

12TH INTERNATIONAL HIGH-ENERGY ACCELERATOR CONFERENCE

Russ Huson



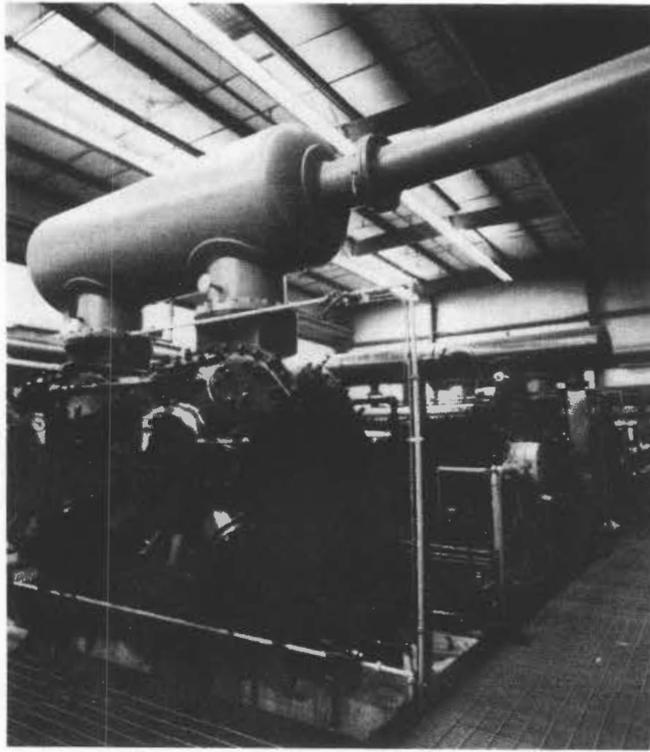
The 12th International Conference on High-Energy Accelerators will be held at Fermilab from August 11 through August 16 of 1983. A committee of Fermilab people, together with people from other institutions working in the field, has been busy organizing the conference. The organizing committee includes J. D. Bjorken, T. Collins, D. Edwards, R. Johnson, P. Livdahl, E. Malamud, F. Mills, and L. Teng.

This is a time of ferment and thinking about future projects in high-energy accelerators. The 400-GeV era, which has been enormously productive for physics results, has run its course, and there is a need for experiments at higher energy. The CERN SPS  $\bar{p}p$  Collider has already begun work in a new energy range suitable for searches for intermediate vector bosons. The Fermilab  $\bar{p}p$  Collider, LEP, the SLAC SLC, and perhaps the Brookhaven CBA will all come into being in the next several years in this same range. In fact, the Energy Saver, the base for the Fermilab Collider and an important technical step in accelerators, may be in operation by the time of the conference. Many people have begun to discuss a step beyond the "vector boson" range, and in August there will be work to report on possible 20-TeV synchrotrons, single-pass colliders, and laser and collective accelerators. The mood is in some ways reminiscent of the first conference in 1956, when the invention of strong focusing had begun an explosion in accelerator technology and many results of critical importance were reported. That conference also covered pion physics. Our conference will include some discussion of detectors because they are now so intimately connected with accelerator design.

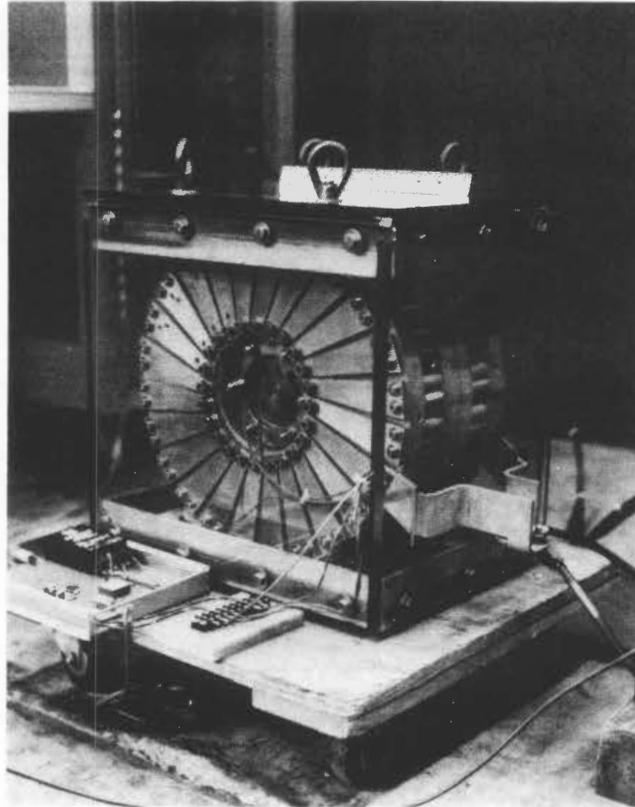
To cope with these large numbers of interesting papers on many different aspects, the Program Committee has arranged plenary sessions with invited speakers and poster sessions for contributed papers. The posters will be emphasized over the weekend, when there will also be tours of Fermilab facilities. A number of people have been invited to speak to summarize the state of various parts of the accelerator art. Some of the principal speakers are J. D. Bjorken, H. T. Edwards, A. M. Sessler, A. N. Skrinsky, and R. R. Wilson.

The time of the conference was chosen in coordination with the Photon-Lepton Conference, to be held at Cornell the preceding week. Having the conference continue through the weekend will allow for informal meetings and discussions, as well as for planned social events. There will be a concert Friday night, a buffalo roast Sunday, and a conference banquet on Monday evening.

People interested in attending should write to Rene Donaldson, the Conference Secretary.



New compressors in the Central Helium Liquefier.  
(Photograph by Fermilab Photo Unit)



The transformer of the lithium lens of the Tevatron I project. The powerful pulsed lens focuses antiprotons produced in the target just upstream.

(Photograph by Fermilab Photo Unit)