

International Workshop on Science with and Instrumentation for Ultra-fast Coherent Diffraction Imaging of Single Particles, Clusters and Bio-Molecules at the European XFEL

November 20-22 2008, Department of Cell & Molecular Biology, Uppsala University, Sweden

The study of structural properties of Single Particles, Clusters and Bio-Molecules (SPB) using coherent x-ray diffraction by particles in the gas phase is one of the prioritized areas of science for the upcoming European XFEL facility as described in the Technical Design Report (available under www.xfel.eu). These experiments will be relevant to several areas of science, reaching from materials and nanosciences to biology.

The workshop will bring together scientists interested in experiments using the SPB instrument at the European XFEL facility to review the science planned with this instrument, to discuss the requirements to the x-ray FEL beam delivery, and to initiate activities and collaborations on instrumentation and data analysis to be implemented at this photon end-station.

The workshop features a series of invited lectures giving an overview of scientific and instrumental ideas for the SPB instrument followed by working group sessions on specific instrumentation for the European XFEL facility.

The workshop is co-funded by the European Commission through the Pre-XFEL grant. This will allow free of charge access to the workshop.

Hosting the workshop and support by the Department of Cell and Molecular Biology at Uppsala University is gratefully acknowledged.



Local organizers

David van der Spoel
BMC, Uppsala University, Sweden
Janos Hajdu
BMC, Uppsala University, Sweden



International program committee

Henry Chapman
CFEL/DESY, Germany
Gyula Faigel
Research Institute for Solid State Physics and Optics Budapest, Hungary
Franz Pfeiffer
PSI & EPFL, Switzerland
Ilme Schlichting
MPI for Medical Research, Germany
Abraham Szoke
Lawrence Livermore Laboratory, U.S.A.
Thomas Tschentscher
European XFEL Project Team, Germany

Young scientists bursaries

Deadline October 15, 2008
(for details see website)

Contact:

spb@xray.bmc.uu.se
<http://xray.bmc.uu.se/spb/>
Department of Cell & Molecular Biology
Uppsala University.
Husargatan 3
SE-751 24 Uppsala, Sweden

