

The Village Crier

 national accelerator laboratory

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PROGRESS REPORT - JULY 9th through JULY 23, 1972

Protons were accelerated to 300 BeV for the first time at 9 p.m., July 16th. After a few shifts of operation at this energy, the effort reverted to supplying 200 BeV protons for the completion of the tune-up of the muon line and to machine improvement.

300 BeV ENERGY ACHIEVED JULY 16th

The severe electrical storms that broke over Northern Illinois on Friday, July 14th were a serious distraction for the NAL Accelerator Section crews that were tuning the machine on a 300 BeV ramp for the first time. The system tripped off four times on Friday night due to the turbulence. Each time, the painstaking operations were involuntarily interrupted and resumed. On Saturday morning, replacement of a magnet halted progress for several hours. But, in spite of all delays, efforts continued through Saturday and during the day on Sunday, July 16th.

Good beam on a 100 BeV ramp came Sunday afternoon; the ramp was raised to 300 BeV at 8:35 p.m. A satisfactory coasting beam was achieved by 9:10 p.m. Exactly two minutes later, after the radio frequency voltage had been turned on, acceleration reached 300 billion electron volts.

Except for coping with the effects of the natural phenomena outdoors, the 300 BeV occurrence came as a methodical, step-by-step achievement on the shift led by Jon Sauer as Operations Chief. Keith Meisner was chief accelerator operator, assisted by Barry Barnes, Grover McIntyre and R. Webber. Bob Angstadt carried out the Main Ring electrical function with Vic Garzotto and F. Johnson on Main Ring mechanical. John Benolken served as Duty Assistant. Dick Cassel performed his magic calculations on the power supplies during Sunday afternoon operations. Stan Tawzer and Jim Griffin handled R.F. duties. A few other interested persons came and went from the control room area in the course of the hours of the decisive run while the machine and the crew performed well, again.

Preparations were underway immediately to extract the 300 BeV protons from the Main Ring and route them to the 30-inch Bubble Chamber to carry out the first experiment at the higher energy. The crews, still plagued with such distractions as a tornado warning evacuation on Monday night, July 17th, and power outages beyond their control attained some 300 BeV extraction success by Wednesday, July 19th.

During the tests, engineers and technicians from Commonwealth Edison stood by to monitor the effect of the higher energy accelerator operation on Commonwealth Edison's power distribution system. The new high in acceleration came as one of three fronts being attacked in the Accelerator Section -- namely, continued improvement in the general operation of the machine, developing intensity, and achieving slow extraction. Efforts in the Section rotate from one phase to another, in addition to providing beam to the Internal Target and Neutrino laboratory experiments. With a total of 41 power supplies now installed and with operation increasingly reliable, the try for 300 BeV was a logical progression. Increased intensity in the Main Ring to match intensity levels achieved regularly in the Linac and the Booster, and slow extraction are expected to reach satisfactory levels in the near future.

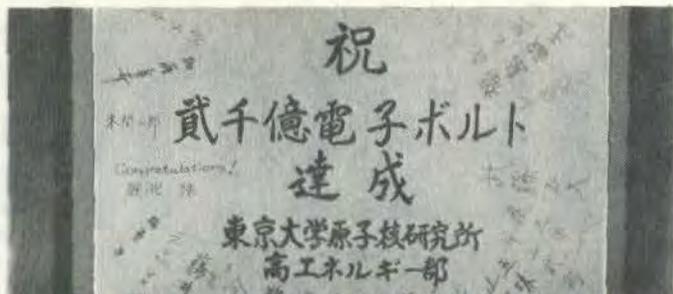
Dr. Boyce McDaniel, head of the Accelerator Section, commented on the 300 BeV event, "We had expected that we would achieve higher energy without much difficulty, but we were still very pleased when it happened."

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GREETINGS RECEIVED FROM NAL FRIENDS...



...A greeting card: "The group of Soviet Physicists working at NAL sends you hearty congratulations on the occasion of Independence Day..."



...A plaque: "Congratulations for Achievement of 200 GeV. Division of High Energy Physics, Institute for Nuclear Physics, University of Tokyo..."

THREEPENNY OPERA AT NAL ON SUNDAY, JULY 30th

NAL's International Film Society invites NAL and visiting experimenter families to bring a picnic lunch and to view "The Threepenny Opera" on Sunday evening, July 30th. A German film with English subtitles, "Threepenny" stars Lotte Lenya in the role of Pirate Jenny. The cast also includes many from the original Berlin production. The original print was destroyed in World War II and reconstructed after a great search. The film is based on a play by Bertolt Brecht, with music by Kurt Weill.

Each family should provide their own food and gather in the recreation area of the Village Barn about 5:30 p.m. The movie will follow at 7 p.m. Admission - \$1.00. In case of rain, picnicking will move into The Barn.

BEAT THE HEAT AT THE CAFETERIAS

NAL Cafeterias are continuing to improve the services they offer. Self-serve, soft-serve ice cream is now available in the Village. China service and glassware are now being used in the Village. Silverware will be complete soon. Paper service is still in use for carry-outs.

Ask Sal Cuomo about his "Pass the Trays" campaign -- a free lunch to the person who brings him the most "borrowed" trays from offices around site by July 31st. "Glad to have you use them, but send them home when you've finished," Sal says.

MARK YOUR CALENDAR

The Argonne Bicycle Club is sponsoring the second annual Atomic Bike Hike on Sunday, August 27th (rain date, September 3rd). The 65 mile round-trip ride will start from the Argonne Clubhouse at 9:30 a.m. with a lunch stop at NAL. Registration fee of \$1.50 is required for each rider.

For further information, contact Argonne Bicycle Club, P.O. Box 303, Argonne, Ill. 60439 or call Saul Alford at 852-0035, George Ostrowski at 331-4057, or Jess Cioffoletti at 469-8146.

NOT JUST ONE -- BUT FIVE!

Stan Tonkin of the Bubble Chamber group had some unusual guests drop in for a week this summer at his home in Naperville. Abandoned in the window well on the side of his house, Stan found five baby skunks. Utilizing the same appeal as baby kittens, the little animals won a week's stay before the Tonkins felt it wise to move them to a more natural habitat. Gene Beck of the stockroom helped with the transition by taking the babies to his farm where he fed them until they gradually found their way back to the fields.



TOURS HEAR NAL STORY

During May, 1972 more than 1,100 persons visited NAL on tours. They included professional organizations, college, high school and elementary school students, and women's organizations. Among the groups have been physics students from Benton Central High School, Oxford, Indiana as well as Elgin Community College; Explorer Post #292 high school students from Hammond, Indiana; groups from Wartburg College, Waverly, Iowa and Winona State College, Winona, Minnesota; the Ministerial Association of Aurora; the MIT Club of Chicago; American Society for Non-Destructive Testing, Inc.; Kane County Homemaker's Extension Group; the physics clubs from Wheaton College and Augustana College, Rock Island; and engineers and physicists from Bell Laboratories.

In addition to the tour groups, many individuals "drop in" for information and visit the NAL Exhibit Hall where there are scientific and historical pictures, various displays, and a narrated slide presentation telling of the work of the Laboratory. During the past year, visitors from 36 states and 14 foreign countries have signed the guest book in the Exhibit Hall. NAL employees wishing to bring guests to the Exhibit Hall in the evenings and on weekends should contact one of the guards to open the Hall and to turn on the master light switch.

Helen Severance of NAL Public Information is in charge of all tours. Assisting her with recent groups have been Jeremiah Sullivan, Theoretical Physics; Timothy Toohig, Stanley Pruss, Ray Stefanski and Frank Nezrick of the Neutrino Laboratory; James Griffin, Edward Gray, Russell Winje, Fred Hornstra and Richard Cassel from the Accelerator Section; Roland Juhala and Michael Otavka, Research Services; Rudy Dorner, Site Manager; David Sutter, Internal Target Laboratory; John Satti, Meson Laboratory; and Thomas Collins, Associate Director for Planning Advice.

Staff members have also responded to requests for speakers by a variety of organizations. Stanley Snowdon, Theory Section, spoke to the Association of Physics Teachers at Argonne National Laboratory; James Griffin traveled to Madison, Wisconsin to address the Instrument Society of America; Halsey Allen, Senior Safety Officer, met with the Glen Ellyn Rotary Club, and Robert Daniels, Accelerator Section, explained the plans and purpose of the Laboratory to a group of engineers at the Western Electric Montgomery Plant.

Requests for speakers and tours may be directed to Mrs. Severance at Ext. 351. Beginning September 1, 1972, tours will be limited to groups of 10 or more (maximum of one bus load) of 9th grade age and over.



...Eighth grade science class from Our Lady of Mt. Carmel School, Melrose Park arriving for a visit at NAL...



...The physics club of Wheaton College, Wheaton, Illinois studying the site model in the Curia...

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FOR YOUR INFORMATION...Illinois freeways will soon display 5' x 10' blue and white signs bearing the legend "Hospital Trauma Center...Next Right." Other signs containing a large "H" will be placed on roads and streets near hospitals with trauma centers. The signs are designed to speed injured and ill persons to places where appropriate medical care will be found. A coordinated network of forty (40) hospital emergency rooms is located around the state.

COME ONE! COME ALL!...NAL FAMILY PICNIC - Sunday, August 20th

Plans are now well underway for the annual "Collosal" Family Picnic at NAL, to be held Sunday, August 20th in the recreation area adjacent to the Village Barn. Visiting families are urged to join the fun which will begin about 11 a.m. In addition to the usual games for children of all ages, Eric Jarzab, chairman of the event, announces that an elaborate Model Airplane demonstration will be given and a display of antique cars has been arranged for the afternoon. There will be a beer garden, balloons, cotton candy, hayrides, and horseback rides. Picnic fare for all will be furnished free of charge. And, possible other surprises, according to Jarzab.

Volunteers are needed to handle the many, many duties involved in helping 2,500 people have a good time. Call Eric Jarzab, Ext. 396.

NALWO NEWS FOR AUGUST

Gourmet Group picnic on Sunday, August 13th, 2-5 p.m. Charge of \$3.00 per adult, children free. Beer, soft drinks, hot dogs, shish kabobs available; everyone bring salad or dessert. Call Mary Ann Ryk, 968-8651 by August 7th.

Sing Along - 8:30 p.m. Friday, August 18th, home of Mary Ann and Jan Ryk, Downers Grove. Beer, pizza, swimming and S I N G I N G.

VISITING EXPERIMENTERS WELCOME!

The Playgroup is now planning Fall Program. Call Ellen Ljung, 231-8513 or Chrystal Schivell, 393-1327 if you are interested in enrolling your pre-schooler.

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CLASSIFIED ADS

FOR SALE-Travel Trlr. Phoenix, stv. b/r, press. wtr., gas ref., thermo. contr., gas/h, gas & elec. lts., elec. brks. A-1 cond., \$1000; 12 ga. shotgun, pump vent. rib-poly choke, exc. cond. \$85. J. Thompson, Ext. 355/791 or 859-2089.

FOR SALE-18 wood storm sash & hdwe., gd. cond. + 10 screens asstd. sizes, free for hauling away, all or none. E. Renaud, Ext. 791 or TR 9-3770.

FOR SALE-Ludwig Drum set, 4 drums, zildjian cymb., silver sparkle, exc. cond. \$400. L. Lemsch, Ext. 728 or 766-1697.

FOR SALE-Kenmore Auto. Wshr., elec. dryr., exc. cond. \$200 both or best offer. J. Prentice, Ext. 345.

FOR SALE-Priv. Camp site acre shoreline, wooded lot, 7 Clearwater Lakes. Boat avail. 40 mi. W. Green Bay; 2 b/r air cond. home, Water Pine Island Fla., 25 mi. W. Ft. Meyers Fishermen's Paradise Nat. Retreat. A. Streccius, Ext. 771 or 392-4905.

FOR SALE-G.E. Thinline Air Cond. 2 spd. cool. temp.cont., sep fan cont., 6200 BTU-115VAC, \$79; Dlx. Champ. Rayon belt tires, G78-15 (like new) \$39; Dlx. Champ. Rayon Tire (unused spr) 8:25-14, \$19; WANTED-Refrig. in gd. cond. R.L. Biwer, Ext. 728 or 969-7543.

FOR SALE-Victor Elec. add. mach., repeats & sub-totals, \$35. D. Mendenhall, Ext. 724.

FOR SALE-1963 VW Bug, body gd. cond. Best Offer. B. Strauss, Ext. 795 or 964-4018.

WANTED-Used auto, '64-'67 eng. in exc. shape. Call Lorne, Ext. 309.

WANTED-12 ga. over & under shotgun. Will consider doub/barl side by side also. J. Thompson, Ext. 355.

WANTED-Used shotgun; used freezer; dehumidifier. Call Cuomo, Ext. 402.

FOR SALE-Bar bell set. Ed, Ext. 580.

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The Village Crier is published by the Public Information Office of the National Accelerator Laboratory. Margaret M.E. Pearson, Editor. Correspondence may be directed to the address below. Telephone number of the Laboratory is 312-231-6600.

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