

UVSOR  
ACTIVITY REPORT  
2002

edited by  
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## *Preface*

This Activity Report describes the research activities at the UVSOR facility in the Institute for Molecular Science (IMS) in FY2002. This is the last report by use of the UVSOR-I ring, though some results may be reported next year again. This is also the last volume in the red-covered activity report series for the second 10 years in UVSOR. Statistics such as operation time and number of users do not so much change for recent years. Unfortunately, in FY2002, we were forced to stop the user time for five weeks due to serious water leakage in vacuum. We compensated the loss of user beam time by postponement of the start of the shutdown for the UVSOR-II construction. The details are reported by Prof. Masahiro Katoh in this volume. He is in charge of the UVSOR accelerator complex, involving the UVSOR-II ring.

Next year we will start the third 10 years by using the UVSOR-II ring. The construction of the UVSOR-II ring will soon be completed. We will be able to get low-emittance  $\sim 27$  nmrads photons and four additional straight sections for undulator beamlines; two new in-vacuum undulators have already been installed on the BL-3U and BL-7U beamlines. BL-5U is now being upgraded. We are trying to get budget for construction of other new undulator beamlines, BL-6U and so on. On the other hand, bending-magnet beamlines are reduced in number and are improved; for example, the BL-6 bending port is now dedicated only to infrared/terahertz spectroscopy. Professors Eiji Shigemasa and Shin-ichi Kimura are in charge of these beamline construction/reconstruction projects.

For this one year, two research associates of the four left the UVSOR facility. In April 2003, Dr. Tatsuo Gejo moved to Himeji Institute of Technology located near SPring-8 as associate professor, and Dr. Kazutoshi Takahashi moved to Synchrotron Light Application Center, Saga University, as lecturer. On the other hand, Mr. Toshio Horigome joined the technical division in October 2002. In April 2003, Dr. Takahiro Ito joined the photophysics division as research associate from RIKEN/SPring-8.

I hope that the UVSOR facility with the UVSOR-II ring will be more successful with our user community and in-house staff than in the UVSOR-I period.

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