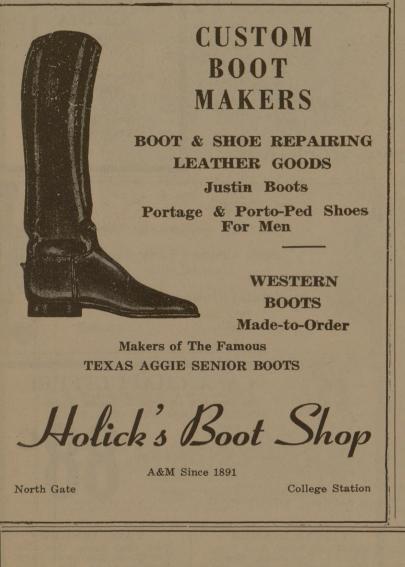


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Excellence' cruises Gulf Coast

TEXAS A&M UNIVERSITY

CIVIL ENGINEERING DEPARTMENT

Wednesday, August 5, 1970

Texas A&M's water pollution research vessel EXCELLENCE, used in Houston Ship Channel studies since September, 1968, will move into other Gulf Coast estuaries for data collection during the month of August, announces Dr. Roy W. Hann, Jr., who heads the University's Estuary Systems Research group based at Morgan's Point.

College Station, Texas

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The sampling cruise planned for next week will include Sabine Lake and the Neches and Sabine rivers in the areas of Beaumont, Orange, and Port Arthur, and the intracoastal waterway from Port Arthur to Galveston, Hann said.

The 55-foot floating laboratory is scheduled to sample the intracoastal from Galveston to Freeport later in the month, stopping at Chocolate Bayou en route. The researchers will also spend one day in the Brazos River and one day in the San Bernard, then continue to Matagorda Bay and the Colorado.

A tentative September run will the electronic monitoring equipcontinue the intracoastal survey to Corpus Christi. All of the sampling will be repeated at approximate three-month intervals.

"On these cruises we will make A&M researchers continuous surface profiles for temperature, salinity, and dissolved oxygen," Hann said. He indicated that measurements throughout the depth would be made to two or four-mile increments and that bottom mud and various water samples would be collected for laboratory analysis.

Amounts of organic materials, nutrients, and heavy metals, such as iron, lead, copper cadmium, and mercury, will be determined.

The data will be used in the development and verficiation of mathematical models which predict expected water quality to be used by agencies in making management decisions, Hann continued.

Hann calls the EXCELLENCE, equipped with \$50,000 worth of electronic sampling gear, the finest water quality research craft operated by any university. The largest of three cabins houses

ment, and the other two are equipped for continuous sample collection, wet chemistry analysis,

present papers

Dr. Karl F. Mattil, director of food products research for the Texas Engineering Experiment Station, and Dr. Carl M. Cater, director of the Oilseed Products Research Center, will present two papers at the Third International Congress of Food Science and Technology being held August 9-14 at Washington, D. C.

"Preparation and Characterization of Coconut Protein Isolates" was written by Antonio S. Sampson, Cater, and Mattil. "A Method for the Prepartion of a Colorless Sunflower Protein Isolate" was co-authored by S. Gheyasuddin.

nation. Surface testing is done at cruising speeds to 15 knots. program, which started in 1966, is to develop techniques for determining how much waste can be tolerated without violating desired quality criteria. We are considering such questions as how waste materials react in the water, which materials settle to the bottom, which return from the bottom to overlying water, and how wastes are transported by fresh water inflows, tidal action, salinity density currents,

wind, and other forces.' The training of graduate students for future work with consulting firms, industry, and state and local agencies is considered an important phase of the work. Hann's research group operates as a part of the Environmental Engineering Division of Texas

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A&M's Civil Engineering Department. Funds totaling approxi-Station on a matching grant basis.

mately \$700,000 have come from the Federal Water Pollution Control Administration, the National Science Foundation Sea Grant Program, other federal water quality control programs, and the Texas Engineering Experiment

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