

The Village Critic



national accelerator laboratory

Operated by Universities Research Association Inc.
Under Contract with the United States Atomic Energy Commission

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PROGRESS REPORT - APRIL 10 THROUGH APRIL 14

Beam was accelerated to 80 BeV this week and is running for beam studies and work on the extraction system. Plans are to continue to operate on through next week.

AEC AND URA SIGN SECOND CONTRACT

The U.S. Atomic Energy Commission, on April 6, awarded a second five-year contract to the Universities Research Association, Inc. (URA) for the operation and maintenance of the National Accelerator Laboratory. URA has been responsible for the design and construction of NAL's 200-500 BeV proton synchrotron since January 5, 1967 when the Association was awarded the first AEC contract for preliminary design work on the accelerator. URA was formed (with 34 member universities) in June of 1965, specifically to provide an organization capable of managing large research facilities for the nation. Eighteen additional institutions have since joined URA, including one in Canada. The National Accelerator Laboratory and its staff comprise the operating arm of the URA directly responsible for the project.



At the contract signing: Front Row (L to R) Kennedy C. Brooks, Kenneth Dunbar, Norman Ramsey Robert R. Wilson. Back Row (L to R) Bradley F. Bennett, Fred C. Mattmueller, Donald R. Getz.
(Photo by Tony Frelo)

Signing of the contract took place at NAL. At the ceremony were Kenneth Dunbar, head of the AEC Chicago Operations Office; Kennedy C. Brooks, AEC Area Manager; Fred C. Mattmueller, Deputy Area Manager; Norman Ramsey, URA President; Bradley F. Bennett, URA Vice President for Administration; Robert R. Wilson, NAL Director; and Donald R. Getz, NAL Assistant Director.

Kenneth A. Dunbar, representing the AEC, said, "It is a pleasure for me to sign this contract for the operation of this facility for five years. Certainly in the past five years, URA and NAL have done an outstanding job."

Norman Ramsey also expressed pleasure at the renewal of the contract, especially after achievement of 200 BeV on the accelerator. "I hope that in the coming five years

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it will prove to be a valuable machine to scientists," Dr. Ramsey stated.

On June 15, 1967, following signing of the first contract, a handful of staff people, some representing the AEC, some NAL, assembled on the big, bare 10th floor of the Oakbrook Executive Plaza. Mission: to mould an organization that could build the largest accelerator in the world. The location of the facility was known to be some 20 miles west of Oak Brook, but it was not to be available to this staff for some time. Nevertheless, planning was underway at a furious pace.

By March of 1968, some houses in the former Village of Weston were vacant as owners came to terms with the State of Illinois, official purchasers of the land. The staff, still less than 100 people, moved by bits and pieces into the Village over the summer of 1968. In December, an isolated tract recently acquired by the State, known as the Schimelphenig Farm, was the site of the groundbreaking for construction of the linear accelerator. By April, 1969, the State of Illinois had essentially completed its acquisition of the 6,800 acres that comprise the NAL site and in July of 1969, Congress approved the \$250 million authorization for NAL construction.

The AEC has maintained a staff along side of the NAL organization since 1967. The "200 BeV Accelerator Facility," as it is known, serves as the liaison between NAL-URA and the U.S. Atomic Energy Commission. Kennedy C. Brooks has headed the office as Area Manager since July, 1968. Fred C. Mattmueller, Deputy Area Manager, was among the group that first assembled at Oak Brook. Both men have been instrumental in establishing the effective, pleasant relationship that has grown between the two organizations in five years. According to Mattmueller, the "enthusiasm and exuberance" of people working on the NAL project is "contagious."

K. C. Brooks observes, "Working with NAL is working with a very interesting group of people. There's never a dull moment here and we seldom do anything conventional or stereotyped."

K. C. will retire next January, having been with the AEC since 1947. "I feel very lucky to wind up my career with a project such as this," he remarked.

FELLINI FILM SHOWING FRIDAY, APRIL 21

"Nights of Cabiria," an Academy Award winner directed by Federico Fellini will be shown in The Village Barn on Friday, April 21st, at 8 p.m. sponsored by the NAL International Film Society. NAL Users Organization members and all visiting families are welcome to attend. Admission is \$1.00 per person. A social hour will follow the film showing.

USERS MEETING AT NAL APRIL 21-22

The NAL Users Organization will hold its annual meeting at NAL on Friday and Saturday, April 21 and 22.

The opening session at 9:15 Friday will include a report by Earle C. Fowler, Users Chairman and by Norman Ramsey, President of Universities Research Association. A general NAL session will follow, led by Robert R. Wilson, reporting on construction progress and future plans.

The rest of the meeting will be devoted to technical sessions centering on principal NAL experimental areas. Sessions include PREP, Computers, being organized by Pierre Piroué, Princeton; Meson Lab, Dave Ritson, SLAC; Bubble Chamber, Gerry Smith, Michigan State; Proton Lab, Dick Zdanis, Johns Hopkins; Neutrino and Muon Lab, Mike Tannenbaum, Rockefeller University.

VISITOR RAE STIENING JUST TEMPORARILY GROUNDED

Visiting physicist Rae Stiening and his wife, Nancy, are looking forward to exploring the Middle West in their Bonanza plane housed at the DeKalb airport. In the past 3½ years of flying, they have traveled from the Arctic Circle to Central America.

Rae came to NAL in January, 1972 on a leave from the Lawrence Radiation Laboratory at Berkeley, California. The 1971 Users meeting convinced him that working on the NAL machine would be the next logical step in his career which began with studies at the Massachusetts Institute of Technology where he also earned his PhD.

Now one of NAL's principal "beam watchers", Stiening is currently observing and plotting the path of the proton beam through the magnets of the Main Ring so that the magnets can then be moved to achieve a more exact course for the beam. But during his first three months at NAL, Rae was in the middle of the action as the machine increased acceleration. He could usually be found in the Radio Frequency Building.

Rae's work at NAL is interrupted every few weeks when he returns to Lawrence to continue an experiment he is doing there on the LRL Bevatron.

The Stienings are both natives of Eastern U.S. Nancy, an English major, is currently involved in a medical editing project and is one of the women serving as volunteer English teachers for the visiting Russian families at NAL, three mornings a week. They live in West Chicago.

Adjustment to the "flatness" of the Illinois prairie has been no problem for the Stienings who enjoy the rural open spaces. And they like being part of another frontier -- "a breakthrough in high energy physics," as Stiening describes the NAL machine. "Successes here will demonstrate how high energy physics can be changed," he believes, "from a field that had become too expensive to allow further growth. At NAL we are seeing how to make accelerators less expensively. Overall, it is a very successful concept and we'll be able to show others how to do it also."

Rae hopes to be a part of bringing the experimental areas into operation before he leaves in January of 1973. And, eventually, to return as part of an experimental team.

ARBOR DAY OBSERVATION PLANNED ON APRIL 28

NAL employees will observe Arbor Day on Friday, April 28, by planting more than 200 trees and shrubs beginning at 12:00 noon. In case of rain, the event will be held on Tuesday, May 2.

All those interested should assemble in the area of the Village Barn. Holes will be dug but bring your own shovel to replace the dirt around the trees.

Refreshments will be served when the planting is finished. Visitors are welcome to participate.

This year marks the 100th anniversary of the first Arbor Day in the United States which began in the state of Nebraska as the result of efforts of Julius Sterling Morton, father of Joy Morton, founder of the Morton Arboretum in Lisle. Arbor Day has been recognized in Illinois since 1887 and is officially the last Friday in April.

(Photos by Tim Fielding)



RAE STIENING



NAL's first buffalo calf of 1972 arrived about 7 a.m. on Tuesday, April 11, in the "Illinois" herd located on the northeast side of Batavia Road next to the Site Management headquarters.

FAMILY SWIM NIGHT TONIGHT, APRIL 20, AT MARMION

All visiting families are welcome to join NAL's Family Swim Night tonight, Thursday, April 20, at the Marmion Academy. There is no admission charge. Marmion is located on Butterfield Road in North Aurora, about 4 miles west of NAL. The pool area is to the right, in the back of the main building. Call George Nosal, chairman, 231-8270, for further information.

BICYCLE CLUB HOLDS FIRST MEETING APRIL 20

The first meeting of the NAL Bicycle Club will be held Thursday, April 20, at 7:30 p.m. in the Curia. Sol Alford, president of the Argonne Bicycle Club, will preside at the meeting. A film on cycling will be shown, and there will be discussions on possible affiliation of the NAL club with the Argonne Bicycle Club. Trips planned throughout the summer will also be discussed.

Interested persons should plan to attend the meeting or contact Greg Chartrand on Ext. 207.

1972 SOFTBALL TEAMS FORMING

Anyone interested in playing 14" slow pitch softball should call either Dan Matias, Ext.734 or Ed Stitts, Ext. 535. Several experienced umpires are also needed. A general meeting will be held in the next few weeks to complete plans for the season.

NAL GARDENERS TAKE HEART

Rudy Dorner, NAL Site Manager, announced this week that 128 (20' x 40') garden plots will again be available to NAL employees this year. The plots are located behind the Model Shop on Shabbona. To sign up for a plot, call Phyllis Thompson, ext. 303. Serious gardeners must request their previous plots no later than April 27. A separate group of plots for DUSAF employees will be located near the former Phillips Farm.

NALWO NEWS...The Sing-A-Long group will meet on Friday, April 21 at 8:30 p.m. at the Reardons, 1483 Morse Street, Wheaton, Illinois. For further information, call Herta Laukant, 665-0439.

CLASSIFIED ADS

FOR SALE - 4 Goodyear Suburbanite tires, on/off road use. Size H-65-15. Used about 6 wks. \$25 each, rims included. Call LaDaune, ext. 555.

FOR SALE - Mark 10 transistorized ignition system. Eliminates tuneups & gives 20% better mileage. Sells for \$45, will sell to Lab employee \$29. Call Dominick, ext. 555.

FOR SALE - Fr. Prov. canopy bed frame, dbl. dress., full mirror, night stand, excellent condition, \$145, call R. Vanecek, Ext. 468.

FOR SALE - 24 in. riding mower, very good cond., \$85, Dave, 325-3957 after 4 p.m.

FOR SALE - '61 Chevy, 4 dr., auto. tran., 8 cyl., "used but not abused" \$100, J. Hogan, Ext. 728.

FOR SALE - 14' Runabout boat, 25 HP, Sea King motor, trailer, skis, good condition. \$325, Call Vic Ext. 701, or 393-1135.

WANTED - Upright piano, will haul away, call Bob 393-1545.

FOR SALE - 1965 Corvair, 2 dr. stick, Call Ruth, Ext. 222.

FOR SALE - 1967 Plymouth Fury III, 2 dr. hardtop, p.s., p.b., fact. air, Call Robison 879-2755; after 5, 584-0593.

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