

Draft Programme

XI. Research Course on X-ray Science "New X-ray Sources for Life Science Applications"

Status 17.02.2012

Wed 21.03

09:30 Registration
10:00 Welcome
10:15 **A. Meents (DESY)** "Life Science studies at PETRA III"
11:15 **D. Svergun (EMBL)**: "Synchrotron X-ray scattering from solutions of biological macromolecules"
12:15 Lunch
14:00 **J. Lal (ANL)**: "Wide angle X-ray scattering (WAXS) study of proteins in solution"
15:00 **M. Wilmanns (EMBL)**: "Hybrid structural biology on long muscle filament proteins"
16:00 Coffee
16:15 Facility visits
18:00 Poster Session

Thu 22.03.

09:00 **I. Bento (U Lisbon)**: "Protein X-ray Crystallography"
10:00 **M. Perbandt (Uni Hamburg/UKE)**: "Structural Biology meets Infection Biology - Basics, Methods and Goals"
11:00 Coffee
11:15 **R. Treusch**: "Free-Electron Lasers: Biophysics at FLASH"
12:15 Lunch
14:00 **A. Aquila**: "Biological systems at XFEL"
15:00 **H. Chapman (CFEL)**: "Diffraction before destruction - imaging biological molecules with X-ray FEL pulses"
16:00 Coffee
16:15 **I. Schlichting (MPI)**: "Structural Biology at X-ray Free-Electron Laser"
18:30 Dinner

Fri 23.03.

09:00 **C. Jacobsen (APS/Northwestern University)**: "X-ray scattering and imaging in biology: radiation damage limitations and solutions"
10:00 **C. Larabell (LBL/UCSF)**: "Soft x-ray tomography"
11:00 Coffee
11:15 **D. Bourgeois (IBS)**: "Studying fluorescent proteins by combined kinetic crystallography and in crystallo spectroscopy"
12:15 Concluding Remarks