Time resolved structural studies
Synergy and complementarity between ESRF and XFEL

ESRF Auditorium - 4 + 5 March 2019

Monday 4 March 2019

08:00 - 08:30	**Registration - ESRF Entrance Hall**

Session 1 – chaired by Michael Wulff and Matteo Levantino

08:30 - 08:50	**Jean SUSINI**, Director of Research, ESRF Grenoble, France *Opening remarks*
08:50 - 09:10	**Serguei MOLODTSOV**, European XFEL, Schenefeld, Germany *European XFEL: Status and Research Applications*
09:10 - 09:45	**Christian BRESSLER**, XFEL Germany *MHz X-ray Experiments with SR and XFEL sources*
09:45 - 10:15	**Michael WULFF**, ESRF Grenoble, France *The ID09 beamline: history and visions for the future*
10:15 - 10:45	Coffee break

Session 2 – chaired by Christian Bressler

10:45 - 11:35	**Richard NEUTZE**, University of Gothenburg, Sweden *Time resolved diffraction and scattering studies of protein structural changes using XFEL and synchrotron radiation*
11:35 – 12:00	**Giorgio SCHIRO**, Institut de Biologie Structurale - Grenoble France *X-ray pulses for time-resolved experiments on photo-sensitive proteins*
12:00 - 12:25	**Sebastian WESTENHOFF**, University of Gothenburg, Sweden *Time-resolved WAXS reveals solution structural changes in photoreceptor proteins*
12:30 - 13:30	Lunch at ESRF on-site restaurant

Session 3 – chaired by Anton Plech

14:00 - 14:50	**Majed CHERGUI**, EPFL Lausanne, Switzerland *Structural dynamics of hemoproteins using synchrotron radiation and X-ray free electron lasers*
14:50 - 15:15	**Kristoffer HALDRUP**, Technical University of Denmark *Unpacking energetics and dynamics in photoexcited transition-metal complexes with synchrotrons and XFELs*
15:15 - 15:40	**Qingyu KONG**, Synchrotron SOLEIL *Photochemical reaction dynamics of $Ru_3(CO)_{12}$ studied by picosecond and femtosecond X-ray solution scattering at ESRF and LCLS*
15:45 - 16:15	Coffee break

Session 4 – chaired by Robert Feidenhans'l

16:15 - 16:40	**Dmitry KHAKHULIN**, XFEL Hamburg, Germany *FXE instrument of the European XFEL: experimental capabilities and first results*
16:40 - 17:05	**Matteo LEVANTINO**, ESRF Grenoble, France *Time-resolved structural studies at the ID09 beamline of the ESRF*
17:05 - 17:30	**Anton PLECH**, Karlsruhe Institut of Technology, Germany *Time-resolved nanoscience – between molecular kinetics and solid-state dynamics*
17:30 - 17:55	**Charles PEPIN**, CEA France *Time-resolved synchrotron XRD of shock compressed matter : the case study of Bi*
17:55 – 18:20	**Simone TECHERT,** DESY Hamburg, Germany *Studying complex chemical reactions at pulsed high-flux X-ray sources*
19:00 - 21:00	**Dinner at the ESRF on-site restaurant**

Tuesday 5 March 2019

Session 5 – chaired by Sylvain Ravy

08:30 - 09:20	**Shin-ichi ADACHI**, KEK Photon Factory, Japan *Complementarity of SR and XFEL sources for tracking chemical reactions in solution with ultrashort X-ray pulses*
09:20 - 09:50	**Martin NIELSEN**, Technical University of Denmark *Kinetics and dynamics in bi-metallic complexes in solutions*
09:50 - 10:15	**Peter GAAL**, Universität Hamburg, Leibnitz-Institut für Kristallzüchtung, Berlin, Germany *Implementation of a high repetition and short pulse option at ID09*
10:15 - 10:45	Coffee break

Session 6 – chaired by Maciej Lorenc

10:45 - 11:10	**Pieter GLATZEL**, ESRF Grenoble, France *Chemical information in X-ray emission spectroscopy*
11:10 - 11:35	**Grigory SMOLENTSEV,** Paul Sherrer Institute, Switzerland *Excited state of Cu-based OLED material is probed with pump-probe XAS, XES and WAXS*
11:35 - 12:00	**Thomas PENFOLD**, Newcastle University, United Kingdom *Time-resolved X-ray Spectroscopy: from the nano to the femtosecond regimes*
12:00 - 13:00	Buffet lunch in the Auditorium

Session 7 – chaired by Martin Meedom Nielsen

13:00 - 13:25	**Maciej LORENC**, Université de Rennes, France *Multiscale dynamics studied with X-rays : from molecular switching to material transformation*
13:25 - 13:50	**Tim Brandt VAN DRIEL,** SLAC National Accelerator Laboratory, USA *Experiences from the LCLS*
13:50 - 14:15	**Sylvain RAVY,** Université Paris-Sud, France *Charge-density waves at the femto- and picosecond timescale*
14:15 - 15:00	**Roundtable discussion**