# Expert says oil reserves low

**Battalion Reporter** The U.S. will use up 25 percent of its national energy reserves between now and the year 2000, says former Secretary of Energy Charles Duncan, Jr., and the world must develop alternatives to oil and gas. and because of this new reserves and alternatives must be sought.

Duncan, currently the president of a group of energy reengineering graduate seminar tional energy policy.

Thursday.

Duncan stressed a need for

reserve must be increased at a much more rapid pace. With today's oil glut, the reserve could be increased rapidly with little by President Reagan.

Duncan spoke of a transition taking place in the world—a transition from oil and gas to think the oil crisis was gone for burden on the tax payer, Dun-

However, corporations are reluctant to invest in alternative energy projects because of what lated companies in Houston, gave a program on "Energy Perspectives" to the agricultural is, frequent changes in the na-

To effectively deal with to- continuity in the energy policy, day's energy uncertainty, Dun- especially from administration can said there were three things that had to be done.
First, the U.S. must maximize domestic oil exploration. Then, the nation's strategic petroleum representation of the maximize domestic oil exploration. Then, the nation's strategic petroleum representation of the maximistration. Having been secretary of energy under the cannot be energy isolationsity, "We cannot be energy isolationsity," Duncan said, pointing out that the U.S. will depend heavily on oil imports until alter-

alternative energy sources. The question is no longer should we make this transition, because the transition is being made whether we like it or not, Dun-can said. The question now is how to manage this transition,

"It has not been managed well in the past and it is not being managed well now," Duncan said. Nuclear power can be de-veloped safely, he believes, and solar power is a must for the im-

think the oil crisis was gone for good — the U.S. should expect tension in the Middle East and plan its energy policy according-



#### "THE WILL TO SURVIVE" CHOICES AND DECISIONS

BUCHENWALD CONCENTRATION CAMP SURVIVOR DR. WILLIAM SAMUELSON PRESENTS HIS VIEWS ON HUMAN RIGHTS.



# CSD scientist discusses various ocean experiments

by Julie Ennis

Battalion Reporter
"Oceanography is an underampled science," Dr. Walter H. Munk, a professor at the Institute of Geophysics and Planet-ary Physics at the University of California at San Diego, said Thursday night in the Memorial

Munk said investigating oceans requires infinite amounts of data and many nours, months, days and someimes years of tedious work and

Munk, who has been with the Institute since 1947, is the second in a series of four lectur-ers sponsored by the University Lecture Series.

#### Council discusses permits

A building permit misunder-standing led to a heated discus-sion in Thursday's College Sta-tion City Council regular

Don Dale, a local builder, told the council that city officials had omes permitted him to ready his lot ent train for construction without warnrom ing him that he may be denied his building permit.

After several exchanges beween Dale and City Director of Capital Improvements Elrey
as mall Ash, Mayor Gary Halter gaveles, comled the room quiet and told them will hos where other than the council

on 1 p.m meeting.

In other business, the president of the Southeast Texas tions to Higher Education Authority, Col. Robert M. Logan, gave his annual report to the council.

A public hearing was held concerning the annexation of proximately 166 acres located n Graham Road. No action was taken by the council.

The council unanimously pproved a rezoning ordinance or two tracts of land on the northwest corner of state Highvay 6 and Barron Road

Munk, addressing about 200 Flat rays, like their name, move people, discussed various ex- on a stable plane. periments that have been completed involving new methods of

exploring the oceans. propegation over very long dis- picked up by the receivers.

tances.

He described steep rays and flat rays of sound that move through the ocean depths after a disturbance. Steep rays are those that undulate from the better of the ocean to the total of the ocean to the ocea bottom of the ocean to the top. tors)?

Friday, Nov. 11

Using steep and flat ray data obtained from experiments using satellite saucers and receiv-He discussed the effects of sound speed on temperature and pressure changes in the ocean, and more specifically on the measurement of sound the measurement of time that the sound takes to be might always a might

7:30

 Once resolved could they be identified?

• Are the results stable or consistent over months or years? Munk said the measuring of the time between sound pulsings is no better than the clocks that



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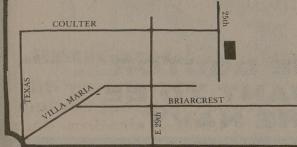
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