

## Route 3 Research Results Released

Research data on the Texas City interchange on Route 3 from Houston to Galveston has been released by Texas Transportation Institute researchers at A&M University in the form of a publication entitled, "Lighting Studies at Texas City Wye."

The researchers said results of the lighting study will be of interest to motorists who travel Route 3 which connects Houston and Galveston.

The Texas City Interchange on Route 3 was experimentally lighted with several arrangements of overhead luminaires so that many combinations of spacing and mounting heights could be employed. The visual effects of various combinations of lights from the approach directions are discussed in the publication available through the Institute or the publications office of the Texas Engineering Experiment Station.

The study considered the potential areas of conflict for a driver approaching and passing through the intersection from either of two directions—from Texas City or from Galveston. Evaluations of the approaches from Galveston and Texas City were made at the continuous, intermediate and minimum spacings of luminaires on 30-to-45-foot mounting heights in clear, dry weather. At each location and for each lighting condition data were taken for the horizontal and vertical roadway illumination distribution.

the roadway brightness of at least five targets and their background at various locations, relative visibility of at least five targets, transition brightnesses of the roadway for several hundred feet ahead, roadway reflectance characteristics, and other elements of visual guidance that were present.

Data for each lighting arrangement were considered on the bases of adequacy of the brightness pattern to reveal objects, and develop guidance information, variation in relative visibility within the central field of view, transition of brightness patterns from one zone to another, glare effect of the luminaires, and magnitude of the driver's eye adaption and its rate of change.



FUTURE PILOT GETS INDOCTRINATED

## Marine, Naval Air Team Offer Flight Programs

Special trained Marine and Naval teams from New Orleans and Dallas Naval Air Stations are presently on Campus through Friday in the Memorial Student Center to present information about flight programs to interested students.

Actual qualifying tests are being offered to interested freshmen, sophomores, juniors and seniors. The tests may be taken without obligation.

The navy is offering four different programs of flight training, leading to commissioned rank and designation as a navy pilot or a naval aviation observer. 20/200 vision will qualify for two of the programs.

"AOC", aviation officer cadet program, offers the qualifying college graduate, married or single, the chance to receive a commission after completion of basic flight training. Following completion of the flight training the AOC will receive his wings.

"NAVCAD" is a program that enables a student who has completed a minimum of 60 semester hours to enroll as a Naval Aviation Cadet throughout the entire flight training period. Upon completion of this training the cadet will receive his wings and a commission. NAVCADs may not marry until completion of the flight training program and commissioning.

"NAOC", is a non-pilot training program leading to a commission with flight duties such as navigator or bombardier. A bachelors degree is required as in AOC, but the physical requirements are less stringent as only 20/200 vision qualifies.

"OCAN" is a cadet type of program working toward the "NAOC" program. Single students with 20/200 vision or better can qualify. "NAVCAD" and "OCAN" may apply after 45 semester hours, "NAOC" and "AOC" require 90 hours to apply.

Age limits are 18-25 for "NAVCAD" and "OCAN", 19-26 for "AOC", and 19 to 27½ for "NAOC". Veterans ages may be adjusted up to 36 months for "OCAN" and "NAOC".

The Marine Corps aviation programs may be inquired about at the Marine booth in the MSC.

## Kroiter Announces A&M Bowl Team Given Medallions

The four members of the A&M College Bowl team will receive medallions for their participation on the General Electric College Bowl.

Dr. Harry P. Kroiter, associate professor of English and team coach, said that the medallions will be given to Lawrence Kelmanson, Bobby L. Limmer, John A. Schmidt and Calvin C. Simper. There will be no formal presentation, Kroiter said.

The \$500 scholarship fund A&M received for sending a team to the College Bowl, Kroiter said, has been deposited under the name of the General Electric Company Award, and will be dispersed by Dr. Frank W. R. Hubert, dean of the College of Arts and Sciences.

## Anderson Writes Magazine Article

Dr. John Q. Anderson, head of the A&M University Department of English, is author of an article appearing in the latest issue of "American Literature."

Title of the article is "Lowell's 'The Washers of the Shroud' and the Celtic Legend of the Washer of the Ford."

## Aggies Receive Turf Scholarships

One \$400 and two \$300 scholarships were given at the Texas Turf Grass Conference held here last week.

Allan Luymes, plant and soil science major from Sioux Falls, S. D., received the \$400 scholarship. Robert Heine, agronomy major of Thronedale, and David Myers, agronomy major of Haltsville received the \$300 awards, since both will graduate in January, each will receive only \$50, said Dr. E. C. Holt, professor of agronomy.

Requirements for the \$400 scholarship from Golf Courts Superintendents Association of America and the two scholarships from Texas Turf Grass Association are the same.

## History Prof Finds Confederate Report

A Confederate report discovered by Dr. Allan C. Ashcraft, assistant professor of history at A&M University, appears in the Autumn issue of "The Chronicles of Oklahoma." The report entitled "Confederate Indian Department Conditions in 1864" reveals conditions among the Choctaw and Chickasaw Indians during the Civil War.

The report is that of Col. R. W. Lee, assistant superintendent of Indian affairs of the Confederacy.

Ashcraft's interest in the Trans-Mississippi Department of the Confederacy led to his discovery of Lee's unpublished report, which is to be followed in subsequent issues of the Chronicles by other related documents prepared under Ashcraft's editorship.

## Aggies, Owls Tie For 5th In Debate

Two debate teams representing A&M University won six out of 14 sessions to give the Aggie debaters a tie for fifth place with Rice University in the Southwest Conference Debate Tournament in Dallas over the weekend.

The Aggie team of Robert Denney and Paul Humphries, debating the affirmative, won four of their seven debates.

Simeon Lake and Sam Henry Jr., taking the negative argument, won two of their seven debates, John F. Carson, debate coach and an A&M English instructor, said.

Baylor University won the tournament championship.

Competing were the eight colleges and universities in the Southwest Conference.

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## Conference Predicts Longer Life Expectancy For Man

"If scientists can find a cure for old age, some of you may live to be 400 or 500 years old," a distinguished professor of chemistry told 90 delegates to the Collegiate Research Conference here Monday.

Dr. Frederick R. Duke, a member of the chemistry faculty and conference keynote speaker, also predicted that scientists in the future will be able to "take something not living and make something living."

"Now this may appear sacrilegious to some," Duke commented and then referred to man's development in scientific fields. "Some say if God wanted man to have wheels, He would have made him that way."

Duke reported that 90 per cent of all scientists who ever lived are still alive today, emphasizing the growth and youth of science.

"THE CHEMISTRY LITERATURE that has been published in

the last 10 years exceeds all previously published literature in chemistry," the speaker noted.

Duke, at the same time, predicted that developments in science will begin to level off.

"I'm afraid you are going to be disappointed," he said, "if you expect this high rate of progress will continue at the same rapid pace. It's getting harder to make big discoveries, although there is plenty left to do."

ANOTHER FACTOR that will contribute to the leveling off period in science will be the lack of engineers, Duke commented.

"There is a greater lag between the discovery and application to day," the chemistry professor said, "because the engineers have something else to do."

Duke said each student "must develop his talents to the fullest potential" and referred to the needs of industry for persons with

advanced degrees. "THERE IS PLENTY of opportunity in this state and this nation," he added, "for those with graduate degrees."

The two-day conference is sponsored by the Texas Academy of Sciences to encourage science scholars to enter graduate studies once they complete their undergraduate work.

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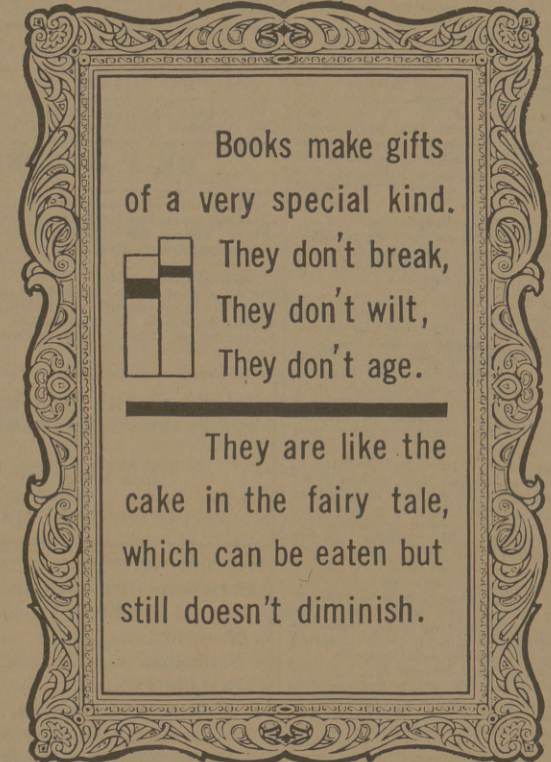
## Bound Proceedings Of Texas Industry Confab Available

Bound copies of the Proceedings of the Thirteenth Annual Texas Industrial Development Conference Sept. 26-27 on campus are now available through the Texas Engineering Experiment Station.

The conference, which drew top Texas industrialists and businessmen, was sponsored by the Industrial Economics Research Division of the Texas Engineering Experiment Station and was co-sponsored by the Texas Industrial Development Council.

Included in the 120-page publication are reprints of the speeches presented during the conference by Texas economists, industrialists, and businessmen.

Also appearing in the publication are remarks by J. R. Bradley, head of the Industrial Economics Research Division, Texas Engineering Experiment Station; Earl Rudder, president of A&M University; Raymond W. Hedges, executive vice president, Odessa Chamber of Commerce, Odessa, and Thomas W. Finney, vice president of industrial development, First National Bank, Dallas.



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