

The Village Crier

 national accelerator laboratory

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NAL Welcomes XVI High Energy Physics Conference



...An aerial view of Central Laboratory area and the experimental lines of the National Accelerator Laboratory in August, 1972...

NAL welcomes the more than 800 visitors who come this week to participate in the last three days of this conference. It is hoped that their tours of the NAL facilities will give glimpses of the promise for the future that will come from the world's highest energy accelerator. "You are seeing the fulfillment of a dream we have all had for some time," NAL Director Robert Rathbun Wilson noted in his welcoming address last Monday.

"But we need a fairy godmother," he told his colleagues, "and I urge you to touch us and bring us to life."

Visitors to the NAL site at the present time find that the current status of projects under construction includes the Central Laboratory Building about 60% complete. Thirteen of the sixteen stories have been poured and completion of the building is scheduled for June, 1973. The adjoining auditorium will be finished in November of this year.

In the experimental areas, the Neutrino Laboratory is 90% complete. The Meson Laboratory main building will be available for partial occupancy soon and will be finished in November of this year. Two experimental pits of the Proton Laboratory are now in roofing stages; bids on two additional pits will be received shortly.

Donald R. Getz, Assistant Director at NAL, recently explained to employees, "We are now at a point where we can see the end of the mud and inconvenience we have lived with for four years. The attractive and useful site and buildings we've planned are nearing completion, and we will go into a more comfortable operational phase."

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Photo by Tony Frelo, NAL

IT WAS A BUSY, VARIED WEEK for the physicists attending the XVI International Conference on High Energy Physics at the University of Chicago and NAL. Photographers caught the physicists and their families, guests and hosts, in some of their leisure moments.



Photo, upper left, by H. Anne Plettinger, others by David Neace, Tony Frela

EXPERIMENTAL RESULTS ADD TO NAL MILESTONES

The publication of the first results of experiments at the National Accelerator Laboratory, which recently appeared in Physical Review Letters, represented the first fruits of the program visualized by the United States Atomic Energy Commission (AEC) on April 28, 1965 when announcement was made that the AEC was seeking a site for the "world's largest atom smasher." The Illinois location was selected in December of 1966, and a contract for preliminary design work was awarded to the Universities Research Association, Inc. (URA), then a consortium of 34 U.S. universities. Eighteen additional institutions (including one in Canada) have since joined URA, the managing organization of the National Accelerator Laboratory, now on a second five-year contract with the AEC, signed April 6, 1972.

Staff members began the actual work of building a new accelerator on June 15, 1967. Ground-breaking for the first building (the linear accelerator) took place on December 1, 1968.

Major milestones in the development of the accelerator system have included:

200 MeV in the linear accelerator..... Dec. 1, 1970
8 BeV in the Booster synchrotron..... May 20, 1971
200 BeV in the Main Ring..... March 1, 1972
300 BeV in the Main Ring..... July 16, 1972

The experimental program began February 12, 1972 in the Internal Target section of the Main Ring with a collaboration of NAL, Rockefeller University, the University of Rochester, and the Institute of High Energy Physics at Serpukhov to study "Small Angle Proton-Proton Scattering."

The fifth year anniversary of the National Accelerator Laboratory on June 15, 1972 was highlighted by the display of the first photos of 200 BeV tracks in the 30-inch Bubble Chamber which was moved to NAL from the Argonne National Laboratory in 1971.

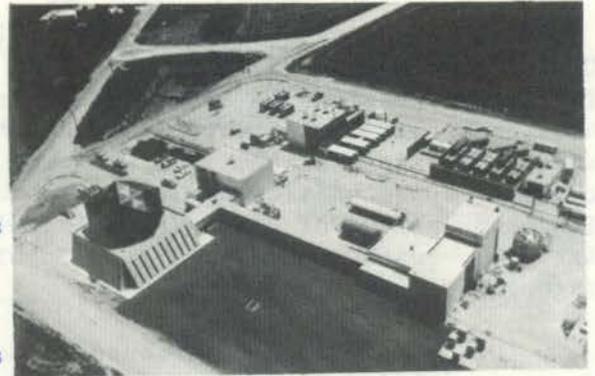
Results of the first experiment in the 30-inch Bubble Chamber, "Charged Particle Multiplicity Distribution from 200 BeV pp Interactions," were published on August 21st by authors representing the National Accelerator Laboratory, Argonne National Laboratory, Iowa State University, Michigan State University, and the University of Maryland. The publications of other experimental results will be appearing soon.

On September 1, 1972, ten experiments were "in residence" at NAL. This included four in the Internal Target section; two in the Neutrino Target Hall; two counter neutrino; one counter muon, and one in the 30-inch Bubble Chamber. The latest revised list of approved experiments will be published in September as part of the August, 1972 Monthly Report.

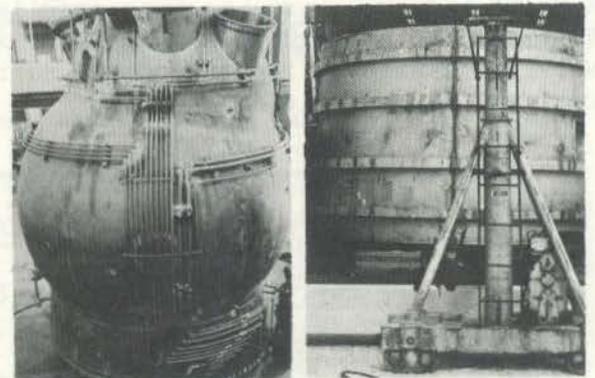
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Photos by Tony Frelo & Tim Fielding, NAL

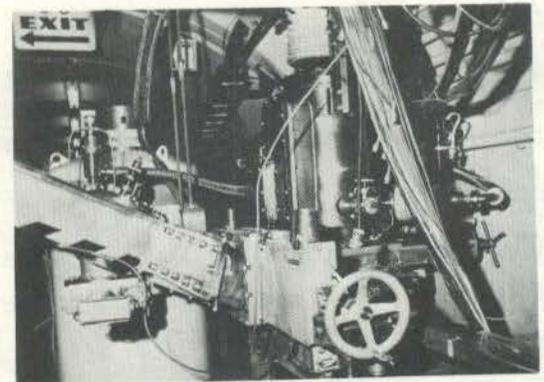
NAL CONSTRUCTION, 1972



...NAL Bubble Chamber area in July, 1972...



...Vacuum Chamber and Magnet of the 15-ft. Bubble Chamber...



...Internal Target at C-zero in Main Ring...



...Main Building of the Meson Laboratory...

VISITORS' ASSISTANCE AVAILABLE HERE

NAL maintains a Housing Office-Visitors Center, located at 33 Shabbona in the NAL Village. This office assists in locating and arranging housing accommodations and in acquainting visitors and their wives and families with the services and cultural opportunities available in the NAL area. The phone number of this office is 231-6600, Ext. 560. Office hours are 8:30 to 5:00 - Monday through Friday.

This office also distributes a monthly directory of visiting experimenters at NAL. It compiles weekly a "Cultural Calendar for Northern Illinois" listing current cultural attractions in the area. A guide for newcomers has been compiled by the Visitors Center which describes facilities and services available in many of the surrounding residential communities.



...Aspen East, a unique consolidation of former farm homes, is at the corner of Batavia Road and Sauk Boulevard in the NAL Village. It offers private room accommodations for visitors to NAL...

NAL SOCIAL CALENDAR

Friday, September 15th - 8:30 p.m., NALWO Sing-a-Long meets at Herta and Eric Laukants.

Friday, September 29th - "Closely Watched Trains" - first of new series by the International Film Society.

CLASSIFIED ADS

FOR SALE - 1966 Plymouth Belvedere I, 4/dr., auto. trans., 6 cyl., excel. engn., very econ., 4 n/tires. Avail. 9/15 - \$350; FOR RENT: 2/bdrm. apt., a/c & completely furnished in Hinsdale, \$300 p/mo. Avail. 9/15 for 1/yr. Call Edmond Berger, Argonne, 739-7711, Ext. 2855 or 323-4650.

FOR SALE - 1968 Rivera, dk/grn-lt/grn. vinyl top, full/pwr, am/fm radio, excel. cond.; 1966 Dodge Coronet-500, 2/dr/hdtop., 318 w/auto console, buckets. Many new parts-\$350; 1970 Honda 450-CC, cus. paint job, low/mi, excel/cond. \$825 or best offer. Steve Jendruczek, Ext. 210.

FOR SALE - 1970 Triumph-650-CC Bonneville, 2900 actual/mi. Excel/cond. Henry Monaco, Ext. 719.

FOR SALE - 1971 Honda-350-CB w/faring. Excel/cond., 5000/mi. \$700. Rick Curkeet, Ext. 369/374.

FOR SALE - 1963 Vagabond Trlr-10'x 47'-a/c, drapes, crptd., 30' covrd. patio, garage on Sonet Naperville Farm. Immed/pos. \$2500. Mo/Rent \$85. Call Robert Dorr, 436-2945 or 682-3064.

FOR SALE - 19" Silvertone b/w/TV w/cart. Less than yr. old, Excel/cond. \$95. Call Spike, Ext. 351 or 668-4242.

FOR SALE - Skis-Kastle CPM Grd. Prix, 2 yrs. old, length-205 cm; Bindings-Look Nevada Grand Prix-\$135, w/o bindings \$100. Call Reid Rihel, Ext. 739 or 969-6712.

FOR SALE or TRADE -Hi/Pwr. rifle, "bear" bow, 45 lbs., 1 doz. field arrows, quiver & case, heathkit depth finder. Call Don Wastel, Ext. 229 or 892-8412.

FOR SALE - Two pr. (like-new) Mens Oxford shoes (black), size 10-C; picnic cooler chest. Call E. Brezina, Ext. 580/323-0794.

FOR SALE - 1963 Ford/4-dr, V8, auto/trans, gd/tires/body/radio Needs muf/motor wk. Best offer. Call T. Larson, TR 9-5499.

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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