

FERMILAB NEWS

 Fermi National Accelerator Laboratory

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A MESSAGE FROM THE DIRECTOR

The Energy Saver Project has reached a phase in which it is now appropriate to plan for the operation of the Tevatron, an accelerator complex starting at the Cockcroft-Walton and proceeding through the Linac, Booster, Main Ring and Energy Doubler to the Switchyard.

To this end, effective July 1, there is a new Accelerator Division which combines Saver and Accelerator into a single division responsible for the completion of the Energy Saver, the operation of the 400 GeV program in fiscal year 1982, and the commissioning and operation of the Energy Saver by extracting beam for fixed target research and as a storage ring for colliding beam experiments. Rich Orr will be the head of the new Accelerator Division and Helen Edwards will be Deputy Head.

Tevatron II is the program of creating capability for fixed target research at 1 TeV. TeV II will remain administratively in the Research Division but will report to the Directorate. The Head is

Tom Kirk. Design and construction of the new Switchyard System will be the responsibility of TeV II. Operational responsibility will remain with the Accelerator Division. Compatibility of controls, etc., will clearly require close coordination. To this end Roger Dixon of the Accelerator Division will be Deputy Head of TeV II.

The TeV I group will be reorganized into a new section: Antiproton Source Project, reporting to the Director and charged with the responsibility of creating an anti-proton source which will permit proton-antiproton collisions in the Doubler at high luminosity and at a combined energy of close to 2 TeV. The head is Don Young, and John Peoples is Deputy Head. This action will bring the organization into a format consistent with the TeV I (Department of Energy) Management Plan. Here again close liaison is required with the Accelerator Division and with the Colliding Detector Facility in the Research Division.

Leon Lederman

IT'S TIME TO PLAN FOR FALL COURSES

It's time for employees to begin making their back-to-school plans, said Ruth Christ of the Fermilab Training Office.

The majority of colleges in this area begin their classes in late August or early September, she added. "Our office has been receiving new catalogues and fall class schedules as soon as they are made available by the colleges. We strongly recommend early registration for courses that have laboratories with limited facilities. If you plan to take a series of courses--for example, beginning electronics through advanced--we recommend you take the first course in the fall since many of these

basic courses are not taught in the winter or spring terms."

Christ reminded employees about the Laboratory's tuition reimbursement program that "will reimburse full-time employees for courses and degree programs that are related to the employee's current job or to a job that the employee is seeking." Reimbursement for successfully completed work covers 100 percent of the tuition, fees and required books. There is an upper limit, however, of 10 credit hours each term. Tuition reimbursement forms are available in the Training Office, WH15E, ext. 4367.

THINKING ABOUT A LOCK?

This is a story with a message. If you read it, you might end up saving your department and Fermilab money, time and frustration.

The subject is locks and keys. Many of you already know the Laboratory is in the midst of an extensive program to tighten its security. Central to this theme is a series of seminars on security being conducted by security personnel. One of the topics covered is how to secure equipment with the proper locks.

Bob Armstrong, head of Security, emphasized that employees should not get the idea that just any lock will do. Don't go to your neighborhood hardware store and purchase a lock. Most likely, it will not meet the stringent requirements of the Laboratory, Armstrong said. Security most likely will make you replace it with one meeting the guidelines, and that could mean a loss of time and money for the Laboratory.

So if you want to secure your equipment and have questions about the best way to do it, give the Security Office a call at ext. 3494. The staff there will work



Earl Shaffer (right) and Robert Johnson do their thing.

closely with you in helping you choose the optimum lock and key system for your needs.

The initial step to get the work done is to fill out a lock and key form. These may be obtained from most secretaries, but if a form is not immediately available, one may be obtained from Eleanor LaFountain, ext. 4079, WH4S. After the form has been appropriately processed and approved, it

BARDEEN TO HEAD THEORETICAL PHYSICS

William A. Bardeen has been named acting head of the Fermilab Theoretical Physics Department. His appointment became effective July 1 and will continue for one year.

Chris Quigg, who had headed the Department since July 1977, is taking a one-year leave-of-absence. He will be a visiting professor in the Laboratory for Theoretical Physics of the Ecole Normale Supérieure, Paris.

At present, the Department has 14 staff members, of whom six are research associates. Approximately 200 physicists visit and work within the group for various periods throughout each year. The Department currently is experiencing a steady growth and has lofty aspirations for its future, Bardeen said.

He has been a physicist with Fermilab since 1975. In 1977, he was a visitor with the Max Planck Institute for Physics in Munich. Before joining the Laboratory, he was an associate professor at Stanford University.

The University of Minnesota awarded

Bardeen his Ph.D. degree in 1968. His advisor was S. G. Gasiorowicz. Throughout his career, Bardeen has been recognized with various honors which include the von Humboldt Foundation Award for senior U.S. scientists in 1977 and the Alfred P. Sloan Foundation Fellowship from 1971 to 1974.

He also has visited and studied at CERN, the Institute for Advanced Study in Princeton, N.J., and the Institute for Theoretical Physics at the State University of New York at Stony Brook.

His broad area of interest is quantum field theory. He has published numerous important technical articles covering a wide range of topics.

When asked what he believes the mission of the Theoretical Physics Department is, Bardeen replied, "Our mission is to develop a dynamic group of physicists including resident theorists and visitors who will probe the frontiers of elementary particle theory. Our program serves to complement the extensive experimental research program at Fermilab."

He and his wife, Marge, reside in Glen Ellyn and have two children, Chuck and Karen.

is forwarded to the locksmith. Records are kept in the computer of all people who have keys.

There's another dimension to this story, and it comes by the name of Earl Shaffer, the Laboratory's locksmith. Earl works closely with the Security Office as they go about together upgrading the lock systems throughout the Laboratory and improving the records that tell who has keys to what locks. Earl is the man you'll most likely see putting in new locks or repairing already installed ones.

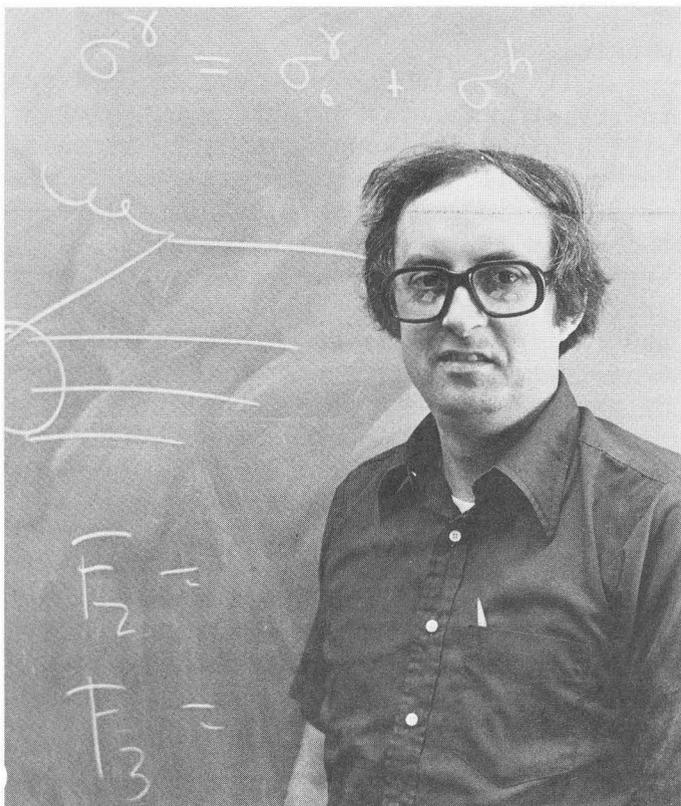
He's been with Fermilab since November 1973. When he first came here, he worked with Village Services for about a year, then studied under Nick Smith, Fermilab's locksmith in those days. After Nick retired, Earl took over the demanding job.

And, indeed, the job frequently is demanding. As Earl points out, he's only one man and he can't be everywhere at the same time. So he asks your patience, because he'll eventually get around to you. Anyone who needs a lock repaired should call the control center at ext. 3434. The number for the Lock Shop at Site 38 is ext. 4357.

When it comes to dollars and sense, Earl said the Laboratory purchases its locks in volume. They are an industrial type and most likely better and less expensive than the ones that can be picked up in stores. Overall, the Laboratory is upgrading locks that have been around for many years and at the same time standardizing on the types of locks that are being used throughout the site, Earl explained. He held up and jingled a large key ring that must have had about 50 keys on it. He'd like to reduce the number of keys he has to carry around.

While his job may be demanding--he's been working some 10-hour days recently--Earl's job certainly has a built-in variety. "You name it, and I've done it," he said. He's even done some work on safes, but noted he is not an expert at that yet as he is with other types of locks. By the way, if you accidentally were to lock your keys in your car, care to guess who could open the door for you? But don't make a habit of it, Earl has far more important things to do.

Robert Johnson, a carpenter, has been assisting Earl for about four years; he's been with Fermilab six years.



William Bardeen

QUESTIONNAIRE TO HELP LAB PLAN EDUCATION PROGRAM

By this time, all employees should have received an education and training questionnaire prepared by the Fermilab Training Office.

Ruth Christ of the office has requested employees to fill out the questionnaire and return it to her at mail station 124 by July 22. "Where enough interest exists and facilities are available, we will make every effort to accommodate the employees' course preferences on site," she said. "I'm particularly interested in hearing from those persons who would like to teach a class. We have many potential teachers, yet it is difficult for us to identify them. So, will you please let us know."

Employees who wish to discuss their plans, who have questions or who would like to teach a course, should contact Christ at ext. 3793. Her office is WH15E.

(See related story on page 1.)

CALLING ALL VOLUNTEERS

The NALREC family picnic July 25 needs you to help make it a success. All you have to do is spend a little time there helping out in one of the many activities. Or you may wish to bake a cake, cupcakes, cookies, brownies or a fruit pie for the cake walks. Just call Nancy Shanahan, ext 4659. She'll tell you more and sign you up.

A special treat of this picnic will be the appearance of attractive Leslie Renfrow, 1981 Miss Illinois-USA.

One of the more exciting activities will be swimming races for children and adults. To participate in one of these, sign up ahead of time by contacting the Recreation Office at ext. 3126. The races are for competitors age 5 and up. No matter how old you are--even a senior

citizen--there's a race you can compete in. All competitors will get a ribbon, and the first place winners will be awarded blue ribbons. The races will begin at 2 p.m.

At the picnic--for you and your family--you can feast on a delicious meal of hot dog, chips and cole slaw for 50 cents, and a dessert of soft drinks, cotton candy, ice cones or pop corn for a slight additional charge. A variety of carnival games and other activities will help fill what already promises to be a busy afternoon for comers. Among these will be an air show coordinated by the Fermilab Barnstormers and an all-star baseball game.

Everything happens at the grounds near the Barn and pool.

FERMILAB OFFERS FAMILY TOUR

Fermilab will offer a conducted tour of Wilson Hall and nearby accelerator areas July 17. The tour will begin at 1:30 p.m. in the atrium by the reception desk.

This tour is specifically for people and their families who have not been able to participate in a tour because their group size was too small or other matters kept them away. However, those planning to come should first make reservations with Fred Ullrich, tour director, by calling him at ext. 3351.

CHEZ LEON MENUS

July 22, 12:30 p.m., \$6--*Spaghetti with pesto, cornish hens with garlic cloves, steamed fresh zucchini with lemon sauce, tomato salad, granita de cafe.*

July 23, 7 p.m., \$10--*Avocado stuffed with shrimp, marinated loin lamb chops, tomatoes stuffed with spinach souffle, wild rice, watercress bibb salad, peach cardinale.*

July 24, 7 p.m., \$10--*Cantonese egg rolls, tropical fruit salad, "King and Queen of Sheba" (strip steak--plus "?"), French baked potatoes, baked Alaska.*

For reservations, call ext. 3082.

A CHANGE OF PACE FOR PICNIC FUN RUN

Fermilab's third annual picnic fun run will be held this time in Batavia as part of the city's second annual "Windmill Whirl" run. Stepoff time will be 8 a.m. on July 25--the day of Fermilab's family picnic.

All Fermilab runners are encouraged to register for the Batavia run, which will begin at Wilson and Lincoln streets. One run will be 10 kilometers long for more experienced runners. A fun run of two miles is for beginning runners. The best competitors in the various categories in the Windmill Whirl will earn prizes, and the top runners from the Fermilab contingent will be given special awards by the Fermilab Running Club.

Laboratory employees and their family members and friends who want to pre-register for either run may obtain entry blanks from Pat McDonald, M.S. 115, ext. 3391, or Marv Warner, M.S. 214, ext. 4430. "In order to ease the logistics problems, we have decided to cut off registration at 4:30 p.m. July 23," Warner said.

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