Saviation improvement is bjective of researcher

at Texas A&M University

esearch directed by Howard evalier, Texas A&M aerospace gineering professor, will soon e to wind tunnel testing of a scale aircraft equipped with a ler-type stall prevention system.
s will be conducted at Langley 10 esearch Center facilities in nia. The studies will involve ior aerospace engineering majors ke Faulkner of Bryan and Bruce er of La Feria.

hevalier and students ran similar in the Langley tunnel last

ull-scale flight tests are planned

ey are expected to produce a prevention system applicable to eneral purpose airplanes for the Naal Aeronautics and Space Admination. NASA funds the research. all and aircraft spins that fretly occur after a stall are the est single cause of aviation death

Stall occurs when a plane goes into high angle of attack attitude and airspeed. Airflow separates om the top of the wing, causing a sof lift.

Chevalier has worked on a stall vention device since he joined Texas A&M faculty in 1969. His efforts were unfunded but were backed by the Federal Aviation

he system consists of a vane or er attached to a plane's control

ographers from Texas A&M wersity is on hand to see who is

ailing off the coast of Africa to the outh of the Mississippi, a research oup from the Texas A&M oceanog-

y department has begun its rd year of study. The study is a

ult of a \$77,400 grant from the onal Science Foundation. Team

ders Dr. John Johnson and Nor-

an Guinasso Jr. were the prime overs in getting the work funded

We are trying to develop a longe understanding of how the

ean regulates its composition," id Dr. David Schink, another team

"As we damage the ocean pollutants, the sea fights back

noving these materials through

tural filtering process. We mea-

re is a constant interplay of forces encing this interaction on the

What it comes down to is actually

ace between what goes in and

that race."
e race is studied by actually

g around the world gathering

oles from the sea floor. Most of

Gyre, the University's primary arch vessel. Samples have al-

es out," Schink said. "We

lie re how this is done.

vane or spoiler, preventing stall.

The system has been test flown on (he's told never to get his plane in a single and twin-engine aircraft and demonstrated in flights at several naeral aviation would be marked." tional aerospace engineering confer-

"NASA wants a more up-to-date system, in a 'small black box' of three by six inches, for installation near appropriate control surfaces, Chevalier said.

"We hope we will also get the aerodynamics of the plane at high angles of attack to see what effect the system has," he said. "At that point, we will have a stall-proof plane and want to know what its aerodynamics are, now that they are in a range non-predictable according to

From those numbers, Chevalier added, it should be possible to work backwards and "see what the geometry of a stall-proof plane is. That's my goal, to achieve a stall-proof general aviation plane by its geometric configuration, rather than

He said that such geometry would radically alter the appearance of aircraft. Major changes would appear in wing and tail design, said the former NASA research engineer.

'Having a stall-proof general aviation airplane would increase its utilization by allowing a pilot more freedom," Chevalier said.

About one in five persons go past their first flying lesson," Chevalier said. "Approximately one in 10 continue past a private license. For some, the reason is money. But we ces. An altitude sensing device don't know how much is stress. If we

Coast of the United States, and in the Caribbean. Next year the Texas

A&M team plans to examine the

change," said Schink. "Mud, bacteria and a variety of marine organisms play an important part in mixing, filtering and turning over the ocean floor. The sea bed acts as a

filter. We are interested in the rate

these organisms in the mud stir the

The atomic age and nuclear testing has provided the Texas A&M re-

serachers a means for measuring the

sea floor's mixing or filtering rate,

"By bomb testing, man has spread a small trace of plutonium across the

land and oceans," said Schink. "Us-

ing radioactive sensing equipment,

we can measure the amount of

"Mud accumulates very slowly. If there were not mixing, the plutonium would lie just on the sur-

ace of the ocean bed. By looking at

the plutonium below the surface, we

have a way to measure the rate of

stirring. In 25 years, the traces of plutonium have been sifted some 10

The actual rate and depth varies

around the world, but one of the

around the mouth of the Mississippi River."

\$2.00

centimeters into the ocean floor.

The sea floor is under constant

lea fights pollution

y filtering process

race is taking place on the sea ready been taken off the coasts of sof the world, and a team of Africa and South America, the East

floor of the Pacific.

Runaway hippo holding out

IRVINE, Calif. — Bubbles was alive and well Tuesday and still eluding Lion Country Safari rangers who are confident they can return her safely to her 800pound daughter at the wild ani-

Rangers tried to fire tranquiliz-

popotamus during the night but were unsuccessful. Bubbles, who escaped from captivity Feb. 19, remained submerged in a lake.

"Bubbles is alive and well," said park spokesman Jo Schetter shortly after dawn.

Pickets protesting reports Bubbles might be killed had created crowd control problems

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endangered the hippo's life.

"The rangers are going to have to shoot to kill if she endangers humans," she said. "The best thing they can do for Bubbles is to stay away from the area. We can bring her home if given time and no interference from outsiders. We have the trained manpower to bring that hippo in alive."



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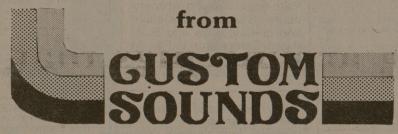
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FOOTBALL BUSING SURVEY Please check the appropriate box.

Essentially, we want to find out badly man can treat the ocean plutonium on the ocean floor.

"Mud accumulates very slow

sampling is done off the 174-foot higher ratings we have found is

Do you live off campus? I would be willing to ride a special bus from near my residence to home football

games if available. I would be willing to pay for this

I would be willing to pay up to: .50c \$1.00 (check the highest amount)

5. I would be willing to use a special bus for midnight yell practice if available.

6. I would prefer to pay for this service

at registration time when I pick up my football ticket

only at game time

Have you ever sweated or steamed in the traffic snail that occurs every Saturday before and after home football games or had to park and walk half a mile to the game? Have you ever wanted to go to Midnight Yell Practice and not had a ride? Then fill out the survey that TAMU Off-Campus Student Association (OCSA) is sponsoring this Tuesday,

Wednesday, and Thursday and let your voice be heard! OCSA is considering several different methods of financng and routing the buses, and the survey is designed to neasure student opinion on these methods. The surveys can be found and returned, or you can use the one in the Batt, to all the shuttlebus stops, first floor of the MSC, and Room 216 in the MSC

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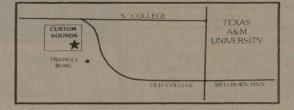
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