

FERMI NEWS

 Fermi National Accelerator Laboratory

Operated by Universities Research Association Inc.
Under Contract with the United States Department of Energy

Vol. 3, No. 37

September 11, 1980

CENTRAL LABORATORY TO BE NAMED IN HONOR OF WILSON, FIRST DIRECTOR

The 16-story Central Laboratory, the most prominent landmark on the 6,800-acre site, will be named Robert Rathbun Wilson Hall in honor of Fermilab's first director.

The ceremony will begin at 4 p.m. on Sept. 18 at the north end of the building, its main entrance. All Fermilab employees, users and their families are invited.

Speaking during the program will be Norman Ramsey, president of Universities Research Association; Harry Woolf, chairman of the URA Board of Trustees; a representative of the Department of Energy; Robert Wilson and Leon Lederman, Fermilab director.

The new name of the building will be formalized by letters attached to the building's surface on the west side of the main (north) entrance.

The URA board at its March 20-21 meeting approved the Laboratory's request to name the building Robert Rathbun Wilson Hall. The DOE also has approved the new name. R. Wilson and his wife, Jane, will be the honored guests at the trustees' dinner that evening (Sept. 18).

Wilson, who holds the title of Director-Emeritus, served as director from 1967 until he left in 1978. He presently is on the faculty of Columbia University.

He also is recognized as an accomplished artist-sculptor and an articulate spokesman promoting the important parallels between aesthetics and science.

Dr. Wilson personally suggested designs and supervised construction of all Fermilab facilities. The design of the twin-towered Central Laboratory Building was patterned by Dr. Wilson after a cathedral at Chartres, France.



You are invited to
A Ceremony to Re-name the
Central Laboratory Building
of the
Fermi National Accelerator Laboratory:

ROBERT RATHBUN WILSON HALL

In Honor of
The First Director of the Laboratory

Thursday, September 18, 1980

4:00 p.m.

on

Front Steps of the Building

Director's Report

I would like to provide all laboratory personnel with a status report on Fermilab projects, prospects and problems over the next few years. We have the following major tasks:

The Saver

...is paced by the Magnet Assembly Facility. After a number of technical problems involving cryostat weakness and correction coil quenching, ten models have passed an exhaustive set of tests and we are now in production on a final accelerator package. Dipole magnet assembly has been proceeding at a rate of one a day and almost one-third of the required coil assemblies have been completed. Progress has been made in most of the many other systems associated with the Saver.

400 GeV:

This program ran for only twenty-eight weeks in FY 80 and there is no question that this hurt the research effort. We must keep this program going, limited as it is, since the physics potential now in our experimental areas is very strong and many of these experiments will evolve into Tevatron research. In the sense of a department store, these are our customers and, even though we are renovating (in order to provide better service), we must remain open or we'll find them all at Macy's!

Problems:

Last June a DOE advisory panel met at Woods Hole and issued a report which had the effect of strongly supporting the entire Fermilab program outlined above. Nevertheless, budgets in FY 81 and FY 82 are generally expected to be tight.

The resources which the DOE will be able to make available to the Laboratory are not enough to pursue all of these projects with the efficiency and vigor which they require. Therefore, we must set priorities and adjust the pace of our projects to bring us to our goals in the best possible way.

In general the Saver must take first priority. This establishes the superconducting ring of magnets and this is the key to the future of the Laboratory. The Saver is the basis of Tevatron I and II, and in fact of any future, more ambitious project beyond these. It is a key to giving our users a unique resource for exploring new physics.

In FY 81 we will call on all divisions and sections of the Laboratory to assist in Saver-related problems. This

- (1) Construction of the Energy Saver
- (2) Operation of the 400-GeV program
- (3) Preparation for Fixed Target, 1000 GeV Physics (Tevatron II)
- (4) Preparation for Colliding Beams of protons and anti-protons (Tevatron I).

Tevatron II:

The planning for 1000 GeV beams has culminated in a book which has been submitted to the DOE. A set of priorities has been endorsed by our PAC and we continue to generate new ideas and new scientific prospects by workshops and summer studies. Some head start on all of this has been going on as we upgrade the 400 GeV program in small construction packages (as everyone can see in front of the High Rise).

Tevatron I:

This is limping along, being held back by a shortage of R & D funds - generated principally by more urgent Saver problems. Nevertheless, significant progress has been made partially due to the collaborative efforts of our colleagues at LBL, Wisconsin, Argonne and Novosibirsk for which we are thankful. We have achieved stochastic cooling in the cooling ring, work is proceeding on a demonstration of electron cooling, and on an extracted beam for \bar{p} production. The associated colliding detector group is firming up a good design. In addition an overall design for a colliding beam proton-antiproton facility exists and is being sharpened.

will conflict with their normal tasks and will clearly impact on our capability relative to the 400-GeV program. Nevertheless, the capability of carrying on a reduced 400-GeV program is extremely important. People with skills and expertise in such diverse groups as, for example, the Booster group, the Neutrino Lab, the 15' Bubble Chamber or Research Services may be asked to take on Saver-related projects and to carry these out with the same love and dedication as they put on their own specialities. This is because the future of Fermilab hinges on

this plan. We must also be able to demonstrate the technical adaptability to return to the 400-GeV activities when these are called for and make them work. This will be the most difficult challenge for many of us at Fermilab in the next two years! If we survive the dangers of schizophrenia and carry it off we will be the pre-eminent laboratory in the world. This is the only way we can overcome the funding handicaps generated by having our peak activity coincide with a national fiscal crisis. I hope we are good enough to meet this challenge.

BOORSTIN TO DISCUSS DARWIN'S TYRANNY HERE

Dr. Daniel J. Boorstin, librarian of Congress, will give the first Science and Human Values lecture in the 1980-81 series, Oct. 3.

Free and open to the public, his talk on "Tyranny of Darwin" will begin at 8 p.m. in the Central Laboratory auditorium. Although the lecture is free, admission is by ticket. They may be obtained at the ticket sales desk in the atrium or reserved by calling Ext. 3353.

* * * * *

COLLOQUIUM SPEAKER

M. Tigner of Cornell University will speak about "Cornell's New e+e- Machine" at the Physics Colloquium Sept. 17. The talk will begin at 4 p.m. in the Central Laboratory auditorium.

The colloquia are presented each Wednesday by the Fermilab Physics Colloquium Committee and are open to all interested people. Their purpose is to bring Fermilab scientists and users up-to-date information about a variety of topics, not all necessarily related to high energy physics.

* * * * *

CHEZ LEON RESERVATIONS

Beginning Tuesday, September 16, reservations for Chez Leon should be called to Ext. 3646, the Fermilab cafeteria. Chez Leon will be open as usual while Chef Tita Jensen is on maternity leave.

* * * * *

BIRTH



* * * * *

ARTS WEEK PROMISES ENTICING EXHIBIT OF WORK BY EMPLOYEES

The Planning Committee for the Fermilab Arts Week celebration is looking for employees and their families who will show off their finest arts and crafts during an exhibit Oct. 4-11 in the Central Laboratory atrium.

An application for exhibit space has been included with this issue of FERMINEWS.

Planning Committee members include Jeff Appel, Nancy Carrigan, Saundra Cox, Ruth Ganchiff, Dave Hanssen, Margaret Pearson, Jose Poces and Pat Yost. For additional information, call Yost at Ext. 4365.

The event is sponsored by the Director's Office and is part of Illinois Arts Week, a statewide festival in recognition of the arts.

CAFETERIA GETS NO SMOKING TABLES

The cafeteria in the Central Laboratory now has no smoking tables.

They are located just west of the stairs that lead to the second floor exhibit area. The tables were set aside "in response to numerous requests for no smoking tables," said John Barry, head of accommodations.

"As a gesture of courtesy to others, please observe the no smoking restrictions when you are at the designated tables," said Barry.

* * * * *

SEEK CANOE COMPETITORS

Canoeists with a taste for competition and a hunger for victory are being sought for Fermilab's seventh annual canoe race.

The event will begin at 11 a.m. on Sept. 20 at F-4 on the Main Ring. The race is open to all Fermilab employees, users, their families (age 14 and older). Contact Larry Allen, Ext. 3721, the race organizer, or Helen McCulloch, Ext. 3126. Competing teams must be registered no later than Sept. 15.

* * * * *