Technical delays may cause A&M scientists to spend Christmas at sea.

The U.S. and Argentina have agreed to the joint use of the research vessel "Islas Orcadas" which will permit completion of the Antarctic oceanographic surveys begun in 1963 and the start of a five-year biological oceanography program in the Southern Ocean

The cruise, scheduled to begin Nov. 20 and last through Dec. 30, has been postponed at least two

Scientists involved will be from Texas A&M, Scripps Institution of Oceanography and the Argentine Antarctic Institute. They will study the area of the Argentine Continental Shelf, Drake Passage, Bransfield Strait and the Southwest Atlantic

The two major objectives of the biological program are the description of the entire food chain in Antarctic waters and investigations of the adaptation and response of the marine organisms in the Antarctic

Dr. Sayed Z. El-Sayed will be continuing his studies on primary productivity in the icy seas, started nearly 12 years ago with the Argentine scientists.

El-Sayed hopes that his study of the Antarctic marine ecosystem will lead to a better understanding of the food chain in the southern waters.

"Marine phytoplankton is the basis of the food chain in the ocean,' El-Sayed pointed out. "Their level of production will regulate the amount of life in a given ecosys-

Dr. Guy Franceschini will re-

MIDLAND HOMETOWN CLUB will meet at 8 p.m. in room 402 of the MSC Tower. Plans on Thanksgiving and the Pizza Party will be discus-

NUCLEAR ENGINEERING DEPARTMENT will

DISBOT Zeibry Engineering Center at 4 p. m.

DR. BERT W. O'MALLEY of the Baylor College of Medicine will present "Steroid Hormone Action III: Initiation of Transcription on the Chromatir Template" at 4 p. m. in room 114 of the Hermat Heor. Building.

Heep Building.

CHEMISTRY DEPARTMENT presents Dr. Donald Bogard, director of the Gas Analysis Laboratory at NASA, speaking on "Age Dating of Collisional Events in Meteorite Parent Bodies" at 4 p.m. in room 1024 of the Chemistry Building.

CHEMISTRY DEPARTMENT will present William G. F. Evrd conducting a seminar, or "There."

G. F. Ford conducting a seminar on "Thermochemical Studies in Fluorocarbons: How Important is Polarity?" in room 231 of the Chemistry Building at 4 p.m.

HORSEMEN'S ASSOCIATION will meet at 7:30 p.m. in room 215 of the Animal Industries Building. Phil Livingston of Tex-Tan Saddelry will be the guest speaker.

PRE-VET SOCIETY will meet in room 102 of Zachry

speak on poisonous plants and large animals.
EAGLE PASS HOMETOWN CLUB will meet at 8

a sweetheart will be discussed. WOMEN'S AWARENESS will elect officers at 8:30

p.m. in the Architecture Building Auditorium.

CHESS CLUB will meet from 7 to 11 p.m. in room

601 of the MSC Tower.

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FRIDAY
CHEMICAL ENCINEERING seminar features Dr.
K. R. Hall presenting "Least Squares by Orchonormalization" in room 227A of Zachry Engineering Center at 2 p.m.
CIVIL ENGINEERING seminar with Lynn Stuart of Stuart & Thurmond in Bryan speaking on "Building Estimating" in room 121 of the Civil En-

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tural Phase Transitions in Alloy the Physics Building at 4 p.m.

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sponsor Nolan Hertel, speaking on "Reactor Transient Type of Core Metal Accidents" in room 105B of Zachry Engineering Center at 4 p.m.

search solar radiation in the cruise area. Biological primary productivity in the ocean depends, in part, on the radiation environment. This is tied to other researchers work by the Scripps scientists and investigators from the Argentine Antarctic Institute.

He will employ devices to determine the amount of standing vegetation in any particular part of the ocean. The amount of green light reflected from the interior of the water will tell the amount of

tial of plant life in the water, and therefore the total life that could exist there.

"This is the first cruise of a fiveyear plan to study the physical properties of the water, its biology, chemistry together with solar radiation," Franceschini said.

"If we ever want to control the ocean, we'll first have to be able to predict what it is going to do," he said. "Before we can predict, we have to know how the systems in the

# A&M begins study on ocean pipelines

areas of the U.S. carrying oil and gas to land and industrial and carrying municipal waste out to sea.

The tremendous forces produced by the ocean cause up to a 25 per cent failure in these pipes whose pollution can endanger the beaches, marine life and health of the resi-

Dr John Herbich, head of ocean engineering at Texas A&M, is leading a research project tackling the problem of protecting these

In the labs he and his assistants reproduce the waves and the winds and the slope of the beach in long tanks to duplicate ocean conditions.

'These forces from the waves have been known to move pipe, ten

AGGIE CINEMA presents "Horsefeathers" with the Marx Brothers and "Cold Rush" with Charlie Chaplin at 8 p.m. in the Rudder Theater. Admis-sion is \$1.

AGGIE CINEMA presents "Horsefeathers" with the Marx Brothers and "Gold Rush" with Charlie Chaplin at 8 p.m. in the Rudder Theater. Admis-

sion is \$1.
ST. THOMAS CHAPEL will hold a Tamalada at 906 Jersey from 5:30 to 8:30 p.m. Tickets are \$2 for adults, \$1 for children and can be bought at the door or from the church secretary.

ANIMAL SCIENCE WIVES CLUB will meet at 7.
p.m. at the home of Mrs. Gary Smith, 3613
Southview in Bryan. Plans for the Christmas
Bazaar will be discussed.

SENIOR CLASS COUNCIL will meet at 7 p.m. in

lexas

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Pipelines criss-cross the off-shore feet in diameter and weighing 80 tons, as much as 150 feet away from its original position," Herbich said.

"A serious problem is the effect of wave-induced pressures and forces on the sediments around pipelines," Herbich said. "Waves can produce submarine landslides that have actually damaged two offshore production platforms."

He went on to say the prime factors affecting the design of underwater pipelines are environmental considerations and construction methods. The team is helping develop a comprehensive bibliography on the design and specifications aspects of underwater pipelines.

'Hurricanes have been known to tie them up in pretzels," he said.
"As a result, oil spills have resulted and nuclear power plants, sewage and LNG plants couldn't operate. One municipality had three failures in their pipe before it was ever com-

They have not been designed to withstand the forces of the ocean," Herbich said. "We feel they have been inadequate because the designers don't realize the magnitude of forces produced by the waves.

'We're now going to research a number of areas," he said "We'll study the inadequacies of pipeline design and catalog all the pipeline failures for the last 10

Another area of his research will look at the possibility of anchoring the pipes by weighing them down with concrete or covering them with

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mination For The Doctoral Degr

Name: Adams, Donald Gene
Degree: Ph.D. in Civil Engineering
Dissertation: DEVELOPMENT OF A
MENT PLAN FOR TREATING AN ING OF WASTEWATER FROM CLEANING FACILITIES. Time: November 15, 1974 at 3:00 p.m. Place: Room 115-B in the Civil Engineer George W. Kunze Dean of the Graduate College

THE GRADUATE COLLEGE
Final Examination For The Doctoral De
Name: Natarajan, Kuttalam Ramaswamy
Degree: Ph.D. in Biochemistry
Dissertation: A STUDY OF THE CHE
MACHINATION OF AFLATOXINSIN PROTEIN ISOLATES AND OF THEIR PHYSICO-CHEMICAL PR

Time: November 26, 1974 at 1:30 p.m. Place: Room 118 in the Teague Researd George W. Kunze Dean of the Graduate College A make-up examination, for all Juniors and curricula of the College of Science who has the English Proficiency Examination, will Thursday, November 14, 1974 at 7:00 p.m.

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