

normal performance standards. Exposure and post-exposure performance data will then be taken and compared with the normal performance standard to identify performance impacts and their magnitudes. Emetic responses will be monitored visually and documented. The results will be documented in a technical report and made available to potential users.

3) The objectives of this project are to gain data to be used as relevant input parameters to models designed to predict the effects of irradiation upon human performance. Utilizing primates trained to perform tasks analogous to those accomplished by human operators of the B-1, radiation effects on performance can be determined and subsequently extrapolated to gain probabilities of mission success.

This work unit is the first phase of a two-part experimental procedure to examine "worst case" and "probable" environments expected to be encountered by aircrew personnel in the event of thermonuclear warfare. Six trained primates performing simultaneously on each of two tasks will be irradiated and pre- and post-irradiation performance measures taken. The decrement recorded in tracking, discrete avoidance, and reaction-time data will be utilized as input data to modeling efforts by USAF-SAM and other DOD agencies.

The U.S. military is not alone in such procedures. Newspaper articles appeared throughout Canada in April of 1981 noting how dogs would be subjected to massive doses of radiation in Department of National Defense experiments intended to simulate sickness caused by nuclear war.

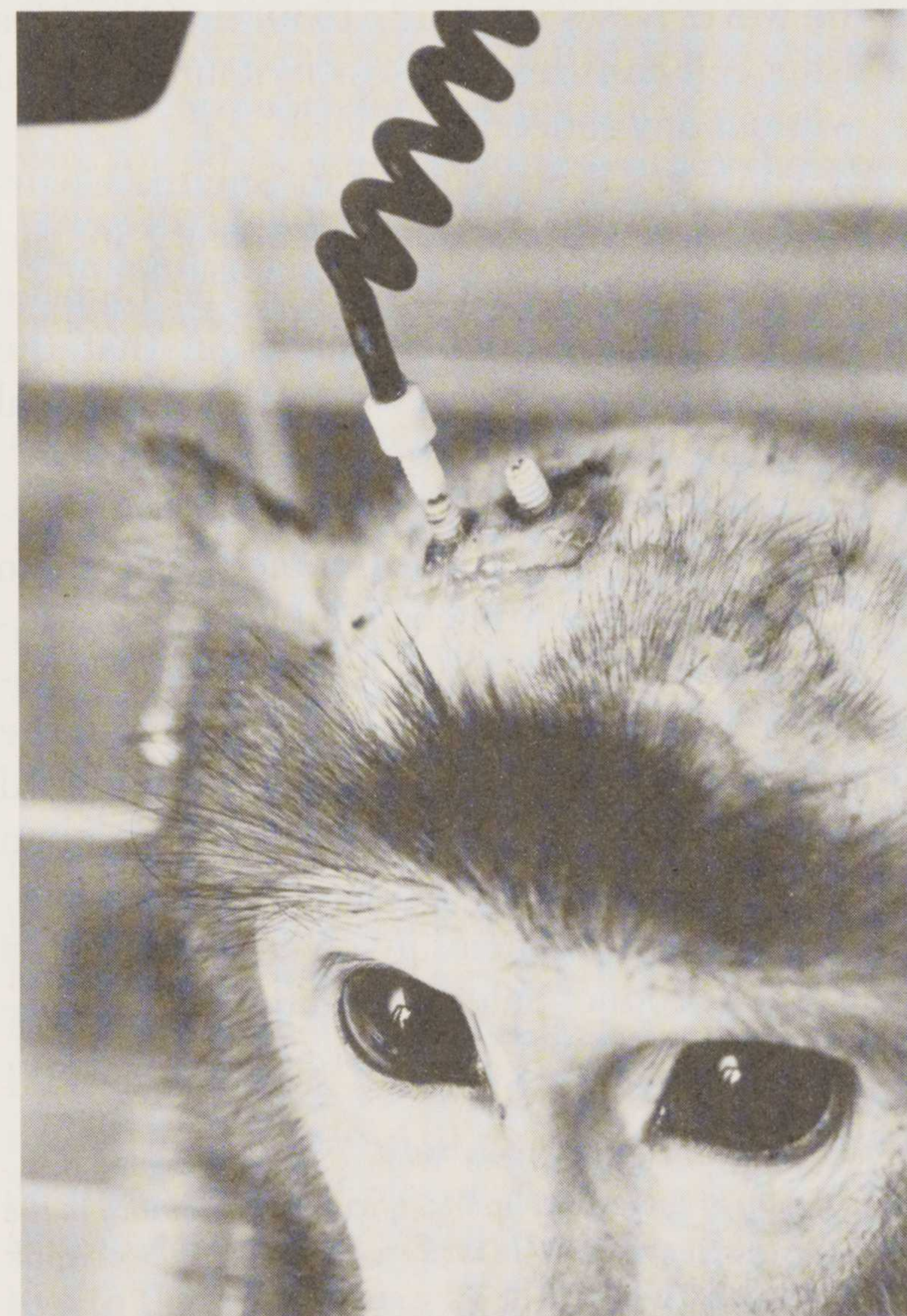
The military hopes the experiments will aid in the search to control expected vomiting of soldiers exposed to such a war.

*The Department also hopes the dogs, which will vomit repeatedly before execution in a gas chamber, will pioneer a cure for nausea long before the world is destroyed.*⁶⁰

⁵⁸The Baltimore Evening Sun, Wednesday, July 29, 1981, p. A-1; Thursday, July 30, 1981, p. D-1; Friday, July 31, 1981, p. A-1.

⁵⁹McGreal, S., "Monkeys Go to War," *Mainstream*, (Winter 1981), P. 20-22.

⁶⁰The Citizen, Ottawa, Canada, April 25, 1981, p. 1



Nathan Benn/Woodfin Camp, Inc. Photo

Medical school experiment using electrodes implanted in monkey's brain.