

**Tau Beta Pi to Hold Slide Rule Contest**

A slide rule contest will be given by Tau Beta Pi in the Electrical Engineering Building from 5 to 6 p.m. March 20, according to Bobby Richardson, chairman of the Tau Beta Pi Help Session Committee. The contest will be limited to freshmen who have attended the sessions, Richardson said. Basic

applications of the slide rule that were taught in the course will be covered on the quiz. Awards, as outlined by Richardson, will be given to the top three places consisting of \$25, \$10 and \$5. Plans are also being made to present a slide rule as a prize. Material for the contest will be submitted by members of Tau Beta Pi.

ITS FRIDAY

**A&M Wind Tunnel Testing Complete, Now Ready for Modern Aviation Tests**

Recent calibration and trial runs have readied A&M's huge subsonic wind tunnel for service on development, research and educational endeavors in the interest of modern aviation.

The tunnel was established by the A&M System with Temco Aircraft Corp. cooperating through financial gifts. It is administered by the Texas Engineering Experiment Station with Alfred E. Cronk serving as supervisor and Frederick C. Hall as manager.

Located at Easterwood Field, the tunnel is a closed-circuit, single-return type. Overall dimensions along the centerline are 158 by 40 feet and the cross section varies from 7 by 10 feet in the test section to a 30-foot diameter in the settling chamber.

The construction section is constructed of reinforced concrete which transforms from a circular to a rectangular cross section. Turning vanes are located in each of the four corners. Cooling is accomplished by flowing water over the steel shell of the tunnel.

The test section is 12 feet long and is equipped with fluorescent lighting. Plate glass windows are installed in both walls and in the door at the top of the test section. Illumination is sufficient for photography of test installations.

The 8 by 10-foot door at the top of the test section allows models to be easily installed by means of an overhead hoist. The test section is level with the main floor of the building, thus allowing easy

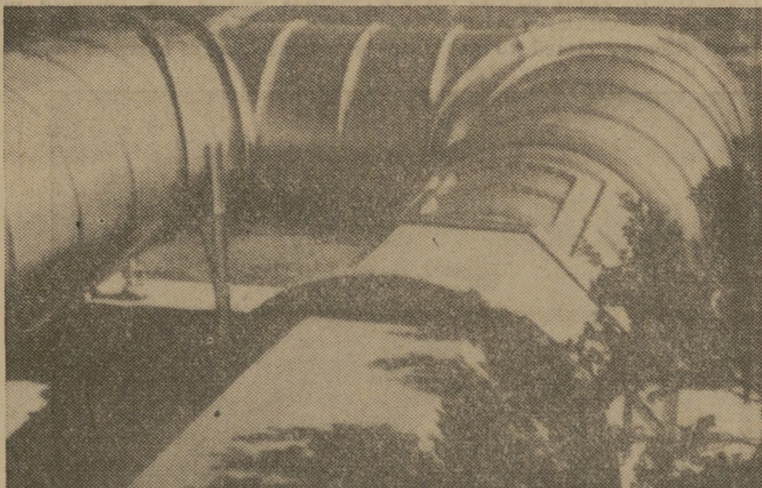
access. Models are hoisted from the ground floor to a model dolly on the main floor and from there to the hoist which lowers them into the test section.

The wind tunnel is powered by a 1000 kilowatt synchronous motor which drives a 12 1/2 foot diameter Curtiss electric propeller. Dynamic pressures from 0 to 100 can be produced giving a maximum velocity of approximately 200 miles per hour.

The motor is completely enclosed in a symmetrical fairing 36 feet in length. Extending from motor fairing to the tunnel wall are five equally spaced anti-twist vanes of a symmetrical airfoil section with a 10-foot chord. Two of these vanes enclose the motor support struts and provide a means of ducting cooling air to the motor.

The control console is located just outside the test section where the operator has a full view of the model. All control is exercised from a single compact panel. Dynamic pressure is controlled by varying the pitch of the propeller.

Along with availability of the wind tunnel, a fully equipped machine shop is at hand for use for minor model modification and repairs. However, complete model building is not accommodated at this shop.



**Now Operating**

Above is A&M's new subsonic wind tunnel located at Easterwood Field. The tunnel will be used by engineers to solve problems in aeronautical designing.

**Vet's Advisor Says**

**Veterans' Laws Open Many Public Educational Benefits**

Many students are not aware of educational benefits available to them from the Veteran's Administration under Public Laws 634 and 394, according to Veteran's Advisor Robert O. Murray Jr.

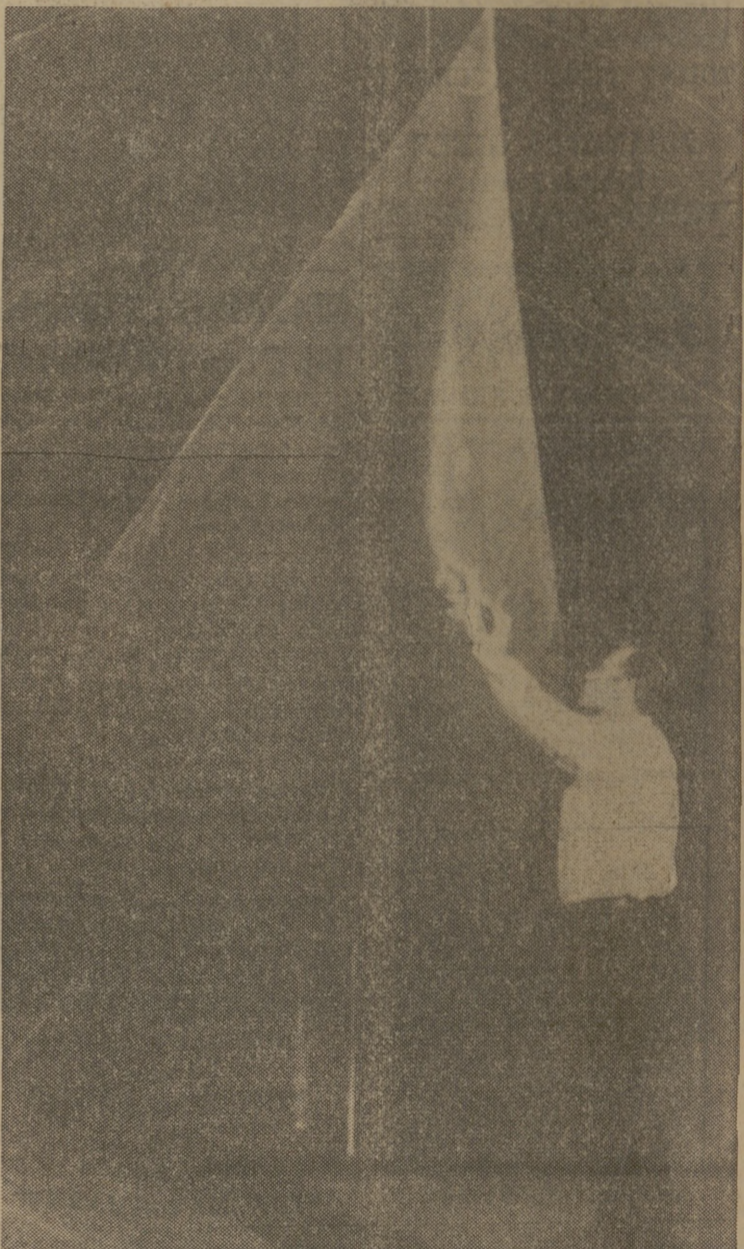
Both laws provide monthly payments similar to those made to Korean veterans, Murray stated.

Children of parents who died while in the service or whose death was due to service-connected injuries may be eligible to apply for assistance under Public Law 634. All branches of the armed forces are covered by this law and there is no set requirement for time or length of service. Twenty-three students are enrolled under the law this spring, Murray stated.

Veterans with at least 10 per cent disability may apply for assistance under Public Law 89. Students receive payment for tuition and books, and, in addition, monthly payments continue for two months after completion of training. Nine students are presently enrolled under this program, he said.

In addition to those enrolled under these laws, 812 are enrolled under Public Law 550, the "Korean GI Bill", and approximately 200 under the Hazelwood Act, a program of the State of Texas which provides for payments of tuition fees in state-supported institutions.

The office of Veteran's Affairs is located in the basement of the YMCA.



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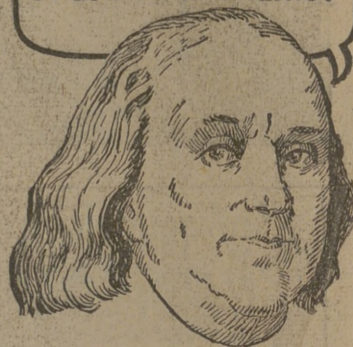
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**Research Endeavor**

Sinclair Wells, graduate student in aeronautical engineering, is using A&M's now-operational subsonic wind tunnel in a research project involving turbulence.

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