

# TEES To Study Artificial Reefs

A research team from the Industrial Economics Research Division of A&M's Texas Engineering Experiment Station will study artificial reefs.

The TEES-administered study is funded with matching grants of \$4,000 from the Texas Council on Marine Affairs and \$4,000 from A&M's Sea Grant Program. Project Director James Bradley said the preliminary project is funded through August 31.

Artificial reefs, according to Bradley, attract marine ecosystems to otherwise barren sections of ocean floor. The study will look at the possibilities of using a number of various objects as artificial reef structures.

The preliminary project will be concerned with defining specific and general areas of research needed. The state of the art of artificial reefs and historical account of previous re-

search will be assembled by the research team.

Types of materials for possible use in an artificial reef system will be studied, and subjects such as availability, cost, transportation problems and longevity of materials will be considered.

Possible materials to be studied include mothballed Liberty ships, old rubber tires, concrete pipes and rubble and old car

bodies. Obsolete offshore drilling rigs also will be considered.

The study will also be concerned with environmental effects of artificial reefs, number of reefs needed and site locations. Bradley emphasized that all areas of the coastal waters will be considered for location.

"Artificial reefs attract sea life to a clean but otherwise empty section of sea floor," Bradley explained. "Time has shown that offshore oil wells attract large amounts of fish and other sea life, and we feel artificial reefs will do the same."

Bradley said that marine life begins to move into an artificial reef system within two or three weeks after the structure is placed on the ocean floor. Microscopic organisms are first to arrive. These attract small fish, which in turn attract larger fish, eventually forming an attractive area for fishermen.

Bradley will be joined by Norman C. Whitehorn, associate research economist; Larry Vetter, research associate; and Chris Phillips, assistant research economist, in the study. All are members of the Industrial Economics Research Division of TEES.

# Food Safety At Home

Protect your family from food-borne illness through necessary precautions in home meal preparation, advises Frances Reasonover.

The foods and nutrition specialist, A&M's Texas Agricultural Extension Service, offered some guidelines for safe meals and discussed several foodborne illnesses.

"When children help with meal preparation, insist they handle foods carefully and properly.

"At the same time, stress personal cleanliness of every family member.

"Also make sure dishes, cooking equipment, cabinets and other work surfaces are kept clean."

Unless foods are handled and prepared correctly along the way, homemakers are inviting trouble, the specialist emphasized.

"Store perishable items in the refrigerator and serve foods promptly after cooking.

"Preserve foods to be held for long periods—using proper methods and techniques."

Turning to foodborne illnesses, Miss Reasonover cited salmonellosis as one caused by bacterial infection. Although refrigeration inhibits growth of bacteria, it doesn't destroy them. But heating food to a temperature of 140 degrees F. kills these bacteria—and prevents illness.

To prevent preringers poisoning, cool cooked meats rapidly

and store promptly in a refrigerator, the specialist continued.

"Staph poisoning, on the other hand, is caused by bacteria-producing toxin. Keeping hot foods above 140 degrees F.—and cold foods at or below 40 degrees F.—will prevent bacteria growth.

"Toxin produced by these bacteria can be destroyed by heating food in a pressure cooker at 240 degrees F. for 30 minutes, or by boiling it for several hours."

Another illness caused by bacteria toxin is botulism.

Processing low-acid foods in a steam pressure canner at 240 degrees F. as prescribed prevents botulism. This process kills spores which are extremely resistant to heat, she explained.

"Destroy toxin by boiling food for 10-20 minutes—depending on the food."

## Journalism To Offer Grad Courses

A&M's Journalism Department will begin a series of graduate offerings this fall with a course entitled "Institutional Persuasion," announced C. J. Leabo, department head.

Leabo said the course, Journalism 605, will deal with public relations philosophy and methodology, utilizing the principles of persuasion and attitude change as adapted to public and private institutions.

Students will study the application of public relations in their chosen fields, Leabo added.

He noted the course will be taught by Dr. David Bowers, professor of journalism.

A&M at the present time does not offer a graduate degree in journalism, but the department has received institutional approval to conduct seven graduate courses.

## Safety Educator Visits Campus

Dr. Peter C. Compes, presently the only industrial safety educator in West Germany, visited A&M Thursday to confer with leading industrial hygiene and safety professors in the United States.

Dr. Compes, professor at Bergische University, Wuppertal, W. Germany, met with Dr. Dave Discher, M.D., University of Washington at Seattle, and George Pettigrew, National Institute for Occupational Safety and Health, Dallas.

The conference consisted of discussions concerning hygiene and safety engineering. Dr. Compes was given briefings on graduate and undergraduate programs at A&M in industrial safety and health from staff members of the Hygiene and Safety Engineering Division of TAMU's Industrial Engineering Department.

"Germany is a highly industrialized country," Dr. Compes noted. "We have no formal educational programs to speak of that trains industrial safety engineers.

"I am very impressed with the program you have here at A&M, and hope to incorporate some of your features in a program I am developing in my country."

Dr. Compes has been touring the United States for three weeks, visiting Boeing Aircraft's Seattle facility and the Jet Propulsion Laboratory in Pasadena, Calif., among other industrial and research facilities.

The German educator was accompanied to A&M from Houston by Al Williams, 1968 A&M graduate, and Matthew Rudowsky, with Boeing's NASA operation in Houston.

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You may never have heard of a "procto" much less had one. Most people haven't.

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# The Church.. For a Fuller Life.. For You..

## Faraway Places

I've never seen the Taj Mahal. Nor have I looked up at the Leaning Tower of Pisa, or out across the broad Sahara to the Pyramids and the Sphinx.

Most of my life, as a matter of fact, has been spent right here in my own town. Not because I don't want to travel. To visit these faraway places is one of my big desires—and, one day, I hope to do it.

But I know, deep in my heart, that even if I never leave my home town I'll have more to do than I can hope to accomplish. Because God is just as much here as he is anywhere. Our minister used that thought in his sermon last Sunday, and he told us how much there is for all of us to do in our own particular place—and how much remains undone!

If we'd bring just one other person to church with us on Sunday, we'd really be doing something, he told us. And, as I thought it over, I knew how true that was.

That's why I'm asking you.

Scriptures selected by the American Bible Society Copyright 1973 Keister Advertising Service, Inc., Strasburg, Virginia

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Psalms 126:1-6	John 3:18-21, 36	Ephesians 1:3-12, 2:1-7	II Thessalonians 2:1-12	Hebrews 2:14-3:7, 19	Hebrews 12:25-29	3:14-22

**CALENDAR OF CHURCH SERVICES**

**A&M METHODIST**  
9:45 A.M.—Sunday School  
10:55 A.M.—Morning Worship  
5:30 P.M.—Campus & Career Class  
5:30 & 6:00 P.M.—MYF Meetings

**CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS**  
26th East and Coulter, Bryan  
8:30 A.M.—Priesthood meeting  
10:00 A.M.—Sunday School  
5:00 P.M.—Sacrament Meeting

**FAITH CHURCH UNITED CHURCH OF CHRIST**  
9:15 A.M.—Sunday School  
10:30 A.M.—Morning Worship  
7:30 P.M.—Evening Service

**FIRST CHRISTIAN CHURCH**  
Homestead & Ennis  
9:45 A.M.—Sunday School  
10:50 A.M.—Morning Worship  
5:30 P.M.—Young People

**UNITARIAN FELLOWSHIP**  
305 Old Highway 6, South  
10:00 A.M.—Sunday Service  
7:00 P.M.—Adult Service  
305 Old College Road South

**A&M PRESBYTERIAN**  
7-9 A.M.—Sun. Breakfast - Stu. Ctr.  
9:45 A.M.—Church School  
11:00 A.M.—Morning Worship  
6:00 P.M.—Sun. Single Stu. Fellowship  
7:15 P.M.—Wed. Student Fellowship  
6:45 A.M.—Fri. Communion Service Wesley Foundation

**UNIVERSITY LUTHERAN**  
Hubert Beck, Pastor  
9:30 A.M.—Bible Class  
10:45 A.M.—Divine Worship  
6:00 P.M.—Worship Celebration  
7:30 P.M.—Wednesday, Discussion Group

**OUR SAVIOUR'S LUTHERAN**  
8:30 & 10:45 A.M.—The Church at Worship  
9:30 A.M.—Bible Classes For All Holy Communion—1st Sun. Ea. Mo.

**CENTRAL CHRISTIAN CHURCH**  
3205 Lakeview  
9:45 A.M.—Bible School  
10:45 A.M.—Morning Worship  
6:00 P.M.—Youth Hour  
7:00 P.M.—Evening Worship

**ST. MARY'S CATHOLIC**  
Sunday Mass—9, 11 A.M. & 7 P.M. (Folk Mass)  
Weekday Masses—5:15 P.M.  
Saturday Mass—6 P.M.  
Holy Day Masses—5:15, 7 P.M. & 12:15  
Confessions—Saturday 5-6, 6:45-7:15

**A&M CHURCH OF CHRIST**  
8:00 & 10:00 A.M. Worship  
9:00 A.M.—Bible Study  
5:15 P.M.—Young People's Class  
6:00 P.M.—Worship  
7:15 P.M.—Aggie Class  
9:30 A.M.—Tues. - Ladies Bible Class  
7:15 P.M.—Wednesday - Bible Study

**COLLEGE HEIGHTS ASSEMBLY OF GOD**  
9:45 A.M.—Sunday School  
11:00 A.M.—Morning Worship  
6:30 P.M.—Young People's Service  
7:30 P.M.—Evening Worship

**ST. THOMAS' EPISCOPAL CHURCH**  
906 Jersey (So. Side of Campus) 846-1726  
Rector, William R. Oxley  
Chaplain, James Moore

**SUNDAY SERVICES:**  
8:00 A.M.—Holy Communion  
9:30 A.M.—Holy Communion 1(st & 3rd Sundays)  
Morning Prayer (2nd, 4th & 5th Sundays)  
7:00 P.M.—Youth Choir  
8:00 P.M.—Evening Prayer

**GRACE BAPTIST CHURCH**  
2505 S. College Ave., Bryan  
An Independent Bible Church  
9:45 A.M.—Sunday School  
10:50 A.M.—Morning Worship  
7:00 P.M.—Prayer and Bible Study

**SEVENTH-DAY ADVENTIST CHURCH**  
North Coulter and Ertle, Bryan  
9:30 A.M.—Sabbath School (Saturday)  
11:00 A.M.—Worship Service  
7:30 P.M.—Prayer Meeting (Tuesday)

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