Universität Bremen

DESY

Hanse Wissenschaftskolleg

Institute for Advanced Study

Winter School on Synchrotron Radiation: Perspectives for Experiments on Surfaces and Interfaces

Scope

This winter school is designed to address the questions of young scientists starting to work on surface and interface studies with synchrotron radiation.
The programme is set up of 45 minute lectures on synchrotron radiation based methods in the fields of spectroscopy, microscopy as well as diffraction and scattering. Illustrating examples will come from all fields of interface and surface science. In addition, a poster session will allow the participants to present their own results to an international auditorium.

The format of the workshop will be held very informal to stimulate discussions among senior and junior scientists. The winter school will be held at the Hanse Wissenschaftskolleg (www.h-w-k.de) in Delmenhorst near Bremen. The HWK supplies very nice workshop facilities for up to 40 participants.

For further information please contact Jens Falta (falta@ifp.uni-bremen.de) or contact the web page of the HWK.

Programme

Wednesday, November 12, 2008

12:00	Arrival at the HWK
12:30	***Lunch***
13:30	Welcome, Introduction to Winter School
14:00	Introduction to Synchrotron Radiation, Generation and Properties *Thomas Möller, Technical University Berlin, Germany*
14:45	X-Ray Photoelectron Spectroscopy *Bogdan Kowalski, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*
15:30	***Coffee Break***
16:00	X-Ray Absorption Fine Structure *Krystyne Lawniczak-Jablonska, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland*
16:45	Grazing Incidence Small Angle X-Ray Scattering *Metin Tolan, University of Dortmund, Germany*
17:30	***Break***

18:00	Brilliant Light for the Future – New Synchrotron Sources in Hamburg *Edgar Weckert, DESY Hamburg, Germany* *(HWK Fellows to attend thus lecture)*
19:00	***Winter School Dinner together with the HWK Fellows***

Thursday, November 13, 2008

08:45	Welcome
09:00	Ultra-Violet Photoelectron Spectroscopy *Kai Rossnagel, University of Kiel, Germany*
09:45	Resonant Inelastic X-Ray Spectroscopy *Alexander Föhlisch, University of Hamburg, Germany*
10:30	***Coffee Break***
11:00	Photo Emission Electron Microscopy *Stefan Heun, NEST NCR-INFM, Pisa, Italy*
11:45	Grazing Incidence X-Ray Diffraction *Joachim Wollschläger, University of Osnabrück, Germany*
12:45	***Lunch***
13:45	Surface X-Ray Diffraction *Robert Feidenhans'l, University of Copenhagen, Denmark*
14:30	X-Ray Standing Waves *Jörg Zegenhagen, ESRF, Grenoble, France*
15:15	***Coffee Break* & Poster Session**
16:00	Winter School Excursion to Beck's Brewery
19:30	***Winter School Dinner at the restaurant Friesenhof, Bremen***
22:30	*Return to Delmenhorst*

Friday, November 14, 2008

09:00	Welcome
09:15	Coherent Diffraction from Surfaces and Interfaces *Ian Robinson, Diamond Light Source and University College London, UK*
10:00	Anomalous Diffraction incl. Diffraction Anomalous Fine Structure *Václav Holý, Charles University, Prague, Czech Republic*
10:45	***Coffee Break***
11:15	Free Electron Lasers – Present Status *Rolf Treusch, DESY Hamburg, Germany*
12:00	Closing remarks
13:00	***Lunch***
	Departure