



## International Symposium on High Resolution Spectroscopy Using Synchrotron Radiation

Se-Jung Oh (Department of Physics, Seoul National University)

The International Symposium on "High Resolution Spectroscopy using Synchrotron Radiation" was held in Pohang, Korea on Aug. 24-25 (Thu-Fri) as a satellite meeting of the VUV-11 conference (the 11th international conference on vacuum ultraviolet radiation physics) held in Tokyo the following week. This satellite meeting was set up to celebrate the successful construction and commissioning of the Pohang Light Source (PLS) of Korea. The Pohang Light Source, the 3rd generation 2.0 GeV synchrotron radiation facility, has successfully finished commissioning recently, and the photon beam will be available to the general users starting this September. This symposium was held in Pohang University of Science and Technology (POSTECH), the site of PLS, and was supported by Pohang Accelerator Laboratory, Korean Science and Engineering Foundation, Basic Science Research Institute of POSTECH, and the Atomic Scale Surface Research Center of Yonsei University. A little more than 100 people attended the conference, with about 20 foreign participants.

The main topics of the conference included

- High Spectral Resolution Photoelectron Spectroscopy
- Spectromicroscopy
- Spin-polarized Photoelectron Spectroscopy
- Magnetic Circular Dichroism

There were an oral session of 9 invited talks and a poster session of 14 contributed papers. The list of invited speakers with the titles of their talks was as follows.

I. Lindau (Max-Laboratory, Lund University, Sweden)

"Prospects of High Resolution Spectroscopy and Microscopy with the Next Generation SR Sources"

J. L. Erskine (University of Texas at Austin,

USA)

"High Resolution Spectroscopy at CAMD"

G. Kaindl (Freie Universitat, Berlin, Germany)

"High-Resolution Study of Double-Excitation States in Helium"

C. T. Chen (Synchrotron Radiation Research Center, Taiwan)

"High Resolution Soft X-ray Spectroscopies and Their Applications"

B. P. Tonner (University of Wisconsin at Milwaukee, USA)

"Application of High Spatial and Spectral Resolution Soft X-ray Spectroscopy in Material Science"

E. Kisker (Heinrich-Heine-Universitat, Dusseldorf, Germany)

"Magnetic Linear Dichroism in Angle-Resolved Photoemission, Photoabsorption and Reflectivity"

A. Kotani (ISSP, University of Tokyo Japan)

"Theory of X-ray Emission Spectra in d and f Electron Systems"

L. I. Johansson (Linköping University, Sweden)

"Surface Core-level Shifts and Electron Mean Free Path of Be metal"

Z. -X. Shen (Stanford University, USA)

"Momentum Dependent Electronic Structure and Superconducting Gap of High  $T_c$  Superconductors"

The poster papers were presented by J. Fortna (Univ. of District of Columbia, USA), D. Norman (CCLRC Daresbury Laboratory, UK), C. G. Olson (Iowa State Univ., USA), C. Hwang (KRISS, Korea), S. -H. Yang (Tohoku Univ., Japan), K. Shimada (Univ. of Tokyo, Japan), K. Ono (University of Tokyo, Japan), J. -S. Kang (RIST, Korea), Xinyi Zhang (Univ. of Science and Technology of China), K. S. An (Sung-kyun-kwan

Univ., Korea), C. Y. Kim (POSTECH, Korea), K. H. Cho (Seoul National Univ. Korea), Y. Jeon (Jeonju Univ., Korea), and K. V. Kaznachev (Kurchatov Synchrotron Radiation Source, Russia).

At the end of the 2nd day oral session, a discussion session was held on the future prospects of PLS scientific programs and beamlines. Many valuable opinions were offered for the future beamlines of PLS, including the high energy photoemission beamline and soft x-ray emission spectroscopy beamline, in addition to beamlines devoted to the high spectral and spatial resolution spectroscopies, spin-photoemission and photoabsorption, and magnetic circular and linear dichroism. But it was pointed out that the number of general purpose beamlines and that of special sophisticated instrument beamlines should be balanced according to the needs of synchrotron radiation users in Korea.

For foreign participants, a tour of Pohang Light Source including the beamlines, the storage ring and the linear accelerator was provided, and on the day after the conference (Aug. 26, Sat.) they also enjoyed the sightseeing of Kyongju. Kyongju is the ancient capital of the Shilla dynasty, a culture which blossomed for almost a millennium from the first century B. C. The participants enjoyed the city full of excellent stone structures such as Buddhist temples and royal tombs, as well as gold and pottery relics.

Overall, the conference was a good opportunity for Korean scientists to learn about the potentials and future prospects of scientific research and development using the 3rd generation synchrotron radiation facility, and I hope the foreign participants also enjoyed themselves with the lively discussion and tour of PLS.



VUV-11 サテライト会議報告

## International Workshop on New Opportunities in Soft-X-Ray Emission Spectroscopy

谷口 一雄 (大阪電気通信大学)

8月24日から26日までの3日間、上記のワークショップが大阪電気通信大学において開催された。軟X線分光学は最近のX線発生装置や分光

器の進歩、特に高輝度放射光実験施設の建設に伴って急速に変化し、これまでとは違った形で発展しようとしている。このワークショップはこのよう