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## Puerto Rican Good Promoter For International Relations

Representing Puerto Rico as an instructor in Texas A&M's special school this week for Spanish-speaking firemen is a strong promoter of good international relations.

He is Raul Gandara, chief of fire service for Puerto Rico. The 38-year fire service veteran directs the activities of 89 fire departments and 987 paid firemen. "Teaching these men to fight

fires is important," Gandara said, "but it is even more important that they learn the American way of life. As they come to understand what a democratic government is like, they will go back home with a feeling of friendship and brotherhood."

Gandara has a wealth of experience in boosting international good will, especially among firemen. He was president of the

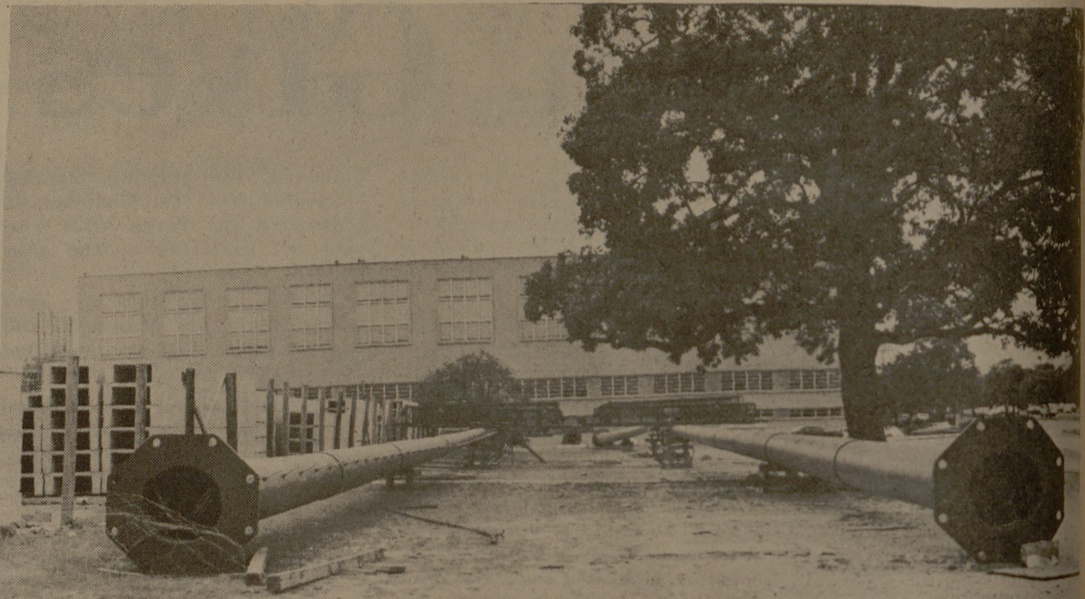
9,000-member International Association of Fire Chiefs in 1965. A board member of the National Fire Administration Institute of New York State University, Gandara also is on the Latin American Committee of the International Association of Fire Chiefs.

Henry D. Smith, chief of the Texas Firemen's Training School for A&M's Engineering Extension Service, credits Gandara with a major role in helping organize the newly established school for Spanish-speaking firemen.

"Chief Gandara has conducted a number of administrative schools for firemen in South and Central America," Smith remarked. "He helped us organize this school and even secured 12 scholarships to assist visiting firemen."

"People have been afraid of the language barrier in the past," Gandara pointed out. "They are overcoming this. I believe the popularity of the school will spread and we will have a big response from prospective instructors for future schools."

Participants in the initial school include 84 firemen from Mexico, Honduras, Costa Rica, Nicaragua, Panama, Colombia, Venezuela, Argentina, Puerto Rico, New Mexico and Texas.



**NEW LIGHTS FOR KYLE FIELD**

Two new lighting structures for Kyle Field await placement as work continues on the field's expansion project. The 165-ft. structures will replace the old lighting system.

## Cyclotron Action Foreseen Within Next Two Weeks

Texas A&M's cyclotron is almost ready to operate, Dr. John A. McIntyre, associate director for research at the Cyclotron Institute, has announced.

"We may have a beam in the next week or so," he predicted to more than 100 persons in a lecture Monday night on the campus.

The beam to which he referred will be billions of protons, those invisibly small parts of the cores of atoms.

Workers at the institute are now testing the vacuum system and plugging leaks so the protons can whirl about inside the machine without hitting air particles.

The cyclotron scientists plan to create the beam and test it for some time inside the machine before bringing it out for experiments.

Some of the experiments detailed by Dr. McIntyre include study of the "spin orbit force" between protons.

"What we're going to be able to do is get a polarized beam out of our cyclotron," he said. This means that the protons would mostly be spinning in the same direction as they emerge — like the balls of a golfer who slices all his drives and never hooks them.

The ability to polarize a beam is an advantage of the A&M cyclotron, one of about ten "new generation" machines. Although modeled after a similar machine at the University of California at Berkeley, the A&M cyclotron has a number of improvements.

Other experiments include what nuclear physicists call the "three body problem." This means, roughly, they want to know everything which can happen when a

proton slams into or comes a nucleus containing a proton and a neutron.

And, said McIntyre, the cyclotron will be used to shoot protons into very heavy nuclei, those containing scores of protons and neutrons. The heavy nuclei are to be stuck together with an amount of force — mass some protons and neutrons be knocked off easier than others.

Asked about possible practical applications of the work, McIntyre replied, "We don't know that's the point. But everything we have discovered in the past has turned out to be useful."

### Math Course Set

A mathematics short school area water works employees is Aug. 21-25 at Bellaire by the Water Utilities Training Division of Texas A&M's Engineering Extension Service.

The 20-hour course will be taught by Leon Holbert, Dale Blalock and W. R. Holt of the TEES staff. Holbert said emphasis will be on application mathematics in areas of sanitation, bacteriology, chemistry and hydrology.



**FRESHMEN: BACK TO SCHOOL SPECIAL**  
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Town Hall 67-68 Presents Its **SERIES Opener** On Sept. 15, 1967 In G. Rollie White Coliseum At 8:00 P. M.

Student Activity Cards and Season Tickets Will Be Honored.

Ticket Prices Are As Follows:

Dates — \$2.00  
 Gen. Admission — 3.00  
 Pub. School — 2.00

Tickets Go On Sale Sept. 5, 1967 At Student Program Office In The M.S.C. From 9:00 A. M. To 5:30 P. M. Monday Through Friday.

## El-Sayed To Head Cruise For Oceanography Dept.

Dr. Sayed Z. El-Sayed, Texas A&M Oceanography professor, has been selected by the National Science Foundation as chief scientist for a 41-day trans-Atlantic cruise of the Eltanin.

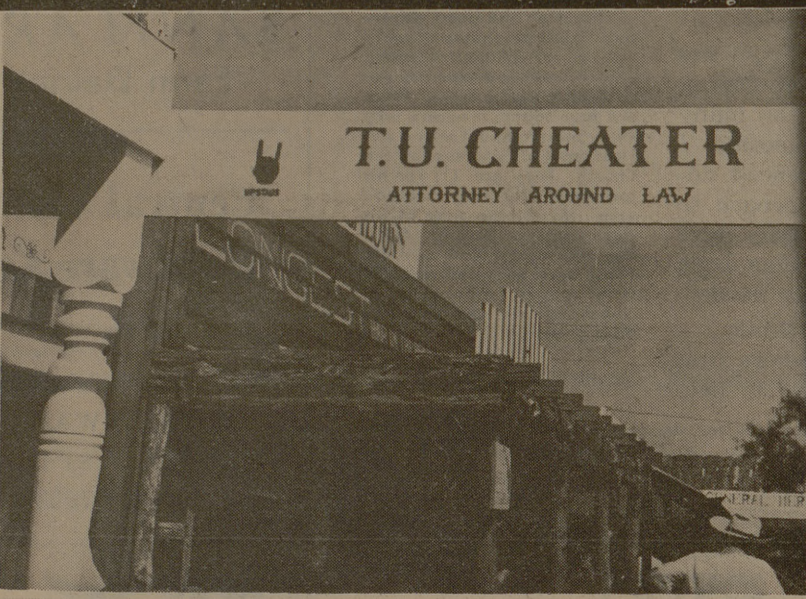
The U. S. Antarctic Research Program representative is normally an NSF official.

As chief scientist, El-Sayed will be responsible for management, coordination and scheduling of scientific programs aboard the 266-foot NSF research ship. Twenty universities and agencies to be represented include the La-

mont Geological Observatory of Columbia University, the U. S. Weather Bureau and the Smithsonian Institute.

El-Sayed also will head a three-man A&M party which will conduct biological productivity studies on the voyage from Brisbane, Australia, to San Francisco.

Dean Letzring, Oceanography Department technical operations coordinator; Argentina visiting professor Aquiles De Romedi, and George Weissberg, graduate research assistant from Germantown, Pa., comprise the party.



# Welcome to JUBILEE JUNCTION

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