

Comments on the 1991 Particle Accelerator Conference

The fourteenth biennial Particle Accelerator Conference on Accelerator Science and Technology was held May 6-9, 1991, at the Sheraton Palace Hotel, in San Francisco, California. There was a record registration of 1500 participants, which, together with a total of over 1100 invited and submitted papers, led to a most successful conference. Since the last conference in the series, the American Physical Society Division of Beam Physics was organized, and this meeting served as its annual meeting. The program and the large attendance by physicists, scientists, and engineers from the United States and around the world attested to the vigor of the field. The primary purpose of the conference, to provide a forum for communication and exchange of ideas between accelerator scientists, engineers, and persons concerned with the applications of accelerators, was well served.

In what has now become the traditional format, the conference opened with a morning plenary session and concluded with an afternoon plenary session. On each of the other afternoons and mornings there were two parallel oral sessions and poster presentations. Because of the enormous influx of papers, an additional evening poster session was organized so that all accepted papers could be presented either orally or by poster.

The opening plenary session was devoted to the physics and technology challenges in the field of particle accelerators. That session set the stage for the oral and poster sessions that reported the accomplishments since the previous conference, both with the existing accelerators and in the research and development leading to new accelerators. The closing plenary session took a look into the near and far future and presented informed opinions of the challenges that will face us at the close of this century and well into the next.

This year's banquet, with an overflow attendance of 800 people, was highlighted by an outstanding speech by David Schramm of the University of Chicago on the topic of "Probing Creation: Testing the Big Bang." Several awards and special presentations were made at the banquet. The IEEE Particle Accelerator Technology Awards went to Zoltan D. Farkas, SLAC, and Perry B. Wilson, SLAC, for their invention and implementation of the SLED scheme for doubling SLAC energy, and to David C. Larbalestier, University of Wisconsin, and Ronald M. Scanlan, LBL, for the development of Nb-Ti superconducting material for high current density application in high field superconducting magnets.

U.S. Particle Accelerator School Prizes for Achievement in Accelerator Physics and Technology

were given to Wolfgang Schnell, CERN, for contributions to the development of accelerating and diagnostic systems for high energy accelerators, and to Glen R. Lambertson, LBL, for contribution to the development of injection/extraction technology, accelerator instrumentation, and microwave devices. The School also gave special recognition to Rolf Wideroe for the invention of radio frequency acceleration.

The Robert R. Wilson Prize of the American Physical Society went to J. Reginald Richardson for his original contributions to the development of cyclotrons.

The American Physical Society Award for Outstanding Doctoral Thesis Research in Beam Physics went to Jeffrey P. Calame, University of Maryland, for research that led directly to achieving operation of a 10 GHz gyrokystron with 20 MW peak output power in a pulse of one microsecond. Also, fellowship certificates were presented to both IEEE and American Physical Society new fellows.

The Sheraton Palace (which is one of the first grand hotels to be built in America and certainly the first west of the Mississippi) reopened its doors just one month before the start of the conference after being shut for a two year, \$150 million renovation. All of the facilities were updated while still retaining the hotel's old elegance. In particular, a reconfiguration of its conference facilities was centered around a large spacious court onto which opened the poster rooms. This court afforded an ambience that was most conducive to informal interaction between the conferees.

Dedicated efforts of many people went into the preparation of this conference, and we thank them all. The various committee members are listed in this Conference Record. Special thanks go to Klaus Berkner, LBL, chairman of the Program Committee, Loretta Lizama, LBL, editor of the Conference Record, and Rene Donaldson, SLAC, and Mollie Field, LBL, the chairs of the local organizing committee.

The next conference in this series will be held in Washington, D.C. in 1993. Christoph Leemann of CEBAF will be the conference chairman. The 1995 conference will be held in Dallas, Texas, with Richard Briggs, SSCL, conference chair. The 1997 conference will be held in Vancouver, British Columbia, and will be organized by TRIUMF. It is expected that the 1999 conference will be held on the east coast and organized by BNL.

Matthew Allen
Conference Chairman