Phytochromes (Alexander Björling, MAX IV / Gothenburg U.)
14:30 - 15:00 Imaging of living cells (Gijs van der Schot, Uppsala U.)
15:00 - 15:30 High resolution structure of Photosystem II and the mechanism of water-splitting: Jian-Ren Shen (Graduate School of Natural Science and Technology, Okayama University)

15:30 - 16:00 Coffee/Tea

LIFE SCIENCES

16:00 - 16:30 Structural biology of nucleic acid sensing Toll-like receptors: Toshiyuki Shimizu (Graduate School of Pharmaceutical Sciences, University of Tokyo)
16:30 - 17:00 Biology at MAX-IV (Marjolein Thunissen, MAX-IV)
17:00 - 17:15 Discussion (or no schedule)

19:00 Dinner

Day 2: 9 September 2016

LIFE SCIENCES (continued)
09:00 - 09:30 Humid-Air and Glue-coating (HAG) method: a new technique for controlled crystal dehydration (Takashi Kumasaka, JASRI/SPring-8)
09:30 - 10:00 THz radiation in protein crystallography (Ida Lundholm, Uppsala U.)
10:00 - 10:30 High-pressure protein crystallography - still staying behind the curve - (Nobuhisa Watanabe, Synchrotron Radiation Research Center, Nagoya University)

10:30 - 11:00 Coffee/Tea

OTHER HORIZONS
11:00 - 11:30 The European Spallation Source (Esko Oksanen, ESS)
11:30 - 12:00 Crystallographic of Electron-transport Components in Bacterial Photosynthesis (Kunio Miki, Graduate School of Science, Kyoto University)
12:00 - 12:30 Electron microscopy and FEL studies on viruses (Kenta Okamoto, Uppsala U.)

12:30 - 13:30 Lunch

Afternoon of Day 2:
MAX IV tour