

The Village Courier



fermi national accelerator laboratory

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NEW ION SOURCE COMING FOR ACCELERATOR

An important modification of the Fermilab accelerator is underway in the construction now going on at the north end of the linear accelerator building. The two-fold project includes installation of a second pre-accelerator (the "Cockcroft-Walton") as well as an addition to the linear accelerator building to provide new space for about 45 Accelerator Division personnel.

"The purpose of the new pre-accelerator is to end up with higher intensity for the high energy physics program," according to Curt Owen, head of the Linac Group. The pre-accelerator is the first of the four stages of acceleration in the Fermilab accelerator system. It is the source of the protons that form the beam used by experimenters. The new Cockcroft-Walton will accelerate negative hydrogen ions through the linac for injection into the Booster Accelerator. (The present Cockcroft-Walton generates positive ion, protons.) At the point of injection into the Booster the negative ions will strike a thin foil, removing the electrons and leaving protons for the Booster to accelerate.

The new installation utilizes a Cockcroft-Walton purchased by the Laboratory some years ago as a spare. It has been in operation in the Village for about a year as a test stand.

In the course of the continuing program to reach an intensity of 5×10^{13} protons per pulse in the main accelerator, this new mode has been developed by the Accelerator Division. For a number of very complicated technical reasons, this major step is seen as another important step toward the intensity goal. "It should be possible to produce a higher quality beam for the Booster, giving us more efficient operation at our present intensities and ultimately giving us higher intensities in the Main Ring," Owen states.

The additional work space for the Accelerator Division will permit electrical and electronic personnel of the Accelerator Division to work closer to the accelerator.

The construction project, expected to take about 11 months, is under the direction of Architectural Services. Jim Filliung is the Project Engineer. Several months will be necessary to bring the new generator into operation. Tests will begin in the summer of 1977.



C. Owen inspects new construction at Linac



C. Curtis, B. Merz work on accelerating column



G. Lee, D. Snee, R. Gorski prepare for move.



Cockcroft-Walton generator for new negative ion source.

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BUFFENMYER NAMED PRINCIPAL OMBUDSMAN

Jim Buffenmyer becomes Principal Ombudsman in the rotation of the position at the end of the first six months. Ernest Malamud has served as Principal Ombudsman in the first period; Buffenmyer began as Assistant.

Dr. R. Wilson has appointed John Barry, Executive Assistant in the Administrative Division to the Assistant Ombudsman position for the coming months. Barry has been at Fermilab since January 1969, coming from the University of Michigan where he was a business manager. He is a graduate of Northwestern University and one of the founders of the Society of Research Administrators.

The Ombudsman office is a place for Fermilab employees who seek help with problems and concerns that do not seem to them to be solvable through the obvious channels. The problems may be personal, they may be lab-related. In all cases the Ombudsman extends an understanding hand in looking for a solution.

"We've dealt with all phases of lab problems," Buffenmyer says. "It's obvious that we all need to be more sensitive to each other's feelings and needs. We're all fellow workers whether scientists, engineers, technicians, or in supporting services. When a fellow worker gives an idea, listen to him. It may be a good one. If you don't listen, he won't be supporting you and your projects when you need him."

The Ombudsmen's office hours are 11:00 a. m. to 1:00 p. m. on Tuesdays and Wednesdays. Their office is on the 8th floor of the Central Laboratory, the northeast side, next to the computer group secretaries. Buffenmyer may also be reached at Ext. 3555, Barry at Ext. 3648.

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...WHO'LL TOP THE PRENTICE-MARTIN WORLD RECORD of 53:23 set in the 1975 Main Ring Canoe Race? The Canadian experimenters have set a lively pace for their American colleagues for the past two years on the four-mile ponds inside the main accelerator. Registrations are being taken for the 1976 race to be run Saturday, October 2, at 11:00 a. m. Call Larry Allen, Ext. 3721, or Helen Ecker, Ext. 3126.

ILLINOIS ARCHITECTURE: A REVOLUTION ON THE PRAIRIE

"100 Years of Chicago Architecture" in the second floor lounge and "Chicago's Architects" in the Atrium are components of a vast statewide celebration called ILLINOIS ARCHITECTURE: A REVOLUTION ON THE PRAIRIE. The exhibits are sponsored by the Illinois Arts Council and the Illinois Bicentennial Commission, with support from the National Endowment for the Arts. The program has been designed to pay tribute to Illinois' unique contribution to world culture--her architecture.

Chicago's Architects

Chicago's relatively unknown buildings of the past and present are highlighted. These structures are frequently left out of the histories, but are of high quality and of far greater range than is generally attributed to Chicago. Forty architects are represented. The exhibit was organized by Laurence O. Booth, Stuart Cohen, Stanley Tigerman and Benjamin Weese.

100 Years of Chicago Architecture

Programs are available in the second floor lounge.

TESTING ON FOR SCHOLARSHIP APPLICANTS

Universities Research Association Inc. is in the process of working out arrangements for again offering college scholarships for sons and daughters of Fermilab employees who will enter college in the fall of 1977. Tentative plans include ten scholarships of up to \$1,200 per year. To be eligible to compete the student must be planning to enroll in the first year of a four-year program. Selection is based on SAT (Scholastic Aptitude Tests) scores.

Children of employees who wish to apply for the scholarship should make plans to take the SAT test so that scores are available by March 1, 1977. Testing dates are already set for this year and are not that numerous; thus, plans should be made soon. High school counselors have all the information needed. Students who have already taken the test and have reason to think their scores are not representative should consider retaking the test. Taking the test a second time often results in higher scores.

Information regarding the procedures for application will be published at a later date in the Crier. For further information contact Ruth Thorson, Ext. 3324.

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DINNER - CONCERT HERE OCTOBER 8

Another of Fermilab's popular buffet suppers will be offered before the Simon Estes concert Friday, October 8. The menu for the dinner will include rack of lamb, wild rice, stir-fried vegetables, salad and dessert bar, wine and coffee or tea. For reservations, call the Guest Office, Ext. 3440.

Bass baritone Simon Estes receives wide acclaim wherever he performs, both in the United States and abroad. He has sung more than 67 leading operatic roles in the past ten years and is considered to be on his way to the top of the operatic field.

Estes' informal appearances during his local visits in the past year led to numerous requests for him to appear in concert here.

Tickets for the concert are now on sale in the Guest Office, CL 1W. They are \$3.00 each. No reserved tickets will be held unless they are accompanied by a check.

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...NALREC's OKTOBERFEST will be held on Saturday, October 9 in the recreation area of the Village. German-style cookout from 5:30-7:30 p. m. Dancing, 8:30-12:30 a. m. Cash bar and snacks. German beer all evening. Families invited to cookout.

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PRAIRIE ACTIVITIES

Friday, September 24 - Prairie Lunch - Fermilab Cafeteria
Buffalo Stew, Sourdough Bread, Tomatoes Indian Style,
Spiced Peaches, Molasses Frosted Creams

Saturday, September 25 - Evening Program - "Prairie Panorama" - 8:00 p. m.
Speakers: Robert F. Betz, Anthony Donaldson

Special Exhibit - Photographs, prints, ceramics related to prairies
September 25 to October 25
Auditorium Lobby

VOLUNTEERS ARE NEEDED - for seed harvest - October 2, 9, & 16. Call Rene Donaldson,
Ext. 3278.

VISIT the demonstration plot on Road D, opposite the buffalo pasture, a mini-version
of the Main Ring restoration in progress.

REMINDER: The Central Laboratory Building will be closed to visitors until 6:30 p. m. on
Saturday, September 25, while electrical maintenance work is in progress. Cafeteria service
on that day will be limited to sandwiches served from 11:00 a. m. to 1:00 p. m. Neither
breakfast nor dinner service will be offered.

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CLASSIFIED ADS

FOR SALE - 1971 Ford Maverick, 4-Dr., 47,000 miles, Standard shift, good tires, exc. cond.,
best offer. Call Yannis, Ext. 3090, or 231-8572 between 7:00 and 8:00 p. m.

FOR SALE - Sears double oven con. clean stove, gold tone, \$200; 1 round dining table, \$15;
Zen. 19" TV (needs repair); 2 juvl. chest of drawers, \$25. Call C. Slater, Ext. 3090 or
859-3049 after 6:00 p. m.

FOR SALE - 1 lge. refrig., \$50; dishwasher, \$20; men's skis, \$20; 1 Danish modern sofa, \$60;
1 dining table, 4 chairs, \$75; 3 spd. bike, \$18; 1 B/W TV, \$20; 1 toaster, \$7; asst'd. queen-
size sheets \$6 pr.; spread for king-size bed, \$18. Call Nash, Wkdys. 467-9700, Ext. 255 or
weekends 665-6305.

FOR SALE - Heath Car Stereo FM receiver and cassette tape player. Tape player has new
transport incl. heads, motor. FM recently realigned. Both in good cond. Receiver, tape
player, and power amp \$100 or make offer. Call Dan, Ext. 3190.

FOR SALE - Home in Wheaton, 20 min. to lab, lge., 3 bedroom, 1 1/2 bath, dining room, stone
fire place in living room, rec. room, lge. lot, \$64,900. Call 666-7154.

FOR SALE - 1 Wards 30" Trail Lawn Sweeper (pull behind) Exc. cond.; 1 7h.p. B & S tractor
type lawn mower 32" twin blade, good cond. Call Del, Ext. 3330 or 815-436-3708.

FOR SALE - 23" Motorola color TV with stand, needs some work, \$50. Call Rich Parry, Ext.
3724 or 892-8346.

WANTED - Carpool from N.W. Aurora. Hrs. & days flexible. Paul Gauthier, Exts. 3770 or 3775.

WANTED - Singer Sewing machine CABINET, used but useable, will buy, call 840-4915 aft. 5pm.

NOTICE - Don't fuss call us, R & R Auto Body, 834-4329 or Frankie, Ext. 3275.

NOTICE - Fresh eggs & chickens from organically fed flocks, also popcorn & other grains,
whole porkers. For information contact Delta Clark, Ext. 3275 or 668-3853.

FOR SALE - Edmund 4 1/4" Reflector Telescope, 2 objective lenses, 1 Barlow lens, sturdy
pedestal base, 6" Finder Telescope, True Equatorial Mount, \$120. J. Maenpaa, Ext. 3263 or
428-1357.

FOR SALE - '72 Audi 100 LS, 4 Dr., Sun roof, auto. trans, a.c., AM/FM stereo radio,
clean, good condition, \$2,250, Call 654-2075.