

Research Review

Electronic Dog Used in Experiments

By ELLEN BRADLEY

An electronic dog built from mail order parts is enabling students at the University to study conditioned reflexes which would otherwise have to be studied on a live dog.

Howard S. Hoffman, assistant professor of psychology, developed the dog with funds from the National Institutes of Mental Health and the University Central Fund for Research.

"When a live dog is used in experiments," Hoffman said, it is placed in a stock with a loose fitting harness to restrict its movements.

"PRIOR TO the experiment, the duct of the dog's salivary gland is diverted to the outside of the cheek. As the result, saliva will flow directly into a small glass funnel and through a system of tubes to a recording instrument located in the control room of the laboratory," he said.

"Neither the experimenter nor onlookers are permitted to enter the animal's chamber. The purpose is to create an environment in which the naive animal will exhibit salivary reactions only when a nutritive substance such as powdered meat is actually introduced into his mouth.

"THE NEED for these extreme measures arises out of the fact, that conditioning is so pervasive a progress that the response can become attached to any incidental stimulus that happens to coincide with the presentation of food."

The mechanical dog simulates the control room of a conditioning, Hoffman said.

The instruments face represents the control panel of the laboratory. One button simulates the presentation of meat powder to a hungry dog. Other buttons simulate the presentation of tones or lights.

WHEN STUDENTS operate the device, Hoffman said, they dis-

cover that, initially, only meat powder will evoke a salivary response. But if tones or lights are presented along with the meat powder, these signals will also acquire the capacity to evoke the response.

In addition, Hoffman said, the students are able to practice original experiments on the machine.

Local Chapter of AAUP To Meet; Discussion Set on Faculty Participation

A "Statement of Principles on Faculty Participation in College and University Government" will be discussed in relation to problems of the University at a meeting of the local chapter of the American Association of University Professors at 7:30 p.m. Monday in 101 Chambers. All members and applicants for membership in the local chapter are invited.

The statement, which was adopted by the AAUP National

Council in October 1962, appears in the winter 1963 issue of the AAUP Bulletin.

Faculty participation in determining educational policies is called for in the statement. Participation also is urged in decisions directly affecting educational policies such as major changes in size of student body, significant alterations in the academic calendar and establishment of new schools or divisions.

Advisory Boards Plan Expansion Of Two Commonwealth Campuses

Extensive expansion plans for two of the University's 14 Commonwealth campuses—York and Altoona—are being planned by the campuses' advisory boards at a combined cost of approximately \$1.6 million.

Residence hall, dining hall and student union facilities, which will cost about \$1.3 million, are planned for the Altoona Campus and a \$300,000 addition to the present building is scheduled for construction at York.

The plans include a residence hall building of three floors with facilities for 200 students; dining facilities for 200 students, with an adjoining kitchen which will be capable of providing lunches for 700 students; and a student union which will consist of study lounges, student activities areas, meeting rooms and a small book and student supplies store.

To meet the construction cost of the proposed buildings, the advisory board has been conducting a fund-raising program with a goal of \$650,000. To date, more than \$555,200 has been received.

The Board of Trustees has also authorized the borrowing of an additional \$725,000 to be repaid from student rentals income.

The program is part of a long-range expansion program for the Commonwealth Campus system, which provides for an enrollment of 1195 students at Altoona by 1970. Present daytime enrollment at the campus totals 415.

The addition to the building at York is expected to accommodate 400 to 500 full-time students and will include classrooms, physics and chemistry laboratories, a lecture room, an increased library, student lounge and office space.

Upon completion of the addition, expected by the fall of 1965, the campus will be able to offer the first two years of baccalaureate programs in the fields of science and engineering. Students completing the two years at York would then transfer to the main campus at University Park.

The cost of the addition is being met by a fund-raising drive in each of the communities in Greater York.

New on Campus —

Lutheran Service of Worship

Sunday — 10 A.M.
Eisenhower Chapel

SERMON: "Conformity in a World of Change"
by the Reverend Arthur Seyda,
Lutheran Student Campus Pastor

— Sponsored by LUTHERAN STUDENT ASSOCIATION —

Beginning Monday

PROPHETIC FAITH

Mondays at 6:30 P.M.
Waring — Room 127

Instructor — Mr. Lee VanBremen
U.C.A. Seminars in religion begin NEXT WEEK
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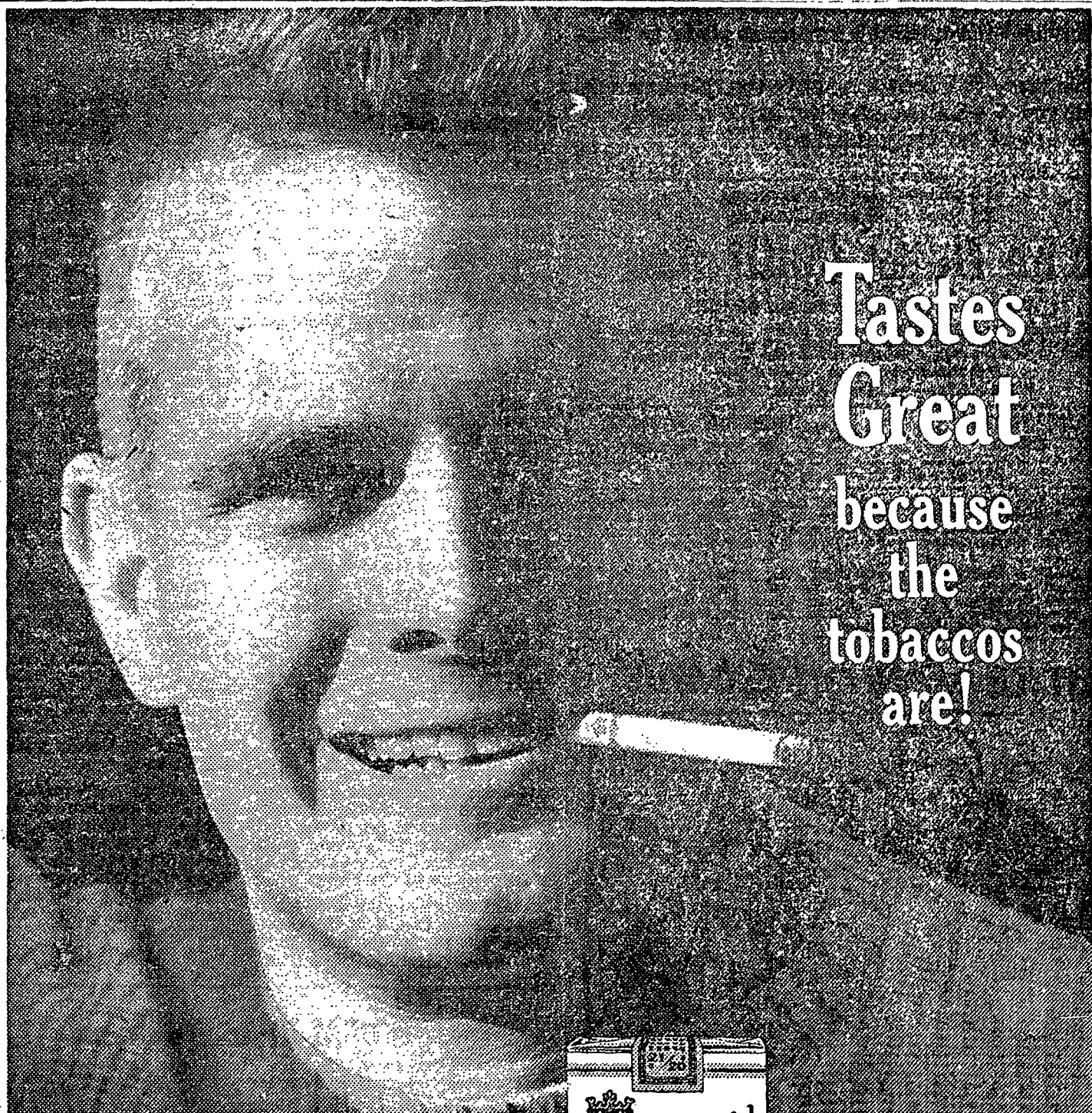
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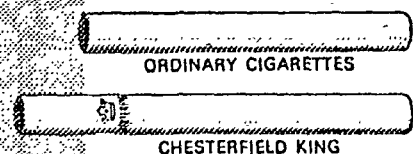
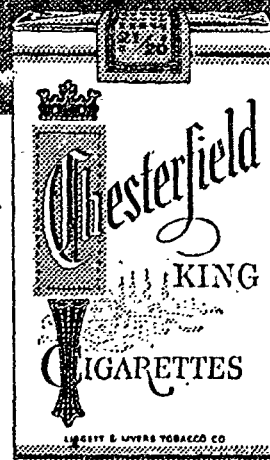
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