

JCAE REQUESTS STUDY ON ENERGY DOUBLERS AT NAL

The report by the Joint Congressional Committee on Atomic Energy on authorizing appropriations for the U.S. Atomic Energy Commission for fiscal year 1972 has become available.

"... The Joint Committee received encouraging testimony on March 9 from Dr. R. R. Wilson, Director of the National Accelerator Laboratory (NAL) at Batavia, Ill. on the status of the construction of the 200 BeV accelerator. The committee noted with pleasure the progress that Dr. Wilson and his associates have made in the design and construction of this machine under rather stringent monetary constraints. In particular, the committee is impressed with the indicated possibility of an "energy doubler" through the development and application of cryogenic technology. This achievement could potentially increase the energy range of the accelerator to as high as 1,000 BeV with attendant economies and efficiencies in the use of electric power. The committee urges Dr. Wilson and his staff to perform the necessary work in the coming fiscal year to clearly define the scope of this undertaking and to ascertain whether the inclusion of energy doublers can be achieved within the \$250 million authorized for this project. The AEC should report the results of this work to the Joint Committee at next year's authorization hearings or at such earlier time as may be appropriate.

"At the same time, the Joint Committee is concerned about the future of the five existing high-energy accelerators supported by the AEC, once the NAL begins full operation. The high-energy physics budget has steadily declined in recent years which has resulted in less than optimum operating schedules at these five laboratories. Because of the high fixed costs, reductions in the operating budget of these accelerators result in a loss of operating hours and a consequent direct reduction of research effort proportionately much larger than might be expected for the respective dollar reductions.

"When the NAL becomes fully operational, it will require annual operating funds of \$60 to \$70 million including funds for outside user groups. This is more than 50% of the 1972 requested funds for all of high-energy physics. In addition, NAL plant and capital equipment requirements may be as high as \$25 million a year. Obviously, the trend of declining budgets for high-energy physics must be sharply reversed if the NAL and the five existing laboratories are to be adequately funded. In this regard, if budget priorities prohibit the necessary increase in funding, the committee must evaluate very critically the spreading too thinly of whatever Federal support is available for high-energy physics. Therefore, the Joint Committee recommends that the AEC carefully examine the minimum level of support necessary to keep each of its high-energy accelerator laboratories, including the NAL, viable and productive, and that it develop a priority listing of which accelerators should be kept operating should future funding be less than the minimum necessary to effectively support each of the six laboratories. The Commission should furnish the committee a report on its evaluation no later than December 31, 1971.

"The Joint Committee believes that these six laboratories are highly deserving of the necessary support to keep each of them operating at their maximum level of productivity. These laboratories provide the fundamental knowledge upon which many other basic advances in science and technology depend. High-energy physics also is a highly competitive field among nations as evidenced by the advanced machines in operation or under construction in the Soviet Union and in Europe. It is, of course, in the national interest that the United States remain in the forefront of this field of scientific endeavor."

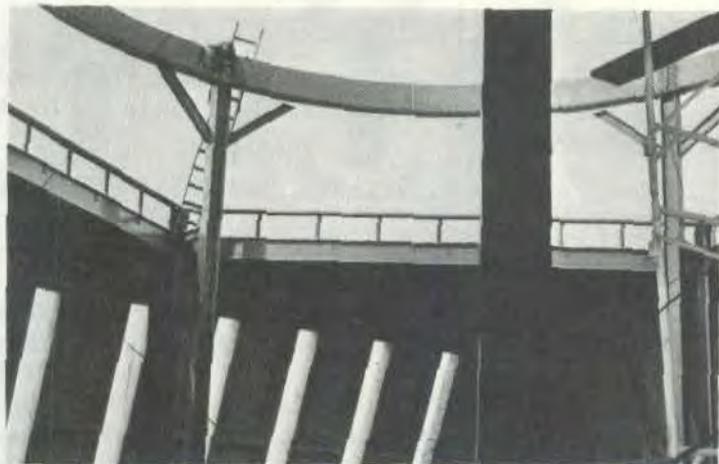
Ed Alderton Features NAL on Local Radio Station

"A View of the NAL" will be broadcast over Radio Station WGSB, St. Charles, following the noon news every day next week, starting Monday, Aug. 30. It will feature discussions by Donald Getz, Kennedy C. Brooks, Donald Young, James Sanford, Parke Rohrer and Rudy Dorner about NAL's development. The program was produced by Ed Alderton, WGSB news director. Mrs. Dorothy Alderton is a member of NAL's transportation section. WGSB is 1480, AM dial.



...The first magnet was recently installed in the NAL Meson Laboratory. On hand to assist in the initial installation are (l. to r.): John Caffey, Jim Humbert, Umer Patel, John Satti and Don Richied...

Photos by Tim Fielding



...This is the interior of the Bubble Chamber assembly building near completion near McChesney and Wilson roads on the NAL site. The man at the top is working on the circular-crane rails. The dome of this building will be constructed of panels of used beverage cans between fiberglass sheets...

REMINDER: Get Ready to Enroll Under Tuition Reimbursement Program

It's time to be arranging for your Fall, 1971 academic enrichment program. All full-time regular and term employees of the Laboratory are eligible for participation in the tuition reimbursement program. Any degree program or formal course which the Laboratory deems appropriate and relevant to the employee's career will be approved for reimbursement.

Reimbursement is contingent upon the receipt of a grade accepted by the school for credit or statement of satisfactory completion from the school. Full reimbursement will be made for tuition, textbooks, laboratory fees and like expenses minus any other reimbursement payments received by the employee toward the cost.

Copies of catalogs for both public and private colleges in the area may be inspected at the Employment House at 21 Sauk in the NAL Village. William Butler, Personnel, is in charge of employee education and development. His office has provided more than 150 NAL employees' tuition reimbursement under the program to date.

NAL BLOOD BANK PLANS CONTINUE; 110 SIGN UP

About 110 NAL employees have signed up to take part in the first annual blood program for NAL employees. Mrs. Dorothy Poll, First Aid, advises that the American Red Cross blood donor team will visit the Laboratory Thursday, September 2, and Friday, September 3, instead of Wednesday, September 1, and Thursday, September 2, as previously indicated.

Blood donors will be handled by the expert group between 10 a.m. and 3 p.m. on each of those dates. It will require about 30 minutes for each appointment and only less than 10 minutes for the actual donation.

By giving blood through the American Red Cross, you can protect yourself and your family's need for one year. If someone in your family becomes ill or injured and requires blood or a blood product, he will receive all he needs--anywhere in the U.S.--provided one of the family members is a blood donor.

Said Mrs. Poll: "If NAL gets enough participants, the entire NAL employee group and their family members (living in the same household) are covered. Otherwise, only the donors' families will be covered. Wives and adult children also can donate blood under the program, which, it is hoped, will be renewed annually."

Less than a pint of blood is all that is taken, Mrs. Poll said. Your body manufactures new blood constantly. The volume you give can generally be replaced by your body's natural processes within a few hours. After donating, most people go about their usual activities.

NAL Family Picnic Sunday, August 29

A "great day" is planned for NAL, AEC, and DUSAF employees and their families for the Fourth Annual NAL Family Picnic to be held at the Village Recreational Area Sunday, August 29.

Plenty of food, drinks, games and prizes have been ordered to provide a large turnout.

Schedule of Picnic Activities

- 10:30 AM Picnic begins
- 11:00 AM to 3:00 PM Food served, beer garden opens at 11:00
(if food holds out that long)
- 11:30 AM to 1:00 PM Horse rides and hay wagon rides
- 12:30 PM to 3:30 PM German Band plays
- 1:00 PM Children's games and races
(Adult games and races will follow)
- 1:00 to 5:00 PM Fire Engine rides
- 2:00 PM Model Airplane Show
- 3:00 PM All Star Softball Game
- 3:30 PM to 5:00 PM Horse rides, hay wagon rides

Also available will be badminton, horseshoes, tennis and volleyball. The pool will be open as usual to members. For additional information, call Eric Jarzab, Ext. 415.

Child-Care Center Proposed

A group of community-minded women (students, staff and teachers) at Waubonsee Community College are interested in organizing a child-care service on the campus, so that parents can attend classes without the problems and the great expense of baby-sitters.

The college might be persuaded to support such a service if interest on the part of the community can be demonstrated. If we get support, a competent responsible adult staff to care for the children, aided, perhaps, by volunteers, can be recruited.

At Waubonsee a questionnaire will be available to determine how many children would need such a service and at what hours of the day or evening.

If you have any suggestions or want to help organize this overture, please call 892-8260 in Aurora.

CLASSIFIED ADS

WANTED - RIDE: Young lady seeks a ride to New York first week of September. Will share driving and expenses. Call Ext. 761, Mrs. Creig Moore.

FOR SALE: 1959 Volkswagen, looks good, runs well, \$250.00. 6 VW tires \$1.00 to \$7.00
1965 Honda 305 Motorcycle rebuilt \$210.00
Call 892-0561.

FOR SALE: Beautiful Harmon-Kardon SC2320 compact stereo system AM-FM tuner & record changer in one unit with 2 separate speakers. Rated a "Best Buy" in "Consumer Reports" magazine. Walnut finish. Call 879-5846 after 5:30 PM.

FOR SALE: 12' x 36" child's wading pool - \$15.00 or best offer - ext. 303, Phyllis

FOR SALE: 1970 650CC Triumph Motorcycle TR6R-\$1,100. Call Doug, DUSAF Survey

<p>National Accelerator Laboratory P.O. Box 500 Batavia, Illinois 60510</p>	<p>U. S. Postage Paid Non-Profit Org. PERMIT No. 204 Batavia, Illinois</p>
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