

Contest For Aggie Petroleum Students Being Sponsored

Leading manufacturers of oil field equipment are sponsoring a contest for senior petroleum engineering students in which term themes are judged for cash awards, the petroleum engineering department has announced.

L. C. Gross of the department said that the sponsors were Reed Rock Bit Company, National Tank Company, Halliburton Oil Well Cementing Company, Cooper Bessemer Corporation, and Pittsburgh Equitable Meter Company.

The cash awards range from \$25 to \$10 according to the judged value of the papers, the professors in the department will grade them and make recommendations as to the best papers.

The better papers will then be turned over to the manufacturers for their approval.

Cash awards handled on such scale for classes is believed to be unique, and in the past the sponsors have greatly stimulated technical writing in this manner.

The subjects all deal with the petroleum production industry, and each manufacturer sponsors a subject in which he is particularly interested.

The various subjects are Well Surveying Instruments, Rock Bits, Lease Stock Tanks, Compressors in Natural Gas Transmission, Oil Metering, Oil Well Coring, and Placing Acid in Oil Well Treatment.

A. & M. Cadets Parade In Downtown Fort Worth



Fifty-five hundred uniformed Texas Aggies, parading to the music of two bands, gave Fort Worth its first public view of the new "streamlined" drill Saturday. Above is shown a portion of the parading cadets as they passed the reviewing stand. Thousands of Fort Worth citizens as well as many out of town visitors crowded the line of march down Main and Houston Streets.—Photo Courtesy Fort Worth Star-Telegram.

Giesecke To Attend National Society Meetings Next Month

High School's "Who's Who" Lists 39 A. & M. Fish

The American High School Educational Association at Austin, Texas, has prepared a Who's Who Among High School students in Texas in 1939. Of the number appearing in the book, 39 are attending A. & M. as Freshmen this year.

The following A. & M. freshmen were listed in the book:

- Ball, E. B., Liberty.
- Betts, J. D., Fairy
- Burgett, A. W., St. Joseph Academy, Dallas.
- Burks, S. V., Jr., Poteet.
- Cook, B. L., Montgomery.
- Dreiss, W. F., Breckenridge.
- Eads, Ralph, Jr., Robstown.
- Erlund, O. J., Crosby.
- Franklin, C. C., Rockdale.
- Fritsch, J. R., Fayetteville.
- Glass, I. V., Hughes Springs.
- Gleason, J. F., Jr., Prairie Lea.
- Hahn, H. C., Mason.
- Ham, C. M., Crane.
- Hubble, J. C., Webster.
- Jones, J. N., Newman.
- Keeney, F. C., Weslaco.
- Longley, J. B., Giddings.
- Lock, H. D., Somerville.
- McClelland, George, Henderson.
- McLean, S. H., Marquez.
- McMillan, L. H., Mason.
- Moses, A. R., Milby, Houston.
- Parker, W. D., Monshans-Wick-ett.
- Roberts, G. E., Cotulla.
- Scoggins, P. W., Tioga.
- Sisler, C. E., Junction.
- Terrell, Raymond, El Paso.
- Thompson, Q. W., Troy.
- Vollmer, F. E., Central Catholic, San Antonio.
- Wade, J. H., Edeouch-Elsa.
- Walker, G. R., Axtell.
- Weed, J. M., Jr., Rockdale.
- Whorton, R. H., Roscoe.
- Wilcott, J. S., Ysleta.
- Wunsche, E. E., J., Spring.
- Yartz, J. W., Austin, Port Arthur.

Dr. F. E. Giesecke, Professor Emeritus of Heating, Ventilating, and Air Conditioning of A. & M. and first vice-president of the Air-Ventilating Engineers, plans to leave the first of next week to visit some of the chapters of the Society and to attend to other duties for the society in general.

Dr. Giesecke's trip will carry him to the regional council of the society in Atlanta, Ga.; the North Carolina chapter in Charlotte, N. C.; the Washington, D. C., chapter; the New York chapter in New York City; the Massachusetts chapter in Boston; the Montreal chapter in Montreal; the Ontario chapter in Toronto; the Western Michigan chapter in Grand Rapids; and the Kansas City chapter in Kansas City.

While in Washington he will have conferences with officials of Federal agencies which carry on cooperative research with the Society.

In New York Dr. Giesecke plans to visit with the officials of the Society and with Dr. Winslow in the Pierce Research Laboratory at Yale University. Dr. Winslow is Professor of Public Health at the Yale School of Medicine and chairman of one of the research committees of the Society. He is carrying on work on the physiological influences of air conditioning in human beings in the Pierce Laboratory.

There are so many chapters of the Society in the United States that the president cannot devote time to attending all the state meetings. As a result the two vice-presidents of the society along with the president are attending the meetings throughout the country. Dr. Giesecke is attending in his capacity as first vice-president.

Fi Batar Kapper is the name of the mock honorary fraternity at West Virginia University.

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Outline of Texts for Ground Work In New Vocational Flight Training Program Soon To Be Inaugurated At Texas A. & M. Are Announced

In keeping with the Vocational Flight Training Program which is to begin here soon, an outline of texts to be furnished in the ground school work has been prepared by officials of the engineering school.

The ground course, with classes to be held in the Mechanical Engineering Building, has proven to be very popular with A. & M. students. Applications to take the course issued by the school of engineering were depleted in a few days after being issued.

Some of the requirements for students taking the course are as follows: All students must be citizens of the United States, at least 18 years of age and not over 25, and must have completed the

freshman year. In addition all applicants must not have had any solo flight experience and must pass a rigid physical examination. An outline of the texts in the course are as follows:

I. History of Aviation—2 Class Hours.

Man's desire to fly—Legendary flight—The development of early types of balloons—Gliding in its development—Exterior powered airplanes—The work of the pioneers in actual flight—Development of the airplane in the World War.

II. Civil Air Regulations—12 Class Hours.

The need for centralized regulation—Aircraft airworthiness—Certificates—Identification numbers and marks—The requirements as to maintenance and inspection of aircraft—The air traffic rules—Privileges and limitations of pilots.

III. Navigation—15 Class Hours.

The need for a knowledge of navigation—Globes, maps, and charts—The various systems of projection—Navigation by "Pilotage"—Dead reckoning—Course lines and correction for drift—the compass and its errors—Variation, deviation, and drift—Combination methods of navigation—Fixes and orientation—Complete navigation work.

IV. Meteorology—15 Class Hours.

Weather and climate—The fundamental elements of weather—Pressure, temperature and humidity—High and low pressure areas and their travel—Isobars, isotherms and weather symbols—Cloud formation and types—Precipitation—Condensation and advection fogs—Relation between temperature and dewpoint—Interpretation of complete weather maps—The air mass theory—identification of air masses and fronts.

V. Parachutes—Class Hour.

Theory and construction of the modern parachute—The pack, harness and case—Care and use of parachutes in modern practice.

VI. Aircraft and Theory of Flight—15 Class Hours.

Structure of the atmosphere—Air as a mass capable of supporting weight—The flow about an airfoil—Action and reaction as obtained by an airfoil—Airfoil shapes—Angle of attack—Lift forces—Drag forces—Center of pressure—Resulting force—Wing structure and design—Control and stability in flight—the tail surfaces—General design—Inspection and maintenance.

VII. Engines—5 Class Hours.

Expansion of gases with heat—The simple heat engine—Internal combustion engines—The four stroke cycle—Valves and valve gear—Cams and cam rings—Spark plugs—Ignition—Lubrication—General inspection and maintenance.

Football Team Subsidization Told By Wallace

Philadelphia, Pa., Oct. 25.—The story of football subsidization at the University of Pittsburgh "supplies a laboratory case history of what has happened, or what is happening, or what may happen, wherever there is play for pay" Francis Wallace, noted sports authority, says today in The Saturday Evening Post.

"The Pitt story is worth telling in detail because dramas similar to it, in all of its complexity, have been enacted behind closed doors at dozens of universities throughout the country" says Wallace.

The climax of play for pay at Pitt, Wallace says, was a clash between Chancellor John G. Bowman and Dr. John Bain Sutherland "perhaps the most successful football coach in the last decade, a national hero, the darling of the alumni and town followers of Pitt," but it was also a clash between the stadium and the Cathedral of Learning, Dr. Bowman's dream university building, a "conflict between academic ambitions and rewards and athletic ambitions and rewards—the old business of brain vs brawn, in short."

Wallace says that many of the questions regarding play for pay are now available "thanks to the record of a complete cycle of subsidization at Pittsburgh" and also to the fact that he was able to discuss the situation with all of the principals.

"Football subsidization began at Pitt for the same reason as at other colleges—the game caught on" the article says.

"The chancellor busy with his faculty and his mortgage, had little interest in football. In any case, it seemed to be standing on its own feet. And in those days play for pay caused no more real trouble than the average mischievous boy in any family.

The Campus Crumb is the name of a lunch service managed by Haverford College students.

The Temple University school of medicine had 2,000 applications for 110 vacancies in its freshman class.

VIII. Instruments—5 Class Hours.

Grouping of instruments—Flight instruments—Power plant instruments—Navigational instruments—Heat indicators—Gyroscopic instruments—Pressure indicators—Speed indicators.

IX. Radio Uses and Forms—2 Class Hours.

Standard phraseology used in dispatching and reporting movement of aircraft.

The Sidelights Of American Industry

Surprised!—

Producers got more than they bargained for recently when they drilled for oil in Sweetwater County, Wyoming. A new mineral, a double carbonate of sodium and calcium in crystal form, was found in a well core at 1800 feet.

Geologists have named it "shore-tite" and believe it may be useful in glassmaking and ceramics work if found in sufficient quantities. A sample of trona, with which the new mineral is associated, was taken from this well in 1938.

The new find probably will be one of the few mineral discoveries of the year. So thoroughly has the earth been combed that during the past two years only about 20 new minerals were discovered in the entire world.

Pikes Peak on High—

Modernized Seven League boots for mountain climbers is a 20-ton diesel-electric locomotive which makes the ascent of the famous Pikes Peak 90-mile cog railway in one hour and ten minutes. It is powered by three generating units, first of its type in the world.

Fire Trucks Down East—

New England is arming with modern efficiency against a traditional foe—the forest fire. Trucks equipped for heavy duty fire-fighting in mountain forest preserves carries a pump with a 250-gallon-per-minute capacity at 300-lbs. pressure, a 250-gallon auxiliary tank, 2,000 feet of hose, portable tanks and tools for 50 men. In addition, there's room for a fire-fighting crew of ten.

Any Ice?—

A slot machine that works overtime in summer is the "mechanical iceman." After 15 cents has been deposited it delivers a 25-lb block of ice wrapped in heavy waxed paper. Sales are heaviest over week-ends.

To Time to be Homesick—

They may be far from home and half way around the world but the men who hold oil jobs in the Dutch East Indies find life too interesting to think much about that.

At Sumatra, where the East Indian refineries are located, working schedules are arranged to give plenty of time for golf, tennis, bi-weekly talks and other amusements.

In the northern part of the island, however, savage tribes are making a last stand against the whites. Here, amateur explorers with a taste for adventure can find plenty of thrills. A short trip by plane or boat brings them to a world contrasting sharply with the well-ordered life at Sumatra.

Gonzaga University's athletic coaching staff is composed entirely of graduates of the school.

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