



Layout of Experimental Beam Areas

EXPERIMENTAL AREAS 1 AND 2 BEING PLANNED

Plans for Experimental Areas 1 and 2 at the National Accelerator Laboratory were presented and discussed at the recent NAL Users Organization meeting. (The photo above is a sketch of the present layout of these experimental areas.)

Experimental Area 2 now is west of area 1. It crosses the corner of the Master Sub-station, now under construction, near the junction of Roads A and B. Area 1 is straight ahead along the external proton-beam line. Area 3 will be designed at a later date.

Area 2 has been moved from a position south of Area 1 to the other side, in order to provide more space for it. The beams in Area 2 are designed for a variety of purposes and will eventually include an attenuated proton beam, two high-energy secondary beams, a medium-energy secondary beam and two neutral beams. These beams will be contained inside an earth shield to reduce the muon background to a permissible level. The beams will then emerge into an experimental hall at the end of the shield. The first beams in Area 2 will be ready for use in 1972. In order not to delay this area, it will be designed for maximum proton energy of 200 Billion Electron Volts (BeV).

Experimental Area 1 will contain more-specialized beams. The major element will be a high-energy neutrino beam. It will be used in a 15-foot bubble chamber that will be constructed by NAL at the end of the shield and in counter arrays beyond the bubble chamber. Muons in the same beam will also be used in these counter arrays.

A high energy rf-separated beam will run parallel to the neutrino beam in the bubble chamber. This experimental area is planned for initial use in January, 1973. It is designed for maximum proton energies of 500 BeV.

The first part of the proton-beam enclosure is farther along in design than the rest of the areas. Its construction will be separately contracted and is scheduled to start early this summer.

ARTHUR ROBERTS DIRECTS MUSIC FOR CHICAGO

Arthur Roberts, physicist, Experimental Facilities, is musical director for the Music Theatre of Hyde Park's production of "How to Succeed in Business Without Really Trying." NAL employees are invited to join a theater party to see the production Thursday, May 28, at the Harper theatre, 53rd and Harper Court, Chicago. Tickets are \$3.00 per person. For further information, please communicate with Carol Weissert, Ext. 585.

WHITE SOX PARTY

Ralph Wagner, Personnel, is taking reservations (only 50 tickets are available) for a bus-trip evening to see the Chicago White Sox play the Minnesota Twins at Sox Park on Friday, June 26. The fare is \$5.00 per person and includes a box seat ticket and a round-trip bus ride from the NAL Village. The bus will leave NAL at about 6:00 p.m.

PROMOTIONS DURING THE MONTH OF APRIL, 1970

<u>NAME</u>	<u>GROUP</u>	<u>FROM</u>	<u>TO</u>
Robley Bermell	Material Services	Mat. Serv. Clk.	Lead Mat. Serv. Clk.
Helen Ecker	Technical Services	Secy. I	Secy. II
Carolyn Gifford	Purchasing	Clerk II	Senior Clerk
Norman Hill	Material Services	Purchasing Admin.	Sr. Purchasing Admin.
Joan Maute	Public Information	Clerk I	Clerk II
Nancy Sefcik	Business Office	Secy. II	Secy. III,
Joyce Sobinsky	Legal Office	Secy. II	Secy. III
William Sundeen	Material Services	Mat. Serv. Clk.	Lead Mat. Serv. Clk.
Carl Swoboda	Beam Transfer	Technical Specialist	Engineer II

Meanwhile, back on the construction site: A magnet is lowered into a part of the Main Ring tunnel. The first B2 bending magnet was inserted into the Main Ring April 15. The vehicle access is not yet ready, so the magnet was lowered to the tunnel level by crane.



NAL SOFTBALL SEASON SCHEDULED

The NAL intramural softball season will get underway Tuesday evening, June 2, with two games scheduled to play then on the new field being completed in the Village.

Beam Transfer will play Linac and Main Ring will play Radio-Frequency that night with the first game starting at 5:30 p.m. and the second at 7:00 p.m.

Seven teams, representing various sections of the Laboratory, are entered in the League. All of the games will be 16-inch slow pitch. Schedule of games is available in the Personnel office.

Charles Marofske, NAL personnel manager, is delighted by the turn-out. He estimates that about 110 employees will be taking part as members of the various teams. It is the first year that NAL has had its own intramural league. Marofske expects the competition to grow from year to year henceforth.

A softball field is being completed for the NAL teams on the south side of the KUHN BARN and across from the NAL cafeteria.

In addition NAL has entered a team in the 12-inch fast pitch Aurora Industrial Softball League sponsored by the Fox Valley Park District. Bob Oberholtzer, Beam Transfer, is manager of this team, which begins its schedule on June 8th at 8:30 p.m. at the Barber Green Field in Aurora playing against Chesty Chips of Joliet. Fourteen NAL employees have signed up for this team.

The league schedule calls for the NAL team to play on the following evenings:

7:00 p.m.

Thursday, June 11
Tuesday, June 16
Thursday, June 25
Wednesday, July 1
Sunday, July 12
Monday, July 13
Monday, July 20
Sunday, July 26
Sunday, Aug. 2
Sunday, Aug. 9
Thursday, Aug. 13

8:30 p.m.

Tuesday, June 9
Sunday, June 14
Thursday, June 18
Tuesday, June 23
Monday, July 6
Wednesday, July 8
Thursday, July 16
Wednesday, July 22
Wednesday, July 29
Wednesday, Aug. 5
Tuesday, Aug. 18

Suggestion to NAL wives and families: Post this schedule at home and come out to the games at the Village and in Aurora.



NALWO FAIR: On Saturday, May 9, there was something for everyone at the NALWO Country Fair held at the White farmhouse on Eola Road. In the photo at the left, Richard Carrigan (left) and Paul Reardon discuss the economics of running a country fair as Reardon prepares to carry away the "goodies" he purchased. In the photo at the right, Canada's Tony Key picks the winning raffle ticket from a bowl held by Frank Cole while Isabel Walker watches.

SAVINGS

NAL employees can enroll now for the purchase of U.S. Savings Bonds and Savings Notes, Charles Marofske, NAL personnel manager, has announced.

Series "E" U.S. Savings Bonds return an average of 5 percent when held to their five years and ten months maturity. The interest they earn is exempt from state tax and may be deferred until the Bonds are redeemed. There is no charge for buying or redeeming Savings Bonds. They are registered in the owner's name and are replaceable at no charge if lost, stolen or destroyed. The purchase of "E" Bonds also enables you to create tax-free education and retirement funds.

NAL has Area Savings Bonds Representatives in many sections of the Laboratory to answer questions concerning the program. The representatives are: Ken Fischer, Accounting; Robert Scherrer, Beam Transfer; Lowell Klaisner, Booster; Louise Latreille, Linac; Donald Smith, Material Services; William Fray, Machine Shop; Barbara Rozic, Main Accelerator; Tony Frello, Planning and Scheduling; Stanley Tawzer, R.F.

Ralph Wagner, Personnel, will enroll employees who wish to purchase Savings Bonds and Savings Notes on the U.S. Payroll Savings Plan.

G.E.D. COURSE PROPOSED

NAL Personnel is proposing to offer a G.E.D. Program to all NAL employees interested in earning a General Equivalency Diploma. The course is a home study course and is tailored to the individual's needs. The G.E.D. Certificate is equated to a high school diploma and enables the individual to pursue college level courses for credit. Those interested, please call Bill Butler at Ext. 397.

NAL/DUSAF BRIDGE

Carol and Marv Warner were winners at the May 7 bridge session. Janelle Quesenberry and Peter Zamie placed second with Alan and Ethel Guthke third. Next duplicate night is scheduled for Thursday, May 21, at 7:45 p.m. in NAL Cafeteria. Please call Spike, Ext. 351, or Bill Johncox, 879-2900, if you can make it.

CLASSIFIED ADS

FOR SALE - 1970 Chev Impala sport coupe, turbo hydramatic, power steering, vinyl top. Call Chuck - Ext. 261 or 898-0241.

FOR SALE - 1964 F85 Cutlass Oldsmobile, auto. trans., power steering and brakes, radio, bucket seats, 2-door, white. \$150.00. Call Denise Wahlquist, Ext. 572.

FOR SALE - Tickets for Suburban Barbershop Chorus, Sat. May 23, 8:00 p.m., Bryan Jr. Hi, Elmhurst. \$2.00 adults; \$1.00 students. Benefit Ray Graham Rehabilitation Center, Elmhurst, for mentally retarded and handicapped youth. J. Buffenmyer, Ext. 279.

FOUND - Black leather key case containing several keys. Identify in Personnel, 22 Sauk.

FOR SALE - 1969 Chev Impala Custom. Pwr s/b; air cond; black vinyl top. Lemans blue. 8,000 miles, still in warranty. Call Bonita Cleaveland, 851-5807.

FOUND - Ronson lighter, outside Radiation Physics. Identify in Personnel, 22 Sauk.

FOR SALE - 1 Craftsman table saw, 10". \$35 on stand. J. Buffenmyer, Ext. 279.

GIVE AWAY - 8 week old kitten, mostly Russian blue. Rich Mahler, Ext. 261.

National Accelerator Laboratory

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