Will talking tractor be farmer's backseat driver? W

Reporter

A farmer's best friend is his tractor — and one day soon it will be able to talk to him, giving him advice on how to better operate the machine.

A team of agricultural engineers at Texas A&M is developing the talking tractor to help save fuel and money on the farm. The talking will be done by a microcomputer that tells the driver how to operate the tractor more efficiently.

"The microcomputer monitors or reads what the tractor is doing," Stout said. "It tells the operator what his work load is operator adjusts gears and speeds correctly.

"Our main objective is to doc-nent how Texas farmers use a travel speed and work gear to sensors measure the amount of ument how Texas farmers use tractors," said Dr. Bill A. Stout, professor of agricultural engineering. "Our second objective

is to conserve fuel.' Studies by the Texas Agricultural Extension Service predict the microcomputer system may cut farm fuel consumption as

get the most out of fuel.

Stout said tractors perform several levels of work, ranging from heavy (plowing), to light (planting).

Fuel is wasted when a powerful tractor designed to perform heavy work is used for light

sensors measure the amount of pull the tractor is using to move

The tractor used in the program is a John Deere 4440, loaned to the University by the Deere company.

'Our budget wouldn't allow the purchase of a tractor," Stout said. "That tractor is worth \$40,000 to \$50,000. We sought help from John Deere and they loaned us the tractor and gave

The tractor program is supported by three groups: the Texas Agricultural Experiment Station, the Center for Energy and Mineral Resources, and John Deere. Stout said a "bal-lpark figure" of about \$100,000

has been spent on the program since it began three years ago. "We use the money mainly to buy equipment, like computer equipment and other kinds of sensors," Stout said. "It also goes to supporting the grad students who work on the pro-

Stout and his associate, Dr. Stephen W. Searcy, assistant professor of agricultural engi-neering, have been involved in the program since it began. Stout is in charge of the mechanical aspects of the project; Searcy, the microcomputer

Searcy is working on methods for speech synthesis in the

computer is not yet spec is measuring efficiency, by Would In fact, the tractor and wilson puter system were tested farm last fall.

"The microcomputer missing mentation worked beamher case which was what we wantereat deknow," Stout said. "We'r sible car being fully operational ma Our microcomputer repr a major investment of timesciences

A&M scientists to go to sea for ocean drilling tests

By SUZY FISK Reporter

Texas A&M scientists will head out to sea in January 1985 to begin a 10-year ocean drilling project its director says is the

biggest ever Texas A&M officials are expected to sign a \$124 million providing logistical and technicontract today to direct "the

University as the science operator for the program, which is sponsored by the National Science Foundation. Responsibilities of the science operator are cal support for a team of scienlargest ocean drilling project in the world," said Dr. Phillip Rathe world," said Dr. Phillip Racore samples and the coordinatcore samples and two-month gins and paleo-oceanography to drill at the world.

will help scientists study what the ocean floor is made of and how it's formed. Other studies will be on the evolution of the ocean basins and how they are formed, the evolution of passive and active type continental mar-

binowitz, director of the Ocean Drilling Program. ing, editing and publishing of the final research product.

The contract designates the Rabinowitz said the program and animal fossils. A new technique on the development of bare rock drilling will be also

The ship selected for the internatonal program will be the SEDCO-BP 471, "the finest drill ship in the world," Rabinowitz The 16,000 ton ship, owned jointly by SEDCO and British Petroleum, was selected to drill at various sites around

The ship can drill to depths of 30,000 feet, but the deepest drilling during this program will be 27,000 feet. There are 55 crew members and the ship

will accommodate 50 scientists. Scientific direction will be provided by the Joint Oceanographic Institution for Deep Earth Sampling, who will also select scientists from U.S.

international members are other 12,000 square fe from Canada, Germany, oratory space. The France, Japan, England and the European Science Foundation. Each cruise will have a different team of scientists who will be responsible for information gathered during each two-month

period that the ship is out. Additional funds will be prooceanographic institutions and those from other participating into a "four-story house" for the

oratory space. have a computer syste keeps the ship in positi time of drilling and will low direct contact wi

headquarters here at an The University will drilling operations cer core repository in the A&M Research Park tob off Highway 60.

THE UNDERGROUND

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Measle cases drop to new **United Press International**

ATLANTA — Measles cases have reached their lowest level in 71 years, representing a 99.7 percent reduction from the pre-

vaccine era, federal health officials said Thursday. The national Centers for Dis ease Control said a provisional total of 1,436 cases of measles were reported in 1983, a record

low incidence rate of 0.6 cases per 100,000 population and the fewest cases since the nation be-

gan keeping records on the dis-

CDC's immunization division said measles "is no longer a ma-jor public health problem but it remains a public health concern indigenous measles (non-im- low year. ported) entirely.

"We do know that when the effort to control measles is relaxed the disease returns. If it is not eliminated, the opportunity This is a 99.7 percent reduc- exists for measles to re-establish tion from the pre-vaccine era, itself in our population.

nual average of 525,730 cases curred in college students and were reported ...," the CDC- in children under age five who said. Dr. Robert Aimler of the immunization requirements.

The 1983 total represented a 16.2 percent decrease in mea-sles cases from the 1,714 cases because we have not eliminated in 1982, which also was a record

Of the nation's 3,139 counties, 3002 or 95.6 percent, reported no measles cases during the entire year and every county was free of measles for at least six consecutive weeks in

more than 77 percent digenous cases - In nois, California and Flo

Federal health offi hoped to eliminate hood disease and laur education and vaccin paign to accomplish the But they failed to achieve Oct. 1, 1982, eradication

The CDC said although ination of indigenous had not been achieved, th ease's attack pattern and of transmission had been

Executive explains expectation By LISA PEDERSEN

Reporter

An executive for Tenneco stations. pany expects from engineering ries is to give you a clue on what graduates who are first year you can do early in your career employees with the company Thursday night.

Joe B. Foster, executive vice president for Tenneco, began

his lecture, "What do you call an Aggie five years after Graduation?", with anecdotes on bus

"The reason for the bus stoto avoid missing the bus and take off like a rocket instead," Foster said.

The bus stories were jokes. Foster's outline on what it takes to start the countdown toward

success was no joke.

Tenneco is looking for engineers who can think clearly, get the job done, communicate their ideas, provide leadership and show professionalism, Fos-

"You can't play in the major league if you can't get a curve,"

AUTO INSURANCE FOR AGGIES Farmers Insurance Group 3400 S. College 823 8051 gineer if you can't think. The risks are too high, the consequences are too great for

mistakes by engineers, so they have to think clearly, Foster Tenneco is also looking for engineers who can get the job done right the first time, Foster

"We are looking for people who will go the extra mile," he said. "I've seen people come early and stay late if that's what it took to get the job done."

Thinking clearly and getting the job done won't do the young engineer any good if he can't communicate his ideas, Foster

good ideas but are not good communicators," Foster said. Those who don't use the English language correctly or can't spell are not good engineers."

Foster said. "You can't be an en- looking for people with a

"I've seen alot of people old Hous because they were too was mitted up in themselves," Foster name-th

Furthermore, Tenned Prizes. St. looking for people with aname from ership potential, someone name an has the drive and dedicate she once get the job done, Foster said leader decides what he want the in happen and does what is born Feb essary to do it," he said.

Finally, Tenneco is lo for someone dedicated to fessionalism, someone who it like it is, but with inter

ter concluded with, "As referred In addition to being able to on the right track, if communicate, Tenneco is there you'll get run over.

Cripple Creek



LOCATION: In the heart of student living on University Oaks, Cripple Creek is on the shuttle bus route and is popular because of its closeness to restaurants, clubs and shopping. Investors can enter their condo in a lease pool and be assured of professional management.

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