

Sunday, 24 August 2014		
10-19	Arrival, Check-in and Software check-up	
19:00	<i>Dinner</i>	
Monday, 25 August 2014		
8:45 - 9:15	Welcome	Helmut Dosch, Ulf Karlsson, Inger Andersson
9:15 - 10:10	Introductory talk: The challenges facing structural sciences	Janos Hajdu
10:10 -10:40	<i>Coffee & tea</i>	
10:40 - 11:35	Recent development of accelerators for synchrotron radiation	Mikael Eriksson
11:35-12:30	Everything you always wanted to know about beam lines but were afraid to ask	Andrew Aquila
12:30- 13:30	<i>Lunch</i>	
Photon sources: Facilities, techniques and scientific basics		
13:30-14:30	The first 5 years of LCLS: Overview and where we go from here	Sebastien Boutet
14:30-15:30	The European XFEL: an update on the facility and its planned science	Adrian Mancuso
15:30-16:00	<i>Coffee & tea</i>	
Fundamental interactions of X-rays with materials		
16:00-17:00	Probing molecular dynamics with soft X-rays	Markus Guehr
Diffraction		
17:00-18:00	Diffraction basics	Filipe Maia
18:00-18:30	Intro to practical	Tomas Ekeberg
19-20:30	<i>Dinner</i>	
20:30-22	Free time	
Tuesday 26 August		
Neutron sources: Facilities, techniques and scientific basics		
8:30-9:30	Neutron sources, the principles	Burkhard Schillinger
9:30-10:30	Neutron diffraction: The basics	Flora Meilleur
10:30-11	<i>Coffee & tea</i>	
11:00-11:30	Structural biology with neutrons	Flora Meilleur
11:30-12:00	Neutron imaging methods	Burkhard Schillinger
12:00-12:30	ESS	Ferenc Mezei
12:30-13:30	<i>Lunch</i>	
Magnetism and coherent phenomena		

13:30-14:30	Exploring hierarchy of magnetic length-scales using synchrotron and neutron scattering	Björgvin Hjörvarson
14:30-15:30	Imaging of magnetic spin structures via nuclear resonant scattering	Ralf Röhlsberger
15:30-15:50	<i>Coffee & tea</i>	
15:50-18	Practical 1 (Phase retrieval: basic concepts)	
19-20:30	<i>Dinner</i>	
20:30-22	Poster session	
Wednesday 27 August		
Coherent diffractive imaging		
8:30-9:30	Phase retrieval in high dimensions	Stefano Marchesini
9:30-10:30	Fundamentals of Diffractive Imaging	Veit Elser
10:30-11:00	<i>Coffee & tea</i>	
11:00-12:00	Imaging with coherent X-rays	Pierre Thibault
12:00-12:30	3D structures	Tomas Ekeberg
12:30-13:30	<i>Lunch</i>	
13:30-	Free afternoon: visit to the Vasa museum + alternatives, visit to Excillum AB	
19-21:30	Dinner at Blå Porten	
Thursday 28 August		
New laboratory x-ray sources and applications		
9-10	High-brightness laboratory X-ray sources and biomedical applications	Hans Herz
10-10:30	<i>Coffee & tea</i>	
Imaging in paleontology		
10:30-11:30	Synchrotron tomography as a tool for histological and morphological research	Per Ahlberg/Sophie Sanchez
Electron diffraction and imaging		
11:30-12:30	Where are the resolution limits in cryo-EM?	Holger Stark
12:30-13:30	<i>Lunch</i>	
Coherent diffractive imaging		
13:30-14:20	Diffraction in three dimensions	Anton Barty

14:20-15:10	Emergent order in random processes: Imaging fractal-like structures with XFELs	Duane Loh
15:10-15:40	<i>Coffee & tea</i>	
15:40-16:00	Introduction to practical 2	Tomas Ekeberg
16:00-18:00	Practical 2 (Phase retrieval: validation and challenges of experimental data)	
19-20:30	<i>Dinner</i>	
Friday 29 August		
Manipulating single particles and biomolecules		
8:30-9:30	Ion Mobility Methods for Manipulating Particles	Henry Benner
9:30-10	Sample injection for X-ray free electron laser diffraction experiments	Marvin Seibert
10-10:30	<i>Coffee & tea</i>	
Spectroscopy		
10:30-11:30	Capabilities of synchrotron radiation-based soft X-ray spectroscopic techniques in studies of bioorganic materials	Yan Zubavichus
Nanocrystallography		
11:30-12:30	In vivo nanocrystallography at SACLA	Leonard Chavas
12:30-13:30	<i>Lunch</i>	
Small angle scattering and its future		
13:30-14:30	The X-ray methods of non-crystalline systems inner structure investigation	Victor Asadchikov
14:30-15:30	Searching for structural insights in scattered intensity correlations	Richard Kirian
15:30-16	<i>Coffee & tea</i>	
16-16:30	Science slam/What is ...? Topics	
16:30-19	Free time/sports	
19-20:30	<i>Dinner</i>	
20:30-22	Science slam/What is ...? Preparation	
Saturday 30 August		
X-ray and Neutron sources and applications		

9-10	Complementary methods of synchrotron and neutron imaging with the diverse kind of contrast formation and their applications	Konstantin Podurets
10-10:30	tba	tba
10:30-11	<i>Coffee & tea</i>	
<i>The data deluge</i>		
11:30-12:00	Data collection at XFEL and CXIDB	Filipe Maia
12:30-13:30	<i>Lunch</i>	
14-15:30	Science slam/What is ...? Presentation	
15:30-16	<i>Coffee & tea</i>	
16-	Science slam/What is ...? Presentation continued/free time	
19-	School dinner and awards	
<i>Sunday 31 August</i>		
10-	Check out and departure after breakfast	