

I. Fermilab Workshop

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Introduction to the Fermilab Symposium

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During the second phase of the Japan-US Collaboration on *Particle Physics in Japan*, which has been studying this subject since 1978, one of a series of workshops was held at Fermilab in Batavia, Illinois, USA on May 6 and 7, 1985. The Fermilab Workshop, dealing with the period from the end of World War to 1960, was unique in being the first of the nine workshops to be held outside of Japan and the first to concentrate on the work of expatriate Japanese. Almost all the participants also took part in a larger conference that preceded it at Fermilab, the International Symposium on the History of Particle Physics in the 1950's: *Pions to Quarks*.

Perhaps a brief history of the US-Japan Collaboration can serve as introduction to the workshop papers. It began through correspondence between Satio Hayakawa and myself in 1977. I had written to Professor Yukawa to get information for a study I was making of the origin of the meson theory, in which I was greatly helped by Yoichiro Nambu. As Yukawa was not well at that time, he did not answer, and so I wrote to Hayakawa, an old friend from Cornell days, to ask how I get the information. He responded immediately and enthusiastically, saying that there was need for immediate action to record the important events in theoretical physics that had taken place in Japan, before all the eye-witnesses were too old or no longer there to testify.

He suggested a collaboration, and within one week he wrote again with names of Japanese physicists who were anxious to participate. This first group consisted of Hayakawa and Y. Fujimoto, R. Kawabe, M. Konuma, Z. Maki, S. Nakamura, T. Takabayasi, Y. Tanikawa, T. Tsuji, M. Kobayasi and M. Taketani from Japan, and from the United States, Y. Nambu and myself. We obtained support from the Japan Society for the Promotion of Science and from the National Science Foundation of USA, for 1978 and 1979. Visits to Japan and to the USA were arranged; four workshops and a number of interviews were held including one with Sin-itiro Tomonaga, on 12 October 1978, shortly before his final illness prevented further testimony from him.

During the next few years, there was an upsurge of interest in the history of particle physics, not only in Japan but on a world-wide scale, and historical materials of the collaboration were used in this research. Large amounts of Yukawa material were discovered after his death in 1981 and the Yukawa Hall Archival Library in Kyoto was established, to which Mrs. Sumi Yukawa also contributed papers from her

private collection. Similar archival efforts have been made for Sakata at Nagoya and for Tomonaga at Tsukuba.

During the second phase of the collaboration, in 1984 and 1985, five workshops were held, the one held at Fermilab being the fourth. Papers from the other workshop have been put into topical groups below, but the Fermilab Workshop is presented here as a unit, because of its topical coherence and to give the flavor of a typical workshop.