

# A&M ship made pollution free

The Maritime Academy has installed a sewage waste treatment system aboard its training ship, Texas Clipper, eliminating the dumping of raw sewage in harbors and at sea.

The 15,000-ton vessel is one of a small number of ships in the world with a waste water system, said Adm. James D. Craik, TMA superintendent.

Admiral Craik said the system meets all existing federal and state water pollution requirements.

The Texas Clipper project has led to a proposed research program for merchant vessels in general.

The ship is berthed at the new Mitchell Campus on Pelican Island in Galveston. It serves as a dormitory and dining hall for TMA cadets during the regular school year, in addition to being used for summer training cruises to Europe and other parts of the world each summer.

Admiral Craik said the \$100,000 fresh water system includes one 3,000-gallon pre-treatment tank, one 7,500-gallon final treatment tank, one 15,000-gallon holding tank and two multi-purpose transfer pumps.

Pipes and pumps have been cross-connected to provide re-

searchers with the capability to either induce chemicals or transfer wastes for further treatment, Admiral Craik explained.

The system is designed for 250 men at 30 gallons per day treatment for each man.

The admiral said the five-stage treatment cycle produces a high quality, clear and odorless effluent.

Design engineering was produced by the Galveston naval architectural firm of Designers and Planners, a subsidiary of Todds Shipyards Corp., with installation by McDonough Iron Works, Galveston. The 15,000-gallon holding tank and two pumps were provided by Todd Shipyards Corp., Galveston Division.

Bio-Pure, Inc., of Tualatin, Ore., produced the treatment equipment.

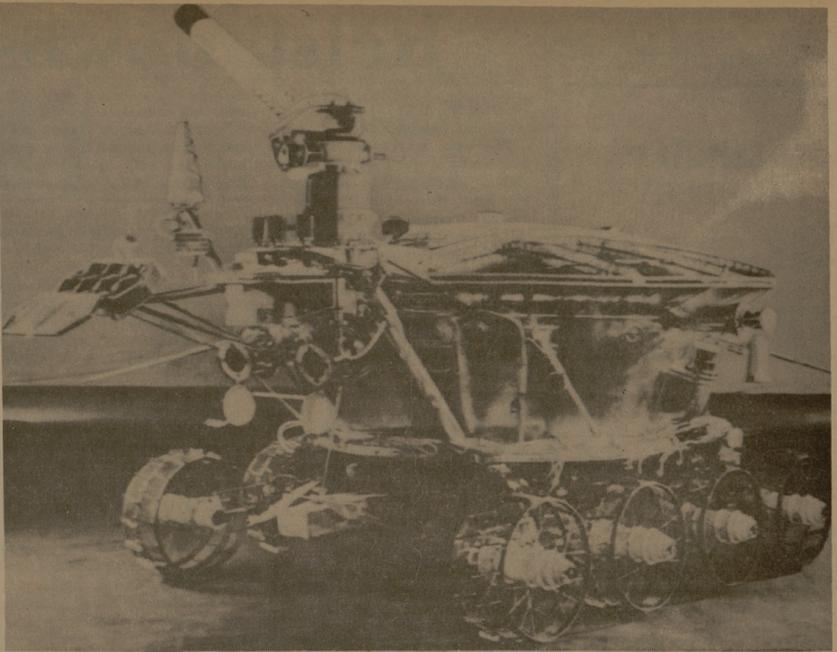
Capt. Alfred Philbrick, TMA executive officer, said there is little information available on treatment units for existing ships and new merchant vessels that have holding tanks that are flushed at sea.

He has proposed a research program to the Federal Water Pollution Control Administration which would utilize the Bio-Pure system on the Texas Clipper.

One of the research projects is the feasibility of utilizing harbor water with the ships waste, treating and discharging an effluent into the harbor that represents considerable improvement over the original.

Another consideration would be a system which could operate on harbor or sea water, since fresh water systems are not realistic on merchant ships at sea. He also suggested the testing of harbor water in world ports to determine its effect on shipboard waste systems.

Captain Philbrick said the end result could not only be pollution-free waste from the ship, but also the treatment of polluted water from the harbor.



LUNOKHOD, THE SOVIET MOONROVER is pictured in this photo released by Tass, the official Soviet News Agency. Lunokhod has been wandering the moon since Nov. 17, 1970. Two disks at left of vehicle, resembling headlights, are television cameras. Objects projecting from front and top of the 1,667 pound vehicle are, from left: laser reflector; receiving antenna cone, and transmitting antenna. (AP Wirephoto)

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## Honor chemical engineer group formed here

A scholastic honorary society for chemical engineering graduate and undergraduate students has been formally installed here.

Rho Chapter of the national chemical engineering honorary, Omega Chi Epsilon, was presented its charter by Dr. Edwin D. Eisen of Lamar State College of Technology.

Chapter sponsor Dr. P. T. Eubank said the Texas A&M group was first organized in 1968 as a campus organization, Omega Chi Sigma.

He said the chapter has since been active as the host for chemical engineering graduate seminars. Chapter membership is limited to undergraduates with at least a 3.0 grade point ratio and graduate students who have completed 12 hours with at least a 3.35 g.p.r.

## Polygraph school begins course

One of the Engineering Extension Service's most difficult short courses begins Monday when 20 men from all parts of the nation begin the six-week Polygraph Examiners School.

Chief Instructor Ira E. Scott of the Police Training Division explained the course includes extensive studies into medical physiology and anatomy, psychology and use of polygraph instruments.

## Campus briefs

# Former Students donate \$500,000

A&M former students will spend over a half-million dollars during 1971 for student and faculty programs.

A record \$1,049,720 Annual Fund budget was approved Sunday during the Association of Former Students Winter Meeting. Students will receive \$458,600 through scholarships and aid to student activities. Faculty awards and grants total \$63,000.

Other disbursements scheduled include \$45,000 for the Memorial Student Center expansion and \$150,000 in donor restricted gifts.

In addition, the former students will perform \$97,570 in services to the university and \$228,450 in services performed for former students.

The student scholarships include President's Endowed Scholarships, President's Scholarships, Opportunity Award Scholarships and Graduate Student Awards.

**Aggie Players tryouts Thursday**  
Tryouts for the Aggie Players Children's Theater production of "The Bad Children" will be held Thursday.

## Willmann receives bankers scholarship

David R. Willmann of Mason, junior agricultural economics major, received the \$500 Texas Bankers Scholarship Award for 1971 here Monday night.

The honor, based on academic standing, student activities and interest in a banking career, is awarded annually during the Texas Farm and Ranch Credit School for Commercial Bankers, Feb. 15-17, according to Tom Frost, Jr., president of the Texas Bankers Association and president of the Frost National Bank in San Antonio.

**Vet Medicine meeting in two places**  
The College of Veterinary Medicine is represented at national meetings held this week in New York and last week in Chicago.

Dr. M. R. Calliham, head of veterinary medicine and surgery, is participating Monday and Tuesday in New York City in a symposium on National Standards for Preceptorships, Internships and Residences in Clinical Veterinary Medicine.

Attending the National Mastitis Council annual meeting in Chicago were Dr. P. A. Linderode, assistant professor of veterinary public health, and Dr. John C. Ramey, professor of veterinary medicine and surgery.

## Placement office requests help with job locating

A&M's Placement Office has something for everyone—former students, graduation candidates, large corporations and small companies.

Robert C. Reese, placement director, wants to establish new opportunities for graduates, but he needs help.

"With our increasing enrollments we must continually seek new opportunities for these graduates," Reese said.

Approximately 350 companies send recruiters to the campus each fall and spring, Reese reported. These employers represent business, industry, state and federal agencies and educational institutions.

In addition, numerous employers utilize the alumni placement service as sources for experienced graduates or when small companies are unable to support an extensive recruiting program.

All the placement services are free to the student or former student and the recruiting company.

Reese also said graduates in large corporations many times have knowledge of new jobs or replacement requirements which the campus office can assist in filling.

The office has more than 1,100 companies who like to work with through our alumni files," he continued.

Job calls to the Placement Office are reproduced and sent to academic departments. They also are sent by mail to former students registered with the office who meet the qualifications stated in the job description.

Graduates who would like to see their company aid the placement program should contact Robert C. Reese, Placement Office, YMCA Building, Texas A&M University 77843.

Former students seeking placement services can contact the same office.

## Toxicology, entomology lab to be dedicated April 1

The United States Department of Agriculture will dedicate its \$3.25 million Veterinary Toxicology and Entomology Research Laboratory and Cotton Diseases Research Laboratory here April 1.

The 11-building complex is located on a 60-acre tract north of the Veterinary Medicine Research Farm off F&B Road.

Dr. R. D. Radeleff is director of the Veterinary Toxicology and Entomology Research Laboratory and Dr. Ivan L. Berry is director of the Cotton Diseases Research Laboratory.

The two laboratories are the most modern in the United States and are administered through USDA's Agricultural Research Service.

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