

# 2 Workshops and Seminars

## 2-1 PF Symposium

The 28th PF Symposium, the annual users' meeting, was held on July 12-13, 2011 at the EPOCHAL Tsukuba under the support of the PF user's community and KEK. This meeting was originally scheduled to hold on March 14-15, however because of the big earthquake on March 11 in Japan, it was postponed. More than 370 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 of recovery from the big earthquake and the results of accelerator operation-test on June as well as the recent progress of the facility. We also had two discussion sessions on PF future light sources such as ERL. Two scientific lectures were also given by distinguished invited speakers, Prof. Tomoki NAKAMURA, Tohoku University and Prof. Kiyoshi KITA, Tokyo University. There were 239 user poster presentations, with results presented from 14 S-type and 3 U-type proposals. There were more than 40 presentations from the staff of the Accelerator Laboratory of KEK, Neutron Sci-



Table 1 List of PF & IMSS Seminars held in FY2010.

Crystal Structure of Thermococcus Onnurineus NA1 Lon, the Founding Member of ATP-dependent Proteases  
CHA Sun-Shin(KORD, Korea) May 21, 2010

The Frontier of Design and Fabrication of X-ray Compound Refractive Lens  
SIMON Markus(KIT, German) Jun. 9, 2010

Valence Fluctuation State in Yb-Based Quasicrystals Realized by Applying Pressure  
KAWANA Daichi (KEK-PF) Jun. 3, 2010

Theory of Low Energy Excitations in Resonant Inelastic X-ray Scattering of Rare Earth Compounds  
KOTANI Akio (KEK-PF) Jun. 25, 2010

ence Division and Muon Science Division of IMSS and the PF staff, resulting in a total of more than 290 poster presentations.

## 2-2 PF Workshops

Three PF workshops were held in FY2010. Anyone can propose such a workshop. Free discussion is made upon a specific scientific topic in synchrotron-radiation research and its related application fields. The proceedings of the workshops are found in the KEK proceedings, which are available at the KEK Library.

- (1) "Application and Prospects of the Synchrotron Radiation on the Biological and Environmental Studies" held on July 2-3, 2010. KEK Proceedings 2010-4 (in Japanese).
- (2) "Frontier of the Structural Biology with Synchrotron Radiation" held on July 12-13. KEK Proceedings 2010-7 (in Japanese).
- (3) "Advances in X-ray Topography" held on January 11-12, 2011. KEK Proceedings 2011-4 (in Japanese).

## 2-3 PF Seminars and IMSS Seminars

Eleven PF Seminars were held in FY2010 as shown in Table 1. They were given either by visitors or by staff. The topics of the seminars covered a wide range of science, mainly related to synchrotron-radiation research. The seminars hosted by PF, PF Seminar, and other seminars hosted by each scientific project in the Institute of Materials Structure Science (IMSS) were rearranged as the seminars hosted by IMSS, IMSS Seminar. This seminar will provide an opportunity to exchange the knowledge among a wide range of sciences, such as synchrotron, neutron and muon. Ten IMSS Seminars were held in FY2010 after September as shown in Table 1.

XMCD and EXAFS Observations of Magnetic and Crystalline Structures of Molecular Adsorbed Fe/Cu(001) Magnetic Thin Films  
 ABE Hitoshi (KEK-PF) July 23, 2010

Search for Better Conductivity in ZnO Thin Films  
 OH Se-Jung (Seoul Natl. Univ., Korea) Jun. 30, 2010

Soft X-ray Emission Spectroscopy; Past, Present and Future  
 HARADA Yoshihisa (The Univ. of Tokyo) July 28, 2010

Isothermal Titration Calorimetry: Principle and its Application to Protein Interaction Analyses  
 TSUMOTO Kouhei (The Univ. of Tokyo) July 20, 2010

Probing the Metallization Mechanism of the ZnO Surfaces by Angle-Resolved Photoelectron Spectroscopy  
 OZAWA Kenichi (Tokyo Inst. of Tech.) Oct. 15, 2010

Improvement of Polymer Surfaces by Ion Beam Irradiation -- Analysis with the Slow Positron Beam and SAICAS  
 HYODO Toshio (KEK-PF) July 1, 2010

In situ Photoemission Study on Low-Dimensional SrVO<sub>3</sub> Ultra Thin Films  
 YOSHIMATSU Kohei (The Univ. of Tokyo) Sep. 3, 2010

X-ray Microscopy  
 ATTWOOD David (Univ. of California, U.S.A.) Oct. 21, 2010

Pixel Array Detectors: Advanced Detectors for Synchrotron Science  
 NIELSEN Christopher (ADSP, U.S.A.) Oct. 29, 2010

Study of Material Surface for Measurement of Neutron Electric Dipole Moment  
 YOSHIOKA Tamaki (KEK-IMSS) Nov. 1, 2010

Observing Sub-Nanosecond Spin Dynamics by Time-Resolved XMCD-PEEM  
 FUKUMOTO Keiki (Tokyo Inst. of Tech.) Nov. 2, 2010

Growth and Properties of Epitaxial Co / Fluoride Nanostructures on Silicon  
 SOKOLOV Nikolai (Ioffe Physico-Technical Institute RUSSIA ) Nov. 17, 2010

The Role of Oligomerisation in Enzyme Function: Structure and Evolution of an Essential Bacterial Enzyme  
 DOBSON C.J. Renwick (Univ. of Melbourne) Nov. 26, 2010

Recent Advances in Synchrotron Techniques, New Opportunities in Organometallics, Phase Systems, Clusters and Nanoroughness  
 CHANTLER Christopher (FAIP, Australia) Dec. 16, 2010

Characteristics of Coherent THz Pulses Produced as Transition Radiation from the NSLS SDL Photo-Injected Linac  
 CARR Laurence (BNL) Jan. 11, 2011

Quick Measurements of Specular X-ray Reflectivity and Crystal Truncation Rod Scattering in Dispersive Mode  
 MATSUSHITA Tadashi (KEK-PF) Feb.25, 2011

Insertion Devices in 3rd Generation SR Facilities around 3 GeV  
 KITAMURA Hideo (Riken) Mar.31, 2011