

The Village Chief



fermi national accelerator laboratory

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VBA TEN YEARS AWAY, WILSON FEELS

Another round of "regional" accelerators is likely before a Very Big Accelerator (or VBA) can be built as a world project, Dr. Robert Wilson, Fermilab Director, believes. At a recent seminar at the Laboratory Wilson described the meeting which he attended recently of the International Study Group on Future Accelerators and High Energy Physics.

Wilson said the study group delineated five geographical regions in its early discussions of prospects for world-wide participation in a single institution. The regions are eastern Europe, western Europe, Japan, the United States, and the U.S.S.R. Each of the regions is currently entertaining proposals for accelerators to be built within the regions.

Earlier discussions, held in New Orleans in early 1975, at CERN in the fall of 1975, and last May at Serpukhov and Moscow in the Soviet Union, defined a VBA as one of two possible machines: a fixed target 10,000 BeV (10 TeV) accelerator, or an electron-electron storage ring with 100 BeV energy in each ring.

The proposals presented to the May meeting of the VBA study group included plans for a 2 to 5 TeV accelerator in the Soviet Union. "Also exciting," according to Dr. Wilson, was a Soviet suggestion for an addition to the facility that would utilize "freezer" storage of a 5 TeV anti-protons which could then collide with 5 TeV protons.

Dr. Wilson presented a design for a 10 TeV accelerator for the VBA committee's consideration. He said it called for an extrapolated version of the present Fermilab accelerator system. Wilson's example would require 10,000 20-foot superconducting magnets; have a radius of ten kilometers, and operate on a 30-second cycle.

Dr. Wilson suggests that such an accelerator could be built in conduit-like tubes, rather than in a tunnel. For assembly into the conduits the magnets would be put on rails and then inserted into the tubes. Laser equipment would also be inserted on rails, to achieve the precise alignment necessary.

These tubes might be similar to the present target tube on the Fermilab Neutrino Line. Four such tubes would permit production of four different circulating beams for intersecting collisions. Dr. Wilson pointed out that if the VBA was built in desert country the tubes could be placed in a trench.

The VBA study group referred further considerations to the International Union of Pure and Applied Physics (IUPAP), to which most science-oriented nations belong. Some of the next steps may include the design of the machine, considerations of locations, and methods of financing. Dr. Wilson feels that a ten-year time scale may be required to achieve the many diverse agreements necessary to begin the VBA.

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REGISTRATION DATES FOR AREA COLLEGES

Fermilab reimburses employees for tuition, mandatory fees and required books for course-work or degree programs which are relevant to the job an employee currently holds or a job to which the person can reasonably aspire. In the period from July, 1975 to June 1976 more than 200 Fermilab employees took 525 courses at 41 institutions and Fermilab spent \$75,000 on this benefit alone.

To apply for tuition reimbursement, a "Tuition Support Request" form must be completed by the employee, indicating the courses, school, cost, and other factors. This form must be approved by the employee's supervisor. It should then be forwarded to Ruth Thorson (CL-6E). If a tuition advance is requested you should allow two to five days for the check (made out to the individual and to the institution) to be mailed to the employee. At the end of a term, the student must submit copies of grades, receipts for tuition and receipts for books, and evidence of having satisfactorily completed the course(s). Course work must be satisfactorily completed to be eligible for tuition reimbursement.

Based on past experience, employees might be interested in the fall schedules of the following institutions:

<u>College</u>	<u>Classes Start</u>	<u>Registration</u>
Aurora College	September 7	Sept. 2, 3, 4
College of DuPage	September 20	Aug. 31, Sept. 1, 2, 3, 7, 8
Elgin Community College	August 23	Currently (until Aug. 23)
Illinois Institute of Technology	August 30	Aug. 24, 26 (for Chicago campus)
Joliet Junior College	August 19	Aug. 17-18
Midwest College of Engineering	September 24	Sept. 22
Northern Illinois University	August 23	Aug. 20-21
University of Chicago	September 27	Sept. 22 (undergrad) Sept. 23 (grad)
Waubonsee Community College	August 23	Aug. 19-20

Many colleges accept mail registration up to the time of general registration on campus.

The community colleges offer an especially large variety of courses at flexible times. An increasing number of courses are being offered in time slots which are determined by the student. Some courses are offered Saturdays and a few are held on Sunday.

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FALL FATAL TO MAN HERE

Work crews on the EJ & E railroad east of the Fermilab site saw a man climb the power poles in the Commonwealth Edison easement that runs north and south along the east boundary of the site at 7:30 a.m., Tuesday, July 20th. The man fell from the power pole to the ground below and was severely injured, including burns to his body. The railroad crews summoned help and after assistance at the scene by the Fermilab Fire Department, the West Chicago ambulance took the injured man to Central DuPage Hospital where he died later in the day.

There was no identification on the man at the time of the accident, but he was identified the next day by the DuPage County Sheriff as a resident of Downers Grove who had walked away from a Maywood treatment center, apparently to contact friends in Warrenville.

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SPEAKING OF VACATIONS

The wilderness of Manitoba, Canada holds one more adventure each year for those who travel to that beautiful isolated country to fish. Jim Thompson (Neutrino), Jim Walton (Accelerator), Don Mendenhall and Harry Howe (formerly Accelerator), and Lee Benson (Accelerator) packed supplies in their converted school bus and headed to the Flin Flon area of Manitoba on their trip last Spring. It was Thompson's tenth such trip. They split into two groups for the last lap of the trip, one going in by plane to their Big Island destination. The other group portaged 25 tough miles up the Pine Root River.

The fishing ---- aaah!! Five to 24# northerns; five to ten pound trout, 1-5# walleyes. Each man averaged thirty fish each day. It was not unusual to have three men cast and catch simultaneously.

The fisherman's utopia goes on from daybreak until midnight in this country above the 54th parallel. And then, the spectacular northern lights display comes on to entertain the sportsmen.

The fishing thrills and the splendor of the outdoors overshadow completely the problems of logistics. Bus bogged in mud, stalked by timber wolves, slowed by mechanical problems...the men are still victorious over the wilderness.

And ready for the next trip...

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...Manitoba campsite: (L-R) Harry Howe, Jim Walton, Don Mendenhall, Lee Benson...



...Top left, Jim Walton, 24# northern; right, Jim Thompson, his catch of northerns and walleyes. Bottom, Harry Howe (L), Lee Benson, more northerns...

GOLF OUTING WINNERS ANNOUNCED

The Fermilab Golf League's mid-season play day on July 18 turned out to be a nice outing with beautiful weather. There was a tie for first place between Leo Pooley (Meson) and Bud Stanley (Facilities Operations). Also, there was a 3-way tie for third place between Bea Hinterberger (Technical Services), Claude Dickens (ERDA Batavia Area Office) and Bill Bielefeldt (Accelerator Support).

The Golf League's final outing will be held Saturday, September 18 at Fox Valley. Details will be published later in the season.

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!!! VOLUNTEERS NEEDED !!!

**NALREC Family Picnic
Sunday, August 15**

NALREC is asking for your help! Please fill out the form below if you are planning to attend and return to Mary Luba, CL-10W by Friday, August 6. Volunteers are needed for distributing tickets, blowing up balloons, starting races, helping with food, etc. Please indicate on form if you can help.

Four free tickets will be given to each family member to be used for food and drink items. Additional tickets will be available at the picnic at 10¢ per ticket. Ride tickets are to be purchased at the picnic at 25¢ per ticket. In order to facilitate distribution of tickets, please complete and return this form by Friday, August 6, to Mary Luba, CL-10W. Tickets will be sent to you prior to the picnic.

Name _____ Lab Address _____ Badge # _____

No. of people in family including yourself attending picnic _____.

I will volunteer _____.

If you have any questions, please contact Liz Foster, Ext. 3396 or Mary Luba, Ext. 3201.

LAST CHANCE FOR PRESERVATION HALL TICKETS

A few tickets remain for the concert by the Preservation Hall Jazz Band on Saturday, August 7 at 8:30 p.m. in the Central Laboratory Auditorium. Direct from New Orleans, Preservation Hall represents the best of jazz style. All seats are reserved. See the Guest Office, CL-1W immediately. Tickets are \$5.00 each.

EMPLOYEE NEWS AND NOTES

Upon joining the Laboratory, every employee receives a Medical Benefits Identification card. The card contains information on how to file a claim and will identify you as a participant in the Laboratory group medical plan at hospitals. The card also explains "TO HOSPITAL OR PHYSICIAN" general coverage eligibility and billing instructions. If you have misplaced your card, a new one may be obtained from the Personnel Records Office, CL-6E.

CLASSIFIED ADS

LOST - Black brief case containing manuscripts, papers and files. Belongs to visitor in Theory Department. Please return to Ben Lee, CL-3E.

RIDE WANTED - to and from Fermilab and West Chicago. Will pay. From 8 a.m. to 4:30 p.m. Call Ron Lesniak, 231-6412.

FOR SALE - 1969 VW Beetle in good condition. Call 466-4962 after 6 p.m.

WANTED - All Fermilab people interested in forming scuba diving club. Contact D. Brazzale, Ext. 3525.

FOR SALE - 4 bedroom Ranch, full bsmt., central air, 2½ car garage, + extras, near Randall Rd., \$38,000. Call Ext. 3090 or 859-3049.

FOR SALE - Girl's 24" Schwinn bike. Call W. Kautz, Ext. 4169.

FOR SALE - Ski package, Northland skis (195 cm), Munari boots (sz. 10½), poles, etc. \$75. Call Nathan Sands, Ext. 3369.

FOR SALE - Portable dishwasher, Sears, avocado, \$100. Call Ext. 3799.

FOR SALE - Ten-speed bicycle, Gitane "Tour de France," 23½" Reynolds, 531 double-butted frame, sew-ups, extra parts, \$225. Curtis, Ext. 4411 or 879-2974.

WANTED - Child's bicycle (girl's) 20", good condition, call Ext. 3589.