

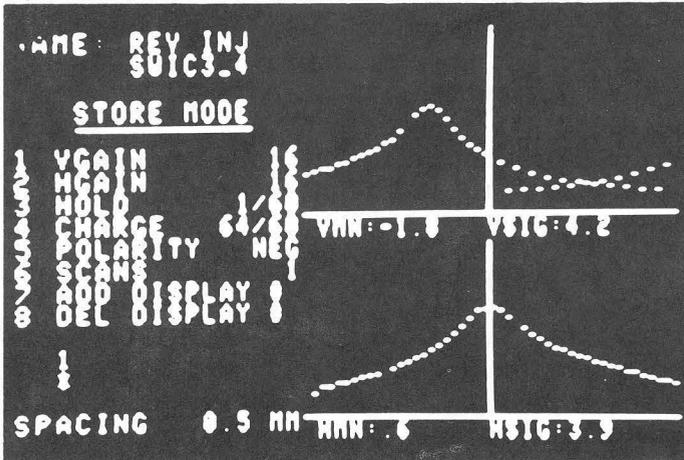
FERMILAB NEWS

Fermi National Accelerator Laboratory

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Horizontal and vertical profile of the beam recorded by a detector at F-25. The detector is located so it can see the beam just before it leaves the Main Ring tunnel.

Showing their enthusiasm for the success in the early morning hours of June 7 are (from left, seated) Elvin Harms, Bob Mau, Jim Crisp, Carlos Hojvat and Arlene Lennox. Standing behind them, from left, are Debra Baddorf, Stan Pruss, Geraldine Royal and Mike Utes. The photograph was taken in the Main Control Room.

ANOTHER MILESTONE FOR COLLIDING BEAMS TEAM

Scientists at Fermilab for the first time have successfully extracted an 80 GeV proton beam from the Main Ring and transported it towards the antiproton target hall.

This is an important step forward, because the proton beam eventually will be used to produce the antiprotons for the colliding proton and antiproton beams. Center-of-mass energies of up to 2 TeV (trillion electron volts) are expected when protons collide headon with antiprotons, thus giving physicists an opportunity to answer questions about elementary particles that lower energies could not solve. A more immediate and practical application of the 80 GeV extracted beam is that it will be used for research and development studies on targets, explained Carlos Hojvat, the physicist who is heading this project within the Colliding Beams group.

Success came in the early morning hours of June 7, as Hojvat and other scientists gathered in the Main Control Room to follow the progress of their work. During the morning before (June 6), beam was extracted from the Main Ring at F-17, and late that evening was transported through a 680-foot-long transport line to location F-25. This is where the beam leaves the Main Ring tunnel

and travels toward the new antiproton target area. The beam line and associated equipment also are part of the reverse injection line that eventually will inject accumulated antiprotons into the Main Ring for transfer into the Energy Saver. These antiprotons will move in a direction opposite to the protons. Each beam will have energy levels close to 1 TeV.

The original concept for the transport line was conceived by D. Edwards of the Energy Saver Division, G. Chadwick of the Stanford Linear Accelerator Center and Bruce Chrisman of the Business Services Section. The final design and installation was carried out with help from scientists and students from the University of Wisconsin and personnel from the Argonne National Laboratory, Hojvat said.

He also praised the efforts of many supporting groups and individuals including the Accelerator Division's Mechanical Support Group under Max Palmer; the Conventional Mechanical Devices Group under George Biallas; and the Alignment Group of Research Services. Hojvat also noted (Continued on page 2)

COLLIDING BEAMS MILESTONE

continued from page 1

the redesigning of the EPB quadrupoles by the late Will Hanson and their fabrication by the Magnet Facility.

"The Accelerator Division's Controls Group played a major role in making the system operational as did the Accelerator Operations Group under Bob Mau. This group not only operated the accelerator but also participated in the studies," Hojvat said.

"Unfortunately, there is never sufficient space to acknowledge everyone individually, but every member of our group would like to extend his thanks for the help we received."

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A SPECIAL MESSAGE

During the summer months, there are many picnics and activities on site. To the casual observer, these recreational events could be misinterpreted as a routine part of the Laboratory work day.

To avoid any misunderstandings, you are reminded that the Laboratory has a policy against employees bringing or consuming alcoholic beverages on site. Exceptions for special events, such as parties at the Barn, are approved in advance by the Director.

All group picnics and parties using Laboratory facilities are to be scheduled through the Accommodations Office. Violation of the Laboratory's policy on alcoholic beverages is considered cause for serious disciplinary action.

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IT'S A SCORCHER

The Fermi Music Club enthusiastically presents a dance that it is billing as "Hotter Than July."

It'll begin at 9 p.m. on July 11 and continue until 1 the next morning at the Village Barn. Music will be by "Music Man," a D.J. Beverages will be available. Admission is by advance ticket sale only.

To get your tickets and for more information contact Joyce Curry, ext.4632; Theo Gordon, 4455; Marilyn Bailey, 3282; Larry Tate, 3141; Johnny Gerald's, 3259; Ron Davis, 3077; or Ed Justice, 4284.

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LIBRARY HAS TRINITY SCRIPT

The Fermilab Library now has the script for the highly acclaimed movie about J. Robert Oppenheimer - "The Day After Trinity."

A production of Jon Else in association with KTEH-TV (channel 54), San Jose, Ca., the documentary has been broadcast nationally over the Public Broadcasting Service and has been shown at Fermilab. The soft-cover booklet contains the word-for-word script from the opening "In August of 1945, the city of Hiroshima was destroyed in about nine seconds by a single atomic bomb," to the final statement by Oppenheimer:

"We knew the world would not be the same. A few people laughed. A few people cried. Most people were silent. I remembered the line from the Hindu Scripture, the Bhagavad Gita. Vishnu is trying to persuade the prince that he should do his duty, and to impress him, takes on his multi-armed form and says: 'Now I am become death, the destroyer of worlds.'

"I suppose we all thought that, one way or another."

The movie also contains a number of deep insights by Robert R. Wilson, director emeritus of Fermilab. The film traces Oppenheimer's career from his youth, through his leadership in developing the first atomic bomb, to his final national disgrace at being called a security risk by the government. It's a story about the inspired Oppenheimer and about the deposed and embittered Oppenheimer.

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DEKE ADVANCES TO PRESIDENT

Bonnie Sue Deke has advanced to the position of president of the Hinsdale Business and Professional Women's Club.

A member of the club for 14 years, she moves up from first vice president and program chairman. Deke is an oncology nurse with the Neutron Therapy Facility at Fermilab. She's been with the Laboratory for a year.

She earned her licensed practical nursing degree from the LPN School of Nursing at Hinsdale Sanitarium and Hospital. A native of Hinsdale, she came to Fermilab from Loyola University Medical Center.

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WATCH OUT FOR POISON IVY

John Smalley of the Safety Section has a message for all employees and users on how to have a more enjoyable summer and fall on the job, on vacation and at their homes.

It's simple: stay away from poison ivy. "You should be careful which plants you touch," John emphasized. "An employee recently contracted dermatitis from picking up poison ivy branches in a wooded area of the Laboratory. The poison is the milky sap found in the roots, stems, leaves and berries of the plant."

John also said that frequently "there is no reaction to poison ivy the very first time you are exposed to it. But a later exposure can produce an acute, intensely itching, blisterlike eruption. One attack of poison ivy does not give immunity to later attacks, but rather an increased susceptibility. Some people are so sensitive to poison ivy, that they react to such remote contact as the smoke from burning plants, contact with pets that have brushed against plants, or similarly contaminated to tools and clothing."

If you have any questions about poison ivy or any other questions about safety for that matter, call the Safety Section hot line at Ext. 4646.

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Poison Ivy (*Toxicodendron radicans*)

SIMON IMPORTANT CONTRIBUTOR TO LABORATORY'S PROGRESS

John P. Simon, 61, who died June 6, was a highly respected engineer who made major contributions to the Laboratory during his long career here.



John Simon

At the time of his death, he was an engineer with the Neutrino Department in the Research Division. He joined the Laboratory in January 1969 and had worked with the Neutrino Department since April 1973. Simon had recently undergone open heart bypass surgery and was convalescing at his home when he suffered a fatal heart attack.

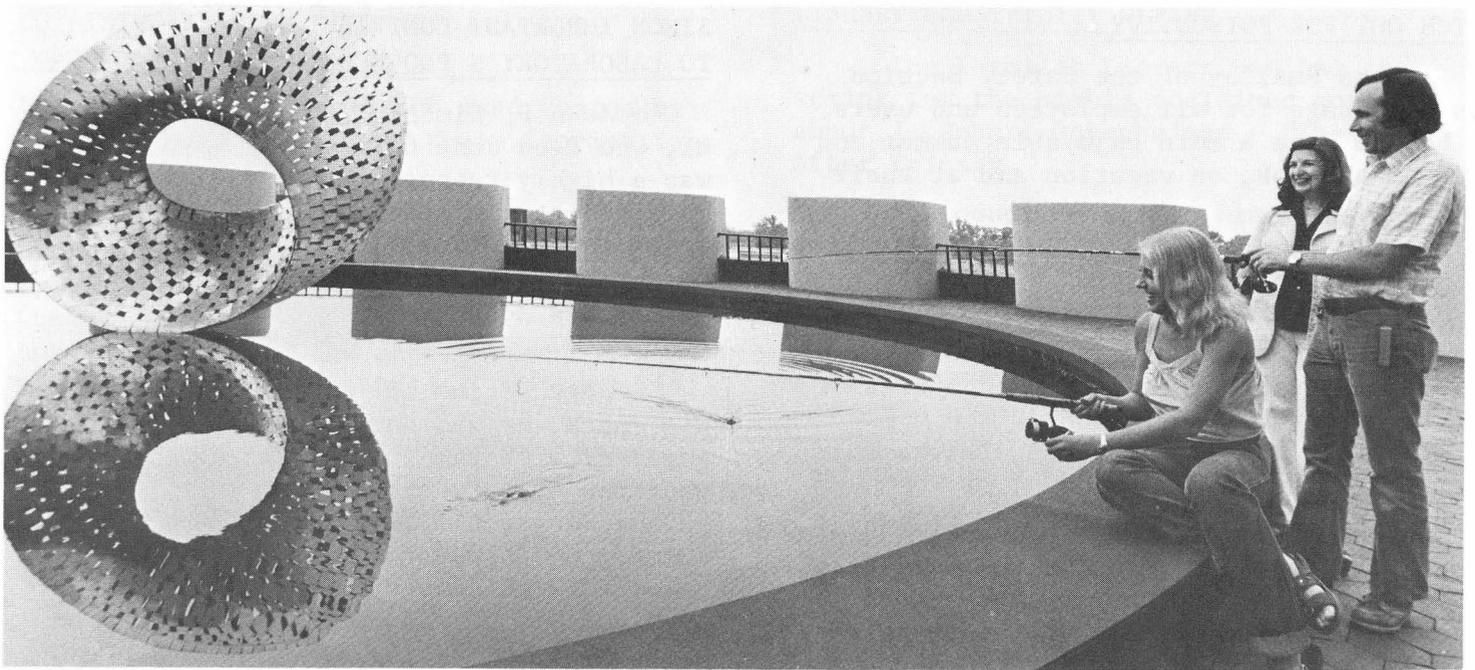
Ray Stefanski, acting head of the Neutrino Department and a friend of Simon, reflected on him as a man and as an engineer. "We remember John for his ideals, his mastery of a broad base of engineering knowledge and his tireless application of that knowledge to help the Laboratory develop. He served Fermilab well during its embryonic years. He gave us a sense of stability during a time of transition; he helped us set our goals and achieve our ambitions.

"John will perhaps be best remembered for his work with the remote handling facility. He always had been devoted to developing techniques that would minimize our exposure to radioactive machines and materials. We owe a great deal to him for helping us maintain a record of low personnel exposure to residual activity."

Jack Lindberg, another close friend of Simon, recalls that "John started his career in remote handling at the Argonne National Laboratory."

In talking about Simon, Stefanski went on to add, "He also helped us develop some of our neutrino beams. He had primary engineering responsibility for the sign selected bare target beam. He also was involved in much of the work that went into the narrow band and horn beams. In all of his work, he always impressed us with his dedication to sound engineering principles."

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There probably aren't any fish in there, but members of the NALREC Family Fishing Derby Committee are giving it a heroic try. From the left are Kim Chans, Mary Fray and Howard Casebolt. The derby, for all Fermilab employees and users as well as their families, will be held June 27 from 6 a.m. to 7 p.m. at the accelerator ponds. Access to the

fishing sites will be through the B0 gate only. The competitor who catches the largest fish--not counting carp--will win a trophy from NALREC. For additional details, contact any of the committee members. Mary can be reached at ext. 3711 and Howard at 4437. Admission will be 50¢. Food will be available in the cafeteria, WH

NEXT MOVIES

"Craig's Wife" and "Dance Girl, Dance" will be the double feature shown next by the Fermilab International Film Society on June 26.

The movies will start at 8 p.m. in Wilson Hall auditorium. Tickets are \$2 each for adults and 50 cents for children age 12 and younger. No ratings are available. In black and white, these films are the work of director Dorothy Arzner, one of the few women directors who worked in Hollywood during the 1930's.

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TENNIS TIDBIT

Tennis enthusiasts--here's your chance to show what you can do. The annual Fermilab tennis tournament begins the week of July 6. Competition will be divided into A and B divisions. And if there's enough interest, a mixed doubles competition will be organized. Sign up now by contacting the Recreation Office, WH1E, ext. 3126, or Mike May, 4948.

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CHEZ LEON MENUS

Wednesday, July 1, 1981 - 12:30 - \$6.00

- Cold cucumber soup
- Seafood salad
- Chocolate mousse

Thursday, July 2, 1981 - 7:00 - \$10.00

- Stuffed mushroom caps
- Roast filet of beef w/Madeira sauce
- French green beans
- Stuffed tomatoes a la Provencale
- Marinated salad
- Homemade ice cream w/fresh berries

For reservations, call Ext. 3082

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NOTICE

The cafeteria will be closed July 3,4 and 5. In addition, in an attempt to reduce costs, the evening meal hour will be from 5:00 to 6:00 p.m., Monday through Friday, effective July 6. Saturday and Sunday evening meal service will be eliminated effective July 11, 1981.