

The Village Crier

 national accelerator laboratory

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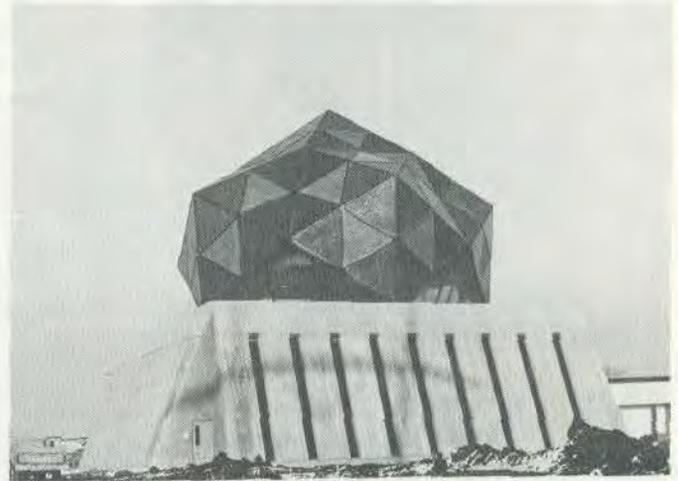
PROGRESS REPORT - APRIL 3 THROUGH APRIL 7

7 BeV coasting beam was re-established in the Main Ring this week. The water system appears to be working well. A total of 59 Main Ring power supplies have now been commissioned. Booster carried out experiments on improving ring magnet regulation. They have begun experiments with a second low level RF system. Booster and Linac have been operating well all week.

NAL'S GEODESIC DOME NOW COMPLETE



...Pupils at Batavia Junior High School, Batavia, Ill., were among those who contributed the 120,000 cans used in NAL's geodesic dome...



...Geodesic dome atop Building A of the NAL Neutrino Laboratory, constructed of triangular sandwich panels containing discarded beverage cans donated by the public...

A year ago at this time, many people in the Chicago suburbs were saving empty beverage cans for the construction of a geodesic dome at the National Accelerator Laboratory. Individual savers brought cans to the Lab in brown paper bags. Many school children and scout troops hunted cans as recycling projects; they accumulated truck loads of plastic bags full of cans.

Some recent phone calls to the Laboratory asking whether NAL is still collecting cans, or whether another building is planned for using the cans, have prompted THE VILLAGE CRIER to picture what has been done with the 120,000 cans that were brought to NAL.

The Laboratory is grateful to all of these people for their support and interest and for the opportunity of joining hands with them in this ecological effort. No further NAL construction using cans is planned at present.

The completed geodesic dome is atop Building A of the NAL Bubble Chamber area which is located in the southwest corner of the intersection of Wilson Road and Road K. Building A will serve as an assembly area and as the location of computer control equipment for the bubble chamber area. The red, white, and blue dome is clearly visible across the prairie.

Jeff Schielke of the BATAVIA HERALD attended the press coverage of the "topping out" of the dome last December 15th. He wrote an interesting observation on the dome project following his visit: "Looking around at the massive construction of buildings at this location, many mem-

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NAL'S GEODESIC DOME NOW COMPLETE (Continued from Page 1)

ories of by-gone days came back. First, there was the remaining remnants of what was once McChesney Road. Construction has nearly eliminated any trace of the old gravel country road. McChesney Road will be remembered by many of those who attended high school during the 1950's and 60's as one of the most frequented 'lover's lanes' in the Fox Valley. Just to the east, down Wilson Road from the huge construction project, was once the McGarrey Farm and within sight to the west were the memories of the old Theis farm with its vegetable and fruit stand...To or of local heritage, the visitors seemed strange as did the realization that scientists soon hope to discover the secrets of the unknown world from what was once a farmer's field at McChesney Road and Wilson Street...There is little doubt that the dome will be one of the top attractions to all who view the NAL facility in the future."

The structure was designed by DUSAF based on the suggestion of Robert Sheldon, British-educated chemist then on the staff of NAL. It was erected by Mississippi Valley Steel Structures of Aurora. John O'Meara was the NAL Engineer in charge of the project, under the direction of Henry Hinterberger, head of the NAL Technical Services Section.

It is NAL's sincere hope that contributors of cans and the general public will enjoy the uniqueness of the construction and of the mutual assistance that made it possible.



1) Each panel, a triangular "sandwich" of 2 slices of polyester-reinforced fiber-glass spread with a coating of epoxy, was pressed together by sand bags overnight..



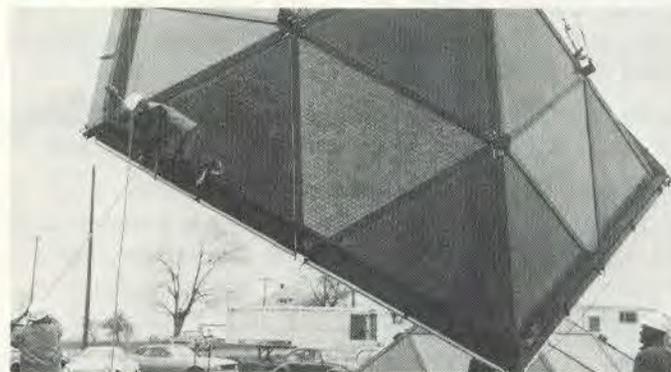
2) Crew of 5 men assembled 120 panels at rate of 6 per day. Panels were moved from the assembly area to the bubble chamber area by truck..



3) Next stages of assembly took place adjacent to Building A, shown in background. Circular crane now used in assembly work extended over top of building..



4) Steel frame was erected on top of Bldg. A as a base for the 3.8 ton completed sections which were raised by cables attached to cranes..



5) Lifting of the sections, which resembled giant kites, suffered many delays from high prairie winds last Fall..



6) Last section of NAL's pop top was lowered in December. Triangular spaces were later filled with clear glass..

(Photos by Tim Fielding, NAL)

THIRD TAT CLASS RETURNS TO NAL JOBS

Members of the third TAT class have returned to begin their jobs at the National Accelerator Laboratory. Since October of 1971 the ten men have attended classes at the U. S. Atomic Energy Commission's training facilities at Oak Ridge, Tennessee. NAL's program of training unemployed and under-employed minority group members began in 1969.

The men will work at positions assigned to them before going to Oak Ridge, based on individual qualifications and interests. Three members of the group are from Chicago; the other seven come from suburban areas closer to the Laboratory.

During their stay at Oak Ridge, Carl Webb (Neutrino Laboratory) served as president of the Trainee Council, the student representative body of the TAT organization. Craig Williams (Accelerator Section) was named editor of the student publication, THE TATTLER, and Charles McNeal and Ronald Davis worked as reporters.

Three of the group are veterans; three are married.

Ken Williams, head of NAL's Equal Employment Opportunity Section, notes that all of these TAT trainees ranked in the top 10% of their class. "They did a great job while they were down there. I feel that our support services certainly helped in this. The trainees found local housing and became part of the Oak Ridge community. They accepted responsibility and lived up to our expectations 100%."



..R. Davis, Bubble Chamber..



C. McNeal (R) with supervisor, G. Mulholland, Bubble Chamber..



C. Zonick (L) helps R. Rodriguez on 1st day in Rad. Physics..

MEMBERS OF NAL'S THIRD TAT CLASS:
FRONT ROW (L to R):
Clarence Rodgers, Exper. Serv., Jeffrey Amos, Proton Lab., Theodore Steele, Meson Lab., Craig Williams, (Accelerator Section). BACK (L TO R)
Carl Webb, Neutrino Lab., Charles McNeal, Bubble Chamber, Alberto Sanchez, Accel. Sect., Ronald Davis, Bubble Chamber, Robert Rodriguez, Radiation Physics, and Douglas Dean, Accelerator Section...

Photos by Tim Fielding, NAL

DENMARK JOINS PROGRAM AT CERN

A news release from CERN, Geneva, Switzerland during the past week advises that Denmark has joined the ten other Member States contributing to the eight-year 2.2 km diameter accelerator construction program at CERN. According to the release, work has already started on the construction of the main Laboratory buildings and on the access shafts leading down to the level of the main tunnel. Some 40 m underground, a boring machine will be assembled and will start boring its way round the 7 km tunnel. In the meantime work is proceeding on the final design of machine components and the preparation of specifications of equipment for which bids will be sought from industry.

FAMILY SWIM NIGHT - THURSDAY, APRIL 20

NALREC is sponsoring a Family Swim Night at Marmion Academy on Thursday, April 20 from 7 to 9 p.m. No admission charge. Visiting families are welcome. Marmion's Olympic-size pool is complete with diving boards. Water toys will be permitted.

Marmion Academy is located on Butterfield Road, about four miles west of NAL. The pool area is to the right, in the back of the main building.

PING PONG MATCHES UNDERWAY

NAL's annual Ping Pong Tournament got underway this week. Winners of first round matches during the past week were: Leo Ray, Rich Perry, F. Close, Clarence Bowling, B. Morozov, Futak Dao, David Scafe, Larry Allen, and Jim Walker.

The contests are continuing during the lunch break. Eighteen persons were in the starting lineups. Spectators are welcome at the matches, being held daily at the Village Barn beginning at 12:00 noon.

"NIGHTS OF CABIRIA" APRIL FILM AT NAL

Fellini's Academy Award winning film, "Nights of Cabiria" will be the April showing by the NAL International Film Society on Friday, April 21st, at 8 p.m. in the Village Barn. "Cabiria" has been described as an "indestructible spirit...comparable to Chaplin's tramp."

The event coincides with the NAL Users' meeting being held at NAL that weekend. All visitors and their families are welcome. Admission charge is \$1.00 per person. Refreshments will be served following the movie.

BEST WISHES... to Barbara Bangert of NAL's Accounting Department who became engaged to Elmer Kelm of Lockport during the Easter weekend. No date has been set for the wedding.

ATTENTION: NALWO GOURMET GROUP

April 15 New England Dinner has been POSTPONED due to the unavailability of lobster.

CLASSIFIED ADS

FOR SALE - 1969 Volkswagon square back sedan, good condition, auto., radio, 33,000 mil. \$1,800. Rob Bermel, Ext. 575 or 898-4290.

FOR SALE - Grey winter coat with scarlet lining, orig.value \$100, worn 4-5 times, size large 10 or small 12. Perfect cond. Can be seen in my office. \$20. Anne Burwell, Ext. 291.

FOR SALE - 1972 Corvette Stingray, mint condition, white,black leather interior, nylon carpeting, PS, AM-FM radio, air cond., auto.; Call Mike, Ext. 575.

FOR SALE - Mark 10 Transistorized ignition system. Eliminates tuneups & gives 20% better mil. Sells for \$45 retail. Will sell to Lab employee for \$29. Dominick, Ext. 555.

FOR SALE - 1970 Triumph 650 CC TR6R \$1,150; '71 Honda 350 CC CB \$750. Contact Doug in Survey, 879-2900.

FOR SALE - '63 BelAir Chev.,white,2 dr., 6 cyl.,auto., best offer. Steve Johnston, Ext. 355 or 791.

FOR SALE - Naperville by owner, lg. 3 bd.,2 baths,brick w/ alum.4-level in West Highlands.Carpeted LR,DR,FR. Fin. rec. rm. 2-car gar.A-1 cond.,trees, low 40's. 357-0443.

WILL RETURN - Navy Blue car coat, size 7 left at NAL bowling party in exchange for navy blue full length coat trimmed w/ silver buttons, size 10. Barb Bangert, Ext. 222.

WANTED - Outboard motors under 20 HP. Contact Dan or Rudy, 879-2900, Surveys.

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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