



Cheiron The 9th AOFSRR School School 2015



SPring-8, Japan

September 10th (Thu) – September 19th (Sat)

Organizers: AOFSRR, RIKEN, JASRI, KEK

Supporting Organization: IUCr

The Cheiron School's main aim is to provide useful and basic knowledge as well as perspectives of synchrotron radiation science and technology for graduate students, postdoctoral fellows, young scientists and engineers who wish to pursue their career in a field requiring synchrotron radiation and join a synchrotron radiation facility in the Asia Oceania region.

School Curriculum

Lectures

Overview of Synchrotron Radiation
X-ray Free Electron Laser
Ring Accelerator Physics
Light Source - Insertion Devices
X-ray Monochromator, Mirror, and Multilayer Optics
Micro-Focusing Optics
Beamline Design
Detectors
Diffraction and Scattering
Soft and Hard X-ray Microscopy
XAFS/XANES
Inelastic X-ray Scattering
Infrared
Powder Diffraction
Small-Angle Scattering
Protein Crystallography
Medical Imaging
Photoemission - Spectroscopy and Microscopy
SX Absorption Spectroscopy and Resonant Scattering
More...

Meet the Experts

Round table discussion course with the lecturers and SR engineers about the practical specific activities at the home facilities
Beamline Control
Design of Soft X-ray Beamline Optics
Design of X-ray Beamline Optics
Fluorescence Analysis and Imaging
High-pressure Techniques
Powder X-ray Diffraction
Protein Crystallography
Single-crystal X-ray Diffraction
Small-angle X-ray Scattering
SR-based Nanoscience
Surface and Interface Diffraction
SX-MCD and X-MCD
Time-resolved Techniques
X-ray Imaging
X-ray Free Electron Laser
Infrared
More...

Beamline Practicals

More than 15 laboratory courses (beamline practicals) on the application sciences, etc. using SPring-8 facilities
High-energy X-ray Diffraction Technique
Powder Diffraction
X-ray Photoemission Spectroscopy
XAFS/XANES Measurement
Pump and Probe Technique
Beam Diagnostics
Small-angle Scattering
Surface X-ray Diffraction Measurements
Protein Crystallography
X-ray Imaging
Infrared
More...

The school curriculum is subject to change without notice.

<http://cheiron2015.spring8.or.jp>

