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AEROSPACE RESEARCH FACILITY

Dr. Richard Thomas examines a 10-foot section of shock tube under construction in the Gas Dynamics Lab. Effects of shock waves will be studied in the 12-inch, 20,000 volt facility when it is finished this spring. Thomas, an associate professor of aerospace engineering, designed the tube.

Technologists Building Tube THE To Gauge Speed Spectrum

velocity research labs from "cloud hopper" to spacecraft

The Space Technology Division is constructing a 12-inch shock tube, in which aerodynamic processes of entry into a planetary atmosphere will be simulated. The atmosphere of earth, Mars shock waves and chemical effects or Venus can be reproduced in

When tube operations begin this spring, A&M will have test facilities for the extremes of man's speed spectrum. The Gas Dynamics Lab shock tube duplicates 5,000 to 35,000 miles per hour conditions.

The seven-by-ten foot wind tunnel at Easterwood Airport has a speed range to 200 miles per hour.

"I know of no university which has the facilities we will have at A&M," declared Dr. Richard E. Thomas, architect of the \$100,000 facility and associate professor of aerospace engineering.

A&M's shock tube is one of only two in the state or Southwest that is electrically driven.

per square inch generated by inch diameter by 10 inch "driver" 40-foot long tube.

Shock waves are formed like those caused by X-15 rocket er their own capabilities and speplanes and Gemini space capsules re-entering the earth's at-

Passage of the wave superheats an "atmosphere" placed in class and teacher who will superthe tube from bottles of nitro-

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said, are magnetohydrodynamics, and plasma, heat transfer and radiation, wakes, interaction of

Models can be inserted into the 12-inch tube for study.

After each "shot", which will sound like a shotgun being fired, the chamber and tube must be cleaned, a new diaphragm installed and the apparatus evacuated by two pumps.

Pumps remove air from the

150,000 to 250,000 feet of all

"Reloading" requires about minutes, Thomas calculate

Highly sensitive instrum are inserted into the half-in thick aluminum tube in port spaced at three-foot interalong its length. One instru

"We hope to attract resear "and continue to expand our is mission, giving the youth of Te as the finest aerospace engine tube to conditions equivalent to ing training in the country.

16 Education Majors Finish **Student Teacher Training**

Every semester a new group also responsible for the group of students enroll in the student teaching program offered by the Department of Education and

Such a group is now completing its 18-week period of on-thejob teacher training. With the cooperation of local school systems 16 students were able to encounter the actual experiences when they will be in complete charge of a class themselves.

The students teach classes in their specific fields under the diaphram and releases into the guidance of a fully qualified and experienced full - time teacher. They are assigned to classes aftcialties are carefully reviewed.

Dr. William Stokes, director of student teachers, is responsible for matching the student, vise the student teacher. He is

but he consults the teacher und whom the students work to n ceive their impression of student's performance.

A&M students taught cours in seven local schools this sem ter involving 12 different teach ing fields.

Students assigned to Ste F. Austin Senior High Scho were Leopold B. Babin, Stepha E. Chupik, Mrs. Myre Rose and Ronald D. Winn. Assigned 1 Anson Jones Junior High wer Jimmy Nedbalek and Robert I Scott. Philip J. Lanasa was at signed to Crockett Elementary School. Mike Laughlin taught Lamar Junior High School.

Those assigned to A&M (%) solidated Senior High School were Freddy Carlton, James McCollum, Mrs. Frances O'Brie and Jose Valadez. Kenneth No. man and Buddy Williams were assigned to A&M Consolidate Junior High School. Mina Si mon taught at College Hills El mentary School and Joan Ray taught at A&M Consolidate Elementary School.

Area Ag Teachen Wedne To Meet Friday

About 120 Area 3 high school vocational agriculture teacher will gather here Friday and structure urday for their annual Misset up Winter Conference.

Dr. Earl Knebel, head of the Texas A&M Agricultural Education Department, said the ser sion starts at 3:30 p.m. Friday in the Architecture Building Auditorium.

He said the meeting is held ! keep teachers abreast of new programs and the latest teaching methods. Special sessions wi be conducted on farm marketing and horticulture.

In addition to Knebel, Agricultural Education Departs personnel participating are D Earl Webb, John Holcomb Bill Irick.

Area 3 covers counties immed iately east, west and north Houston. Billy G. Lyons Houston is area supervisor.

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ment spectroscopically analyze the 10,000-degree heated gas. support," Thomas comment cilities. But the lab will be us primarily to support our m

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