Hyperbaric laboratory pioneers igh-pressure oxygen research

By FLAVIA KRONE

white pressure chamber in as A&M's Hyperbaric Labora-looks like nothing more than a

ut Texas A&M researchers, ler the direction of physiologist liam Fife, are using the chamber neer new discoveries in the of high-pressure oxygen re-

fe and his associates use the erbaric chamber to treat persons ring from a variety of afflictions grafts and osteomyelitis, an in-

average of three patients a day treated in the chamber, five a week, year-round, Fife said.

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During the two-hour treatment. chamber are put under pressure Fife said. "But we don't know why.

pressure oxygen increases the level laboratory patients. of oxygen in body tissues, Fife said. "These cases only serve as a train-

amaged tissue, he said.

Some diseases can be arrested or The Hyperbaric Laboratory, lodamaged tissue, he said. baric therapy, Fife said.

rene patients' arms, legs and even rats and mice lives have been saved by the treat- Fife's graduate students are given

ing failing skin grafts to take hold a week. and grow.

pressure oxygen treatment works.
"All we know is that it seems efpatients inside the pressurized fective in curing some diseases,

equal to being "taken down" to a Fife is quick to say that he and his depth of 45 feet underwater. They team of researchers do not practice are given pure oxygen to breathe.

Exposing patients to highnot conducted on the hyperbaric

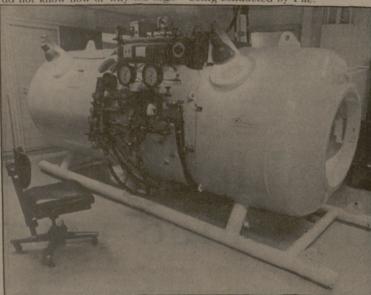
The higher oxygen levels tend to kill ing experience for our students," disease-causing bacteria and stimulate the growth of capillaries into still is medically responsible for the

ding from gas gangrene to failing cured in days. Others may take cated near Easterwood Airport, conmonths of treatment. Many diseases tains seven pressure chambers. One are not helped at all by the hyper- chamber is rated for use by people such as the medical patients, Fife High-pressure oxygen seems said. There are two large animal most effective in arresting the chambers and four small ones that spread of gangrene, and many gan-will hold animal test subjects like

ment.

In addition, Fife's team has enjoyed some success using the chamber to treat the infectious bone disease, osteomyelitis, and in help-

Medical treatment is only one as-However, Fife said scientists still pect of the hyperbaric research being conducted by Fife.



Once a deep-sea diving bell, this high-pressure tank has been converted by Texas A&M researchers into a high-pressure hyperbaric chamber used in treating patients with a variety

Fife's team has been testing an oxygen-hydrogen breathing mixture that may enable divers to work at depths of 1000 feet and more. Currently, working divers are limited to a depth of about 600 feet.

Called "hydrox" for short, the newly-developed mixture previously had not been used by divers because it is a potentially explosive compound, Fife said. However, researchers recently discovered that the mixture remains stable when the oxygen content is held at a 2

"By keeping the oxygen at 2 percent we have been able to use the mixture for 6000 hours of testing." without a single accident," Fife said

The hydrox mixture has several advantages over conventional diving mixtures, Fife said.

Breathing mixtures containing nitrogen act as a narcotic at depths of 200 hundred feet or more and mixtures of helium affect the central nervous system at depths below

Hydrogen gas, on the other hand, is lighter and less dense than either nitrogen or helium. Not only can divers go deeper, they also can surface and decompress in less time than is now required to avoid getting the 'bends" from nitrogen bubbles forming in the blood.

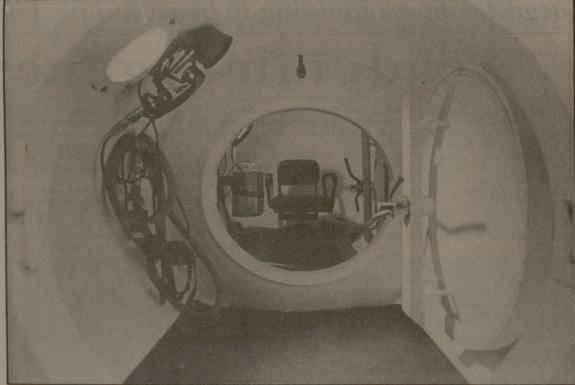
In other research, Fife's students are exploring the effects of scuba diving on pregnant women.

Taking pregnant sheep on simulated 100-foot dives inside a hyperbaric chamber, researchers monitored the blood flow through an umbilical artery. Tests showed that massive bubbles appeared in the fetal circulation as a result of the

Untreated, these bubbles would have resulted in death for the fetus by what divers commonly call the

pregnant women who scuba dive deeper than 60 feet run a risk of harming their unborn child.

"What some people would consider a safe, no-decompression sports dive could kill the infant," for the controlled growth of the Fife said. "An unborn infant could get the bends and die without the plan on enrollment shows a gradual mother ever feeling any symptoms.'



This unusual door leads to one of Texas A&M grafts and gangrene. While in the chamber University's seven hyperbaric pressure patients are put under pressure equal to that chambers. This particular chamber is used to of being 45 feet underwater. treat patients with bone diseases, failing skin

Enrollment figures indicate less space, more women

By MARK WILLIS

Battalion Staff
Enrollment will increase at Texas

A&M University again this fall. The Planning and Institutional Analysis Department of the school projects that 29,928 students will ave enrolled by the end of the registration period, Don Wood, admin istrative planning analyst, said. This projection reflects an increase of 3.8 percent or 1,095 students over last fall's enrollment.

However, the increase is considerably less than in the past few The observations suggest that years, during which the school's regnant women who scuba dive population doubled. The slow-down and control growth

The Texas A&M board of regents has been working on a five-year plan for the controlled growth of the slowing of population growth, as

PERCENT ENROLLED INCREASE 1979 .32,079. 1981 32,430.

This slow-down in growth does not indicate a lack of potentialstudent interest in the University; the number of applicants for admission is increasing at a far greater rate than enrollment. The school officials believe the University can only serve a limited number of students up with demand over the past

1,702 faculty members or one ing.
teacher for every 17.5 students. The number of faculty members for the pattern in recent years, will include the same, school officials have said. pected to be small.

Campus housing has created the most problems related to increasing enrollment for the University. This fall there are 5,880 bed spaces on campus for men and 2,354 for women. These have all been reserved and by early July there were 1,133 men and 1,210 women on lists waiting for someone to cancel a room

reservation. The regents have approved funds for a feasibility study on a planned 500-bed dormitory and are considering plans for a 120-bed women's athletic dormitory.

and still maintain desired academic couple of years, but many students would still prefer the cheaper and Last fall the University employed centrally-located dormitory hous-

fall term has not been set as of this a greater number of women than writing, but the ratio will be near men, although that difference is ex-

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