

## PREFACE

It was in 1975 that researchers of molecular science first proposed UVSOR ( synchrotron orbital radiation ) project. It is my great pleasure to report to you that the UVSOR Facility is now operational. Regular operation has been made since April 1985. The maximum current of the light source so far attained is 330 mA and the lifetime at 100 mA is two hours. The increase of electron energy from 600 MeV to 750 MeV was successfully done. The understanding of beam behavior, such as ion trapping effect has progressed. Single bunch operations were performed several times for time-resolved spectroscopy. Ten measurement systems have been opened to users and 49 research programs are accepted in this fiscal year of 1985. The research fields of the users extend from molecular science to the related fields, such as radiometry, lithography, topography and so on. From this year on, we publish annual Activity Report, which includes the status of UVSOR Facility, the development of the light source and measurement systems, and research activities. I would like to express my sincere thanks to the staffs of ISSP and INS, University of Tokyo, and Photon Factory for their kind support. I also appreciate the efforts of the members of the UVSOR Facility, who have participated in the construction, operation, maintenance and development of the light source and measurement systems. Finally I hope that many in-house staff of IMS as well as the researchers outside of IMS will make full use of UVSOR.

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