TTI Gets Grant For Traffic Study

contract for development of an automatic freeway traffic-merging control system has been awarded the Texas Transportation Institute of Texas A&M announced Engineering Dean Fred J. Benson.

The \$ 497,800 contract was awarded through the A&M Research Foundation of which Benson is foundation director.

The proposed control system will measure gaps between freeway vehicles and, through electronic apparatus, signal cars or trucks waiting on entrance ramps into the traffic opening.

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A simplified experimental mod-

A U. S. Bureau of Public Roads el of the proposed system is now in operation on the Telephone Road interchange entrance ramp of the Gulf Freeway. It was developed by researchers on a previous contract. TTI Executive Officer Charles

J. Keese said Dr. Donald R. Drew will be principal investigator and project director. Dr. Johann H. Buhr was named co-principal investigator. Drew heads TTI's highway design and traffic engineering department and is a civil and industrial engineering professor. Buhr is an assistant research engineer and civil engi-

neering professor. "A merging control system is

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possible through existing electronic technology," Drew stated. "To improve freeway conditions, the driver must be supplied information to time and space his entrance to the acceleration lane, coordinate his speed change and

point of merge." Gulf Freeway equipment consists basically of detection apparatus measuring gaps between freeway vehicles upstream of the merge area, a traffic signal on the ramp 200 feet from the merge area and a controller.

"When a desirable freeway opening is detected, it is projected downstream by delay circuit to a point where a waiting vehicle or

the ramp can pull into the gap," Drew explained.

He said the project will research three activities concurrently. Ramp operation will be studied for data at several problem locations across the U.S. A test track with a freeway-type merging area will be constructed at the A&M Research Annex to test systems under controlled conditions.

An IBM 1800 digital computer will be installed at the TTI Surveillance Center in Houston to simulate different forms of merging control under actual conditions.

lated fields such as physics and

mathematics from 18 colleges and

universities across the nation who

participated in the fifth annual

student conference of the Amer-

ican Nuclear Society held on the

University of Wisconsin campus at Madison Friday and Saturday,

All sessions of the conference

were held in the Wisconsin Cen-

ter on the University's Madison

campus. The conference program

included tours of the Wisconsin

clear Reactor Laboratory, Plasma

Physics Laboratory, and Elec-

Papers were presented at the

conference in such areas as nu-

actor engineering, plasma physics,

physics, radiation interactions,

reactor technology, and thermo-

the conference were William

Woodruff, "Critical Flow Velo-

cities for collapse in Concentric

Cylinder Assemblies; Sensintaf-

far, "The Short Term Response

of the Peripheral Lymphacyte to

Ionizing Radiation"; and Ram-

Students presenting papers at

April 14-15.

awards.

nuclear energy.

3 Aggies Attend Nuclear Science Meet Saturday HELP WANTED APARTMENTS FOR RENT

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OFFICIAL NOTICE STATE MOTEL, rooms and kitchen, day and weekly rate, near the University, 846-5410. 262tfn Official notices must arrive in the Office of Student Publications before deadline of p. m. of the day preceding publication

Two bedrooms with private bath, private entrance, prefer men students. 822-3216. 430tfn THE GRADUATE COLLEGE THE GRADUATE COLLEGE Final Examination for the Doctoral Degree Name: A irhart, Tom Patterson Degree: Doctor of Philosophy in Civil Engineering Dissertation: The Response of a Pile-Soil System in a Cohesive Soil as a Function of the Excess Pore Water Pressure and the Engineering Properties of the Soil Time: A pril 20, 1967 at 3:00 p. m. Place: Conference Room in Texas Trans-portation Institute Wayne C. Hall Dean of Graduate Studies 432t2

Veterans and War Orphans who expect to attend summer school under the G.I. Bil or War Orphans Bill are requested to re port to the Veterans Advisor's Office and complete a pre-registration form. We car enroll in May and assure continued pay without delay. 42822 • Built in stove, refrigerator and disposal. 822-8022

Those undergraduate students who have 95 semester hours of credit may purchase the A&M ring. The hours passed at the time of the preliminary grade report, April 3, 1967, may be used in satisfying the 95 hours requirement. Those student qualify-ing under this regulation may leave their name with the Ring Clerk in the Registrar's Office in order that she may check their records to determine their eligibility to order the ring. Orders for the rings will be taken between April 17 and May 31, 1967. These rings will be returned to this office for further delivery on or about July 5, 1967. The Ring Clerk is on duty from 8:00 a. m. to 12:00 noon, Monday through Friday.

H. L. Heaton, Director of Admissions and Registrar 420t32

ENGLISH PROFICIENCY EXAMINATION The English Proficiency Examination re-quired of all junior students majoring in Education or in Psychology will be offered from 3:00 to 5:00 p. m. on April 13 (Thursday) and again from 5:00 to 7:00 p. m. the same day. Students may take the examination at either time by report-ing to Academic 108. Examinees should bring pen, pencil, dictionary and composi-tion paper. 417t13

The 1986-67 official directory of offices, staff and students is now available. You may send your orders (interdepartmental orders, etc.) to the Student Publications Office, YMCA Building. The price is \$1.0^A

INDUSTRIAL ENGINEERING WINS AWARD The Department of Industrial Engineering Receiving the award on behalf of the In- gineers.

dustrial Engineering Department is David has been presented the Student Engineers' Woodard, president of the student branch Council Career Day Open House Award. of the American Institute of Industrial En-

Aggie Joins Research Tour

Tuesday, April 18, 1967

A Texas A&M oceanographer for university and Smithsonian excellent." Institute scientists to study, rode research ship Eltanin's maiden campus and the University's Nu- trip into McMurdo Sound.

THE BATTALION

McMurdo is less than 12 degrees from the South Pole and tron Accelerator Laboratory, and inaccessible to ships nine months a banquet and presentation of each year.

George H. Weissberg, 38, a graduate research assistant of A&M's Oceanography Departclear reactor physics, nuclear re- ment, was party chief for a twomonth cruise in the Pacific secnuclear instrumental, nuclear tor of the Antarctic Sea.

The A&M doctoral student was nuclear rocket propulsion, fast responsible for instrumentation and data collection for primary productivity research conducted by Dr. Sayed Z. El-Sayed.

A&M scientists have participated in Antarctic cruises two years, measuring data to coordinate various physical and chemical parameters affecting oceanic primary productivity.

The tiny marine life, known as diatoms, is the first step of a

this time of year," Weissberg strong ultraviolet light caused collecting Antarctic marine life said. "Sampling conditions were improper movie film exposure."

He added that the cruise off the the National Science Foundation Ross ice shelf produced a large whaling trawlers and a processcollection of brachiopods.

Weissberg said the Eltanin encountered numerous icebergs, sighted "quite a few" whales and visited Antarctic Island penguin rookeries.

The two-month cruise included legs to McMurdo, site of an atomic reactor-powered U. S. Antarctic Research Program station, and Australia with visits at Balleny, Macquarie and King Islands.

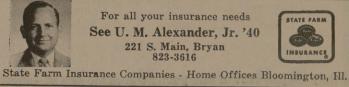
"I obtained about 300 color slides," the former Westinghouse sales representative said. "But Arctic.

The Eltanin sighted three ships in the Ross Sea, two Russian ing ship.

Weissberg was party chief of a two-man unit including A&M technicians Aquiles de Romedi and Roberto Robina of Argentina. They were among 70 aboard the 266-foot Eltanin.

George and his wife Sue have two sons, Carl 10 and Bryan 8. She accepts the cruises as a way of life.

He will make a 10-day Gulf of Mexico cruise to Veracruz this month. Weissberg also will make an Eltanin cruise next August to Australia, Japan and the sub-





College Station, Texas

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