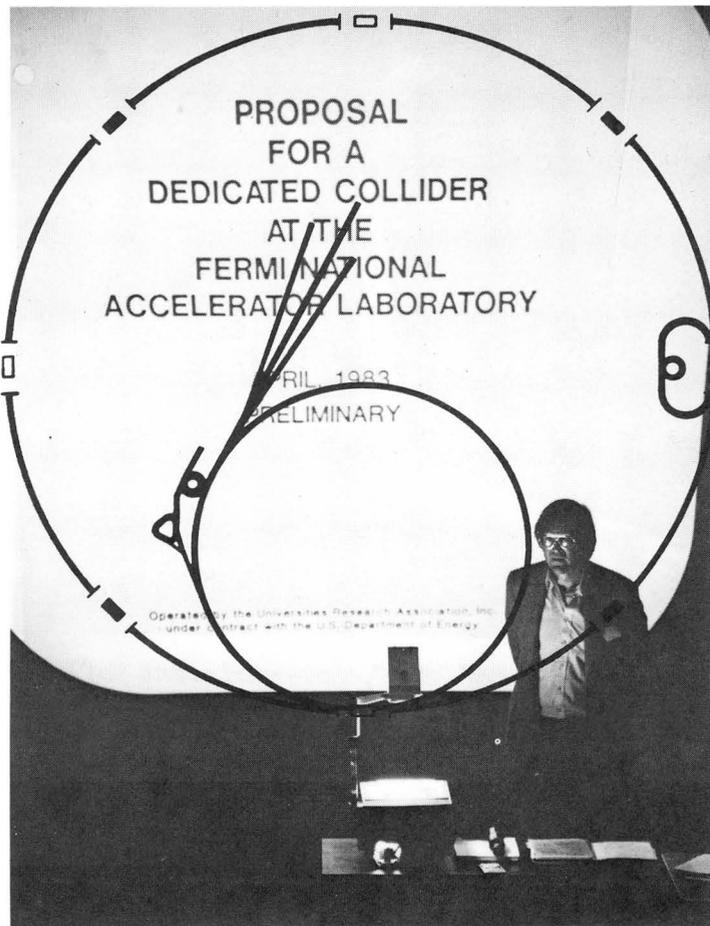


April 28, 1983

FERMI NATIONAL ACCELERATOR LABORATORY

370 PARTICIPATE IN ANNUAL USERS MEETING

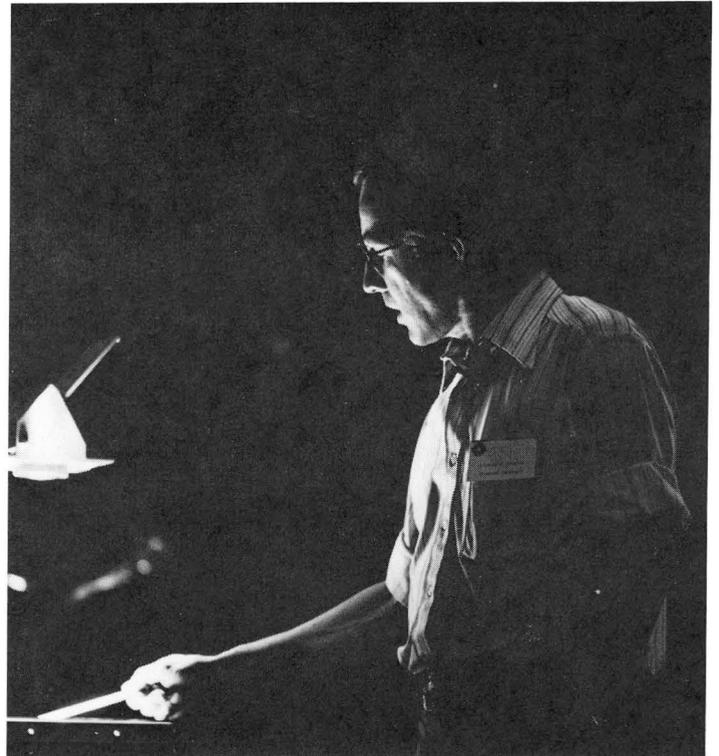


B.J. discusses the Dedicated Collider proposal at the Users Annual Meeting on Friday, April 22.

The two-day Fermilab Annual Users Meeting was held April 22 and 23 and attracted 370 participants. It was the 15th meeting of this group that boasts 1100 members and has between 600 and 700 active experimenters at Fermilab at any given time.

Director Leon Lederman told the assemblage that 91 teams from 60 institutions took data in 21 experiments at Fermilab in 1982. At the same time, Lederman deplored the average of four years it takes between presenting a proposal to do an experiment at Fermilab and its completion. His plea to the user community was, "We must do better."

One of the highlights of the meeting was J. D. Bjorken's (B.J.) presentation of



Stan Wojcicki, Chairman of The Woods Hole Subpanel of the U. S. Department of Energy High Energy Physics Advisory Panel (HEPAP), informs attendees of the charge and activities of the group that met here Saturday and Sunday, April 23 and 24, and heard B.J. present the Dedicated Collider proposal.

Fermilab's plans for a Dedicated Collider (old idea of a Fermilab site filler) that could be in operation before 1990 if the idea were to be endorsed by Woods Hole and HEPAP and if the necessary funding were available from DOE. It is proposed that Fermilab build a proton-antiproton superconducting storage ring to reach 4-5 TeV center-of-mass energy. The ring is to be built within the present Laboratory site boundaries and will use the Tevatron I system as a 1-TeV injector (see artistic overlay showing the Main Ring within the proposed Dedicated Collider ring). B.J. summarized the arguments for the Collider by saying "it is good science, we will already have a good injector, we already have the technology such a machine will require, and it is good for the fixed-target program."

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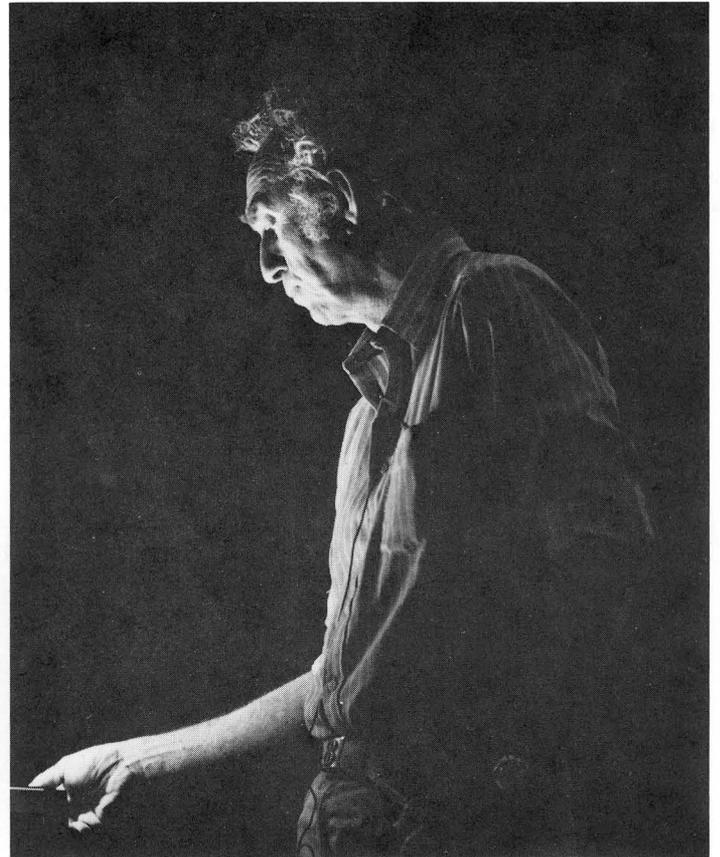
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Stan Wojcicki of Stanford University discussed the sources of input that the Woods Hole Panel considers in arriving at a recommendation to HEPAP: results of workshops, DOE reviews, presentations by laboratory staffs (such as Fermilab's Dedicated Collider proposal), written laboratory proposals and documentation, meetings within the community, and letters from the high-energy physics community. He appealed to the Fermilab users to submit such letters to him by May 1 so that the Panel will have time to consider them before their June 5-11 meeting.

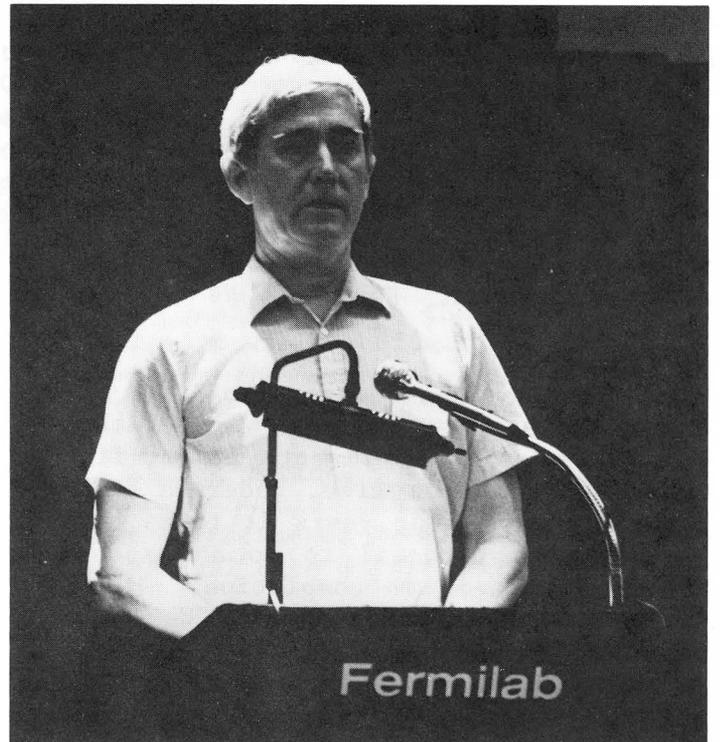


During coffee break at the Users Annual Meeting, Fermilab's Rick Coleman (left) and Michael Shaevitz from Columbia University's Nevis Laboratory discuss the program with Drasko Jovanovic (lower left). In the background Taiji Yamanouchi and Randy Ruchti from Notre Dame exchange greetings.

Alvin Trivelpiece, manager of DOE's programs for basic energy research, remarked on DOE's science budget for fiscal year 1984 at Saturday's Users Meeting. —>



Martin Perl of SLAC, co-recipient of the prestigious Wolf Foundation prize in physics with Leon Lederman earlier this year, discusses the history and possibilities for future lepton searches and urged the Fermilab users attending last week's meeting to "enlarge your ways of thinking about heavy leptons."

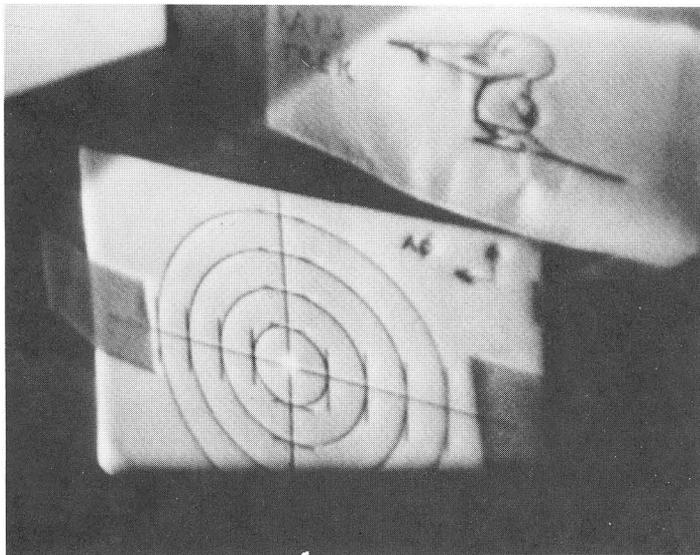


DOUBLER DEVELOPMENTS

The recommissioning of the Main Ring and start-up of the Energy Saver/Doubler are proceeding exactly on schedule. On Saturday, April 16, Sectors E and F of the Saver (1/3 of the ring) were powered to 2200 amps, equivalent to 500 GeV. On the following day, beam in the Main Ring was accelerated to 150 GeV, the energy necessary for injection into the Saver.

On Friday, April 22, beam was injected from the Main Ring into the Energy Saver at the E0 straight section. After 19 hours of tuning, a low-intensity beam in the Saver was transported 1/3 of the way around the ring to a beam dump in A0. Although fine-tuning will continue in both rings every weekend, the next major milestone will be completion of the Saver installation so that complete revolutions with beam can be attempted.

The new beam position monitoring (BPM) and beam loss monitoring (BLM) systems were tested with beam for the first time and performed beautifully. Dramatic computer-generated color displays showed the location of the beam in the Energy Saver vacuum pipe to a precision of 1 mm over the 2 km distance. The digital information from the BLM's was used to automatically adjust the correction dipoles to smooth the orbit.



*Beam illuminating fluorescent screen in front of dump at A0 - Bull's-eye!
6:23 p.m. April 23, 1983*



Fermilab takes possession of the Collider Detector Pit! Rich Orr (left), John Peoples, and Tim Toohig (center) raise the flag in front of the giant sliding door that is an essential feature of the Pit.

CARDINAL BERNARDIN VISITS LAB

by Tim Toohig

On Wednesday, April 20, Cardinal Joseph Bernardin of Chicago visited the Laboratory at the invitation of Director Leon Lederman. Cardinal Bernardin is the chairman of the committee of American bishops preparing a pastoral letter on the morality of nuclear armament and warfare. In draft form the letter has attracted wide attention in government, as well as religious circles.

In an informal talk to the Fermilab staff after touring the Laboratory, Cardinal Bernardin spoke about the need that religion has of science to develop an informed faith and that science has of faith as a context for science. He cited
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the current discussions on nuclear armaments as an example. The bishops rely heavily on scientific advisers in formulating their pastoral letter, while in their experience most scientists have welcomed the moral dimension that the bishops bring to the discussion.

(Left to right) Father Jim Roache, Administrative Assistant to Cardinal Bernardin, Father Tim Toohig, Cardinal Joseph Bernardin, Bob Bauer, DOE Area Manager, and Leon Lederman.



RECREATION TICKETS AVAILABLE

Discount tickets for several popular recreation areas will be on sale at the Information Desk in the atrium of Wilson Hall. Great America will be open weekends beginning May 7 and seven days a week starting May 23 with tickets on sale for \$10.25. General admission tickets for Brookfield Zoo are \$1.50.

SOFTBALL, TENNIS SEASONS TO START

Employees interested in joining spring and summer team sports should contact Helen McCulloch, ext. 3126. Players are needed for the Fermilab Softball League and Industrial Tennis League. The softball season, scheduled to start May 23, will play games on Tuesdays and Thursdays.

Tennis players will participate in the West Suburban Industrial League with Bell Laboratories, Amoco, Western Electric-Lisle, and Argonne. Fermilab has an "A" team and a "B" team.

DENTAL REVIEW DATE CHANGES

At this time of the year, the Laboratory normally reviews with Connecticut General its dental insurance premiums and experience to determine the need for a change in premium rates. The Laboratory pays the full cost of this coverage for employees and contributes one-half coverage cost for family benefits.

This year and in the future, the premium review will be effective October 1; consequently, the current rates are still applicable but subject to change effective October 1. The timing was changed so that the accounting periods for medical and dental coverage would coincide. We will report on any changes in the rates as the October renewal date approaches.

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