

2 Workshops and Seminars

2-1 PF Symposium

The 27th PF Symposium, the annual users' meeting, was held on March 9-10, 2010 at the EPOCHAL Tsukuba. More than 400 users and PF staff participated in the symposium. The main purpose of the PF Symposium is to discuss the present status and future projects of the PF. In addition, users and the PF staff promote mutual friendship through scientific presentations and discussion. At the beginning part of the symposium, PF staff reported on the status and recent progress of the facility. We also had a discussion session on PF future



light sources such as ERL. Many scientific lectures were also given by distinguished invited speakers. Among all, we had two special lectures by Prof. Herman Winick at SLAC and Prof. Ada Yonath, 2009 Nobel laureate in Chemistry, at Weizman Institute of Scientific Rehovot, Israel. There were 237 user poster presentations, with results presented from 12 S-type and 1 U-type proposals. There were 40 presentations from the staff of the Accelerator Laboratory of KEK, Neutron Science Division, Muon Science Laboratory of IMSS and the PF staff, resulting in a total of 290 poster presentations.

2-2 PF Seminars

Seventeen PF Seminars were held in FY2009. They were given either by visitors and by staff, and a list is given in Table 1. The topics of the seminars covered a wide range of science, mainly related to synchrotron-radiation research. Topics included the electronic structure and atomic structure of condensed matters and their surfaces, X-ray diffraction analyses of solids and bio-molecules, ultrafast time-resolved experiments, high-resolution real-space imaging, new interesting materials, new light sources and insertion devices, electron-beam stabilization, and electron- and light-beam monitoring

Table 1 List of PF Seminars held in FY2009.

A Theory of X-Ray Magnetic Circular Dichroism at the L Absorption Edge in Mixed-Valence Ce and Yb Compounds: Development from Ferromagnetism to High Magnetic-Field Electronic Properties KOTANI Akio (KEK-PF) Apr. 22, 2009
Plans for the Renewal and Upgrade of the Advanced Photon Source GIBSON J. Murray (APS/ANL) Apr. 21, 2009
Present Status and Industrial Applications of SAGA-LS OKAJIMA Toshihiro (SAGA Light Source) May 18, 2009
Magnetic Anisotropy of Fe and Co Single Atoms on Pt(111) MIYAMACHI Toshio (Osaka Univ. & Universität Karlsruhe) May 18, 2009
Application of Synchrotron Radiation to Development of Next-Generation Li-Ion Battery NITANI Hiroaki (KEK-PF) Jun 5, 2009
Using TINE 4.1 to Deliver the First Beam in PETRA3 DUVAL Philip (DESY) Jun 10, 2009
Personal Experience in Structural Biology: on the Way toward Automation CHAVAS Leonard (KEK-PF) Jul. 30, 2009
Properties of Diamond and its New Applications FUJIMORI Naoji (AIST) Sep. 10, 2009

The Electronic Structure of Copper-Oxide and Iron-Based High-TC Superconductors: Angle-Resolved Photoemission Spectroscopy
YOSHIDA Teppei (The Univ. of Tokyo) Oct. 23, 2009

Magnetoelectricity in Multiferroic Oxides
YAMASAKI Yuichi (KEK-PF) Oct. 19, 2009

Production and Utilisation of NEG Coatings at the ESRF
HAHN Michael (ESRF) Nov. 5, 2009

From Seconds to Picoseconds -Selected Applications of Time Resolved X-ray Diffraction in Materials Science and Beyond
LISS Klaus-Dieter (ANSTO) Nov. 9, 2009

XFEL-O Seminar Dec. 21, 2009

- An X-ray Free Electron Laser Oscillator- Promises and Challenges-: KIM Kwang-Je (ANL)
- A Simulation of XFEL Operating in a Scheme of Velocity Bunching: NISHIMORI Nobuyuki (JAEA)
- The Idea How to Measure Dynamical Charge Susceptibility Combined with X-ray and Neutron Inelastic Scattering: MIZUKI Jun-ichiro (JAEA)

Protein Structural Dynamics Visualized by Pump-Probe Time-Resolved X-ray Crystallography and Liquidography
IHEE Hyotcher (KAIST, Korea) Dec. 22, 2009

Photoemission Spectra of NiO, CoO, MnO and Spin-State Transition in LaCoO₃
EDER Robert (Chiba Univ. & KIT, Germany) Feb. 10, 2010

A General Presentation of Photo Electron Diffraction
SEBILLEAU Didier (Université Rennes 2, France) Mar. 12, 2010