

Foreword

The Eleventh International Conference on Cyclotrons and Their Applications, as its name implies, is one of a series of meetings which provide the exchange of ideas and information by cyclotron builders and users throughout the world. All of the preceding ones were held in North America and Europe. The eleventh one was held in Tokyo as the first case outside the two areas, from Oct. 13 to 17, 1986, which was organized by a cooperation with three institutes, Institute for Nuclear Study (INS), University of Tokyo, Institute of Physical and Chemical Research (RIKEN), and Research Center for Nuclear Physics (RCNP), Osaka University, and was sponsored by several national scientific societies.

The international character of these Conferences is confirmed by the number of countries represented. Delegates were registered from 20 countries, Australia, Belgium, Canada, China, France, Finland, the Federal Republic of Germany, Hungary, India, Italy, Japan, the Republic of Korea, Poland, Spain, Sweden, Switzerland, the U.S.S.R., the United Kingdom, the United States, and Vietnam. Total participants are 213 in all, of which 106 are foreign and 107 are domestic.

In addition to 25 invited papers, a total of 182 papers were submitted for presentation at the Conference. In order to avoid parallel sessions, only 40 papers were selected for oral presentation, and the rest of the papers were displayed in three poster sessions. Except for the session on applications, each poster session was arranged according not to items but to institutes, in order for the participants to have more chance to discuss with authors of the same field in different institutes.

Special sessions on cooling rings and on related technologies of superconducting cavity and ultra-high vacuum provided good chances for discussing with synchrotron physicists.

One full day during the Conference was spent on a visit to INS and RIKEN accelerator facilities, and also on a companion's program at Kabuki-Theater, National Museum, and traditional Japanese restaurant. Three evenings were spent on two receptions at Conference hotel and RIKEN, and a banquet all of which were very warm and pleasant except for a tedious after-dinner speech on the history of cyclotrons in Japan by myself.

A tour to National Laboratory for High Energy Physics, KEK, at Tsukuba was organized on the week-end just after the Conference. RCNP at Osaka hosted an open-house in the institute on the next Monday, which was followed by the RCNP-KIKUCHI Summer School on Accelerator Technology for young generation. Moreover, by the courtesy of the Institute of

Modern Physics, Academia Sinica at Lanzhou, the People's Republic of China, a tour to China was arranged after the Conference. It was indeed fortunate for many delegates to have enjoyed the trip to China.

It was quite regretful that the visas for South African delegation were finally not issued in spite of the efforts by the Science Council of Japan, Ministry of Education, Science and Culture, Science and Technology Agency, and Local Organizing Committee. The South African contributions were presented by a series of panels of 13 papers including invited one in the poster session, which were kindly sent in time as well-prepared materials. This Conference had been sponsored by the International Union of Pure and Applied Physics, IUPAP, as the preceding ones of the series. Unfortunately, however, it was finally withdrawn on account of the refusal of visas.

In the International Organizing Committee meeting held during the Conference, most of the members expressed their regret concerning the visa problem to the President of the Science Council of Japan. Dr. K. Ziegler, VICKSI, kindly accepted the responsibility for the twelfth Conference which will be held at Berlin in August, 1988 or May, 1989. Discussion of possible sites for the thirteenth one led to four proposals, namely from Chalk River, College Station, Vancouver and Lanzhou. After discussion a poll indicated Chalk River or College Station as the favored sites with Vancouver as an alternate if arrangements in both sites can not be properly set-up. Lanzhou, China, is expected as the site for the fourteenth Conference. The Committee made a consensus to add Asian area to the previous rotation hereafter.

The Local Organizing Committee acknowledges the contribution of all participants and also helpful financial support by various Japanese science foundations and Japanese companies which have continued to contribute to the development of Japanese accelerator engineering. Finally, I would like to express my gratitude to many of my colleagues at RIKEN and INS for their great contributions to the Conference and to the Proceedings. Foremost among these is the chairman of conference secretariat, Dr. H. Kamitsubo, who, with Dr. Y. Yano, handled successfully all of the most difficult job of Conference arrangements. My sincere thanks should also be due to the warmest encouragement by the Conference President Dr. T. Miyajima.

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Local Organizing Committee