## national accelerator laboratory Coperated by Universities Research Association Inc. Under Contract with the United States Atomic Fineray Commission

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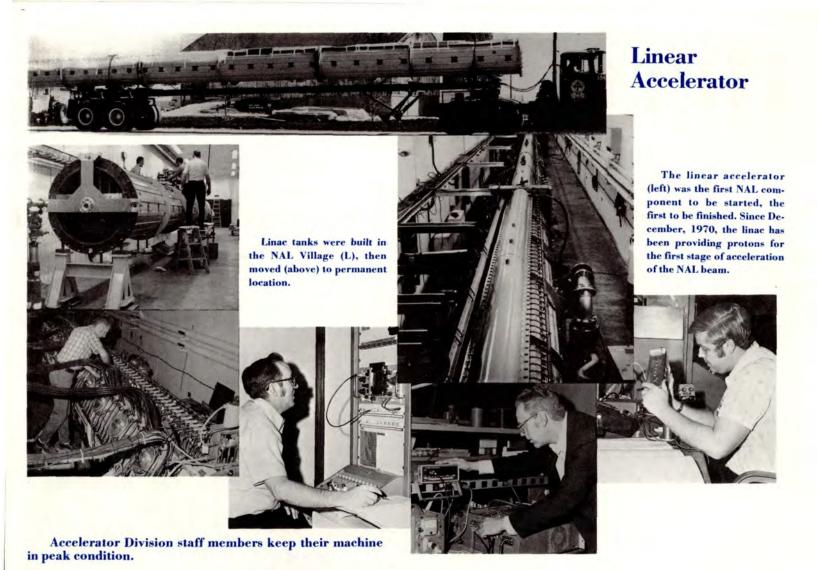
Recalling December 1, 1968...

And The Interim . . . December, 1973 . . .

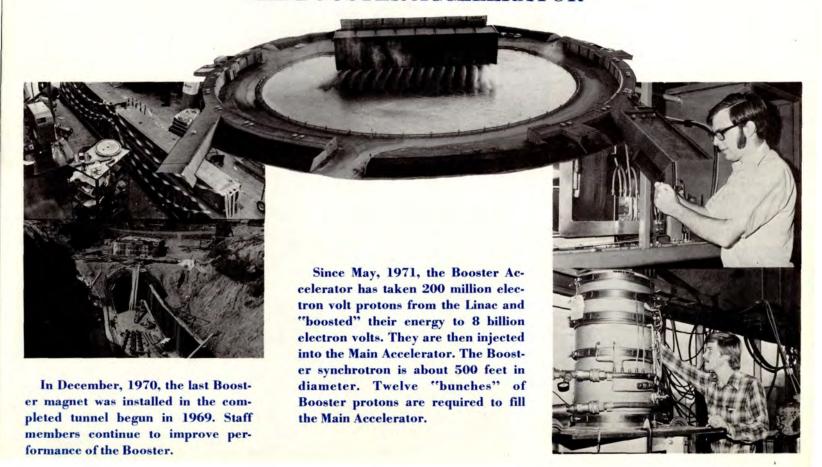
On December 1, 1968, a hardy group of 1,000 people tramped through a blinding snowstorm to the corner of the Arthur Schimelphenig farm, on the border of Illinois' Kane and DuPage counties near Batavia, to see the first spade of earth turned in the construction of the National Accelerator Laboratory. Five years later, in December of 1973, the institution those people envisioned that winter day is a reality. The world's largest proton accelerator is almost complete and is being used by hundreds of experimenters from around the world in their search for the secrets buried in the heart of the atom.

The prairies, where long ago Indians hunted and more recently homesteaders staked out fertile fields, are now witnessing a new era in man's search for knowledge of the universe in which he lives. Those who have used these lands before have been followed by the staff and associates of the National Accelerator Laboratory, using the most advanced technology in the world to explore the inner structure of all matter, for the benefit of the generations yet to come.





## THE BOOSTER ACCELERATOR



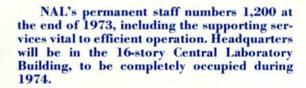
## MAIN RING

Construction of the fourmile concrete circle comprising the tunnel of the NAL Main Accelerator provided many unique challenges. The Main Ring reached its design energy of 200 billion electron volts on March 1, 1972, now operates routinely at 300 BeV.



Operation of the accelerators is centered in the Main Control Room where skilled crews keep the machine running 24 hours a day, 7 days a week.







Main Components of the NAL Accelerator system. Experimental areas lie to the left.

