

# The Village Courier

 national accelerator laboratory

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

Vol. 4 No. 8

February 24, 1972



....Broad smiles at NAL on February 11, 1972.... (L to R)  
R. R. Wilson, D. Sutter, E. L. Goldwasser, T. Collins,  
S. Mori, E. Hubbard, and E. Malamud....

....Reason for the smiles....  
100 BeV on that date....

## A DAY TO REMEMBER!!

There were indications in the NAL Main Control Room all day on Friday, February 11th, that it was going to be a good day. The elusive proton beam was more responsive than usual to the control system and to the crew working hard to train the beam into going to higher and higher energies around the four-mile NAL race track.

The entire Accelerator Section, under the guidance of Robert R. Wilson and Donald E. Young, had been marshalled all week -- all month, in fact, having attained 20 BeV on January 22nd and 53 BeV on February 4th. The experience and know-how they had gained in the past weeks spurred on their efforts to reach for further acceleration.

Ernest Malamud, Ryuji Yamada and Frank Nezrick led the day shift on Friday, the 11th. Transition energy (17 BeV) was achieved in the morning; tuning continued throughout the day, adjusting to get all of the component systems to function at the same time. Operations went very well during the day; some of the day shift people stayed on into the evening shift, hoping to see success before they left.

At 7:30 p.m. the evening crew, led by Shigeki Mori, Tom Collins, Dave Sutter and Chuck Schmidt, once again attained beam at transition energy, but for some time they could not get the energy to increase. Activity moved back and forth between the Main Control Room and the men on duty six blocks away in the Radio Frequency Building, Jim Griffin, Ray Stiening, K. C. Cahill, Ed Higgins and J. Hoelscher. The two groups continued adjusting and watching for results on the oscilloscope screens. At 9 p.m., after Jim Griffin made a simple adjustment of the B dot knob, the energy of the beam began to climb upward. Each additional pulse of the machine brought cheers from the Main Control Room on the inter-com to the R. F. building. In a very short time,



.....Gift from Dubna...  
Photo by Tony Frelø, NA

(Continued on Page 2)



....(L to R) J. Griffin, K. C. Cahill, R. Stiening, E. Higgins in R.F. Building....



....(L to R) D. Sutter, F. Nezrick, D. Jovanovic, in the Main Control Room....

the beam touched 100 BeV.

A telephone call brought the Laboratory Director, Robert R. Wilson, to the Main Control Room. He was carrying a bottle of vodka, inscribed in handwriting on the label: "For Bob Wilson and colleagues when energy is greater than 76 BeV...A. A. Kuznetsov, Dubna." Wilson led a group to the R. F. Building, the scene of the breakthrough, where he shared the beverage and the undisguised joy of the occasion.

Tension gone, replaced by the inspiring realization that enormous efforts of countless persons and groups had begun to bear fruit, the crews shortly resumed their duties and the machine continued its magnificent performance throughout the night.

Experiment Number 36 personnel were called about 10 p.m., for they had been scheduled to test equipment installed in the Main Ring beam pipe beneath Service Building C-0 as soon as 100 BeV beam was achieved. Now, they had their chance to observe an accelerated beam react in their experimental apparatus, at 4 a.m. on February 12th.

Later, a shut-down was called for, to start unsplitting power supplies. By Monday morning, as word of the achievement spread like wildfire through the Laboratory, plans were already being posted for preparations that will lead to design energy (200 BeV) soon. The Accelerator Section obviously will be anxious to try for this new thrill, having so thoroughly enjoyed the last one!!

(Except as noted, all photographs in this article were taken by Ryuji Yamada, NAL.)



....(L to R) R. Flora, R. Cassel, H. Edwards at the console in the Main Control Room....



....T. Collins (L), Shigeki Mori shortly after reaching 100 BeV....

\*\*\*\*\*

## WILSON ROAD TO CLOSE MARCH 1

Effective March 1, 1972, Wilson Road will be closed to all non-NAL traffic. Non-authorized traffic will be turned away by NAL guards at the west Wilson Road gate house. The gate at the eastern Wilson Road entrance will be closed at all times. Employees' cars displaying the NAL logo will be admitted, as will persons on authentic NAL business. Business and construction people will be stopped and required to give the nature of their business and their destination on the NAL site.



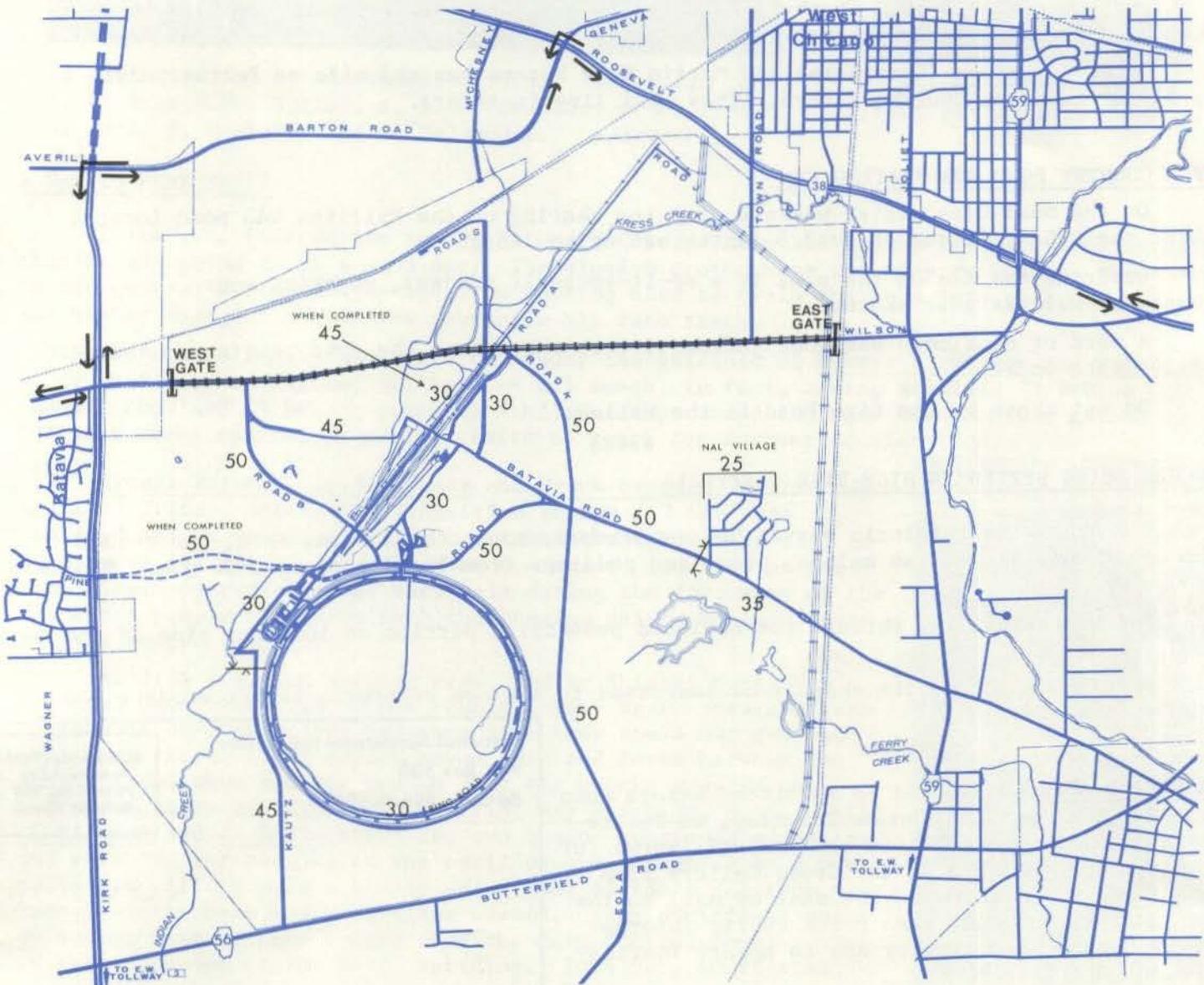
This step is necessary because construction has made traffic hazardous. The increased activity now presents a real safety problem and requires that Wilson Road be closed.

...Wilson Road closing effective March 1...

Photo by Tim Fielding, NAL

Until March 1, NAL guards are distributing courtesy cards announcing the closing. It is suggested that persons accustomed to using Wilson Road should begin at once to use alternate routes. Other roads in the immediate NAL area are shown on the map below. Two suggested alternates for reaching Route 59 are Kirk Road to Butterfield Road to 59, or Kirk Road to Averill-Barton Road to U. S. 38 to 59. The numbers on the map indicate speed limits in force on NAL roads.

(Map by Bruce Bedell, DUSAF)



\*\*\*\*\*

NALWINGS: DOUBLE PURPOSE MEETING

On Thursday, February 24, at 5:30 p.m., there will be a NALWINGS meeting at the Village Barn. First, Mr. J. Hunt of the FAA will present some films on flight safety; secondly, an illustrated talk on "Vertigo." Meeting plans also include organizing a free ground school. For further information, call Tony Frelo, Ext. 349.

ANNOUNCING NALREC'S ARTS & CRAFTS SHOW FOR 1972

NALREC'S Arts and Crafts Show for 1972 will be held March 6 through March 10 at the Village Cafeteria. The show is opened to employees and relatives of NAL, AEC, DUSAF and visiting experimentalists.

If your talent is in this field, plan to bring in your work for others to enjoy.

Call Carolyn Hines, Chairman, Ext. 771, for further details.

\*\*\*\*\*

WINTER WEDDING BELLS....

Cyndi Kroning (Purchasing) became Mrs. Tom Rathbun on January 22nd. Tom is with the NAL Accelerator Section. They will live in Aurora.

Denise Kupetz (Bubble Chamber) and Mark Augustine of NAL RF-B were married in Bakerton, Pennsylvania on February 12th.

Cathy Gustafson (Contracts) and Martin Hess became man and wife on February 19th at the Savior Lutheran Church, Aurora. They will live in Aurora.

\*\*\*\*\*

TRY A COUNTRY POND FOR SKATING FUN

On the next nice winter weekend, try ice skating on the Phillips NAL pond located behind the DUSAF offices on Road B (enter off Wilson Road).

Clearing the ice on the pond is a do-it-yourself project, so bring your shovels as well as your skates.

A word of caution: Use good judgment; test the ice on the pond before you and your family skate on it.

Do not skate on the Fire Pond in the Village!!

\*\*\*\*\*

LUNCHES BEING SERVED IN HIGH-RISE CAFETERIA

The high-rise cafeteria serves hot sandwiches, soup, chili, ham, beef, and corned beef sandwiches as well as salads, pies, and puddings from 11:30 a.m. to 1:30 p.m., Monday through Friday.

Enter the building through the enclosed pedestrian portico on the east side of the high-rise building.

Seating capacity will shortly be increased in the new cafeteria to accommodate 140 persons at a time.

\*\*\*\*\*

CLASSIFIED ADS (Ads should be submitted before noon on Monday, for publication on Thursday, to Public Information, 35 Blackhawk in the Village. Forms for ads are also available in the Cross Gallery from Irene Sweet. The forms may be sent by mail to the above address but must also reach Public Information by Monday noon if they are to appear Thursday. CRIER ads are free!)

FOR SALE-'64 Plymouth Val.Wagon, good running cond., cheap transp., A. Swanson, 879-2900, X-296 or 898-7657.

\*\*\*\*\*

National Accelerator Laboratory  
P.O. Box 500  
Batavia, Illinois 60510

U. S. Postage Paid  
Non-Profit Org.  
PERMIT No. 204  
Batavia, Illinois