

Preface

A seminar on "Future perspectives in High Energy Physics" was held at the National Laboratory for High Energy Physics (KEK), Tsukuba, Japan, on May 14-20, 1984. This seminar was organized by ICFA, the International Committee for Future Accelerators, and sponsored by KEK and the Institute for Nuclear Study (INS), University of Tokyo, with cooperation of the Research Institute for Fundamental Physics, Kyoto University.

For the history of ICFA and the motivation behind the 1984 Seminar, readers are referred to the "Background Information" which was distributed to the participants by the ICFA Secretariate prior to the seminar, and reproduced, in part, in this proceedings.

Scientific works of the seminar took place on May 15th through 19th, following the registration and welcome party in the evening of May 14. As can be seen in the program of the seminar, the first two days were devoted to the information sessions which included the survey of the world wide present and future accelerator plans and an overview of the physics to be expected in 1990's. In the succeeding three days, very active exchange of opinions took place in the form of panel discussions on future R&D cooperation and on cooperation in accelerator construction.

The papers presented by the most of the invited speakers and reports of the panel discussions as summarized by the chairman of each panel are presented in this volume.

We believe that this seminar had a great value, since it was held at a time of a transformation of the high energy physics after the discovery of Z^0 and W^\pm and the seeming success of the standard electro-weak theory, and at the time of a sort of tension between the CERN region and the USA regarding their future plans. Furthermore, A great meaning can be attached to the fact that the leaders of the high energy

physics of the entire world could get together for discussion in a single hall. Exchange of the candid views between East and West, North and South, and Europe and the USA within and without the seminar hall should leave a significant mark for the future.

Many of the participants have enjoyed an excursion to Nikko, with a sightseeing through Toshogu shrine which enshrines Tokugawa Ieyasu, the most famous Shogun who started the 300 years of Shogun reign some 400 years ago after unifying many regions of Japan governed by local lords with regional interests. The shrine is also well known for its grand, but refined and colorful architecture set against a serene background of cedar woods.

On behalf of the local organizing committee, I wish to acknowledge with thanks the cooperation of Dr. W. Owen Lock, the secretary of ICFA, in organizing this seminar, and assistance of Ms. Yasuko Miura in formulating the computer based communication and registration for the seminar. Thanks are due to the devotion of Scientific Secretaries, staff members of INS who took charge of meeting the participants at the airport, and the members of the Administration Department and the Plant Engineering Department of KEK, without whose effort, the seminar could not have been carried out as successfully as it was. I also wish to acknowledge with thanks the assistance of Drs. S. Kurokawa and Y. Unno in putting this proceedings together.

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Satoshi Ozaki
Chairman, Local Organizing Committee