# **Transportation School Offers Public** Service

#### By RONALD BOTT **Special Writer**

How to use and develop transportation to its greatest potential other phase or activity concerned in serving the public is the objective of research and educational endeavors of the Texas Transportation Institute here.

The institute came into the System in 1950 to:

Research transportation of persons and property, including the field. economy of transportation, physi-

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Ingersoll - Rand Company civil engineering, electrical engineering, industrial engineering,

mechanical engineerng. Swift and Company — agricultural economics, agricultural engineering, animal husbandry, animal science, civil engineering, electrical engineering, mechanical engineering.

Department of Agriculture Conservation Service — agricultural economics, agricultural education, agricultural engineering, agronomy, animal science, plant sciences, range management, wildlife science.

Chicago, Rock Island and Pacific Railroad Company — civil engineering, electrical engineering, industrial engineering, mechanical engineering, business administration, accounting, economics.

Upjohn Company — agricultural education, animal husbandry, biology, business administration, marketing.

General Mills - chemical engineering, chemistry.

Lone Star Gas Company chemical engineering, civil engineering, electrical engineering, industrial engineering, geology, mechanical engineering, petroleum engineering.

United States Steel — chemical engineering, electrical engineering, mechanical engineering, accounting.

Trane Company — aerospace engineering, chemical engineering, civil engineering, electrical engineering, industrial engineering, mechanical engineering.

Upjohn Pharmaceutical Sales biology, chemistry, zoology, animal science, agricultural education, marketing

cal plants and property, the mov- TTI also assists in bringing medium, air transport and any

things. Receive and expand funds donated by approved sponsors to these objectives.

The Institute receives guidance from an advisory committee of about 60 men who represent the engineering phases of transportation and are vitally interested in and familiar with the problems

of all forms of transportation. The institute may take advantage of other facilities and personnel of the A&M System, including the Data Processing Center, center in the Southwest.

Science Center laboratories, with terials for use in paving. a reactor designed for 5-megawatt operation at each of two positions and buildings and paved areas for the A&M Research and Development Center which occupies nearly 2,000 acres north of Bryan.

The institute utilizes the invesevaluation through experimentation and practical application. Project advisory committees of highly qualified engineers from the sponsoring agencies and research personnel from appropriate teaching groups provide valuable advice and guidance for each project.

Projects conducted in highway research include planning, design, construction, operation, maintenance, safety and economic effects.

TTI cooperates extensively with the Texas Highway Department and the U.S. Bureau of Public Roads.

Through various academic departments, the institute provides graduate work leading to Master's and Doctor's degrees. It offers information to the transportation industry through spepublications, and conducts the ent. annual transportation conference,

short courses in traffic engineering and highway short courses.

Your Safety Is

ing carriers with regard to their transportation specialists to cam-

Institute researchers have alwith the movement of persons or ready provided successful solutions for many problems in transportation: More enduring pavements, methods of utilizing more readily available aggregates for Provide graduate instruction construction, test advancement for advanced degrees in this and improving the quality of paving asphalts.

Although public demand has placed considerable emphasis on highways, operations of the insocial, financial, economic and stitute are planned in four other areas: water, rail, pipeline and

Versatility of asphalt as a paving material has long been recognized in construction of pavements. Research at TTI has been directed toward development of asphaltic mixtures such largest campus-based computing as slurry seals for light treatments of road surfaces and to-Also available are the Nuclear ward the evaluation of new ma-

An investigation is in progress to evaluate the quality of paving asphalts. The effects of time, heat, oxygen and sunlight are being determined on representative asphalt cements.

Economic research is being conducted on a broad front. Varitigative approach of theory and ous aspects of transportation are being studied.

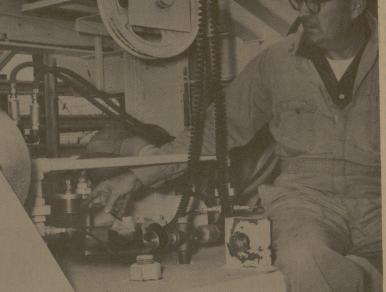
In cooperation with the Texas Highway Department and the U. S. Bureau of Public Roads, a concerted effort is being made to determine and evaluate the economic consequences of constructing new highways throughout the state. These effects are measured in terms of influence the new highways have on land values and use, business activity, travel

habits and other areas. Economists further aid transportation by studying special area, such as costs of operating

private trucking fleets to provide information on alternative costs for better procurement and distribution of goods. Transportation costs the U.S.

more than \$100 billion annually. It is a vital force upon which much of the nation's economic cial adult education courses and and social well being is depend-

> The A&M affiliate is doing its share to understand and solve many of the industry's problems.



#### SEISMOGRAPHIC HAMMER

Floyd Mauldin, operator for Independent Exploration Company of Houston, sits on a device used to send vibrations into the earth for seismographic study. Gas is injected into the 41/2-foot chamber by lines and the mixture is detonated by eight sparkplugs. Such equipment is being used to chart sub-surface formations on campus.

## **Campus Delegation To Attend Engineering Banquet Thursday**

Three Texas A&M representatives will share in the St. Patrick's Day Thursday honors and awards banquet of the South Texas Section of the American Society of Mechanical Engineers and C. W. Crawford, retired in Houston.

Dr. Dale F. Leipper, A&M oceanography professor, is the main speaker. "Approaches to Research in Oceanography" is his subject.

Ronny John Chauviere of Waco will receive the Hugh Scott Cameron Awards as A&M's outstanding senior mechanical engineering student.

Dr. George H. Thompson, professor of mechanical engineering, is a member of the awards committee and will appear on the program.

Other participants include Dr. Clifford M. Simmang, Department of Mechanical Engineering head, T. A. Noyes, assistant professor of mechanical engineering, mechanical engineering professor. The banquets scheduled at the Houston Engineering and Science Society building, 2615 Fannin.

### **Bulletin Board**

WEDNESDAY Aggie Wives Bridge Club will

meet at 7:30 p.m. in the Memorial Student Center.

p.m. in B'Nai B'rith Building. Aerospace Wives Club will hold a cake sale in front of the Ex-



THE BATTALION

College Station, Texas

ground around A&M. Resulting vibrations determine

Wednesday, March 16, 1966

sub-surface structures of College Station.

An Independent Exploration Company seismographic unit is performing the study along Jersey St., in preparation for a proposed highway bypass across the southside of the campus. In- measuring tape. dependent's equipment is also used in oil surveys.

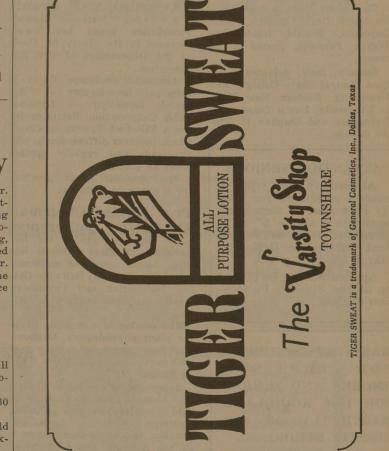
The Dynoseis Exploration unit of Houston requires two primary pieces of equipment. A record equipment truck is connected to a series of geophones strung

A Texas Aggie-sized 18,000- along a half-mile wire line. The pound hammer is swinging at the phone, smaller than an ink bottle, can record vibrations of a person walking nearby.

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The "gun truck" packs an 18,000-pound, pan-shaped chamber that is lowered to the ground at intervals. Gas is injected into a 41/2-foot chamber and detonated by means of eight sparkplugs. The "thump" is a geological

Roscoe Wilber of Houston, in charge of the unit, said two-mile lines of phones are normally used with two "gun" units for seismographic work. The equipment takes the place of regular oil field seismic charting equipment.





Hillel Club will meet at 7:30 change Store.





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