

The Village Crier

national accelerator laboratory

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NAL SUMMER GUESTS TO STUDY RESEARCH PLANS

For the fourth consecutive year, NAL will sponsor a summer study concentrating on the experimental utilization of the 200 BeV accelerator.

This study will be under the direction of Edwin L. Goldwasser, Deputy Director of NAL, and will be held on the Laboratory site from June 22 through July 24, 1970.

Approximately 40 high energy physicists from universities and laboratories throughout the United States will join members of the NAL staff in this study. It is expected that physicists from Canada and CERN (Geneva, Switzerland) also will participate in the program.

The attention of the study this year will be centered on the use of the beams of particles that will be provided in the experimental areas at the accelerator. In particular, the guests will be asked to consider the experimental equipment and arrangements needed in order to do research at the NAL accelerator. It is expected that the scientists will continue their lively discussions concerning the important experiments to be done in 1972.

Frank Cole will be the editor of the proceedings this year. Cynthia Sazama and Jodi Eskey are working on the arrangements for accomodating the visitors this summer.

NAL PERSONNEL OFFICE ASSIGNMENTS

Chuck Marofske, Personnel Manager, recently issued the following announcement about changes in assignments in his section:

Bill Butler will continue to organize NAL's recruiting effort but will not be directly involved in interviewing. He will take on additional responsibilities for training and is currently co-ordinating the supervisory training program. Persons with suggestions or requiring assistance regarding tuition reimbursement or training programs should communicate with Butler.

James Thompson and Eddie Stapleton will be directly responsible for recruitment, interviewing and co-ordinating visits to NAL by applicants.

Mrs. Mildred Meyer will continue to handle clerical and secretarial employment. Beverly Braun will be responsible for travel reservations and processing tuition reimbursement authorizations.

As soon as the house at 21 Sauk is available, Beverly and Bill will move their offices to that location. The teletype will be moved to that house and TWX service will be provided by Beverly for travel reservations. The basement of 21 Sauk will be available for training sessions and small group meetings.



L. to R. - Eddie Stapleton, Bill Butler,
Jim Thompson

THE MAIN RING FALLS INTO PLACE

The Main Accelerator is the largest single component in the NAL accelerator system. Protons will be injected into the Main Accelerator from the Booster at Eight Billion Electron Volts. The Booster is a rapid-cycling synchrotron, approximately 500 feet in diameter. The Main Accelerator is a synchrotron of 6,562 feet in diameter -- or 1.24 miles. Its circumference is approximately four miles. In the Main Accelerator, the protons will be accelerated to full energy. Initially, this energy will be 200 BeV, but more power supplies could be added later to increase the accelerator's peak energy to 400, or possibly even 500, BeV. This additional acceleration still would take place in the Main Accelerator. After reaching maximum energy, the protons are extracted and transported to experimental areas.

For months, members of the Main Accelerator system have been working with DUSAF engineers on the plans for the design and fabrication of the Main Accelerator sections. Each Main Ring section is nine feet in height, 10 feet wide and 10 feet in length. Made of concrete, 10 inches thick, the sections are pre-cast in three sizes and assembled like a giant jig-saw. There will be about 2,000 sections in the completed ring. (A "protomain" -- a prototype of the Main Accelerator -- is located in the NAL Village as a model of a typical installation.) Work on the construction and installation of the Main Ring sections is being conducted by two contracting firms -- Schless-Madden, a joint venture, and Corbetta Construction Company of Illinois.

Here is a photographic layout showing the tunnel sections in various phases of construction and installation. Phase One of the Main Accelerator, the first super-period, is about 30 per cent complete. Work is beginning on Phase II, the remaining five-sixths of the structure. The photos, by Tony Frelo and Mrs. Joan Maute, provide a Spring-time view of construction progress at NAL.



An aerial view of one of the two casting yards on the NAL construction site. Main Ring sections are pre-cast in the cubicles at the left. They are stored in the field and transported by truck to the nearby Main Ring excavation as they are needed.



One section being lowered to the continuous cast-in-place concrete foundation at the bottom of the excavation.



Section C-5 takes its place in the biggest NAL circle. When complete, Main Ring will contain about 2,000 sections.



The gradual curve of the giant Ring begins to take shape.

ATTENTION VILLAGE MOTORISTS

Speed limit signs (25 miles per hour) have been posted in the Village. Because of all of the pedestrian traffic in the Village, it is very dangerous to drive faster than this. It is expected that bicycle traffic this spring and summer will add to the hazard. Please observe the speed limits when driving in the Village, and encourage others to do the same. It would be most unfortunate to have a traffic tragedy because of thoughtlessness, carelessness, or disregard for safety.

NALWO CALENDAR

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|---------|-------------------------------------|-----------------------------------|
| April 2 | Hand Arts 1 pm. | Also all Thursdays in April. |
| 9 | Executive Board 1 pm. | |
| 11 | Gourmet 7:30 pm. | Reardon, 1483 Morse Rd., Wheaton. |
| 14 | Literature 1 pm. | |
| 17 | Music 8 pm. | |
| 22 | Area and Activity Chairmen 1:15 pm. | |
| 26 | Outdoor 3 pm. | Mallard Lake Forest Preserve |

All meetings will be held at the White Farmhouse on Eola Road unless otherwise noted.

NAL RECEIVING/SHIPPING FACILITIES MOVED

The NAL Receiving/Shipping Section has relocated from the Anderson Farm, (at Sauk Boulevard and Batavia Road adjacent to the NAL Village) to the Feldott Farm on Feldott Road, 1.25 miles north of the Village, adjacent to the construction area. Receiving/Shipping phone number is 879-2250.

CLASSIFIED ADS

FOR SALE - Children's swing set. Needs minor repairs & painting. \$3.00. Call Will Hanson, Ext. 236, Home 469-0700.

FOR SALE - Portable A.C.-D.C. 8 track stereo cartridge tape player, AM-FM radio combination. \$75.00. Also 18" portable T.V. \$35.00. Dick Hauser, Ext. 394 or 896-1855.

FOR SALE - '69 Goldline camper on a '69 Ford 250 camper special AC,PB, PS, snow tires on extra wheels, camper jacks, port-a-poti. H. Clover, Booster Ext. 236 or 556-3428.

FOR SALE - 1967 Puma camper. Sleeps 8. 3-burner bottled gas stove, ice box, sink, water storage tank, spare tire & stabilizing jacks. Phil Gavin, Ext. 266.

FOR SALE - Norman Porter's record "Today I Started Loving You Again" \$1.00. Call Shirley Porter, Ext. 295.

NAL SOFTBALL PLAYERS NEEDED

NAL will sponsor a 12" soft ball team in the Aurora Industrial League if there are enough people interested. Please call Leo Ray, Extension 377, immediately, if you would like to join the "Labmen".

National Accelerator Laboratory
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