

# Oceanographers To Aid Apollo

Remote sensing devices for measuring ocean temperatures, salinity and sedimentation under testing by Texas A&M's oceanography from space project will also require sensitivity to discern crop and forest differences and for other applications.

A pool of hardware suggested by oceanographers, meteorologists, geologists, hydrologists and agriculturalists will be used to instrument NASA's first Apollo applications flight, sometime in 1969.

Procedures for measuring ground and ocean factors from aircraft at 1,500, 50,000 or 100,000 feet—or a spacecraft outside the atmosphere—were described for Oceanography Club members by Lt. Cmdr. Don Walsh, project coordinator.

Walsh is co-holder of the deepest ocean dive, and as a doctoral student in oceanography assists

Dr. Hale Leipper in the NASA-supported oceanography from space project.

"We're not studying the Mississippi River delta itself," he pointed out. "The river's discharge into the Gulf of Mexico provides a large differential for testing remote sensing instruments. If our equipment can't discern temperature, salinity, color and sediment differences of the river and gulf waters, we may as well pack it up."

The delicacy of measuring the gradient between the Mississippi's fresh water and salt water from the gulf is being solved. The project has made three flights over the delta, correlated data from black and white and color pictures and scans with infrared and ultraviolet imagers against "ground truth" data taken at the surface.

Walsh said another flight over

the study area is planned for February, when A&M's oceanographic research ship Alaminos will be in the Mississippi discharge area.

Aerial data have been collected with NASA's Convair 240 and a T-38 jet trainer. He indicated the project hopes to send up larger instrument payloads for longer and higher flights by use of a Lockheed Electra, and eventually, a Martin RB-57 reconnaissance medium bomber being acquired by NASA for scientific research purposes.

Walsh drew graphic pictures of the benefits of refined, more sophisticated versions of the equipment orbiting earth in satellite.

"Such instruments would be able to see a small smoldering fire long before it became a large forest fire," he noted. "Holding the earth at arm's length and studying its surface will provide bene-

fits in many areas."

"Large freighters will be plotted an optimum route around rough seas. The economic impact for freight movers would be tremendous. Instead of having a million dollars in capital tied up in transit seven days, optimum routing might cut shipping time to five days, putting produce on the market faster."

Development of instrumentation for manned orbiting laboratories will require specially trained scientists of all disciplines.

## Miller Named To New Post At Ag Station

Dr. Jarvis E. Miller, a leader in university foreign program assignments, has been named assistant director of the Texas Agricultural Experiment Station.

Appointment of Dr. Miller to the post was announced at a Saturday meeting of the Texas A&M University System Board of Directors.

In other action, the board named Dr. Robert D. Lewis director emeritus of the Texas Agricultural Experiment Station. Dr. Lewis retired from the director's position in 1962 after 16 years service in that capacity.

The board also confirmed eight Texas A&M faculty-staff promotions.

Promotions and new titles include:

Victor H. Treat, assistant professor of history and government; Hayes E. Ross, assistant research engineer, Texas Engineering Experiment Station; and Ira E. Scott, chief instructor, Police Training Division, Texas Engineering Extension Service.

Texas Agricultural Experiment Station promotions include William L. Hoover, assistant professor and head of Agricultural Analytical Services; Ruel R. Bell, professor acting head, veterinary parasitology; and William L. Schwartz, assistant professor, veterinary pathology.

# A&M Enrichment Program Is 'Exchange Peace Corps'

S. F. Austin High School boasts a 5-foot-6 automatic Spanish translator for its classrooms.

She is brown haired, brown eyed and at the age of 21 has five years teaching experience.

Maria Guerrini of La Plata, Argentina, also has talents in other directions.

She works for Dr. Earl Jones, director of Texas A&M's public schools curriculum enrichment Programa de Educacion Interamericana, assists in other Bryan schools instructional areas and is helping teach Pan American Roundtable, an adult education group.

MISS GUERRINI is one of Argentina's Volunteer Teachers to America, a pilot project established at the suggestion of President Johnson under the Fulbright-Hays Act of 1961.

"It's a sort of exchange Peace Corps," explained Mrs. Frances Dean, Programa assistant director.

Through VTA, 100 Argentine teachers are visiting in the U. S., Near East, Asia and Africa to improve their teaching capabilities. Selected on the basis of foreign language, social studies and social work training and communications development, the teachers agree to instruct two years in the South American country for each year abroad.

Some of Miss Guerrini's contemporaries will visit abroad two years. She will be in Bryan and College Station a year. Other members of the group that received special English instruction at UCLA for the project are in Austin and San Antonio.

MISS GUERRINI has assisted Mrs. Mary Ellen Vincent with Bryan High Spanish classes, giving first hand information in Spanish on a class unit dealing with Argentine gauchos.

"Miss Guerrini is our lab in the classroom," Mrs. Vincent remarked. "We have tapes prepared by native speakers, but when a part is to be read orally, she gives it life. She also assists greatly with pronunciation."

Maria was the youngest teacher

in her hometown, when at 16 she completed Argentina's 12 year primary and secondary education system. It is equivalent to the U. S. public school system, plus junior college.

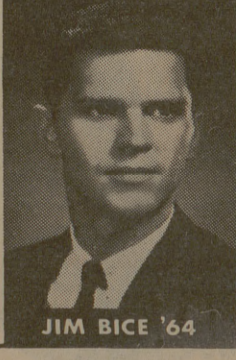
THE SERIOUS-MINDED miss is interested in social service and will work with Bryan schools visiting teachers. She has completed three years of a four-year program in social work at a La Plata

university.

At Programa, Miss Guerrini is a special consultant and works on Latin American teaching units. The materials were collected last summer by 35 Texas teachers in Programa who toured Argentina and other South and Central American countries.

Maria's English is a bit uncertain. But she's not uncertain about her intentions to improve it.

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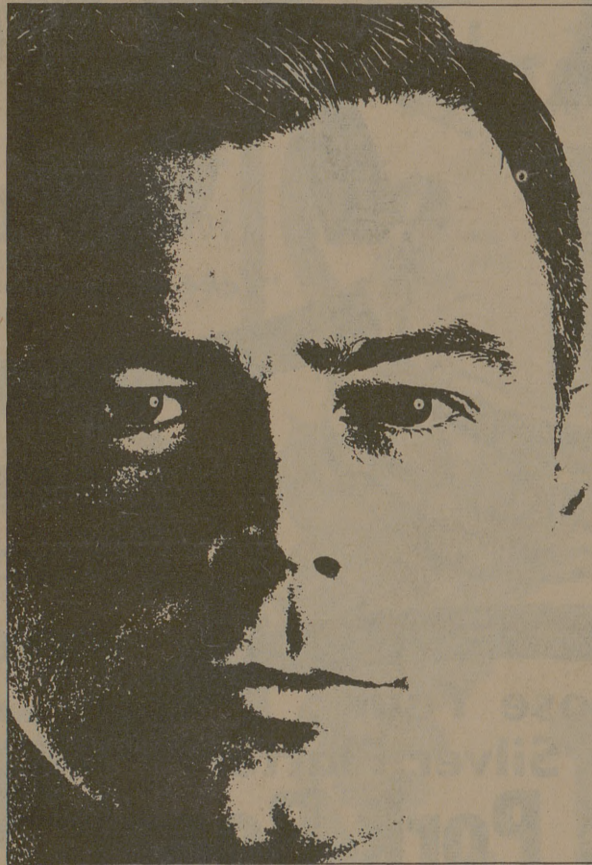
I AM PREPARED TO DISCUSS SPECIFIC OPPORTUNITIES WITH SEVERAL EMPLOYERS.

A PERSONAL INTERVIEW WITH MR. W. R. HORSLEY MAY BE ARRANGED THROUGH THE PLACEMENT OFFICE.



MUD ADDS PROBLEMS AT CON THIEN

A U. S. Marine stands deep in mud as he guides armored personnel carrier through the muck at Con Thien. Mud has added to the problems of the Marines at the embattled outpost just south of the demilitarized zone in South Vietnam. The personnel carriers are used to ferry supplies dropped by helicopter in a nearby landing zone to the Marines dug in. Monsoon rains have turned the entire area into a slimy quagmire. (AP Wire-photo)



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