UT studies bones in space

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NO COVER FOR LADIES

United Press International HOUSTON — A University of Texas research team is trying to figure out how to keep astronauts' bones from dissolving during long space missions, and their findings could help decide whether people can have space station careers.

Without counter measures, longterm weightlessness could render spaceworkers of the future unfit for life or work on Earth — raising the prospect of an Orwellian division of labor between space and Earth

Dr. Victor Schneider, an associate professor of endocritissue after their return to Earth. nology at UT, said the body has some mechanism that recognizes when bones are less needed to support the body against gravity and starts doing away with important bone

POST OAK MALL

15

22

29

recognizes it needs less bone mass and goes about establishing a new equilibrium with less bone mass," Schneider said.

The metabolic mystery raises the prospect of astronauts' reluss bone mass," Schneider said.

Studies on Skylab indicated astronauts lost bone mass at the rate of one-half percent a month, and that stress points — like the heel, the ends of the leg bones and edges of spinal vertebrae — might disappear at 5 percent a month.

Schneider said limited bone loss rates might not cause prob-lems for at least a year or two, but the troubling fact is that so far there is no proven way to cause adults to recreate lost bone

That means bone tissue lost in space may be lost forever.

"This would be fine if the astronaut were to stay in space forever, but on re-entry to "Without gravity, the body of bones just getting off a potential of immediate fracture ducing bone mass.

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TEXAS STYLE ROCK & ROLL

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weakened condition. In addition, a person who suffers a spinal stress fracture on Earth often loses an inch or inch and a half in height, Schneider said.

"The indiviual (after long-term flights) could be put in the position where they would not have enough bone to sustain ordinary stresses of life,"

Schneider said.

The best countermeasure, of course, would be artificial gravity on spaceships and stations. But cost and design problems so far have kept this out of American space plans.

Exercise has been shown on Skylab missions to be virtually forever, but on re-entry to ineffective in overcoming the Earth's gravity, there is the effects of weightlessness in re-

Schneider, who in December

study to be financed by a \$225,000 grant from NASA, will be focusing on possible dietary drug approaches to the problem.

Two potential tools are chemicals — diphosphonates and flourides. Both already are readily available to physicians.

Diphosphonates are a potential substitute for a normal body substance called pyrophosphonate, which stops bone resorp-

The important difference is that diphosphonates can be built up in the body for longterm benefits whereas pyrophosphonates are metabolized too quickly and do not build up in the system for later use.
"The basis (for flouride

study) is it is believed flouride is one of few substances that can cause new bone growth in an adult," Schneider said.

'The premise would be that before the astronaut went into ney stones.

space so they would have new bone and would have more bone to lose, or you could continue to give them flouride in space.

"One of the theoretical problems is making new bone in space without gravity could result in the bone not orienting properly," Schneider said.

Schneider's team plans to study astronauts before and after shuttle flights, participate in studies of astronaut health maintenance in space, study bed-ridden patients and check on the impact of exercise.

They also will study post-menopausal Caucasian women who lose more bone mass than any other group of people, studies have shown.

Solving the bone resorption problem might also ease a re-lated health risk for astronauts. Astronauts who are losing calcium from bones into the blood stream and kidneys run a greaeither you would give fluoride ter risk of the discomfort of kid-

Judge gets MADD over drunk drivers

United Press International
McKINNEY — In an attempt
to rehabilitate drunk drivers, a Collin County judge is sentencing them to work with families who have lost relatives in alcohol-related traffic accidents.

In the past month, Court-at-Law Judge Robert Harkins sent-enced six people to work with the county's chapter of Mothers Against Drunk Drivers

Donald Johnson of Plano was the first of the first-time offenders to be given the sentence. He refused to talk about it, but chapter founder Kelly English of Melissa, described their early encounters as "walking on thin

English said the initial meet-ing was awkward, but that wore off and chapter members "didn't mind having him around

"I don't see how anyone could get drunk and get in a car after they've worked with these people," Harkins said. "I believe Mothers Against Drunk Drivers are extremely motivated people, and this strong sense of commit-

ment can be transferred to a first-time offender." MADD was founded by a California woman whose daughter was killed by a drunk driver. Since then, chapters have been pushing for public pressure and egislation to stop drunk drivers.

The idea for sentencing drunk drivers convicted in Collin County to work with MADD originated with the chapter.

Spokesmen for MADD chapters in Houston and Dallas said Harkins' idea is a good one if offenders are willing to coop-

We could take some of them, but they would be screened very carefully before they came in to work for our office," said Milo Kirk, president of the Dallas MADD chapter.

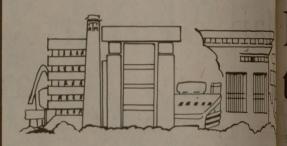
Now you know

United Press International TIMES BEACH, Mo. — Federal agents have found up to 1,200 stolen rare books in the Missouri town contaminated by dioxin which spread throughout

homes in December flooding. FBI agent Charles Jones said the books were found covered with mud, even though they had been wrapped in plastic and placed in a storage locker. The Meramec River flooded the

town in December.

The books are believed to be part of a collection convicted thief James Shinn acquired from some 30 universities, colleges and seminaries. Shinn, 45, was sentenced to 20 years in prison after pleading guilty to two charges related to transporting stolen books



Around tow

Executive of the Year chosen

Ben Love, chairman of the board of the Texas Com Bank - Houston and chairman and chief execu Texas Bancshares, has been named the Texas A&MC of Business Administration's "Executive of the Yez"

Love will speak on the future of banking in an address and awards presentation Friday at 10 am. in 10 of the Academic and Agency Building. The award is given each year in recognition of our ing achievement and service by an individual executive. was selected by the the business school's Developm cil, composed of 40 top Texas executives and a fiven

executive committee selected by the dean of the older Love is a 1947 business adminstration graduate. University of Texas at Austin. In addition, he is a find director and presidnet of Houston's River Oaks Reverous Committee of Committee Committe Trust Co. and presently serves on the boards of dire Cox Communications Inc., the El Paso Co., Hugh Co., Pan American World Airways Inc., Proler Inter Corp. and Texas Commerce Bank - Austin.

Library to sponsor Computer Fai

As a highlight of National Library Week, the Bryank and SCORE, Service Corps of Retired Executive, a sponsoring a Computer Fair Tuesday from 9 a.m. 09 pt the Bryan Library.

Microcomputers, software and other services, will display. There will be opportunities for hands on

ences and demonstrations. Applications of computer nology for small businesses and homes will be emplar Businesses participating in the fair will be Radio Computer Center, Young Electronics, Micro-Office nology, A.B.E. Systems Inc., Custom Operating Systems Computer Leading Systems and Sort Peter Computer Leading Systems and Sort Peter Computer Leading Systems (Sort Peter Computer Leading Systems). Inc., Computerland and Sort-Data Corp.

Alpha Zeta to install new officers

The Texas A&M chapter of Alpha Zeta, (the natio cultural honor society) recently held elections for its officers. The individuals elected were: Robert Las chancellor; Tom Sames, censor; Albert Randall, Ita

Gloria Sanchez, scribe, and John Jurek, chronice The officers will be installed at the Annual Spi quet tonight at 7 p.m. at the Brazos Center. The speaker will be Maj. Kenneth Wolf, formerly of the ment of Agricultural Economics. Tickets are \$5.5 barbeque dinner. For more information call 8464 846-4990.

Texas A&M receives Westinghow grant

A check for \$20,000 has been presented to T University by the Westinghouse Education Foundation support the university's proposal for the "Develo

Standard Integrated Circuit Laboratory Chips. The payment is the first installment on a \$55,000 Texas A&M from Westinghouse for use in this prayment of \$20,000 will be made in 1984 and \$15,000 mill be mill be made in 1984 and \$15,000 mill be mill be made in 198 awarded in 1985.

The initial payment was presented to Texas A&M dent Frank E. Vandiver by J.S. Wyble, vice president Southwestern Region of the Westinghouse Electric Ort

tion in Dallas. The integrated circuit laboratory chips dev Texas A&M under this program will be used by u duate students in the university's electrical end program as an introduction to integrated circuit de

If you have an announcement or item to submi column, come by The Battalion office in 216 Reed nald or contact Tracey Taylor at 845-2665.

Arson charged in house-burning Roll

United Press International KENDLETON — Police charged a man with arson for burning down a house where rats bit his 7-week-old nephew so severely the child had to undergo facial plastic surgery. Robert Lee Williams, 33, was

arrested Friday and charged with the arson of a one-bedroom house where four children and

four adults lived.

Kendleton Police Sgt. Clifford Thompson said Williams
admitted torching the structure out of rage after health authorities condemned it and forced

Williams' relatives to move elsewhere.
"He was angry," Thompson said. "He was mad because the house was condemned. But it was not liveable. It was terrible There were rat holes 21/2 inches

Thompson said the house was set on fire shortly after the family was evicted April 9.

Galveston on April ple rat bites. Thomp child had to have pla "Doctors recons nose, some parts of his har A hospital spoke doctors would not

"I saw lot of rats of there," he said.

rat-infested house

liam's infant nephe ted to John Sealy

Authorities learn

before a court. § Judge Tom Stansbuduled a hearing in R Wednesday to dec the boy's mother. liams, may regain o The baby, hospit

case because the bo

days, remained in the Fort Bend County's tection Service.

Thompson said family moved in will

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