

(By Ed McKeever)

LUBBOCK, Texas, April---. Texas Tech's coaching school for the coming summer may eclipse in attendance and importance the largely attended school held last summer, according to Head Coach Pete Cawthon. The dates are July 31 to August 12.

The 1932 school had an enrolment of 473, and boasted such nationally known athletic coaches and authorities as "Pop" Warner, Hunk Anderson, Frank Carideo, Clipper Smith, Clyde Littlefield, "Phog" Allen, and Claude Thornhill. Yet for balance, variety, and meeting the individual needs of the coaches, the 1933 coaching school promises to surpass that of 1932.

For this year's school, Harry Kipke, All-American halfback of the 1922 Michigan Wolverines, will stress the short punt system of offensive and 6-3-2 defense. As head coach of the Wolverines Kipke has won 29 out of his last 30 games in Big Ten competition; and under his tutelage Michigan was awarded the Dickinson National championship of 1932.

Andy Kerr, dynamic mentor of Colgate university, will demonstrate the triple wing back formation, a variation of the double wing back system with a man in motion. Kerr has the distinction of winning over 80 per cent of his college games since 1917.

Bernie Bierman, formerly of Tulane university, and present head coach of Minnesota, will put on the single wing back technique of play, stressing speed and deception rather than power. While coaching the Green Wave of Tulane, Bierman's team won 31 consecutive Southern Conference victories. Bierman's defense, the famous six-man line, and 6-2-2-1 defense, will also be illustrated.

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Noble Kizer, head coach of Purdue university, and star guard of the 1924 Notre Dame team, will demonstrate the ever popular Notre Dame style of play. The shifting, deception, strong and weak side plays, and line play, will constitute the basis of Kizer's teachings.

Ray Morrison, head coach of Southern Methodist university and a member of the National Rules committee, will lecture on the new rules.

Craig Ruby, basketball mentor of Illinois University since 1923, and one of the greatest players ever produced in the Missouri Valley, will bring the Ruby system to the Southwest for the first time. Ruby will give the plays, the fundamentals, and technique of his system.

Major John L. Griffith, commissioner of Western Conference athletics will discuss administration and organization of athletics. Major Griffith is one of the most noted authorities in national athletics today, having served as director of athletics at Yankton college, Morningside college, Drake, and the University of Illinois, besides receiving the title of major for his work in the army.

Clyde Littlefield is without peer as track coach in the Southwest. His University of Texas teams have won national recognition.

Ed Gallagher of Oklahoma A. and M. is rated by many experts as the premier wrestling coach of the United States. Coach Gallagher will teach both wrestling and physical education.

Besides these headline coaches supplementary teaching and lectures will be given by "Doc" Sprague of Texas A. and M. on the treatment of injuries, Captain C. M. Woodbury of New Mexico Military institute on boxing, Clipper Smith of Santa Clara university, and Rip Miller of the Navy on the Notre Dame style of football.

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From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Jan.----. Three hundred new students have registered at Texas Technological College this term, bringing the total for this session to 2248. The total enrolment for last year was 2053, making a net gain of 195 at this time. New students expected to enter at the spring term March 21 are due to bring the year's enrolment to a new high mark for any long term.

LUBBOCK, Texas, Jan.----. Basketball games on the schedule of Texas Technological College for the remainder of the season are: Sul Ross at Alpine January 16, New Mexico A. & M. at Las Cruces January 17 and 18, Canyon Teachers at Canyon January 20 and 21, Simmons University at Abilene January 23 and 24, Oklahoma City University at Lubbock February 1 and 2, New Mexico Military Institute at Roswell February 6 and 7, New Mexico Normal University at Las Vegas February 8 and 9, New Mexico University at Albuquerque February 10 and 11, Simmons University at Lubbock February 16 and 17, and Canyon Teachers at Lubbock February 23 and 24.

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LUBBOCK, Texas, Jan.----. President Bradford Knapp of Texas Technological College has been appointed a member of the National Council of Boy Scouts of America.

LUBBOCK, Texas, Jan.----. Governor Miriam A. Ferguson has been presented with a coat which was entirely a product of Texas Technological College. The wool was from sheep belonging to the school of agriculture, the cotton in the coat was grown on the campus. Both the wool and cotton were cleaned, spun, woven, and dyed by students in the department of textile engineering. A student in the school of home economics made the cloth into the finished coat. It was presented to the Governor by President Bradford Knapp with the compliments of the college.

LUBBOCK, Texas, Jan.----. Prof. Carl D. Brandt, head of the textile department of Texas Technological College, is conducting an experiment to determine whether or not the tensile strength of cotton is increased by leaving it on the seed for a time after being picked. It is said that old Southern planters often held their cotton for this purpose for two weeks or more before ginning. The experiment will require a year to determine definite results.

LUBBOCK, Texas, Jan.---. Jimmy R. Gammill, Texas Tech senior, is more than paying his expenses in college by officiating at basketball games for rural and small town schools within a radius of 75 miles of Lubbock. He has worked 63 games already this season, and expects all the games he can handle during January and February. Gammill's popularity as an official is due in some measure to his "acting" during the game.

LUBBOCK, Texas, Jan.---. No student who has ever failed a course is eligible for a position with one of the country's largest chain department store systems, according to the employment manager. A number of Tech boys have already secured connection with this concern for training as managers and a number of the graduates of this year's class will also be selected, but no one may apply who has an "F" on his record.

LUBBOCK, Texas, Jan.---. Frazier Kemp of McCauley, graduate of the department of dairy manufactures, Texas Technological College, has received an appointment as dairyman in the United States Department of the Interior, and has been assigned to the Indian Service at Carter Seminary, Ardmore, Okla.

LUBBOCK, Texas, Jan.---. "Failure of our monetary system, and not overproduction, is the principle cause of our present depression," according to Dr. J. O. Ellsworth, head of the department of agricultural economics at Texas Technological College. He continues:

"Just because overproduction at times does cause low prices, we are prone to attribute the present low prices to that cause. Statistics do not confirm such an idea in the present condition. It is true that goods in some cases are accumulating, but such surpluses are the result of the depression and not the cause of it. Unemployed consumers are poor customers.

"Authentic production data, compiled by Warren and Pearson of Cornell University, indicate that the total production in the United States indicate that the total production in the United States increased 1.7 percent per year from 1840 to 1915, and only 0.6 percent per year from 1915 to 1929. Similar conditions apply to the production of physical goods for the entire world. Production has increased less since 1915 than for the 75 years previous.

"If only the prices of a few commodities were low we might justly think overproduction to be the cause; however, when all goods are low in price some other factor must be at the bottom. Price is the ratio of the supply and demand of goods to the supply and demand for gold. Gold, the basis of our money system, acts like any other commodity. When it is over abundant it is cheap and when traded for other goods the goods are high priced. This situation existed during the war when most all nations, including the United States, were practically off

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the gold standard. Nations were not bidding for gold, so gold was cheap and the price of goods was higher in terms of cheap gold. After the war governments again began to bid for gold, making it higher and higher in price and the price of goods consequently continued downward.

"We need an annual increase of 5.6 percent in our gold supply to care for the increasing needs. In 1932 we needed 32,000,000 ounces of new gold; we mined only 24,000,000 ounces. This means the supply did not equal the demand, thus gold advanced more in price and the price of goods went down.

"Debts and taxes were contracted largely at a price level of 1926 to 1929. At that time all debts amounted to 56 percent of our national wealth. In 1932 debts were 85 percent and in 1912 they were 34 percent of our wealth. Business is unlikely to materially revive until either the debt is lowered to the price level or the price level is raised to the debt level. Debts and taxes may be lowered through the process of continued bankruptcies and receiverships, and will require ten to thirty years to complete. This is the process of deflation. Reflation, or the raising of the price level, may be done by Congress revaluing the dollar. We have 93 billion grains of fine gold back of our United States dollars. At 23.22 grains to the dollar we have four billion dollars. Revalued at, say, 15 grains to the dollar, we would have six billion dollars, or enough to restore the 1925 to 1929 price level. This might also be accomplished by monetizing silver.

"A more satisfactory solution seems to be one favored somewhat in England at the present, which consists of summetallism, or placing a certain number of grains of gold plus a certain number of grains of silver back of the dollar. The exact quantity should vary from year to year in ratio to the variation of new gold and silver coming into use. Either the quantity of metal back of the dollar must vary or the value of the dollar will vary. All business needs is a stable dollar or stable value in the medium of exchange. With a uniform value of the dollar, the value of any one commodity would vary with its supply and demand. At present, this is not the case."

LUBBOCK, Texas, Dec.----. A simple and inexpensive method of making paleographic wall maps for use in teaching elementary students in geology has been devised by Dr. Leroy T. Patton, head of the department of geology in Texas Technological College. Following a recent article in "Science", in which Dr. Patton explained how these maps are made and used, he received a letter from one of the large science supply houses of the country asking permission to manufacture them in quantities for the trade. Dr. Patton has been using these maps for some time in his teaching here and he gladly gave his permission for their manufacture.

LUBBOCK, Texas, Dec.----. Of the 1951 students enrolled in Texas Technological College, church preference or membership as given at registration show 708 Methodists, 596 Baptists, 180 Presbyterians, 149 Church of Christ, 137 Christian, 27 Catholic, 23 Episcopal, 10 Lutheran, seven Christian Science, three Evangelical, three Latter Day Saints, two Greek Orthodox, two Nazarene, one each Confucian, Congregational, Fundamentalist, and 101 no preference.

LUBBOCK, Texas, Dec.----. Examinations for the fall term at Texas Technological College will be held from December 16 through December 20. Registration for the winter term will be completed in one day, which is January 3.

LUBBOCK, Texas, Dec.----. Miss Annah Jo Pendleton, professor^{of speech} at Texas Technological College, was elected treasurer of the Texas Speech Teachers association at a meeting held in Fort Worth recently.

Miss Ruth Pirtle, head of the department, was named chairman of the committee on speech correction. Under her supervision, the committee will publish bulletins to be distributed through the Texas public schools.

Sixteen students majoring in speech at Texas Technological College are conducting a speech correction clinic in the Lubbock public schools under Miss Pirtle's supervision. Two hours of scientific correction drill are given in every school each week. Students keep charts on defective cases and make weekly reports to the supervisor. More than 100 pupils were treated during the spring term last year for defects ranging from slight lisping to cleft palate.

LUBBOCK, Texas, Dec.----. The Matador band at Texas Technological College presented Miss Helen Barstow of Albany as band sweetheart at their first annual dance recently. Proceeds from the dance will be used for purchase of new band uniforms.

LUBBOCK, Texas, Dec.----. The senior class gift to Texas Technological College for 1933 will be selected by a committee composed of President Bradford Knapp and Professor B. F. Condray, class sponsors; Basil Hill of Lamesa, James Loughridge of Waco, and Carl McAdams of Gordonville, members of the class. The gift, which will be dedicated during the spring term, will be chosen for its permanence and usefulness to the college. Eugene Edwards of Fort Worth is president of the class.

By Geo. W. Woodbury, Assoc. Prof. of Horticulture
Texas Technological College

LUBBOCK, Texas, Dec.----. When the first killing frosts have destroyed the tops of dahlias and cannas, the roots or fleshy underground parts should be dug and properly stored. This applies also to gladiola which have been out of bloom for some time, and the tops of which have died.

In general, all of this material requires a storage condition which is cool and relatively dry. If storage is too warm, evaporation takes place rapidly and the roots or bulbs will be damaged. The material, if kept too moist, will be damaged by rot organisms. A temperature of about 40 degrees F. is recommended. A dry cool cellar will serve the purpose, or an attic which is not too warm.

Dahlia roots should be dug carefully to avoid breaking the crowns. After the soil on them has dried sufficiently, it may be easily shaken off, and the roots are ready for storage. Some growers prefer to store them in dry sand in boxes or barrels. This method reduces drying-out to a minimum, and will sometimes prevent growth while in storage. If one has a few choice roots, the following method may be used. The roots, after having been washed free of soil, are dipped in a pail about two-thirds full of water, over which is a layer of melted paraffin. The temperature of the water and the paraffin should be from 160 to 170 degrees F. Paraffin of a high melting point should be used. Immersion should be done quickly, or injury is likely to result. If the wax is too cool, too thick a layer will be formed, and the paraffin will crack off. A second dipping of the roots may be made if complete covering is not accomplished at first. This method may be used with equal success on cannas.

While some gardeners prefer to leave dahlias and cannas as well as gladiola in the ground over winter, this practice is not recommended. In the case of the dahlia, too early growth results the following season, bringing the plants into bloom at the hottest season of the year. It also results in too much growth from the undivided crown of the previous year. With the gladiolus, there is danger of losing the mother bulb as well as the small bulbs or cormels which form at the base. The soil cannot be properly worked if the bulbs are to be left in the ground. Cannas soon spread out, become crowded and produce unsatisfactory growth if not dug up and the crowns divided.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Aug.----. Clifford B. Jones of Spur, chairman of the board of directors at Texas Technological College, has recently been appointed regional advisor for Texas, Louisiana, and New Mexico by President Roosevelt for his public works administration.

Mr. Jones, whose office will be in Fort Worth, is one of ten men appointed by the president to work with the national planning board in Washington on the expenditure of federal money to ~~redistribute~~ employment in the 48 states.

Functions of the regional advisors will consist of obtaining from the state boards within the region lists of projects under consideration by them together with recommendations or rejections. Each regional advisor will visit the offices of the state boards within his region from time to time and consult with them for sound local and district planning.

Mr. Jones was president of the West Texas Chamber of Commerce in 1921, and is now a member of its executive board. He is also serving on the directorate of five railroads, the Spur National bank, the regional agricultural credit corporation in Fort Worth and Dickens county, and the Trinity Bond and Investment company of Fort Worth. Since 1911, he has been manager of the Swenson interests in northwest Texas. He has been a member of the board of directors at Texas Technological College since its founding in 1925.

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LUBBOCK, Texas, Aug.----. A four year course in commercial art will be offered in the department of architecture and allied arts at Texas Technological College during the coming year. The course of study is planned to prepare students for work in commercial advertising and illustrating fields, or for teaching art in public schools. Emphasis may be given a purely cultural study of the fine arts if the student desires.

The department has been materially aided by a gift from the Carnegie corporation of teaching equipment valued at \$5000, according to Prof. F. A. Kleinschmidt, head of the department. The donation was made for the purpose of furthering interest in the fields of art and architecture in this section of Texas.

LUBBOCK, Texas, Aug.----. A mechanical engineering major which will prepare students for administrative rather than technical duties will be offered at Texas Technological College next year, in addition to the regular mechanical engineering degree. The course will give training in the fundamental sciences, mathematics, engineering, business administration and economics, and at the same time will give sufficient knowledge of the fundamentals of engineering to enable the student to master the more technical subjects if the need arises.

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The textile chemistry course will include work in dyeing, finishing, bleaching, laundering, dry cleaning, and the manufacture of rayon and chemicals.

The course in fabric design will offer practical training to men and women students who are artistically inclined. One phase of this work will be the laying out of original designs in fabric structure by the student and weaving them on the power looms.

7/24/33
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Tuition fees, provided by law for each student who is a bona fide resident of the State of Texas, will be \$25 per semester. A uniform deposit, covering breakage in all laboratory courses, library fines, and other charges for injury, loss, or destruction of state property, will be \$7.50, the unused portion of which will be returnable at the end of the semester. A medical service fee of \$2.25 per semester, which is optional, covers medical care and hospitalization for a limited period.

A student activity fee of \$5.00, which is also voluntary, entitles the student to free admission to all football games, basketball games, and other athletic sports. Special course fees and rental charges will be made for courses in typewriting. Otherwise, all laboratory courses are included in the \$7.50 deposit.

Students who are non-residents of the State of Texas will be charged an additional fee in accordance with the new law, which provides that the fee shall be an "amount equivalent to the amount charged students from Texas by similar schools in the state of which the said non-resident student shall be a resident."

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LUBBOCK, Texas, July---. Motion pictures of several championship football games will be one of the features at the Texas Technological College coaching school which will be held July 31 to August 12, according to Head Coach Pete Cawthon.

Coach Andy Kerr of Colgate is bringing a complete moving picture of the Colgate vs. Brown game played last fall, showing the double wing back offense of the Colgate team which won them the championship of the East last year.

The short punt formation involving great passing attacks by the Michigan university Wolverines, winners of the Big Ten championship last fall, will be demonstrated in pictures of at least three Michigan games which Coach Harry Kipke is bringing. This short punt will be the most popular system at the coaching school this year, since 75 per cent of the high school coaches use it.

Bernie Bierman's single wing back formation, that hard driving offense which put Tulane university at the peak of the football world, will be demonstrated in a film of the Southern California vs. Tulane game played in the Rose Bowl at Los Angeles two years ago.

Coach Noble Kizer of Purdue will show the Northwestern vs. Purdue game played last fall, in which the Notre Dame shifting offense radiates with intricate timing, perfect blocking, and infinite power back to the weak side, with the unequalled weak side spinning attack.

This is the third annual coaching school to be held at Tech. Registration fee for the school will be \$25.

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LUBBOCK, Texas, July---. The Texas Agricultural Workers' association will meet in Lubbock in January, 1934, under the auspices of the agricultural division of Texas Technological College. Prof. W. L. Stangel, head of the animal husbandry department, is meeting with the officers of the association at College Station this month to plan the program.

LUBBOCK, Texas, July---. The total number of individuals enrolled for the summer school at Texas Technological College is 1,287. There were 1,082 students enrolled the first term, and 728 have enrolled for the second.

The 19.86 percent reduction over the 1932 summer school figures of 1,606 may be attributed to three things, according to President Bradford Knapp: the fact that funds were not voted for summer schools at state institutions until about a week before the time for opening, the issuance of warrants instead of cash to teachers in many Texas schools, and the general economic situation.

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LUBBOCK, Texas, June ---. Nomenclature of the schools at Texas Technological College was changed at a recent meeting of the board of regents, according to President Bradford Knapp. The four schools will now be known as the Division of Agriculture, the Division of Arts and Sciences, the Division of Engineering, and the Division of Home Economics.

Several promotions in the faculty were authorized. Acting Dean O. V. Adams was named dean of the Division of Engineering. Prof. Gus L. Ford, acting head of the history department, was made head of the department. Dr. W. B. Gates, associate professor of English, was made assistant dean of the Division of Arts and Sciences. Prof. Carl L. Svensen, head of engineering drawing, was made acting registrar. He will devote his time to both positions. Miss Evelyn Clewell is assistant registrar.

For outstanding work in the fields of archeology and anthropology, Dr. W. C. Holden's title was changed to professor of history and anthropology and director of archeological research. In addition to being dean of the Division of Arts and Sciences, Dean J. M. Gordon was also named dean of men.

Military science which has been a part of physical education was made a separate department. The department of agronomy and horticulture were consolidated into the department of plant industry. Courses leading to the degree of bachelor of science in chemistry, physics, and biology were approved. Options in textile engineering, textile design, and textile chemistry, also courses in architecture and
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commercial art in connection with the department of architecture were given approval.

Course fees in the sciences were abolished on account of the large increase in fees passed by the recent legislature. A blanket breakage fee, covering all laboratory courses, was authorized.

M. E. Ogdon was given a year's leave of absence to study international law at the University of California under a fellowship from the Carnegie Endowment. E. H. Plank was appointed to take his place for the year. A. B. Strehli of the foreign language department was granted a year's leave to work toward his doctorate.

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LUBBOCK, Texas, June --. Scholastic records of 32 Texas Technological college students, many of them seniors, were recognized in the commencement exercises at the college gymnasium.

Seniors graduating with highest honors were: Ben Hill Jenkins, Gail, average grade of 91.5 in agriculture; Travis J. Parker, Sudan, grade of 89.5 in engineering; Miss Effie Smith, Crosbyton, grade of 92.9 in home economics; Mrs. G. T. Hatton, McKinney, 93.7; Mrs. Kary Mathis, Beaumont, 92.9 and Mrs. Florence Ashmore, Coleman, 92.1 in liberal arts.

James Toothaker, Downs, Kas., was announced as the student having the highest scholastic standing in school. His average was 95.5. He is a sophomore liberal arts student.

Other students honored were:

Highest scholastic standing for senior who had done all work here: Ben Hill Jenkins, Gail, 91.5 (Agri.); Ruth Reed, Lubbock, 91.4 (L.A.); Allie Rae Collins, Claude, 91.3 (L.A.).

Highest scholastic standing for senior who transferred work here: Mrs. G. T. Hatton, McKinney, 93.6 (L.A.); Mrs. Gaster Spencer, Lubbock, 93.1 (L.A.); Effie Smith, Crosbyton, Texas, 92.9 (H.E.).

Highest scholastic standing for entire college: James Toothaker; C. E. Mitchell, Slaton, freshman L. A. 95.3; Novelle Bussey, Lubbock, freshman L. A. 94.3; Anna Mary Baucom, Lubbock, freshman L.A. 93.8.

Highest ranking student: Agriculture, T. L. Leach, Brownwood, sophomore, 93.7; Engineer, H. Houston Hinson, Lubbock, junior, 93.6;

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Home Economics, Katherine Leidigh, Lubbock, freshman, 92.8; Liberal Arts, James Toothaker, Downs, Kansas, sophomore, 95.5.

Highest scholastic standing for freshman class of entire college: C. E. Mitchell, Slaton; Novelle Bussey, Lubbock, Anna Mary Baucom, Lubbock.

Highest scholastic standing in textile engineering: L. E. Parsons, Sylvester, sophomore.

Best work done in English by any young woman in college: Miss Evelyn Gullledge, Lubbock, senior L. A.

Best work done in English by any young man in College: James Toothaker, Downs, Kas., sophomore L. A.

Best college citizen among women: Geraldine Clewell, Waco, senior home economics.

Best college citizen among men: J. Preston Conner, Lubbock, senior engineer.

M. C. Overton award for the greatest value to the athletic team in morale, fair and square play and honorable fighting: Albert Greer of Comanche, sophomore, agriculture.

Standefer-Canon award for highest grades among football letter men: Laurence Priddy, Gainesville, 88.6. The award is a permanent silver football plaque with name inscribed to remain in the athletic office. Priddy is a junior liberal arts student.

Double Key award: Emily Davis, sophomore, Lubbock. Award based on scholarship and leadership.

Pan-Hellenic award, \$30: Katherine Leidigh, Lubbock, home economics freshman.

(For the convenience of editors this story on the 1933 graduating class at Texas Technological College is arranged so that papers desiring to conserve space may use it in one of the following ways:

1. Introductory material, consisting of first 3 paragraphs.
2. The major subjects, with the number who are graduating in each without the names
3. Names of local graduates only.)

LUBBOCK, Texas, May---. With 302 candidates for degrees in 1933, Texas Technological College will send out the largest graduating class in its history. Of these degrees, 272 are bachelor's and 30 are master's. There are 179 who expect to get their degrees at the commencement exercises June 5, and 123 who expect to graduate in August.

The 1932 class numbered 269 and the 1931 class 276. Tech graduates will number 1,349, including the present class.

The present graduating class includes ¹²¹~~119~~ women and ¹⁸¹~~171~~ men. Average age of the women is 24.16 years and of the men is 23.28 years. The youngest graduate is Miss Aleen Brown of Ackerly, who has just passed her eighteenth birthday, though there are several others who are not 19 years old.

Major Work of Graduates

The number of graduates in the 1933 class according to major work is as follows:

Agricultural economics (3) - E. G. Cauble, Jr. of Stiles, Fred DeLashaw of Ivanhoe, Robert Henry Gooch of Lubbock.

Agronomy (4) - G. L. Beene of Roby, Tom Lee Easley of Seymour, Chester Hufstedler of Springtown, James Walter Potts of Lubbock.

Animal husbandry (7) - M. C. Brandon of Stephenville, Buford Browning of Fluvanna, Glenn T. Hackney of Pickton, Lanoy Nelson Hazel of Spur, John Templeton Kennon of Godley, Edgar Kuebel of Spring Branch, John Shepherd of Lubbock.

(MORE)

Architectural engineering (2) - Albert Carlton McAdams of Gordonville, Wyatt R. Underwood, Jr. of Bartlett.

Biology (1) - Roger S. Knapp of Lubbock.

Botany (2) - Ruth Winton Reed of Lubbock, Fleda Tunnell of Duffan.

Business administration (20) - Dick Slaton Carter of Plainview, Seth Barton Cox of Stamford, Aud Felton Darr of Melrose, N. M., Raymond E. Dunn of Slaton, Milo Manning Feierabend of Amarillo, William Russell Fickas, Jr. of Lubbock, James Harvey Fryar of Midland, Lois Elizabeth Hall of Quitaque, Harry C. Hazel of Spur, Cecil Glenn Kersey of Amarillo, Ebbie Lee of Lamesa, Edward Minor of Lubbock, Clarence Maurice Reed of Corsicana, Marvin Clarence Renfro of Kirven, Jackie Lucille of Plainview, Joe Fulton Taylor of Amarillo, Clifford Dayle Vannoy of Lubbock, Lula Terrie Watson of Lubbock, Henry Chester Williams of Clarendon, Thomas Hugh Williams of Comanche.

Chemistry (14) - Catherine Clay Cox of Snyder, Charles Lewis Cromwell of Stephenville, Cecil Hughes Gilliam of Haskell, Lynn Gray Gordon of Lubbock, James Renfro Henley of Brownwood, Douglas Donald Henson of Sudan, Fred John Hinger of Endee, N. M., Harvey K. Jackson of Roaring Springs, Philip Marion James of Lubbock, Alfred J. Jensen of Clifton, John R. Mast of Lubbock, Harrison Munroe of Abilene, Frederick F. Seely of Englewood, Colo., Thomas Henry Stewart, Jr. of Lubbock.

Civil engineering (7) - Herbert Eugene DeShazo of Lubbock, Ordess Eldon Forbess of Lubbock, James Fenton Harding of Dallas, Arch L. King of Lubbock, James Duane Orr of Hereford, Travis J. Parker of Sudan, John Phillip Ruhmann of Ballenger.

Clothing and textiles (6) - Girdy Pearl Beard of Rule, Novis Lewis of Lubbock, Melba Tatom Maxey of Lubbock, Christova Sawyer of Brownfield, Margaret Elizabeth Underwood of Andrews, Leona H. Wharton of Lubbock.

Dairy manufacturing (8) - Roe Bavousett of Snyder, Horace Cullen Dean of Dawson, Gerald G. Gordon of Lubbock, Robert Phillip Huser of Granger, Ben Hill Jenkins of Gail, Milton L. Kirksey of Lorenzo, James Bryan Stine of Amarillo, Curtis Boyd Williams of Lubbock.

Economics ⁴⁵ Cecil Alonzo Bickley of Lubbock, John Hugh Beauchamp of Greenville, William Bacon Caldwell of Lubbock, Sarah Evelyn Carson of Stamford, Allie Rae Collins of Claude, Glenn Dobkins of Roaring Springs, Campbell Hill Elkins of Lubbock, Clyde Wolfe James of Lubbock, Ernest Nelson of Lubbock, Leland D. Payne of Eddy, Warren Powers of Lubbock, Virgil Rowland of Anton, Allen Bryan Seale of Eastland, Mary Elizabeth Warren of Cleburne, Neva Neal Wilkins of Lubbock.

Education (46) - Virginia Thomas Bacon of Lubbock, Mary Louise Baskin of Lubbock, Juanita Helene Beard of Lubbock, Henry Cleveland Bowlin of Lubbock, Leslye Van Burgess of Lubbock, Opal Gladys Butler of Lubbock, Hubert Butts of Quanah, Barton F. Claunch of Hayden, N. M.,

(MORE)

Logan Oliver Cummings of Aberdeen, Eva Mamie Deering of Roswell, N. M., Mrs. C. L. Donaldson of Lubbock, Josephine Penn Douglas of Lubbock, Mrs. Avon B. English of Lubbock, Mary Alice Floore of Fort Worth, Verna Voncile Gilkerson of Lubbock, Mary Evelyn Gordon of Albany, Claud Lee Hale of Lubbock, Jewel Naoma Hammock of Sudan, Enos W. Harper of Lubbock, Beula May Hatton of McKinney, Mary Maurine Henderson of Lubbock, Richard W. Hooten of Point, Ola Irene Hughes of Weatherford, Eava May Murphree James of Idalou, Dessie Mae Johnson of Lorenzo, Sally Elizabeth Johnson of Mart, Vivian Nadine Keaster of Lubbock, Glenna Louise Keller of Lubbock, Ernestine Kimbrough of Athens, Martha Lee Gregg Mathis of Lubbock, William Kary Mathis of Lubbock, Thomas Vern Montgomery of Andrews, Ada Iris Myers of Cleburne, Nora Gladys Neal of Rule, Mrs. Mabel Ailene Newman of Lubbock, Nell Taylor Parmley of Strawn, Alma Earp Parrack of Becton, William Elwood Patty of Lubbock, Juanita Price of Lubbock, Terry C. Redford of Brownfield, Ernestine Elizabeth Reynolds of Lubbock, Rachel Robert of Lubbock, Louise Sneed of Dalhart, Ethel Elizabeth Thurman of Lubbock, Frances Elizabeth Young of Bowie, Nell Elizabeth Young of Bowie.

Electrical engineering (11) - Ralph Thomas Brandenburg of San Antonio, J. Preston Conner of Lubbock, Walter Andrew Cox of Abilene, Kitt Porter Green of Graford, Lawrence P. Magee of Lubbock, Willard M. Nott of Waco, James Hershel Tadlock of Amarillo, Arthur Conrad Waghorne of Lubbock, James Robert Wayland of Plainview, Alpha Milton Wiggins of Lubbock, Charles Lee Willie, Jr. of Tyler.

English (19) - Florence Jones Ashmore of Lubbock, Lois Lataine Butler of Lubbock, Grace Anne Cade of Chandler, Margaret Ruth Dunlop of Lubbock, Hazel Spykes Hanback of Hermleigh, Amelia Hargis of Lubbock, Wellborn R. Hudson of Austin, Jean Shelley Jennings of Lubbock, Mart Woodson Jones of Seagraves, Mary Katherine McGlothlin of Lubbock, Jesse Roland McIlhaney of Lubbock, Ellis McCullough Mills of Lubbock, Nellia Viola Morgan of Spur, Margaret Dell Prim of Snyder, John Stephen Rankin of Kenna, N. M., Mary Frances Senter of Lamesa, Maudie Adeleine Smith of Lubbock, Gaster Randal Spencer of Lubbock, Fredice deCiel Weathers of Big Spring.

Foods and nutrition (4) - Alma DeShazo Bresler of Lubbock, Lesey Lavenia Bullock of Lubbock, Emma Chapman of Lubbock, H. Duncan Simmons of Carlsbad, N. M.

Foreign languages (9) - Mamie Nell Blackstock of Brownfield, Eunice Loraine Cone of Lubbock, Hester Kelsey Cooper of Lubbock, Ione Dodson of Whitney, Edyth LaVerne Garrison of Lubbock, Louise Garrison of Lubbock, Georgia Knight of Lubbock, Edna Nixon Morris of Lubbock, Genelle Wilhite of Lubbock.

General home economics (2) - Velma Copeland of Bowie, Laura Larkune Song of Chung San, Korea.

Geological engineering (2) - Howard F. Hopkins of Lubbock, James Cran Sanders of Big Spring.

(MORE)

Geology (5) - Jack Jefferson Flowers of Big Spring, Malcolm Logan Patterson of Big Spring, Shelby Graham Read of Henderson, Carl Pembroke Rogers of Houston, Arnold G. Schofield of Lubbock.

Government (12) - Eugene Thompson Adair of Lubbock, Ross Ayers of Wheelock, Charles Louis Cobb of Lubbock, Manuel C. DeBusk of Idalou, Alfred Holeman of Lubbock, William Allen Leslie of Eastland, Katherine Frances Lupton of Shallowater, Roger Quarrels Pierce of Lubbock, Anna Juanita Pool of Lubbock, John Doyle Settle of Abernathy, Mary Olive Spring of Friona, Robert Adelin Taylor of Stratford.

History (17) - Victor Cecil Bearden of Lamesa, Dorothy Lee Brigrance of Hart, Leona Margaret Gelin of Lubbock, Julia Margaret Harmon of Idalou, George Truett Hatton of Abilene, Basil Hudson of Westbrook, Lovic H. Liston of Lubbock, Martha Belle Logan of Lubbock, Anna Louise Lupton of Shallowater, Mrs. J. Herman Mitchell of Hope, N. M., Lela Deborah Puryear of Lubbock, Carl Nathaniel Roth of Wilson, Pauline Newton Sumner of Idalou, John Edward Vickers of Lubbock, John C. Williamson of Lubbock, Arthur Clyde Woodburn III of Portales, N. M., Clarence Ervin Woods of Lubbock.

Home economics education (13) - Ella Mae Blanton of Ralls, Helen Ruth Carter of Lubbock, Geraldine Clewell of Waco, Imogene Couch of Gustins, Nancy Carolyn Dixon of Bellevue, Nora Ellen Elliott of Dumas, Ruth Elizabeth Hearrell of Lubbock, Veralee Jones of Tulia, Mable Leslie Maggard of Hale Center, Hazel Willie Price of Lubbock, Delene Reid of Clyde, Effie Smith of Crosbyton, Mary Wilbanks of Spearman.

Horticulture (4) - Russell Bean of Lubbock, Wilson B. Holden of Clarksburg, W. Va., W. F. Hughes of Chowning, Painter Colquitt Wylie of Valley View.

Journalism (3) - William Boyd Bush of Greenville, Opal Louise Creighton of Abilene, Mary Elizabeth Sheely of Lubbock.

Mathematics (7) - Eugene Holder Brock of Houston, J. Charles Featherston of Petersburg, Murray Linden Holcomb of El Campo, Carl Elmer McClain of Lubbock, Maurine Patten of Dallas, Rayman Wilburn Wheeler of Lubbock, Roberta Willingham of Lubbock.

Mechanical engineering (11) - Miles Roger Clapp of Childress, Robert Edwin Drake of Kress, C. Eugene Edwards of Fort Worth, John Samuel Hopper of Wellborn, John N. Jacobsen, Jr. of Hereford, Blair LaVergne Manire of Slaton, J. Alton Miller of Hereford, James Rolin Renfro of Lubbock, George Elton Smith of Longworth, William Tillman Stitt of Fort Worth, Donald A. Weilenman of Weatherford.

Physics (3) - Ben Lawrence of Silverton, Margaret Carroll Robertson of Lubbock, Alexander Taylor of Childress.

Public school music (3) - Augusta Maye Foster of Lockney, Carolyn Poe of Harrisonville, Mo., Marie Emeline Price of Lubbock.

Speech (5) - Roscoe Irvin Bayless of Lubbock, Hazel Aleen Brown of Ackerly, Gertrude Harriett Hofmann of Carrollton, Dorothy Glyn Rushing of Lubbock.

(MORE)

Prof Maurice Lipp & Perrin

Tech graduating class - page five

Textile engineering (3) - William Basil Hill of Lamesa, Don Maddox of Menard, Lloyd Scarborough Reeves of Dallas.

Zoology (4) - John Lake Dean, Jr. of Crockett, Joseph Leslie Hall of Stanton, John Jackson Hopper of Lubbock, Kenneth Bell Rollo of Lubbock.

Candidates for the master's degree are: Chemistry (1) Cecil Hardee Connell of Lubbock.

Economics (3) - Roy Canon Clements of Lubbock, Mrs. Lucille Edwards of Dawson, Joseph Martin Jackson of Houston.

Education (9) - G. S. Dowell of Dickens, Bruce W. Edwards of Dawson, George A. Heath of Friona, Stilwell M. Melton of Cuero, Myrtle Sansom of Lubbock, M. Frank Stephens of Shallowater, William Ezra Street of Lubbock, J. Irvin Warren of Amherst, Sylva Wilson of Lubbock.

English (4) - Alma Alland Caldwell of Lovington, N. M., John A. Copeland of Brownwood, Glenys Honey of Lubbock, D'Aun Sammons Hunter of Lubbock.

Geology (1) - Elmer J. Moore of Lubbock.

Government (3) - William Lloyd Croslin of Colorado, Doris Ladd Johnson of Eastland, Gordon Treadaway of Lamesa.

History (3) - James Tillman Carter of Happy, James C. Chamberlain of Rochester, Alberto Melendez of Guatemala, ~~S~~ A.
C.

Mathematics (3) - Ena Armstrong of Thrifty, Artle J. Lynn of Oklaunion, Robert Parker of Lucille, N. M.

Philosophy (1) - Terence Vedder Crounse of Perrin.

Physics (2) - Allen Henry Burkhalter of Lubbock, Kimsey Taylor Miller of Lubbock.

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LUBBOCK, Texas, April---. Cooperating with National Cotton Week, May 14 to 20, a cotton carnival will be held at Texas Technological College under the auspices of Phi Psi, national honorary textile fraternity. The object of the carnival will be to demonstrate the value of cotton and to encourage its use in wearing apparel.

Pretty girls, representing various campus organizations, civic and commercial clubs in Lubbock, and business firms, appareled in cotton costumes, will compete for selection as queen of the carnival. Types of garments may be sport, evening, informal afternoon, or house dresses, the only requirement being that they be made entirely of cotton.

LUBBOCK, Texas, April---. M. E. Ogdon, associate professor of government in Texas Technological College, has been awarded a fellowship in international law by the Carnegie Endowment. It carries a stipend of \$1500.

He may do the work at any large American university and is allowed the freedom of selecting his own subjects. All of his time, however, must be devoted to the general subject of international law.

LUBBOCK, Texas, April---. Dean J. M. Gordon of Texas Technological College is scheduled to deliver the commencement address to the senior class of Bellevue High school May 26. He will also deliver a Memorial Day address at Slaton May 28 under the auspices of the American Legion.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Thirteen candidates have entered the political race for 1933-34 student offices at Texas Technological College which will be held May 4 and 5, according to announcement in The Toreador, college weekly newspaper.

Entrants to date are: Rob O'Hair of Lubbock, for president of the student association; Bob Tracy of Houston, Calvin Hazlewood of Lubbock, and Lloyd Glover of Raymondville, for editor of The Toreador; Joe Harter of Marlin, Gus White of Borger, and Malouf Abraham of Canadian, for business manager of The Toreador; Bruce Zorns of Meadow, Byron Terrell of Lubbock, and Max Waghorne of Lubbock, for editor of La Ventana; and Marvin Messersmith of Fort Worth, George Long of Big Spring, and Walter Labaj of Granger, for business manager of La Ventana.

LUBBOCK, Texas, April---. Dr. R. A. Studhalter, head of the biology department at Texas Technological College, and Dr. L. T. Patton, head of the geology department, will lecture at the annual meeting of the Southwestern division of the American Association for the Advancement of Science in Las Cruces, New Mexico, May 1 to 4.

Dr. Patton will discuss geology field courses in colleges and universities, and Dr. Studhalter will talk on "One Aspect of the Ruffle Plant."

Representatives from Colorado, Arizona, New Mexico, and Texas will attend the meeting at Las Cruces, to which the New Mexico Agricultural college will be host.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Dr. Harry L. Kent, president of New Mexico A. & M, Las Cruces, will deliver the seventh annual commencement address to the graduating class at Texas Technological College June 7. The baccalaureate sermon will be delivered by Dr. R. Thomsen, pastor of the Central Presbyterian church of Amarillo.

President Bradford Knapp and Mrs. Knapp will receive the graduates and members of the faculty at the president's home Friday evening preceding commencement. Formal academic processions will feature the exercises on Sunday and on commencement day.

LUBBOCK, Texas, April---. More than five thousand visitors registered at the annual engineering show just held at Texas Technological College, the largest attendance in Tech history. Hundreds of towns and communities in West Texas and New Mexico were represented.

Exhibits included a model of the Hoover Dam, a mural painting of "Eve in the Garden," a collection of reproductions from the Carnegie corporation, the Tesla coil which developed over a million volts of electricity, dynamos, gas engines, an ice manufacturing plant, a two-cylinder steam engine with 5,800 revolutions per minute that would develop over one-horse power, and many other products of engineering students.

In the textile engineering department visitors saw how wool and cotton were taken in the raw state and carried through each process until the finished cloth product evolved. Washing, dyeing, and spinning processes were demonstrated.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Prices paid to Texas farmers for butter decline on the average of two cents per pound from April to the usual low month in June or July, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College.

The lowest price for the year has been in the months of June or July 21 times in the past 24 years. The price has advanced from March or April to midsummer only three times in the 24 years.

The high price of the year has been in December or January in 23 of the 24 years. The highest price paid on the fifteenth of the month to Texas farmers for the 24 years was 52 cents in December, 1919.

The low for the period was 17 cents in June and July of 1932 and January and February of 1933.

The average change during the year from low to high, considering only the prices paid on the fifteenth of each month, has been seven cents per pound.

Because of the low prices of butter farmers are not feeding so well, hence milk production is declining somewhat. Milk production thus far for 1933 is about five per cent less than in 1932.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Speaking engagements of President Bradford Knapp of Texas Technological College are announced as follows:

April 22--Fourteenth District, Texas Congress of Parents and Teachers, Brownfield. Subject: "Safeguarding the Schools."

April 23--Address, First Baptist church, Lubbock.

April 24--Address, Meeting of senior class, Texas Technological College.

April 25--Meeting of the American Association of University Women, engineering auditorium, Texas Technological College. Subject: "Present Status of Technical Education in the United States."

April 28--Association of Texas Colleges, Dallas. Subject: "The Place of Technological Training in Higher Education Today."

May 2-- Address, District Conference Rotary International, San Angelo.

May 6-- Address, District Educational meeting, Lubbock High school.

May 11--Commencement address, Shallowater High school.

May 13--West Texas Chamber of Commerce, General Session Fifteenth Annual convention, Big Spring. Subject: "West Texas Tomorrow."

May 17--Commencement address, Lubbock High school.

May 19--Commencement address, Tahoka High school.

May 22--Address, State Convention Lions club, Lubbock.

May 24--Commencement address, Seminole High school.

May 25--Commencement address, Nurses Training school, Lubbock Sanitarium.

May 28--Senior class services, Idalou High school.

May 30--Commencement address, Spur High school.

June 1--Commencement address, West Texas State Teachers College, Canyon.

June 9--Commencement address, Abernathy High school.

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From Texas Technological College Free News Service - Cecil Horne

LUBBOCK, Texas, April---. The highest monthly price for hogs for the year paid to Texas farmers, as of the fifteenth of the month, has occurred in the four months, July to October, 13 times in the past 23 years, according to Dr. J. O. Ellsworth, head of the department of agricultural economics at Texas Technological College. The high month has been July twice, August four times, September four times, and October three times.

The low monthly price has been in December and January 16 times in the past 23 years, with December seven and January nine. June has been the low month three times; in June, 1932, the lowest price of any month in the 23 years was \$2.60 per hundredweight. The highest price for the 23 years was in August, 1919, with \$18.60 per hundredweight.

Texas prices are influenced by both general demand over the nation and by the supply of hogs in the main producing areas. Texas does not produce as much pork and hog products as are consumed within the state, hence supplies are at times shipped in from the corn belt.

Unless the new administration succeeds in artificially stimulating demand for pork by decreasing unemployment or artificially raise the price through price control, the chances favor hog prices remaining low through the early summer months.

(By Ed McKeever)

LUBBOCK, Texas, April---. Texas Tech's coaching school for the coming summer may eclipse in attendance and importance the largely attended school held last summer, according to Head Coach Pete Cawthon. The dates are July 31 to August 12.

The 1932 school had an enrolment of 473, and boasted such nationally known athletic coaches and authorities as "Pop" Warner, Hunk Anderson, Frank Carideo, Clipper Smith, Clyde Littlefield, "Phog" Allen, and Claude Thornhill. Yet for balance, variety, and meeting the individual needs of the coaches, the 1933 coaching school promises to surpass that of 1932.

For this year's school, Harry Kipke, All-American halfback of the 1922 Michigan Wolverines, will stress the short punt system of offensive and 6-3-2 defense. As head coach of the Wolverines Kipke has won 29 out of his last 30 games in Big Ten competition; and under his tutelage Michigan was awarded the Dickinson National championship of 1932.

Andy Kerr, dynamic mentor of Colgate university, will demonstrate the triple wing back formation, a variation of the double wing back system with a man in motion. Kerr has the distinction of winning over 80 per cent of his college games since 1917.

Bernie Bierman, formerly of Tulane university, and present head coach of Minnesota, will put on the single wing back technique of play, stressing speed and deception rather than power. While coaching the Green Wave of Tulane, Bierman's team won 31 consecutive Southern Conference victories. Bierman's defense, the famous six-man line, and 6-2-2-1 defense, will also be illustrated.

(MORE)

Noble Kizer, head coach of Purdue university, and star guard of the 1924 Notre Dame team, will demonstrate the ever popular Notre Dame style of play. The shifting, deception, strong and weak side plays, and line play, will constitute the basis of Kizer's teachings.

Ray Morrison, head coach of Southern Methodist university and a member of the National Rules committee, will lecture on the new rules.

Craig Ruby, basketball mentor of Illinois University since 1923, and one of the greatest players ever produced in the Missouri Valley, will bring the Ruby system to the Southwest for the first time. Ruby will give the plays, the fundamentals, and technique of his system.

Major John L. Griffith, commissioner of Western Conference athletics will discuss administration and organization of athletics. Major Griffith is one of the most noted authorities in national athletics today, having served as director of athletics at Yankton college, Morningside college, Drake, and the University of Illinois, besides receiving the title of major for his work in the army.

Clyde Littlefield is without peer as track coach in the Southwest. His University of Texas teams have won national recognition.

Ed Gallagher of Oklahoma A. and M. is rated by many experts as the premier wrestling coach of the United States. Coach Gallagher will teach both wrestling and physical education.

Besides these headline coaches supplementary teaching and lectures will be given by "Doc" Sprague of Texas A. and M. on the treatment of injuries, Captain C. M. Woodbury of New Mexico Military institute on boxing, Clipper Smith of Santa Clara university, and Rip Miller of the Navy on the Notre Dame style of football.

4/13

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LUBBOCK, Texas, March 31,-- Dr. Bradford Knapp, president of Texas Technological College, has released the following statement regarding enrolment in the institution:

"Recently statements have been made that the University of Texas is the only state institution in the state increasing in enrolment. This statement is not true as far as the Texas Technological College is concerned.

"The total enrolment for the regular session at Texas Technological College from September 1 to date is 2,323. The enrolment for the session 1931-32 was 2,153; for the session 1930-31, 2,319; 1929-30, 2,353; 1928-29, 2,088; 1927-28, 1,682; 1926-27, 1,535; 1925-26, 1,043.

"The slump in enrolment at Texas Tech for the year 1931-32 was 200 below the highest enrolment in any year, namely, 1929-30. The enrolment for the present year, 1932-33, lacks only 30 students of being equal to the highest enrolment in the history of the institution. The increase in enrolment of 1932-33 over 1931-32 is 170 students, which is practically 8%. Thirty-four percent of the student body are taking courses in agriculture, engineering and home economics. On the basis of full-time students, the percentage is higher because students in technical divisions take the full course of study more uniformly than students in non-technical courses.

" The enrolment in technical courses consists of 206 in agriculture, 375 in engineering, 208 in home economics, to which should be added 294 taking courses in business administration, 125 in education, and 57 in chemistry. The balance are majoring in general departments of liberal arts.

"The average annual attendance at each term has been 1,900 students."

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, March---. Eight young women students at Texas Technological College have been named by a New York artist as the most beautiful from a large number of photographs submitted. Pictures of these young ladies will comprise the "Las Bonitas" section of La Ventana, college yearbook.

Beauties selected are: Pauline Cawthon, Clovis, New Mexico; Geraldine Durham, Hamilton; Helen Barstow, Lubbock; Wanda Butler, Lubbock; Lois Watson, Lubbock; Eva Ruth Brady, Decatur; Mary Earle Lofland, Vernon; Melba Watson, Lubbock.

LUBBOCK, Texas, March---. Coach Pete Cawthon announces the football schedule for the Texas Tech Matadors complete with the exception of one date, October 7. Scheduled games follow:

Sept. 30--Southern Methodist University at Lubbock

Oct. 7--Open

Oct. 14--University of Arizona at Tucson

Oct. 20--Louisiana Polytechnic at Lubbock

Oct. 28--School of Mines at El Paso

Nov. 4--Haskell Institute at Lubbock

Nov. 11--Simmons University at Lubbock

Thanksgiving--Kansas Aggies at Lubbock

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, March---. First place in the Texas Intercollegiate Play tournament, held at Baylor College for Women, Belton, March 24 and 25, went to entrants from Texas Technological College for their presentation of "The End of the Dance", a one-act play by Hudson Strode. Representatives from Baylor university, Waco, and Trinity university, Waxahachie, also competed. The contest will be held at Lubbock next year.

John Louis Cook of Henrietta, Frances Kay Marcia of Fort Worth, Lloyd Marr of Lamesa, and Marjorie St. John of Roswell, New Mexico, made up the cast. Marr was awarded high honors for individual acting. Miss Ruth Pirtle, head of the speech department, directed the play.

LUBBOCK, Texas, March---. The interscholastic league meet for this district including eighteen counties will be held at Texas Technological College April 14 and 15. Approximately a thousand students attend the meeting which has been held at the college annually since its opening in 1925.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, March---. The annual meeting of the Southwestern Journalism congress scheduled to meet with Texas Technological College in May has been postponed for this year, according to announcement by Cecil Horne of Texas Technological College, president of the congress. This action was deemed advisable by the executive committee on account of financial conditions. It is expected that the regular meeting will be held in the spring of 1934.

Member schools comprising the Southwestern Journalism congress are: Baylor College for Women, Baylor University, College of Industrial Arts, Louisiana State University, Southern Methodist University, Texas A. & M. College, Texas Christian University, Texas Technological College, The Tulane University of Louisiana, Trinity University, The University of Texas, and University of Oklahoma.

LUBBOCK, Texas, March---. A field trip in agricultural economics will be made this summer by students of Texas Technological College under the direction of Dr. J. O. Ellsworth, head of the department. All of the principal agricultural states in the Mississippi valley will be visited, including the livestock and produce markets in Chicago, St. Louis, Kansas City, and New Orleans. A week will be spent at the Chicago exposition.

The trip will be made in a chartered bus and will cover 5,000 miles. It will be open to agriculture students who have done as much as two years college work and will carry nine hours credit.

3/23/33
100 copies sent

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, March ---. Dr. Bradford Knapp, president of Texas Technological College, has been elected president of the Lubbock Rotary club.

LUBBOCK, Texas, March---. Rare books, reproductions of famous paintings, and textiles valued at \$5,000 have been donated by the Carnegie corporation to the architectural department of Texas Technological College. About 300 volumes are in the collection of books.

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The present graduating class includes ¹²¹~~119~~ women and ¹⁸¹~~171~~ men. Average age of the women is 24.16 years and of the men is 23.28 years. The youngest graduate is Miss Aleen Brown of Ackerly, who has just passed her eighteenth birthday, though there are several others who are not 19 years old.

Major Work of Graduates

The number of graduates in the 1933 class according to major work is as follows:

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Agronomy (4) - G. L. Beene of Roby, Tom Lee Easley of Seymour, Chester Hufstedler of Springtown, James Walter Potts of Lubbock.

Animal husbandry (7) - M. C. Brandon of Stephenville, Buford Browning of Fluvanna, Glenn T. Hackney of Pickton, Laney Nelson Hazel of Spur, John Templeton Kennon of Godley, Edgar Kuebel of Spring Branch, John Shepherd of Lubbock.

(MORE)

Architectural engineering (2) - Albert Carlton McAdams of Gordonville, Wyatt R. Underwood, Jr. of Bartlett.

Biology (1) - Roger S. Knapp of Lubbock.

Botany (2) - Ruth Winton Reed of Lubbock, Fleda Tunnell of Duffan.

Business administration (20) - Dick Slaton Carter of Plainview, Seth Barton Cox of Stamford, Aud Felton Darr of Melrose, N. M., Raymond E. Dunn of Slaton, Milo Manning Feierabend of Amarillo, William Russell Fickas, Jr. of Lubbock, James Harvey Fryar of Midland, Lois Elizabeth Hall of Quitaque, Harry C. Hazel of Spur, Cecil Glenn Kersey of Amarillo, Ebbie Lee of Lamesa, Edward Minor of Lubbock, Clarence Maurice Reed of Corsicana, Marvin Clarence Renfro of Kirven, Jackie Lucille of Plainview, Joe Fulton Taylor of Amarillo, Clifford Dayle Vannoy of Lubbock, Lula Terrie Watson of Lubbock, Henry Chester Williams of Clarendon, Thomas Hugh Williams of Comanche.

Chemistry (14) - Catherine Clay Cox of Snyder, Charles Lewis Cromwell of Stephenville, Cecil Hughes Gilliam of Haskell, Lynn Gray Gordon of Lubbock, James Renfro Henley of Brownwood, Douglas Donald Henson of Sudan, Fred John Hinger of Endee, N. M., Harvey K. Jackson of Roaring Springs, Philip Marion James of Lubbock, Alfred J. Jenson of Clifton, John R. Mast of Lubbock, Harrison Munroe of Abilene, Frederick F. Seely of Englewood, Colo., Thomas Henry Stewart, Jr. of Lubbock.

Civil engineering (7) - Herbert Eugene DeShazo of Lubbock, Ordess Eldon Forbess of Lubbock, James Fenton Harding of Dallas, Arch L. King of Lubbock, James Duane Orr of Hereford, Travis J. Parker of Sudan, John Phillip Ruhmann of Ballenger.

Clothing and textiles (6) - Girdy Pearl Beard of Rule, Novis Lewis of Lubbock, Melba Tatom Maxey of Lubbock, Christova Sawyer of Brownfield, Margaret Elizabeth Underwood of Andrews, Leona H. Wharton of Lubbock.

Dairy manufacturing (8) - Roe Bavousett of Snyder, Horace Cullen Dean of Dawson, Gerald G. Gordon of Lubbock, Robert Phillip Huser of Granger, Ben Hill Jenkins of Gail, Milton L. Kirksey of Lorenzo, James Bryan Stine of Amarillo, Curtis Boyd Williams of Lubbock.

Economics ¹⁵ Cecil Alonzo Bickley of Lubbock, John Hugh Beauchamp of Greenville, William Bacon Caldwell of Lubbock, Sarah Evelyn Carson of Stamford, Allie Rae Collins of Claude, Glenn Dobkins of Roaring Springs, Campbell Hill Elkins of Lubbock, Clyde Wolfe James of Lubbock, Ernest Nelson of Lubbock, Leland D. Payne of Eddy, Warren Powers of Lubbock, Virgil Rowland of Anton, Allen Bryan Seale of Eastland, Mary Elizabeth Warren of Cleburne, Neva Neal Wilkins of Lubbock.

Education (46) - Virginia Thomas Bacon of Lubbock, Mary Louise Baskin of Lubbock, Juanita Helene Beard of Lubbock, Henry Cleveland Bowlin of Lubbock, Leslye Van Burgess of Lubbock, Opal Gladys Butler of Lubbock, Hubert Butts of Quanah, Barton F. Claunch of Hayden, N. M.,

(MORE)

Logan Oliver Cummings of Aberdeen, Eva Mamie Deering of Roswell, N. M., Mrs. C. L. Donaldson of Lubbock, Josephine Penn Douglas of Lubbock, Mrs. Avon B. English of Lubbock, Mary Alice Floore of Fort Worth, Verna Voncile Gilkerson of Lubbock, Mary Evelyn Gordon of Albany, Claud Lee Hale of Lubbock, Jewel Naoma Hammock of Sudan, Enos W. Harper of Lubbock, Beula May Hatton of McKinney, Mary Maurine Henderson of Lubbock, Richard W. Hooten of Point, Ola Irene Hughes of Weatherford, Eava May Murphree James of Idalou, Dessie Mae Johnson of Lorenzo, Sally Elizabeth Johnson of Mart, Vivian Nadine Keaster of Lubbock, Glenna Louise Keller of Lubbock, Ernestine Kimbrough of Athens, Martha Lee Gregg Mathis of Lubbock, William Kary Mathis of Lubbock, Thomas Vern Montgomery of Andrews, Ada Iris Myers of Cleburne, Nora Gladys Neal of Rule, Mrs. Mabel Ailene Newman of Lubbock, Nell Taylor Parmley of Strawn, Alma Earp Parrack of Becton, William Elwood Patty of Lubbock, Juanita Price of Lubbock, Terry C. Redford of Brownfield, Ernestine Elizabeth Reynolds of Lubbock, Rachel Robert of Lubbock, Louise Sneed of Dalhart, Ethel Elizabeth Thurman of Lubbock, Frances Elizabeth Young of Bowie, Nell Elizabeth Young of Bowie.

Electrical engineering (11) - Ralph Thomas Brandenburg of San Antonio, J. Preston Conner of Lubbock, Walter Andrew Cox of Abilene, Kitt Porter Green of Graford, Lawrence P. Magee of Lubbock, Willard M. Nott of Waco, James Hershel Tadlock of Amarillo, Arthur Conrad Waghorne of Lubbock, James Robert Wayland of Plainview, Alpha Milton Wiggins of Lubbock, Charles Lee Willie, Jr. of Tyler.

English (19) - Florence Jones Ashmore of Lubbock, Lois Lataine Butler of Lubbock, Grace Anne Cade of Chandler, Margaret Ruth Dunlop of Lubbock, Hazel Spykes Hanback of Hermleigh, Amelia Hargis of Lubbock, Wellborn R. Hudson of Austin, Jean Shelley Jennings of Lubbock, Mart Woodson Jones of Seagraves, Mary Katherine McGlothlin of Lubbock, Jesse Roland McIlhaney of Lubbock, Ellis McCullough Mills of Lubbock, Nellia Viola Morgan of Spur, Margaret Dell Prim of Snyder, John Stephen Rankin of Kenna, N. M., Mary Frances Senter of Lamesa, Maudie Adeleine Smith of Lubbock, Gaster Randal Spencer of Lubbock, Fredice deCiel Weathers of Big Spring.

Foods and nutrition (4) - Alma DeShazo Bresler of Lubbock, Lesey Lavenia Bullock of Lubbock, Emma Chapman of Lubbock, H. Duncan Simmons of Carlsbad, N. M.

Foreign languages (9) - Mamie Nell Blackstock of Brownfield, Eunice Loraine Cone of Lubbock, Hester Kelsey Cooper of Lubbock, Ione Dodson of Whitney, Edyth LaVerne Garrison of Lubbock, Louise Garrison of Lubbock, Georgia Knight of Lubbock, Edna Nixon Morris of Lubbock, Genelle Wilhite of Lubbock.

General home economics (2) - Velma Copeland of Bowie, Laura Larkune Song of Chung San, Korea.

Geological engineering (2) - Howard F. Hopkins of Lubbock, James Oran Sanders of Big Spring.

Tech graduating class - page five

Textile engineering (3) - William Basil Hill of Lamesa, Don Maddox of Menard, Lloyd Scarborough Reeves of Dallas.

Zoology (4) - John Lake Dean, Jr. of Crockett, Joseph Leslie Hall of Stanton, John Jackson Hopper of Lubbock, Kenneth Bell Rollo of Lubbock.

Candidates for the master's degree are: Chemistry (1) Cecil Hardee Connell of Lubbock.

Economics (3) - Roy Canon Clements of Lubbock, Mrs. Lucille Edwards of Dawson, Joseph Martin Jackson of Houston.

Education (9) - G. S. Dowell of Dickens, Bruce W. Edwards of Dawson, George A. Heath of Friona, Stilwell M. Melton of Cuero, Myrtle Sansom of Lubbock, M. Frank Stephens of Shallowater, William Ezra Street of Lubbock, J. Irvin Warren of Amherst, Sylva Wilson of Lubbock.

English (4) - Alma Alland Caldwell of Lovington, N. M., John A. Copeland of Brownwood, Glenys Honey of Lubbock, D'Aun Sammons Hunter of Lubbock.

Geology (1) - Elmer J. Moore of Lubbock.

Government (3) - William Lloyd Croslin of Colorado, Doris Ladd Johnson of Eastland, Gordon Treadaway of Lamesa.

History (3) - James Tillman Carter of Happy, James C. Chamberlain of Rochester, Alberto Melendez of Guatemala, ~~S~~ A.

Mathematics (3) - Ena Armstrong of Thrifty, Artle J. Lynn of Oklaunion, Robert Parker of Lucille, N. M.

Philosophy (1) - Terence Vedder Crounse of Perrin.

Physics (2) - Allen Henry Burkhalter of Lubbock, Kimsey Taylor Miller of Lubbock.

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Geology (5) - Jack Jefferson Flowers of Big Spring, Malcolm Logan Patterson of Big Spring, Shelby Graham Read of Henderson, Carl Pembroke Rogers of Houston, Arnold G. Schofield of Lubbock.

Government (12) - Eugene Thompson Adair of Lubbock, Ross Ayers of Wheelock, Charles Louis Cobb of Lubbock, Manuel C. DeBusk of Idalou, Alfred Holeman of Lubbock, William Allen Leslie of Eastland, Katherine Frances Lupton of Shallowater, Roger Quarrels Pierce of Lubbock, Anna Juanita Pool of Lubbock, John Doyle Settle of Abernathy, Mary Olive Spring of Friona, Robert Adelin Taylor of Stratford.

History (17) - Victor Cecil Bearden of Lamesa, Dorothy Lee Brigrance of Hart, Leona Margaret Gelin of Lubbock, Julia Margaret Harmon of Idalou, George Truett Hatton of Abilene, Basil Hudson of Westbrook, Lovic H. Liston of Lubbock, Martha Belle Logan of Lubbock, Anna Louise Lupton of Shallowater, Mrs. J. Herman Mitchell of Hope, N. M., Lela Deborah Puryear of Lubbock, Carl Nathaniel Roth of Wilson, Pauline Newton Sumner of Idalou, John Edward Vickers of Lubbock, John C. Williamson of Lubbock, Arthur Clyde Woodburn III of Portales, N. M., Clarence Ervin Woods of Lubbock.

Home economics education (13) - Ella Mae Blanton of Ralls, Helen Ruth Carter of Lubbock, Geraldine Clewell of Waco, Imogene Couch of Gustine, Nancy Carolyn Dixon of Bellevue, Nora Ellen Elliott of Dumas, Ruth Elizabeth Hearrell of Lubbock, Veralee Jones of Tulia, Mable Leslie Maggard of Hale Center, Hazel Willie Price of Lubbock, Delene Reid of Clyde, Effie Smith of Crosbyton, Mary Wilbanks of Spearman.

Horticulture (4) - Russell Bean of Lubbock, Wilson B. Holden of Clarksburg, W. Va., W. F. Hughes of Chowning, Painter Colquitt Wylie of Valley View.

Journalism (3) - William Boyd Bush of Greenville, Opal Louise Creighton of Abilene, Mary Elizabeth Sheely of Lubbock.

Mathematics (7) - Eugene Holder Brock of Houston, J. Charles Featherston of Petersburg, Murray Linden Holcomb of El Campo, Carl Elmer McClain of Lubbock, Maurine Patten of Dallas, Rayman Wilburn Wheeler of Lubbock, Roberta Willingham of Lubbock.

Mechanical engineering (11) - Miles Roger Clapp of Childress, Robert Edwin Drake of Kress, C. Eugene Edwards of Fort Worth, John Samuel Hopper of Wellborn, John N. Jacobsen, Jr. of Hereford, Blair LaVergne Manire of Slaton, J. Alton Miller of Hereford, James Rolin Renfro of Lubbock, George Elton Smith of Longworth, William Tillman Stitt of Fort Worth, Donald A. Weilenman of Weatherford.

Physics (3) - Ben Lawrence of Silverton, Margaret Carroll Robertson of Lubbock, Alexander Taylor of Childress.

Public school music (3) - Augusta Maye Foster of Lockney, Carolyn Poe of Harrisonville, Mo., Marie Emeline Price of Lubbock.

Speech (5) - Roscoe Irvin Bayless of Lubbock, Hazel Aleen Brown of Ackerly, Gertrude Harriett Hofmann of Carrollton, Dorothy Glyn Rushing of Lubbock, *Rob Maurice Zippo of Perin*
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Agricultural economics (3) - E. G. Cauble, Jr. of Stiles, Fred DeLashaw of Ivanhoe, Robert Henry Gooch of Lubbock.

Agronomy (4) - G. L. Beene of Roby, Tom Lee Easley of Seymour, Chester Hufstedler of Springtown, James Walter Potts of Lubbock.

Animal husbandry (7) - M. C. Brandon of Stephenville, Buford Browning of Fluvanna, Glenn T. Hackney of Pickton, Lanoy Nelson Hazel of Spur, John Templeton Kennon of Godley, Edgar Kuebel of Spring Branch, John Shepherd of Lubbock.

(MORE)

Architectural engineering (2) - Albert Carlton McAdams of Gordonville, Wyatt R. Underwood, Jr. of Bartlett.

Biology (1) - Roger S. Knapp of Lubbock.

Botany (2) - Ruth Winton Reed of Lubbock, Fleda Tunnell of Duffan.

Business administration (20) - Dick Slaton Carter of Plainview, Seth Barton Cox of Stamford, Aud Felton Darr of Melrose, N. M., Raymond E. Dunn of Slaton, Milo Manning Feierabend of Amarillo, William Russell Fickas, Jr. of Lubbock, James Harvey Fryar of Midland, Lois Elizabeth Hall of Quitaque, Harry C. Hazel of Spur, Cecil Glenn Kersey of Amarillo, Ebbie Lee of Lamesa, Edward Minor of Lubbock, Clarence Maurice Reed of Corsicana, Marvin Clarence Renfro of Kirven, Jackie Lucille of Plainview, Joe Fulton Taylor of Amarillo, Clifford Dayle Vannoy of Lubbock, Lula Terrie Watson of Lubbock, Henry Chester Williams of Clarendon, Thomas Hugh Williams of Comanche.

Chemistry (14) - Catherine Clay Cox of Snyder, Charles Lewis Cromwell of Stephenville, Cecil Hughes Gilliam of Haskell, Lynn Gray Gordon of Lubbock, James Renfro Henley of Brownwood, Douglas Donald Henson of Sudan, Fred John Hinger of Endee, N. M., Harvey K. Jackson of Roaring Springs, Philip Marion James of Lubbock, Alfred J. Jenson of Clifton, John R. Mast of Lubbock, Harrison Munroe of Abilene, Frederick F. Seely of Englewood, Colo., Thomas Henry Stewart, Jr. of Lubbock.

Civil engineering (7) - Herbert Eugene DeShazo of Lubbock, Ordess Eldon Forbess of Lubbock, James Fenton Harding of Dallas, Arch L. King of Lubbock, James Duane Orr of Hereford, Travis J. Parker of Sudan, John Phillip Ruhmann of Ballenger.

Clothing and textiles (6) - Girdy Pearl Beard of Rule, Novis Lewis of Lubbock, Melba Tatom Maxey of Lubbock, Christova Sawyer of Brownfield, Margaret Elizabeth Underwood of Andrews, Leona H. Wharton of Lubbock.

Dairy manufacturing (8) - Roe Bavousett of Snyder, Horace Cullen Dean of Dawson, Gerald G. Gordon of Lubbock, Robert Phillip Huser of Granger, Ben Hill Jenkins of Gail, Milton L. Kirksey of Lorenzo, James Bryan Stine of Amarillo, Curtis Boyd Williams of Lubbock.

Economics ¹⁵ Cecil Alonzo Bickley of Lubbock, John Hugh Beauchamp of Greenville, William Bacon Caldwell of Lubbock, Sarah Evelyn Carson of Stamford, Allie Rae Collins of Claude, Glenn Dobkins of Roaring Springs, Campbell Hill Elkins of Lubbock, Clyde Wolfe James of Lubbock, Ernest Nelson of Lubbock, Leland D. Payne of Eddy, Warren Powers of Lubbock, Virgil Rowland of Anton, Allen Bryan Seale of Eastland, Mary Elizabeth Warren of Cleburne, Neva Neal Wilkins of Lubbock.

Education (46) - Virginia Thomas Bacon of Lubbock, Mary Louise Baskin of Lubbock, Juanita Helene Beard of Lubbock, Henry Cleveland Bowlin of Lubbock, Leslye Van Burgess of Lubbock, Opal Gladys Butler of Lubbock, Hubert Butts of Quanah, Barton F. Claunch of Hayden, N. M.,

(MORE)

Logan Oliver Cummings of Aberdeen, Eva Mamie Deering of Roswell, N. M., Mrs. C. L. Donaldson of Lubbock, Josephine Penn Douglas of Lubbock, Mrs. Avon B. English of Lubbock, Mary Alice Floore of Fort Worth, Verna Voncile Gilkerson of Lubbock, Mary Evelyn Gordon of Albany, Claud Lee Hale of Lubbock, Jewel Naoma Hammock of Sudan, Enos W. Harper of Lubbock, Beula May Hatton of McKinney, Mary Maurine Henderson of Lubbock, Richard W. Hooten of Point, Ola Irene Hughes of Weatherford, Eava May Murphree James of Idalou, Dessie Mae Johnson of Lorenzo, Sally Elizabeth Johnson of Mart, Vivian Nadine Keaster of Lubbock, Glenna Louise Keller of Lubbock, Ernestine Kimbrough of Athens, Martha Lee Gregg Mathis of Lubbock, William Kary Mathis of Lubbock, Thomas Vern Montgomery of Andrews, Ada Iris Myers of Cleburne, Nora Gladys Neal of Rule, Mrs. Mabel Ailene Newman of Lubbock, Nell Taylor Parmley of Strawn, Alma Earp Parrack of Becton, William Elwood Patty of Lubbock, Juanita Price of Lubbock, Terry C. Redford of Brownfield, Ernestine Elizabeth Reynolds of Lubbock, Rachel Robert of Lubbock, Louise Sneed of Dalhart, Ethel Elizabeth Thurman of Lubbock, Frances Elizabeth Young of Bowie, Nell Elizabeth Young of Bowie.

Electrical engineering (11) - Ralph Thomas Brandenburg of San Antonio, J. Preston Conner of Lubbock, Walter Andrew Cox of Abilene, Kitt Porter Green of Graford, Lawrence P. Magee of Lubbock, Willard M. Nott of Waco, James Hershel Tadlock of Amarillo, Arthur Conrad Waghorne of Lubbock, James Robert Wayland of Plainview, Alpha Milton Wiggins of Lubbock, Charles Lee Willie, Jr. of Tyler.

English (19) - Florence Jones Ashmore of Lubbock, Lois Lataine Butler of Lubbock, Grace Anne Cade of Chandler, Margaret Ruth Dunlop of Lubbock, Hazel Spykes Hanback of Hermleigh, Amelia Hargis of Lubbock, Wellborn R. Hudson of Austin, Jean Shelley Jennings of Lubbock, Mart Woodson Jones of Seagraves, Mary Katherine McGlothlin of Lubbock, Jesse Roland McIlhaney of Lubbock, Ellis McCullough Mills of Lubbock, Nellia Viola Morgan of Spur, Margaret Dell Prim of Snyder, John Stephen Rankin of Kenna, N. M., Mary Frances Senter of Lamesa, Maudie Adeleine Smith of Lubbock, Gaster Randal Spencer of Lubbock, Fredice deCiel Weathers of Big Spring.

Foods and nutrition (4) - Alma DeShazo Bresler of Lubbock, Lesey Lavenia Bullock of Lubbock, Emma Chapman of Lubbock, H. Duncan Simmons of Carlsbad, N. M.

Foreign languages (9) - Mamie Nell Blackstock of Brownfield, Eunice Loraine Cone of Lubbock, Hester Kelsey Cooper of Lubbock, Ione Dodson of Whitney, Edyth LaVerne Garrison of Lubbock, Louise Garrison of Lubbock, Georgia Knight of Lubbock, Edna Nixon Morris of Lubbock, Genelle Wilhite of Lubbock.

General home economics (2) - Velma Copeland of Bowie, Laura Larkune Song of Chung San, Korea.

Geological engineering (2) - Howard F. Hopkins of Lubbock, James Oran Sanders of Big Spring.

(MORE)

Geology (5) - Jack Jefferson Flowers of Big Spring, Malcolm Logan Patterson of Big Spring, Shelby Graham Read of Henderson, Carl Pembroke Rogers of Houston, Arnold G. Schofield of Lubbock.

Government (12) - Eugene Thompson Adair of Lubbock, Ross Ayers of Wheelock, Charles Louis Cobb of Lubbock, Manuel C. DeBusk of Idalou, Alfred Holeman of Lubbock, William Allen Leslie of Eastland, Katherine Frances Lupton of Shallowater, Roger Quarrels Pierce of Lubbock, Anna Juanita Pool of Lubbock, John Doyle Settle of Abernathy, Mary Olive Spring of Friona, Robert Adelin Taylor of Stratford.

History (17) - Victor Cecil Bearden of Lamesa, Dorothy Lee Brigrance of Hart, Leona Margaret Gelin of Lubbock, Julia Margaret Harmon of Idalou, George Truett Hatton of Abilene, Basil Hudson of Westbrook, Lovic H. Liston of Lubbock, Martha Belle Logan of Lubbock, Anna Louise Lupton of Shallowater, Mrs. J. Herman Mitchell of Hope, N. M., Lela Deborah Puryear of Lubbock, Carl Nathaniel Roth of Wilson, Pauline Newton Sumner of Idalou, John Edward Vickers of Lubbock, John C. Williamson of Lubbock, Arthur Clyde Woodburn III of Portales, N. M., Clarence Ervin Woods of Lubbock.

Home economics education (13) - Ella Mae Blanton of Ralls, Helen Ruth Carter of Lubbock, Geraldine Clewell of Waco, Imogene Couch of Gustine, Nancy Carolyn Dixon of Bellevue, Nora Ellen Elliott of Dumas, Ruth Elizabeth Hearrell of Lubbock, Veralee Jones of Tulia, Mable Leslie Maggard of Hale Center, Hazel Willie Price of Lubbock, Delene Reid of Clyde, Effie Smith of Crosbyton, Mary Wilbanks of Spearman.

Horticulture (4) - Russell Bean of Lubbock, Wilson B. Holden of Clarksburg, W. Va., W. F. Hughes of Chowning, Painter Colquitt Wylie of Valley View.

Journalism (3) - William Boyd Bush of Greenville, Opal Louise Creighton of Abilene, Mary Elizabeth Sheely of Lubbock.

Mathematics (7) - Eugene Holder Brock of Houston, J. Charles Featherston of Petersburg, Murray Linden Holcomb of El Campo, Carl Elmer McClain of Lubbock, Maurine Patten of Dallas, Rayman Wilburn Wheeler of Lubbock, Roberta Willingham of Lubbock.

Mechanical engineering (11) - Miles Roger Clapp of Childress, Robert Edwin Drake of Kress, C. Eugene Edwards of Fort Worth, John Samuel Hopper of Wellborn, John N. Jacobsen, Jr. of Hereford, Blair LaVergne Manire of Slaton, J. Alton Miller of Hereford, James Rolin Renfro of Lubbock, George Elton Smith of Longworth, William Tillman Stitt of Fort Worth, Donald A. Weilenman of Weatherford.

Physics (3) - Ben Lawrence of Silverton, Margaret Carroll Robertson of Lubbock, Alexander Taylor of Childress.

Public school music (3) - Augusta Maye Foster of Lockney, Carolyn Poe of Harrisonville, Mo., Marie Emeline Price of Lubbock.

Speech (5) - Roscoe Irvin Bayless of Lubbock, Hazel Aleen Brown of Ackerly, Gertrude Harriett Hofmann of Carrollton, Dorothy Glyn Rushing of Lubbock.

Not Maurice Lypis y Perrin
(MORE)

Textile engineering (3) - William Basil Hill of Lamesa, Don Maddox of Menard, Lloyd Scarborough Reeves of Dallas.

Zoology (4) - John Lake Dean, Jr. of Crockett, Joseph Leslie Hall of Stanton, John Jackson Hopper of Lubbock, Kenneth Bell Rollo of Lubbock.

Candidates for the master's degree are: Chemistry (1) Cecil Hardee Connell of Lubbock.

Economics (3) - Roy Canon Clements of Lubbock, Mrs. Lucille Edwards of Dawson, Joseph Martin Jackson of Houston.

Education (9) - G. S. Dowell of Dickens, Bruce W. Edwards of Dawson, George A. Heath of Friona, Stilwell M. Melton of Cuero, Myrtle Sansom of Lubbock, M. Frank Stephens of Shallowater, William Ezra Street of Lubbock, J. Irvin Warren of Amherst, Sylva Wilson of Lubbock.

English (4) - Alma Alland Caldwell of Lovington, N. M., John A. Copeland of Brownwood, Glenys Honey of Lubbock, D'Aun Sammons Hunter of Lubbock.

Geology (1) - Elmer J. Moore of Lubbock.

Government (3) - William Lloyd Croslin of Colorado, Doris Ladd Johnson of Eastland, Gordon Treadaway of Lamesa.

History (3) - James Tillman Carter of Happy, James C. Chamberlain of Rochester, Alberto Melendez of Guatemala, S. A.

Mathematics (3) - Ena Armstrong of Thrifty, Artle J. Lynn of Oklaunion, Robert Parker of Lucille, N. M.

Philosophy (1) - Terence Vedder Crounse of Perrin.

Physics (2) - Allen Henry Burkhalter of Lubbock, Kimsey Taylor Miller of Lubbock.

3/9/33 From Texas Technological College Free News Service -- Cecil Horne.

Photo - puppets - Dallas News

LUBBOCK, Texas, March---. Ten students in stagecraft at Texas Technological College are constructing marionettes under the supervision of Miss Ruth Pirtle, head of the speech department, with which they plan to present an early farce, "Pierre Patelin", and a vaudeville program soon. The class is not only making the puppets, but will also build the stage, install the lighting system, study settings and costumes, and will speak the parts and manipulate the marionettes.

Miss Pirtle studied under Meyer Levin, author and internationally known puppet maker, and Louis Bunin at the Marionette Studio in New York city, where Tony Sarg's marionettes are made and mended.

LUBBOCK, Texas, March---. Four debating teams from Texas Technological College will enter the annual tournament at Southeastern Teachers College, Durant, Oklahoma, March 10 and 11, according to Miss Annah Jo Pendleton, coach. Representatives from colleges and universities in five states entered the tournament last year.

The four teams which will compete at Durant are: Garland Smith of Lubbock and Fred Barron of Wichita Falls; Carroll Thompson of Lubbock and Manuel DeBusk of Idalou; Eleanor Simmons and Mary Louie Shropshire of Lubbock; Helen Settle of Baird and Mary Louie Shropshire.

Tech debaters have just returned from a tournament held at Abilene, composed of twenty-one college teams in West Texas.

LUBBOCK, Texas, March---. Ray Thomas of Mexia, member of the first class to graduate in textile engineering at Texas Technological College, is employed in the textile division of the Goodyear Tire and Rubber company. Thomas had charge of the testing of the fabric which covered the framework of the giant dirigible Akron in the Goodyear laboratories at New Bedford, Mass. Thomas is now doing similar work in the construction of the Akron's sister ship Macon which is nearing completion.

LUBBOCK, Texas, March---. A number of girls, students in the home economics school of Texas Technological College, are wearing coats and dresses which they made themselves. The garments were made as a part of the laboratory work in a clothing course during the first half of the present term. The garments compare favorably in style and appearance to manufactured clothing.

LUBBOCK, Texas, March---. Textile students in Texas Technological College are weaving white woolen suiting which will be suitable for summer wear. The wool has been scoured, carded, and spun by the students, and they are combining it with rayon which is twisted into the wool.

LUBBOCK, Texas, March ---. Texas Technological College is exhibiting 14 steers at the Fort Worth Exposition and Fat Stock show. Six of these are Angus, five Herefords, and three Short Horns. There are 24 hogs being shown, nine Durocs, nine Hampshires, and six Poland Chinas.

Three professors and a number of students from Tech will attend. Professor W. L. Stangel, head of the department of animal husbandry, is superintendent of the swine division of the show. He has been an official since 1920 and has missed but one meeting since he first attended in 1912 while he was a junior in Texas A. & M. College.

Prof. Ray Mowery, coach of the Tech junior livestock team, and Prof. Fred G. Harbaugh, coach of the junior dairy cattle judging team, will attend. Headquarters for the Tech delegation will be at the Texas hotel.

LUBBOCK, Texas, March---. Pictures by two students of architecture in Texas Technological College have been selected by the College Art Association of New York city to be included in an exhibit selected to tour the United States and Canada. "California Poppies", by Everett Fairchild of Plainview, senior and editor of La Ventana, student yearbook, was chosen. A colorful pencil sketch of a vase by John F. Foster, Tech graduate of last year, was included in the group that will make the tour.

From Texas Technological College Free News Service -- Cecil Horne.

LUBBOCK, Texas, March---. Sock and Buskin, dramatic organization at Texas Technological College, will present a play, "End of the Dance" by Strode in the Texas Intercollegiate Dramatic tournament at Baylor College, Belton, Texas, March 24.

LUBBOCK, Texas, March---. The class in phonetics and speech correction at Texas Technological College will study 110 cases of children in need of clinical aid from the seven public schools of Lubbock during the spring term. Each student will spend two hours per week in one of the public schools giving clinical direction to children who are defective in speech, and will keep a record of her progress. The work is made possible by the cooperation of the public school superintendent and principals, according to Miss Ruth Pirtle, head of the Tech speech department and supervisor of the class.

LUBBOCK, Texas, March---. The Matadors of Texas Tech have closed the basketball season with 14 wins and seven losses. They were awarded the first Border conference championship in basketball.

LUBBOCK, Texas, March---. The seventh annual freshman livestock judging contest has just been held at Texas Technological College under the supervision of Prof. W. L. Stangel, head of the livestock department. In ten classes it was possible to make a score of 750. The ten high men out of 31 contestants with their score and home address are as follows:

J.T.Henry, Sterling City, score 685.
D. Marshall, Graham, score 652.
W.Wilson, Lake Arthur, New Mexico, score 650.
H. Wills, Fluvanna, score 613.
E. Perry, Lubbock, score 612.
W. Welch, Foard City, score 611.
A. McGinty, Eldorado, score 610.
J.H.Black, Seagraves, score 609.
G. Ball, Hobbs, New Mexico, score 607.
C. Littlepage, Tahoka, score 606.

The first contest was held in 1927 with W. G. Shepard high point man. High point men since then were: E. Y. Freeland, 1928; Buford Browning, 1929; Curtis Williams, 1930; Herman McArthur, 1931; and Henry Elder, 1932.

Officials of the 1933 show were: Curtis Williams, superintendent; Lanoy Hazel and Ben Jenkins, sectional leaders; E. G. Cauble, clerk; R.B.Davis, Plainview, A. C. Jennings, member of Tech's first livestock judging team, H. Harrell, and B. Browning were the judges.

W. Wilson, Lake Arthur, New Mexico, was high point man in beef cattle. S. Gordon, Itasca, was high point man in dairy cattle. C. Littlepage, Tahoka, was high point man in hogs. J.T.Henry, Sterling City, was high point man in mules and horses. D. Marshall, Graham, was high point man in sheep.

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Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Feb.----. Students and teachers from 17 Plains counties will gather at Texas Technological College April 14 and 15 for the district meeting of the Interscholastic League. Dr. A. W. Evans Tech education department head, is director general. The following counties will participate: Andrews, Bailey, Cochran, Crosby, Dawson, Dickens, Floyd, Gaines, Garza, Hale, Hockley, Lamb, Lubbock, Lynn, Martin, Terry, and Yoakum.

LUBBOCK, Texas, Feb.----. Elements of a good education, according to President Bradford Knapp of Texas Technological College, are:

1. Knowledge of and skill in the use of the English language.
2. A good knowledge of the history of our civilization.
3. A thorough understanding of our government.
4. Training in economics and sociology.
5. Some knowledge of health, hygiene, foods, nutrition, diseases and their prevention.
6. Some subjects should be taken for their cultural value in the development of individual knowledge and appreciation of art, literature, foreign languages, and the esthetic side of life.
7. Training for a definite life work, in some technical pursuit or professional line which will fit the student to perform service in an organized society.

LUBBOCK, Texas, Feb.----. Examinations for the winter term at Texas Technological College will be given March 13 to 17. Spring term registration will be March 20.

LUBBOCK, Texas, Feb.---. Dr. R. A. Studhalter, head of the biology department at Texas Technological College, has been elected president of the Plains Museum society, which held its annual meeting in Lubbock recently. Professor F. A. Kleinschmidt, head of architectural engineering at Tech, was named vice-president. Honorary vice-presidents are: L. F. Sheffy of Canyon, Floyd V. Studer of Amarillo, George Doughty of Post, and Victor Smith of Alpine.

Robert Butler, a farmer of McAdoo in Dickens county, won first award in an exhibition of West Texas artists with an oil portrait of his daughter entitled "Four Years Old". Second place went to Mrs. E. L. Reed of Lubbock. Of the 39 entries, three others received honorable mention.

LUBBOCK, Texas, Feb.---. Mrs. Eunice J. Gates has received notice that she has been awarded the doctor of philosophy degree by the University of Pennsylvania. Mrs. Gates is an assistant professor of Spanish in Texas Technological College. Mrs. Gates received her B. A. degree from Southwestern University, Georgetown, Texas, in 1921 and her M. A. from the same school in 1924. She took an M. A. degree from the University of Michigan in 1927.

LUBBOCK, Texas, Feb.---. Engineering graduates of Texas Technological College are willing to work and have a very fine attitude toward their jobs, according to officials of a large steel concern which employs several Tech graduates. O. W. Irwin, vice-president of the Truscon Steel Co., Youngstown, Ohio, says in a letter to Tech officials that "Texas Technological College graduates in civil engineering are valuable employees and have a thorough theoretical preparation." It is stated further that they have "an excellent attitude toward their work."

D. W. Hibbard, chief engineer of the same concern, writes that "When the wheels begin to turn and more business comes in, you can look to us for placing four or five of your graduates every year, provided you hold standards as high as you have in the past." It was added further that Texas Technological College graduates, in contrast to graduates of many eastern engineering schools, have been found to be "willing to work and work hard for extended periods while they are getting that kind of practical experience which turns their engineering theoretical training into practical judgment."

LUBBOCK, Texas, Feb.---. Prof. W. L. Stangel, head of the department of animal husbandry, Texas Technological College, is president of the Panhandle-Plains Dairy Show. Plans are under way now for the next meeting at Plainview April 10 to 13.

LUBBOCK, Texas, Feb.---. The fourth annual session of the South Plains Farm and Home Conference was held in the livestock judging pavilion of Texas Technological College Feb. 24. President Bradford Knapp spoke on cooperative marketing as an aid in the solution of the present farm problem.

"The cooperative problem is to take a large part of the products of its members and to assemble them together for marketing," Dr. Knapp explained. While he did not claim that cooperative marketing would solve the problem, he did say that it would help since it would insure a higher return to members on their products.

"One farmer in ten in the United States sells through cooperative effort," Dr. Knapp pointed out, "while less than that do their buying through cooperative effort. In some states one farmer out of three buys cooperatively." In Texas the 1930 census showed that 8,459 farmers reported belonging to a cooperative association. Five years before there were 29,000. In Minnesota the cooperative membership increased from 78,000 in 1920 to 95,000 in 1930.

LUBBOCK, Texas, Feb.---. The Texas Tech Golf club has been organized and a tournament will be held to select a representative for the Greenbelt golf tournament to be held this spring. Billy Holmes, Shamrock, winner of the Tech championship for the last two years and also of the Greenbelt championship at Electra last year, is expected to give the field some tough competition again this year.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Feb.---. The number of farms in 50 West Texas counties increased 93 percent from 1920 to 1930, according to Dr. J.O. Ellsworth, head of the department of agricultural economics of Texas Technological College. During the same period the number of farms in 50 East Texas counties of the same area increased six percent.

From 1920 to 1925 the increase in the number of farms was 39 percent in West Texas and a decrease of six percent in East Texas. From 1925 to 1930 the increase was 42 percent in West Texas and 13 percent in East Texas.

LUBBOCK, Texas, Feb.---. Texas crops in 1932 yielded 108 percent of the 10 year average, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College. The average yield of all crops for the United States was 98.6 percent of the previous 10 years.

Acreage devoted to all field crops decreased in Texas from 1931 to 1932 by two percent, while acreage in the United States increased about one percent.

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LUBBOCK, Texas, Dec.---. Declaring that Texas Technological College meets the needs of West Texas and that the State would not save anything by adopting the recommendations of the legislative efficiency committee to transfer technical courses to A. & M. College and the University of Texas, Dr. Bradford Knapp, president of Texas Technological College, outlined to a convocation of faculty and students his opposition to the proposals. He pointed out that West Texas was supporting the schools of agriculture, engineering, and home economics, that the distances to other institutions would be too great, that an educational institution ought to be closely correlated with the needs of the people it serves, and that the cost per student at Texas Technological College is less, according to the committee's own figures, than at any of the other major state schools.

While pledging himself and the institution to every possible economy and constructive efficiency measure, Dr. Knapp said he did not believe the people of Texas would be willing to make only a liberal arts college out of Tech when the wisdom of the founders of the school had been already so abundantly justified. "The objectives of this institution, its history and development," Dr. Knapp urged, "are matters of supremely great interest. For many years there was a demand on the part of West Texas for an educational institution. This demand was crystallized by an act of the legislature in 1923 creating the Texas Technological College, and providing the scope of work that the institution should undertake. I have been struck with the scope and view which the men who originally conceived the idea had regarding the needs of this section of the state. It is perfectly apparent that they wanted a school where practical things were taught.

Declaring that other institutions would not meet the needs of West Texas, Dr. Knapp said, "an educational institution ought to be closely correlated with the needs of the people. It ought to be in line with the thoughts of the people, and it is my conception that this institution is organized and has its objectives in line with the thoughts and purposes of the people of this great section of the state. I believe that education ought to be a judicious intermingling of those things which are useful, practical, and valuable in everyday

life, accompanied by a mental, intellectual, moral, and spiritual training of the individual, and accompanied by that general cultural information which leads us to the enjoyment of life," and he continued:

"And so frankly, I just can't see Texas Tech without any agriculture, engineering, or home economics. And I want to say definitely that I do not believe that an institution, as noble as it might be, in which nothing but the liberal arts are taught, would be suitable to the character of the people we have in West Texas. If I have any reaction to the people of this section, it is that they are virile, resourceful, energetic, determined people who want to work and who are not afraid to work, and who want their young men and women prepared, not for days of idleness or the white-collared jobs, but prepared to be unafraid of the eventualities of life."

A greater percentage of the graduates of the school of agriculture in Texas Technological College are actually engaged in farming than the graduates of any other agricultural school within his knowledge, Dr. Knapp declared.

Speaking of the democracy of education, President Knapp said: "Education must be of the people; it must be near the people; it must be for the people -- democratic. I do not say this in criticism of any institution in America, but whenever a state gets to the point where all its thinking is dominated by a few of the men at one institution, it is not democratic. The democracy of education in Texas depends upon having different points of view. I want to see a great University of Texas. I want to see a great Texas A. & M. College. There is no jealousy in my heart regarding the destinies of either of these institutions, but I know it is better for the people of this state that we have more than two institutions contributing their ideas, thoughts, and purposes to the life of the people of this great commonwealth. I believe that this institution was conceived and established pretty largely out of the desire of the hearts and minds of the people of West Texas for some institution that might be expressive of the life of the people of West Texas.

"All of this is in the name of economy. By the very figures of these research committees, the average cost per full time student, which means a student taking an average of forty-five term hours per year in this institution, or thirty credit hours in institutions where they have the semesters, at Texas Technological College is less than

at the University of Texas, Texas A. & M., College of Industrial Arts, Texas College of Arts and Industries, Sam Houston State Teachers College, Stephen F. Austin State Teachers College, Sul Ross State Teachers College, and West Texas State Teachers College. At eight of the state institutions it costs more per full time student than it does at Texas Tech for the state to educate a student. If you take both the summer term and the regular term it costs less at Tech per student than at eight other state supported institutions. And so I contend that if all students were transferred from this institution it would not save the state one single, solitary cent.

"Statistics prove that the larger the institution grows, after a certain figure, you do not get a corresponding decrease in the cost per student. Some of the most expensive institutions in America are some of the largest. There is much evidence to show that the institutions between two and three thousand students are the most economical. I prepared a table of seventy-two institutions in America and found that every one, except one, exceeded the cost at Tech, including Alabama Polytechnic Institute, from which I came here, University of Arizona, University of Arkansas, University of California, Colorado Agricultural College, Connecticut Agricultural College, University of Delaware, University of Georgia, University of Idaho, University of Illinois, Purdue University, and on down the line.

"There are more students at this institution taking agriculture during the past year than at such schools as the Colorado Agricultural College, Wyoming Agricultural College, Idaho University, Montana Agricultural College, Arkansas University, University of Nevada, University of New Hampshire, University of Vermont, and many others. We have more engineering students than seventy odd of the chief engineering institutions in America.

"Texas Technological College is doing the best today in the economic expenditure of its funds of any institution in Texas. It expends a larger proportion of its total funds for instructional work than any other institution supported by the State of Texas. It spends a less amount of money for its administration and cost of up-keep and plant operation than any other institution in Texas."

LUBBOCK, Texas, Dec.----. Prices paid to Texas ~~farmers~~ on November 15 were higher than those paid to United States farmers as a whole for seven agricultural products out of the 25 commodities included in a study conducted by Dr. J. O. Ellsworth, head of the department of agricultural economics at Texas Technological College. Texas prices were lower than the average for 18 of the 25 products.

Commodities which were higher in price than the United States average include hogs, sheep, wool, corn, potatoes, and apples. Prices which were lower include wheat, cotton, hay, beef, cows, horses, mules, chickens, turkeys, eggs, and butter.

Classified according to groups and compared to pre-war prices, grains were the lowest on November 15 and poultry products were the highest. On November 15, farmers received 34 percent as much for grains as they did in 1910 to 1914. For poultry products they received 115 percent of the 1910 to 1914 price. Other groups compared to pre-war were fruits and vegetables, 57 percent; meat animals, 57 percent; dairy products, 80 percent; cotton, 47 percent.

The above figures are increasingly significant when compared to prices paid by farmers. The last complete figures for this class are for September, and show that prices paid for maintenance of the farm family were 190 percent of the 1910 to 1914 average. Prices of commodities used in farm production were 106 percent of the pre-war average. Prices for machinery were 149 percent and prices of building material were 126 percent.

LUBBOCK, Texas, April---. Dr. Harry L. Kent, president of New Mexico A. & M, Las Cruces, will deliver the seventh annual commencement address to the graduating class at Texas Technological College June 7. The baccalaureate sermon will be delivered by Dr. R. Thomsen, pastor of the Central Presbyterian church of Amarillo.

President Bradford Knapp and Mrs. Knapp will receive the graduates and members of the faculty at the president's home Friday evening preceding commencement. Formal academic processions will feature the exercises on Sunday and on commencement day.

LUBBOCK, Texas, April---. More than five thousand visitors registered at the annual engineering show just held at Texas Technological College, the largest attendance in Tech history. Hundreds of towns and communities in West Texas and New Mexico were represented.

Exhibits included a model of the Hoover Dam, a mural painting of "Eve in the Garden," a collection of reproductions from the Carnegie corporation, the Tesla coil which developed over a million volts of electricity, dynamos, gas engines, an ice manufacturing plant, a two-cylinder steam engine with 5,800 revolutions per minute that would develop over one-horse power, and many other products of engineering students.

In the textile engineering department visitors saw how wool and cotton were taken in the raw state and carried through each process until the finished cloth product evolved. Washing, dyeing, and spinning processes were demonstrated.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Prices paid to Texas farmers for butter decline on the average of two cents per pound from April to the usual low month in June or July, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College.

The lowest price for the year has been in the months of June or July 21 times in the past 24 years. The price has advanced from March or April to midsummer only three times in the 24 years.

The high price of the year has been in December or January in 23 of the 24 years. The highest price paid on the fifteenth of the month to Texas farmers for the 24 years was 52 cents in December, 1919.

The low for the period was 17 cents in June and July of 1932 and January and February of 1933.

The average change during the year from low to high, considering only the prices paid on the fifteenth of each month, has been seven cents per pound.

Because of the low prices of butter farmers are not feeding so well, hence milk production is declining somewhat. Milk production thus far for 1933 is about five per cent less than in 1932.

LUBBOCK, Texas, April---. Speaking engagements of President Bradford Knapp of Texas Technological College are announced as follows:

April 22--Fourteenth District, Texas Congress of Parents and Teachers, Brownfield. Subject: "Safeguarding the Schools."

April 23--Address, First Baptist church, Lubbock.

April 24--Address, Meeting of senior class, Texas Technological College.

April 25--Meeting of the American Association of University Women, engineering auditorium, Texas Technological College. Subject: "Present Status of Technical Education in the United States."

April 28--Association of Texas Colleges, Dallas. Subject: "The Place of Technological Training in Higher Education Today."

May 2-- Address, District Conference Rotary International, San Angelo.

May 6-- Address, District Educational meeting, Lubbock High school.

May 11--Commencement address, Shallowater High school.

May 13--West Texas Chamber of Commerce, General Session Fifteenth Annual convention, Big Spring. Subject: "West Texas Tomorrow."

May 17--Commencement address, Lubbock High school.

May 19--Commencement address, Tahoka High school.

May 22--Address, State Convention Lions club, Lubbock.

May 24--Commencement address, Seminole High school.

May 25--Commencement address, Nurses Training school, Lubbock Sanitarium.

May 28--Senior class services, Idalou High school.

May 30--Commencement address, Spur High school.

June 1--Commencement address, West Texas State Teachers College, Canyon.

June 9--Commencement address, Abernathy High school.

9-1-32
sent to 27 papers

From Texas Technological College-Free News Service -- Cecil Horne

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LUBBOCK, Texas, Sept. 1. -- Dr. Bradford Knapp, widely-known educator, agriculturist, economist, and lawyer, recently elected president of Texas Technological College, took active charge of the affairs of the institution today. Dr. Knapp has been in Lubbock several weeks studying the problems that will confront him and acquainting himself with the school's routine.

Dr. Knapp became nationally known in carrying out the extension work originated by his father, Dr. Seaman Knapp, resulting in the establishment of the county agent, county demonstration, and the 4-H club work. From 1909 to 1920 he was chief of the office of extension work in the South under the United States department of agriculture. During the World War Dr. Knapp wrote the agricultural program for the South.

In 1920 he went to the University of Arkansas as dean of the school of agriculture. In this position he was director of the state extension service. In 1923 he went to Stillwater, Oklahoma, as president of the Oklahoma Agricultural and Mechanical College, and in 1928 he accepted the presidency of the Alabama Polytechnic Institute at Auburn, Alabama. The Oklahoma and Alabama institutions both have well developed schools of engineering and Dr. Knapp's connection with them, in addition to his life-long work and interest in agriculture, make him peculiarly fitted to head Texas Technological College.

Since being in Lubbock and West Texas Dr. Knapp has expressed the keenest interest and enthusiasm in the possibilities offered by the school to help solve the agricultural and industrial future of this great western empire and the entire State of Texas. He has emphasized the value of research and has pledged his efforts and the facilities of the institution toward the economic betterment and development of the country and to help in educating Texas youth.

While wages are low and jobs are scarce Dr. Knapp urges the young man and woman to make the effort to attend college and be ready for the certain expansion that is to come. He says he is glad to become a citizen of the great state of Texas which from its beginning has been devoted to the ideal of education as the greatest safeguard for democracy. "What the state puts into its state-supported schools," he says, "is almost its only real investment for the future."

*file
new letter*

(News Release)

ENROLMENT AT TEXAS TECHNOLOGICAL COLLEGE

Lubbock, Texas,
September 29, 1932.

On Wednesday, September 28, the Registrar reported to the President of the Texas Technological College that 1,761 students had registered for the fall term. On the same day of the fall of 1931, there were 1,652 students registered for the fall term a year ago. This is an increase of 109 students and is approximately six and a fraction per cent increase. On the same basis, should the registration for the rest of this quarter and for the second and third terms be approximately on the same basis, the institution will have for the year 1932-33 approximately 2,300 students.

Thus far, the increases are about equally divided ^{among} by the various divisions of the institution, Agriculture, Engineering, Home Economics, and Liberal Arts. The largest enrolment is, as usual, in Liberal Arts; second largest in Engineering; the third, in Home Economics, and the fourth in Agriculture. ~~The enrolment for the different divisions and classes of the institution cannot be given until the registration is complete.~~

TEXAS TECHNOLOGICAL COLLEGE

OPENING SERVICE

High School Auditorium

September 25, 1932

8:00 P. M.

Prelude.....Orchestra

Choral Sentence

Invocation, ending with Lord's Prayer.....Rev. J. M. Lewis, D.D.,
Pastor, First Presbyterian Church, Lubbock.

Choral Amen

Hymn.....Lead On, O King Eternal

Scripture Reading.....Rev. J. O. Haynes,
Pastor, First Methodist Church, South, Lubbock.

Anthem.....The Lord Shall Comfort Zion

Announcements

Sermon.....Rt. Rev. E. Cecil Seaman, D.D.,
Bishop of Missionary District of North Texas.

College Hymn

Benediction.....Rev. R. C. Campbell,
Pastor, First Baptist Church, Lubbock.

Choral Response

Postlude.....Orchestra

Shall I Go To College In 1932-33?

THE FALL of 1932 finds the world still in difficulty. The apparent change toward better times and a recovery from the depression seem to be coming slowly. We have been passing through experiences which have affected the whole world, as well as our immediate community. Jobs are still scarce, men are still out of employment, and prices are struggling to readjust themselves on a new basis.

In the face of such a condition, what is a young man or a young woman going to decide to do in the immediate future? Will you decide to get a job and go to work when there are so many applicants for every place available? Are you going to think about taking advantage of this lull in world activities to prepare yourself better to meet the ultimate tasks of every day life?

I am not one of those who think that a college education is everything, but the facts still show that college trained men have a better chance in the world as leaders, to attain some place of distinction, than have those who lack the college training. A college education ought to prepare the student to develop himself or herself, and, through such development, to increase one's capacity for work and one's opportunity in the world. It should enlarge one's vision. It should teach one where to find knowledge. It should improve habits of thinking and capacity to meet difficult situations.

A college education is more important for leadership in these days of distress, and in the new day which is coming, than it was in the glorious days of optimism, when jobs were easy and money was plentiful. The question for the young man or young woman to ask themselves is this: What do you expect to be when you are forty years of age?

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A college education is not necessarily a preparation for next year, or for four years from now, but it is a preparation for your ultimate place in life. We are in a complicated and increasingly difficult period of the civilization of the world. The world needs men and women who are morally straight, physically clean, and mentally awake. Such men and women have a place in the world. Texas will need that kind of leaders in business, in the professions, in commerce, transportation, on its farms and in its agricultural work, in its factories and engineering and construction work.

Do not believe for a moment that the world will not go forward. When we recover from this period of depression, there will still be great things to do, even greater than the things of the older days.

Therefore, while wages are low and jobs are scarce, would it not be best to make whatever sacrifices are necessary to devote your time to the task of getting a college education? Of course, a great deal depends on whether you have the money, or can get it. There are some opportunities at the Texas Technological College for students to earn their way in part. Look upon your college education as an investment for the future from which you are going to realize dividends through the next forty years. The State of Texas, in common with her sister states, has been devoted to the ideal of education as the greatest safeguard of democracy. What the state puts into its state-supported schools is almost its only real investment for the future. How well these institutions perform their task is exceedingly important for the future of the state.

Where Shall I Go?

Where you should go to college will depend very largely upon what you intend to do. The Texas Technological College offers some excellent opportunities. The field of its work includes many lines which lead to different callings in life. I prefer to state

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these upon the basis of the vocation for which they prepare you rather than to arrange them in terms of the college courses. Let me present briefly the fields covered by this institution:

In Agriculture: This institution has courses which prepare one to be a farmer, a live stock man, a dairyman, an ice cream manufacturer, dairy products manufacturer, a teacher of agriculture, a ranchman, a horticulturist, a nurseryman, and many other lines of work which are closely associated with the great basic industry of agriculture, including those of scientists and technicians needed in many of the service branches of the state, the government and agricultural organizations.

In Engineering: The Technological College can prepare you as an electrical engineer, a mechanical engineer, a civil engineer, a highway engineer, a textile engineer, a chemical engineer, an architectural engineer, a construction engineer, a geological engineer, a petroleum production engineer, etc.

In Science: This college prepares you for work as a chemist, a physicist, a biologist, a bacteriologist, an economist, or a mathematician.

In Business and Business Administration: As a banker, a merchant, or for other types of business men who need preparation in the field of economics and business administration.

As a Teacher: The Texas Technological College prepares teachers in any of the subject matter courses presented in its catalog, by adding the professional courses in education necessary to meet the requirements of the State.

General Courses: This institution has general courses leading to the degrees of Bachelor of Arts or Bachelor of Science. Where the individual is uncertain regarding what position he is going to take in life, a general education is a good preparation.

In Home Economics: The Texas Technological College presents courses for the pre-

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paration of teachers of home economics, dietitians in hospitals and schools, home demonstration agents, consultants or stylists in home decorating studios and department stores, designers in factories and dress-makers' shops, tea room or lunch room managers, technical writers on subjects relating to home economics and home problems, and that broad and splendid preparation as home makers.

You will find that the courses of study are broad and comprehensive. They include general education, cultural education, languages, literature, arts and the sciences, in combinations which give one a broad and expanding education in preparation for leadership in these various lines which I have attempted to cover so briefly.

One important thing for you to consider is the economy with which you can obtain a college education. We believe that Texas Technological College presents wonderful opportunities for the students of this great section and State to obtain an education economically. With care, the expenditures can be made moderate.

The beautiful City of Lubbock is located on the South Plains, where the climate is enjoyable. There are many local advantages brought about by the great devotion of the people of this city to the institution which is located in their midst. Here your life can be surrounded by the culture and refinement of splendid churches and excellent social life.

For you, now is the accepted time. It is better to get your education now while times are difficult, than it is to wait for a recovery of the world. Get ready while you can to meet the expanding prosperity of the new day. This is a growing country. Prepare yourself to grow with it and to help in the task of guiding its future.

BRADFORD KNAPP, President,
Texas Technological College,
Lubbock, Texas.

August 29, 1932.

file
newslet.

Beef Outlook.

Prices for ~~beef~~ cattle may work lower during October and early November says the Department of Agricultural and Farm Management of Tech. College. ^{Economics}
"The ~~large~~ ^{exceptional} feed crop of West Texas and the large corn crop of the nation as a whole together with low prices of feed including corn, will ^{probably be the} influence the prices of beef downward. Especially is this true of common grades of killing cattle," continues the Department.

From the best sources available the Department has collected the following significant conditions regarding the ^{cattle} beef situation:

"November ^{prices of beef} have been lower than October prices in 12 of 17 years when cattle prices were declining. November has been lower than October in only 9 of the 33 years when the general trend was upward. The evidence points to cattle values lower than the low prices

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of last May. If such be the case, heavy steers have only about one chance out of four to be higher in November than in October and top light steers have only about one chance out of six to be higher in November than in October."

"Available credit for feeding seems to be improving in some sections and may influence the price of cattle ^{slightly} upward. Also the relative advantage of cheap feed makes this fall more desirable for feeding than is usually the case."

Print 9-9-32
100 newspapers

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Sept.----. With twelve games scheduled with teams from six states Texas Technological College is regarded as having the most notable football schedule in its history. The season will open September 17 with a game at Lubbock with Oklahoma Panhandle A. & M. This is a night game. A special train will carry the Tech aggregation to Amarillo for a game with Texas A. & M. September 24. This will be a feature of the Amarillo Tri-State fair.

Southern Methodist University comes to Lubbock October 1. Game is at night. The game with Austin College of Sherman set for October 7 is also to be played at night. The University of Arizona comes to Lubbock October 14, night game. Tech goes to Las Vegas, New Mexico, October 15 for a tilt with the New Mexico Normal University. Tech goes out of the state again for a game with the Colorado School of Mines at Denver October 22.

One of the big high lights of the season will be the game in Lubbock the night of October 28 with Notre Dame University. November 4, Trinity University comes to Lubbock for a night game. Baylor University plays on the Tech field on Armistice Day, November 11, day game. Tech again goes out of the state for a game with the University of New Mexico at Albuquerque November 19. The annual Thanksgiving affair with Simmons University will be staged in Lubbock November 24, day game.

LUBBOCK, Texas, Sept.----. Cheri Casa, largest dormitory for men students at Texas Technological College, has recently been treated to a thorough overhauling and given a new name, Matador Hall. The name Cheri Casa is a combination of French and Spanish terms and was meant to convey the idea of a happy domicile. But because Tech boys aren't specially fond of foreign words and also because Tech athletes are housed in the building, the new name was selected as being more in line with the spirit of the school.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Sept.----. Miss Elizabeth Howard West, librarian at Texas Technological College, has just returned from a two years' leave of absence granted her to do research work in Seville, Spain, for the library of congress.

Examination of the archives of the Indies for early writings pertaining to American history, selection of the material, and supervision of its photography for the congressional library have been her principal duties there.

The work was made possible by a grant from John D. Rockefeller, Jr. for the purpose of collecting transcripts and otherwise increasing bibliographical resources of the library of congress. The \$700,000 gift covered a period of five years, three of which had elapsed when Miss West was appointed.

LUBBOCK, Texas, Sept.----. Football fans of Texas Technological College and Lubbock will go to the Tech-A. & M. football game at the Amarillo fair September 24 in a special train. Also a number of ex-Aggies are expected to be aboard the special. The train will be sponsored by the American Business club of Lubbock. A rate of \$2.50 for the round trip has been secured over the Santa Fe.

LUBBOCK, Texas, Sept.----. W. L. Stangel, head of the animal husbandry department in Texas Technological College, has been named superintendent and judge of the Aberdeen-Angus classes of cattle at the State fair of Texas. The exposition will be held from October 8 to 25.

LUBBOCK, Texas, Sept.----. Dr. Bradford Knapp, president of Texas Technological College, was elected president of the South Plains Teachers' institute which has just closed its sessions in Lubbock. Nineteen counties participate in this annual meeting and the attendance usually exceeds the one-thousand mark.

LUBBOCK, Texas, Sept.----. Everything is in readiness for the opening of the eighth annual session of Texas Technological College September 21, according to President Bradford Knapp. He and the deans with other college officials are at the college now and all teachers are to report by September 15. All places for the year have been filled and a normal enrollment is expected.

All first year students are expected to be present September 21 and actual registration begins September 22. President Knapp urges all new and old students to report promptly for registration.

LUBBOCK, Texas, Sept.----. Approved rooming and boarding house lists for students attending Texas Technological College show that ample accommodations are available for all students who may enroll, both boys and girls. These lists will be mailed to students who ask for them.

The price of room and board for girls ranges from \$20 to \$27.50 per month and for boys from \$20 to \$25 per month. Some few places are listed under twenty dollars. The average cost of living is less than it has ever been since the college opened.

LUBBOCK, Texas, Sept.----. Mr. and Mrs. K. L. Knickerbocker have returned to Texas Technological College after an absence of three years spent at Yale University. Mr. Knickerbocker is a member of the English faculty and has been doing work in that field at New Haven.

Mrs. Knickerbocker, who teaches violin, has been studying in the Yale school of music under Hugo Kortschak and playing with the New Haven symphony.

4-30-32
100 copies sent

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Sept.----. President Bradford Knapp of Texas Technological College announces that 1,761 students have registered for the fall term up to September 28. There were 1,652 students enrolled for the fall term on the same date last year. This is an increase of 109 students, or more than six percent more than in 1931. Dr. Knapp announces that, should the registration for the rest of this quarter and for the second and third terms be approximately on the same basis, the institution will have for the year 1932-33 approximately 2,300 students.

Thus far increases are about equally divided among the various divisions of the institution, agriculture, engineering, home economics, and liberal arts. The largest enrollment is, as heretofore, in liberal arts; second largest is engineering; third in home economics; and fourth in agriculture.

LUBBOCK, Texas, Sept.----. Prof. Gus L. Ford, a member of the department of history in Texas Technological College since the opening of the school, has been appointed acting head of the department for the year 1932-33, according to announcement of President Bradford Knapp.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Sept.----. The annual rodeo staged by agricultural students of Texas Technological College has been set for October 21. In addition to crowning of the rodeo queen events include cow relay races, wild cow milking contest, belled calf roping contest, and other features. Proceeds are used to pay the expenses of Tech's stock judging team to the judging contest in Chicago this winter.

LUBBOCK, Texas, Sept.----. Miss Ruth Horn, daughter of the late President P. W. Horn of Texas Technological College, has been appointed secretary to the faculty of the college of liberal arts.

LUBBOCK, Texas, Sept.----. Faculty members of Texas Technological College have subscribed practically one hundred percent to the student activities program for the support of athletics. A drive is being waged to sell these tickets to the student body. The price this year is only \$5 as compared to \$10 in past years, and includes admission to eight home football games, and all basketball games and track events. With a notable schedule and evidences of a winning team, interest in athletics at Tech is much greater than usual.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Oct.---. More than 1,900 students have subscribed for the Artist course, a series of entertainments offered annually in Texas Technological College.

LUBBOCK, Texas, Oct.---. President Bradford Knapp of Texas Technological College is contributing a "Column" to the weekly student newspaper, The Toreador. The feature is known as "Prexy's Paragraphs", and is given a place on the front page.

LUBBOCK, Texas, Oct.---. Class officers for the year in Texas Technological College have been elected, as follows: Seniors -- Eugene Edwards, Fort Worth, president; Jack Flowers, Big Spring, vice president; Jean Shelley Jennings, Lubbock, secretary-treasurer. Juniors -- Bill Teal, Enochs, president; Jesse Young, Cotulla, vice president; Melba Watson, Lubbock, secretary-treasurer.

Sophomores -- D. M. McElroy, Dallas, president; Malcolm Martin, Lorenzo, vice president; Jerry Durham, Hamilton, secretary-treasurer. Freshmen-- Marcus Halsey, Lubbock, president; Clayborn Norris, Quitman, Miss., vice president; Thelma Reed, Vernon, secretary-treasurer.

LUBBOCK, Texas, Oct.---. Hog prices may be expected to weaken slightly during the next thirty days, according to figures compiled by Dr. J. O. Ellsworth, head of the department of agricultural economics, Texas Technological College. This forecast of price movements, while admittedly uncertain, is based upon the best information obtainable and such forecasts in the past have proved to be correct in about 80 percent of cases.

According to Dr. Ellsworth, factors indicating a lower trend in hog prices are the usual tendency for market supplies of spring pigs to increase in October, the lack of interest on the part of processors to purchase in advance of daily needs, and the apparent glutting of the market on any advance for fear of a recurrence of last May's low prices.

The usual increase, he says, in market supplies of spring pigs after September has resulted, with but few exceptions, in a lower price trend from September to December. In only 13 of the 72 years from 1840 to 1931 did the market advance from October to December enough to pay to hold hogs weighing 170 pounds or more until they were finished. Four of the 13 years were during the Civil or World war periods and another was 1909, a year of sharp business recovery.

The November price was lower than the October price in 14 of 15 years of declining hog prices similar to the trend since 1928, the November price was lower than the October price in 22 of 33 years in periods of advancing hog prices. Indications are that the cyclical low has not been reached, which means only a one to 14 chance for higher prices in November. In case May prices were the cyclical low for this cycle, the November prices have but one out of two chances for an advance.

The season's low price has a pronounced tendency to occur in November and December.

LUBBOCK, Texas, Oct.----. Seventy-one students of Texas Technological College secured loans from the Lubbock Rotary club loan fund during the past school year. Seventy other students made payments during the year on loans already received. The amount of this fund is \$7,455.35, and is being increased annually by contributions of Lubbock Rotarians. Dean J. M. Gordon is chairman of the committee which administers the fund.

LUBBOCK, Texas, Oct.----. One of the world's rarest plants, the ruffle plant, has been rediscovered by Dr. R. A. Studhalter of Texas Technological College, in the waters of Madera creek in the Davis mountains of Western Texas. This small plant, an inch or more in length, resembles a ruffle standing on end, and at present is apparently found only in that one creek.

This plant, known as "riella", is very far removed from its nearest relatives which are found in southern Europe and northern Africa. For almost a century these aberrant plants, belonging to the lowly group of the liverworts, have been playing a hide-and-seek game with the botanists, according to Dr. Studhalter, in that they often disappear frequently, only to reappear suddenly many years later.

The complicated life history of the ruffle plant is being studied by Dr. Studhalter in his laboratory at Texas Tech college.

LUBBOCK, Texas, Oct.----. Cowboys and cowgirls, gathered in Texas Technological College from the wide open spaces, have elected Sue Barton of Sterling City queen of the annual rodeo staged by the students in the school of agriculture. Miss Barton is a sophomore home economics student.

LUBBOCK, Texas, Oct.----. Seven out of ten steers entered by Texas Technological College which won places at the Dallas fair were bred on the college farm. The Shorthorn champion was among the list of college bred animals. Three Herefords, three Shorthorns, and four Aberdeen-Angus animals placed.

LUBBOCK, Texas, Oct.----. Lubbock ex-students of Baylor University will give a luncheon November 11 for all old Baylor students who attend the football game here on that date between Baylor and Texas Technological College. Letters are being mailed out to about 400 Baylor exes within a radius of 150 miles of Lubbock inviting them to attend the luncheon and the game.

Tech athletic authorities are arranging for the Baylor visitors to have a special section in the grandstand and to have it decorated with the University's colors.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Oct.----. Prices for beef cattle may work lower during October and early November, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College. The exceptional feed crop of West Texas and the large corn crop of the nation as a whole, together with the low prices of feed, including corn, will probably account for the downward trend in beef prices. Especially is this downward trend expected to affect the common grades of killing cattle.

November prices of beef have been lower than October prices in 12 of 17 years when cattle prices were declining. November has been lower than October in only nine of the 33 years when the general trend was upward. The evidence points to cattle values lower than the low prices of last May, says Dr. Ellsworth. If such be the case, he concludes, heavy steers have only about one chance out of four to be higher in November than in October and top light steers have only about one chance out of nine to be higher in November than in October.

It is further pointed out that available credit for feeding seems to be improving in some sections which may influence the price of cattle slightly upward. Also the relative advantage of cheap feed makes this fall more desirable for feeding than is usually the case.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Oct.24. The standing of the teams in the Border athletic conference is as follows:

BORDER CONFERENCE STANDING

School	Won	Lost	Tied	Per.Ct.	Total Points
Texas Tech	1	0	0	1000	199
Arizona University	2	1	0	666	57
New Mexico University	0	0	2	500	36
Flagstaff Teachers	0	0	2	500	34
Arizona State (Tempe)	0	0	1	250	33
New Mexico Aggies	0	1	1	250	115

LAST WEEK'S RESULTS

Arizona U. 20vs Arizona State 6

New Mex. U. 0 vs. New Mex. Aggies 0

Texas Tech 21 vs. Colorado Mines 0

THIS WEEK'S SCHEDULE

Arizona U. vs Flagstaff Teachers at Flagstaff

New Mex. U. vs. Arizona State at Phoenix

New Mex. Aggies vs. Texas Mines at Las Cruces

Texas Tech vs. Notre Dame "B" Team at Lubbock

LUBBOCK, Texas, Oct.---. One of the aftermaths of the biggest coaching schools held in the United States last summer at Texas Technological College, in which many of the country's most famous coaches participated, is the game in Lubbock with Notre Dame on Friday, October 28. Hunk Anderson of Notre Dame, an old friend of Coach Pete Cawthon of Tech, was in this coaching school and was so much impressed with the possibilities at Texas Tech that he agreed to send a team here.

While the squad coming to Lubbock is known as a "B" team, that does not mean that some of the best of Notre Dame's men are not coming to Lubbock. Fans attending the game here will see the famous Notre Dame system clicking as it should click and against a team that is using the same system. Cawthon says Anderson could keep 60 of his best men at home and then send a squad to Lubbock that would rate in the Southwest.

The odds are against Texas Tech, of course, in the forthcoming fray, but the Matadors are in the best of condition and their morale is at the highest point of the year. They are keyed to play inspired football against the fighting Irish.

Coach Cawthon's charges have amassed a total of 199 points this season in seven games to their opponents 13, a record equalled probably by no other team. And two of these games have been with Southwestern conference elevens.

After Notre Dame comes Trinity University in Lubbock November 4 and the Baylor Bears on Armistice Day. November 19 sees Tech at Albuquerque battling the University of New Mexico. The Matadors will close the season at home November 24 with the annual Thanksgiving go with Simmons University.

LUBBOCK, Texas, Oct.--- Eggs will more than double their August price by December, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College. Normally, the price of eggs almost double during this period, but this year egg prices, Dr. Ellsworth believes, may be expected to advance more than normal, due to the general stimulus following improved business conditions. This will increase the egg demand and be responsible for a relative reduction in the number of eggs in storage.

A study of prices received by Texas farmers for eggs covering a period since 1909 indicates that in 11 of 23 years the price has advanced four or more cents a dozen from August to September. October prices advanced over September four cents or more per dozen in nine of the 23 years. November prices advanced four or more cents per dozen over October prices in 12 of the 23 years, and December prices advanced over November prices five or more cents per dozen in 16 of the 23 years. In nine of the 23 years the price of eggs to Texas farmers more than doubled from August to December, and only once in 23 years did egg prices decline during this season of the year from one month to the next, and that was in 1931.

Since January, 1932, egg prices to Texas farmers have been lower than at any time since 1909. The lowest average price was last May when the price averaged a little less than seven cents per dozen. This decline has been in sympathy with general prices and the recent improvement in business will react to the advantage of eggs.

Eggs in storage this year are 30 to 35 percent less than in 1931 and receipts at markets are about ten percent less, while trade output of eggs in the larger markets has been only about six percent less than last year.

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10-26-32 From Texas Technological College Free News Service -- Cecil Horne.

LUBBOCK, Texas, Oct.----. Hon. Clifford B. Jones of Spur, chairman of the board of regents of Texas Technological College, will fly from Fort Worth to Lubbock on the afternoon of October 28 to be present at a football game here that night between Tech and Notre Dame. Mr. Jones will attend a meeting of the board of directors of the Regional Agricultural Credit Corporation, of which he is a member, in Fort Worth that morning.

LUBBOCK, Texas, Oct.----. Baylor University ex-students are to have a luncheon in Lubbock November 11 when the Baylor Bears and the Texas Technological College Matadors play an Armistice day football game here. Invitations to more than four hundred former Baylor students who live in West Texas have gone out from the Baylor club in Lubbock. Those attending will have a special section in the Tech grand-stand.

LUBBOCK, Texas, Oct.----. November 11, Armistice Day, has been set as home coming date this year for graduates and ex-students of Texas Technological College. On this date Texas Tech plays its second Southwest conference game of the year, with the Bears of Baylor University. W. E. Street, chairman of the Tech alumni association, announces that there will be a luncheon and program at noon for the visitors and that a dance will be given in the gymnasium that night. The game is to be in the afternoon.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Nov.---. The team of six students from Texas Technological College won sixth place in the senior college livestock judging contest of the American Royal Livestock show just held in Chicago. Of the 14 schools competing, Ohio led followed by Oklahoma, Iowa, Illinois, Nebraska, and Texas Tech. Other teams finishing in order were Kansas, Colorado, Texas A. & M., Michigan, Minnesota, Missouri, Wisconsin, and Pennsylvania.

This makes the fifth year of competition for Tech in the American Royal. The Tech team ranked thirteenth in 1927, fourth in 1928, eighth in 1930, ninth in 1931, and sixth in 1932. Curtis Williams of Fluvanna won first in cattle judging for Tech with 246 points out of a possible 250, and Harlan Howell of Brownfield was a close second in cattle judging with 241 points. This is the first year that Tech has had a team that placed first in any class of livestock.

Prof. Ray Mowery, coach of the team, accompanied the boys to Chicago. The team is composed of the following: Buford Browning, Fluvanna; E. C. Cauble, Stiles; Lanoy Hazel, Spur; Harlan Howell, Brownfield; Ben Jenkins, Gail; Curtis Williams, Lubbock.

LUBBOCK, Texas, Nov.---. Complete enrollment figures show that 1,951 students are attending Texas Technological College during the present term.

LUBBOCK, Texas, Nov.----. Following is the standing of the Border conference teams with the schedule for the week:

TEAM	WON	LOST	TIED	TOTAL	PERCENT
Texas Tech	1	0	0	331	1000
Arizona University	3	2	0	86	750
Flagstaff Teachers	1	1	1	41	500
Arizona State	1	1	1	55	500
New Mexico Aggies	0	2	1	127	250
New Mexico University	0	1	2	42	250

LAST WEEK'S RESULTS

Arizona State	15	vs	Texas Mines	14
Flagstaff Teachers	0	vs	New Mexico Aggies	7*
New Mex. Univ.	6	vs	Arizona University	13*
Texas Tech	14	vs	Baylor University	2

*-- Border Conference Games

THIS WEEK'S SCHEDULE

Texas Tech vs New Mexico University, at Albuquerque

LUBBOCK, Texas, Nov.----. The Texas Tech Matadors are starting down the home stretch of the greatest season in the school's history as they work out for the game with the New Mexico Loboes at Albuquerque next Saturday, November 19. This is a Border States Athletic Conference game. Tech is not supposed in the coming fray to lose any of her standing of 1,000 percent, although the New Mexicans are preparing to put up a strong fight.

The Loboes went down before the Matadors last year on the Tech field 32 to 7.

The game with Simmons University at Lubbock on November 24 will wind up the season for the Matadors. There is a good deal of unofficial talk regarding a post season game with some of the outstanding teams of the Southwestern Conference, and fans in West Texas are exceedingly anxious to see the scarlet clad warriors, who have already piled up a total of 331 points against their opponents, pitted against the country's best ball toters.

LUBBOCK, Texas, Nov.----. Following a recommendation by the faculty of Texas Technological College that the semester plan be substituted for the present three-term plan now in effect, the regents of the institution have given their approval to the proposed change. The matter is now in the hands of the administrative council, and according to President Bradford Knapp it is probable that the school will go on the semester basis beginning with the fall term in 1933.

This will place Tech in line with about 80 percent of the leading institutions of the country, and also with Texas state schools. President Knapp believes that it will effect economies in the management of the school.

LUBBOCK, Texas, Nov.----. The 1932 Texas cotton crop of 4,063,000 bales now in prospect will be 35 percent of the total U. S. crop of 11,425,000 bales, according to an analysis of the recent government report as made by Dr. J. O. Ellsworth, head of the department of agricultural economics of Texas Technological College. Thirty-eight percent of the 36 million acres in the United States devoted to cotton are in Texas.

Texas yields of cotton for the past ten years average 126 pounds per acre compared to 151 pounds for the entire nation. Florida with an average yield of 124 pounds per acre is the only state with a

yield than Texas, while California, Arizona, and New Mexico have an average yield of more than 300 pounds per acre. The 1932 yield prospect for Texas is 140 pounds compared to 149 for the entire cotton belt.

Texas is one of the 18 states whose crop yields for 1932 are above their ten year average, based on a period including 33 crops. The yields of all crops in Texas for 1932 are 101.7 percent of the ten year average. Thirty states show a decrease in yield, some as much as 21 percent.

Texas will produce in 1932 57 percent of the grain sorghums grown in the United States. The total crop will be about 16 million bushels of which the Texas crop will account for about 67 million bushels.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Wheat prices rarely advance enough during the crop moving season to pay for storage on the farm, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College. Prices to Texas farmers have advanced from July to December in 17 of the past 24 years, declined in six of the 24 years, and remained the same one year. Excluding advances of 27 cents in 1914, 67 cents in 1916, and 39 cents in 1924, the average advance has been eight cents over the five-month period from July to December.

Record low prices of 28 cents a bushel were paid farmers in West Texas on October 26, the same day that 44 cents, the lowest price in 70 years, was recorded in Chicago.

The increase in world shipments of wheat which usually get under way in August was delayed about one month this year, making the weekly average in October almost double that of August. Shipments are still below the level of the last two years.

The world crop will be slightly larger this year than last. Three and one quarter billion bushels will be produced in northern hemisphere countries, an increase of one percent over last year. The total European 1932 production is 75 million bushels larger than last year, which means less wheat will be imported.

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From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Nov.----. Following is the Border conference standing and Thanksgiving week schedule:

	Won	Lost	Tied	Percent	Season's Total
Texas Tech College	2	0	0	1.000	370
Arizona University	3	2	0	.750	86
Flagstaff Teachers	1	1	1	.500	41
Arizona State	1	1	1	.500	55
New Mexico Aggies	0	2	1	.250	166
University New Mexico	0	2	2	.125	48

Last Week's Results

Texas Tech	39	University New Mexico	6
Arizona University	0	San Diego State (coast)	13
New Mexico Aggies	39	N. M. Normal University	0

Thanksgiving Day Schedule

University of Arizona	vs	Oklahoma Aggies	at Tucson
New Mexico Aggies	vs	Military Institute	at Roswell
Arizona State College	vs	Flagstaff Teachers	at Phoenix
Texas Tech College	vs	Simmons University	at Lubbock

LUBBOCK, Texas, Nov.---. Turkey prices normally advance two to four cents a pound from November to December according to Dr. J. O. Ellsworth, head of department of agricultural economics in Texas Technological College.

In the past 19 years prices paid Texas farmers for turkeys lowered from November to December in four of the years. Prices advanced less than one cent per pound four years, one to two cents a pound three years, two to three cents a pound one year, three to four cents a pound two years, four to five cents a pound two years. Prices advanced more than five cents a pound in three of the 19 years. The largest advance was six cents a pound in 1921.

The highest price in November was 28 cents a pound in 1928. In that year the average price lowered five cents a pound from November to December.

The highest price for December was 31 cents in 1921, the price having risen from 24 cents in November.

LUBBOCK, Texas, Nov.---. Dr. Bradford Knapp, president of Texas Technological College, will be introduced at the Texas State Teachers association in Fort Worth in a short address Saturday morning, Nov. 26. He will also address the Texas Vocational association at a breakfast Saturday. Approximately 20 members of the Tech faculty will attend the meeting.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Nov.---. Seventy percent of the 495,000 farms in Texas are classified as cotton farms according to the 1930 U. S. census, states Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College. Sixty-five percent of the farms of the west South Central census district, including Arkansas, Louisiana, Oklahoma, and Texas, are classed as cotton farms.

Six and one-half percent of Texas farms are general farms, three percent are cash grain farms, and one and one-half percent are dairy farms. Three percent are stock ranches.

The general type farm averages 150 acres, the grain farm 460 acres, the cotton farm 110 acres, and the ranch 4,100 acres. Wyoming is the only state in the Union with larger stock ranches than Texas. The ranches in Wyoming average 4,200 acres.

LUBBOCK, Texas, Nov.---. President Bradford Knapp of Texas Technological College is to speak at a banquet Monday night, November 28, during a meeting of the bi-district extension workers at Spur.

By Geo. W. Woodbury, Assoc. Prof. Horticulture
Texas Technological College

LUBBOCK, Texas, Nov.---. Tulips, narcissus, hyacinths and other bulbous plants are among the most important of our early spring flowering plants. In order that the greatest success be attained with these plants, it is necessary that they be given particular attention at this time of year.

Before a bulb of any kind is able to produce a satisfactory flower, it must develop an adequate root system. Bulbs planted too late in the season, on account of low temperatures, often fail to develop this root system, and a weak bloom is likely to result. On the other hand, however, bulbs planted too early in the fall immediately send forth both roots and tops. If the tops appear too soon above the ground, they ultimately become frozen. A mulch of grass clippings or similar litter may sometimes serve to prevent this occurrence. Plantings made during the past two weeks or during the remainder of the month will no doubt produce satisfactory results, other conditions being suitable.

In preparing the ground for the bulbs the most essential thing is to see that the soil is well pulverized, and worked over to a depth of from six to eight inches. While it has been shown in a few experimental cases that commercial fertilizer gives good results, its use is not generally recommended. If one wishes to try it, he should use a complete fertilizer with which he is familiar and see that it does not come in direct contact with the bulbs. Well rotted manure is of importance in providing organic material in increasing the

(More)

water-holding capacity of the soil. It also aids in securing drainage. Fresh manure should not be used, but if it has been previously applied to the beds for other plants, its effect will be satisfactory. Organic material applied in the form of grass clippings or other litter and given a chance to decompose, will give good results. German peat, although somewhat expensive, will serve an excellent purpose. A loose, well drained, fairly rich garden soil is well suited for most of our bulbous plants. Watering will probably not be necessary at planting time nor later unless the soil is extremely dry. It should be remembered, nevertheless, that bulbs must have moisture in order to succeed.

All of these bulbs may be planted at a depth of from four to six inches. Too shallow planting will result in growth too early next spring, with injury resulting from late freezes. The distance apart for the bulbs will be governed somewhat by the size of the bulbs; for tulips, from six to eight inches is probably most satisfactory, while narcissus and hyacinths may be given more room, depending somewhat on the space available.

It is not a difficult matter to plant a few bulbs in flower pots and force them in the house for winter flowering. With the possible exception of paper-white narcissus, all bulbs should be first allowed to remain, after being potted, in a cool, dark place for several weeks before bringing them inside. This will give the roots an opportunity to develop before the top starts to grow. Plant the bulbs in a pot four or five inches deep. Paper whites may be set close together with several in a pot. Tulips and hyacinths need more room; a four inch pot being suitable for one bulb. Place a piece of broken crock or some coarse gravel over the drainage hole.

Water them well, place them in a cool location out of doors and cover with several inches of soil. A dark cool cellar serves the same purpose as burying. The narcissus may be brought inside at intervals from now until February for continuous bloom.

Failure in forcing bulbs often results from bringing them too rapidly from out of doors into a warm room. The process should be somewhat gradual. Set the pots in a cooler part of the house for a few days in a not too sunny window until some good strong green growth is produced.

A complexity of names, both common and scientific, often confuses the individual who is buying bulbs. The Darwin tulips are the ones most popular for growing in the garden and also for forcing. There are a good many varieties in this type, any of which may be chosen, depending on one's taste for color. Darwins grow on long stems, produce large goblet-shaped blooms and are for the most part self-colored. The early tulips are referred to as Dutch tulips. They may be obtained both in the singles and doubles and in a multitude of colors. Space does not permit of a complete classification of all the tulips. Suffice it to say that, besides the above, there are for the ardent gardener a number of rarer types of great beauty.

While the paper-white or polyanthus narcissus is the most widely used for forcing, both by the florist and in the home, this species is not entirely suitable for outdoor planting. The so-called trumpet daffodils and double daffodils are all species of the genus narcissus and are the ones most often used out of doors, both in beds and in the edges of shrub borders for naturalizing. The true jonquils also belong to the narcissus group. They are characterized by round, rush-like leaves and relatively small, yellow flowers, two to six of which are borne on a single stem. They are perfectly hardy and an old garden favorite. Other narcissus which are often planted out of doors include the poet narcissus and the incomparabilis types.

Hyacinths are excellent for growing either in the house or out of doors. If one is to force them indoors, they should be given an opportunity to develop a good root system and handled as above recommended. The bulbs, which should be of good size, come in a variety of colors, ranging from white through yellow, blue, pink and lavender.

In writing about bulbs, one should not fail to mention the crocus, some of which flower in the fall and some in the spring. For bloom next spring they may be planted now. Crocuses prefer a sunny location which is not too moist. Although the bulbs are small, they should be planted as deeply as tulips and other bulbs. Planted several in a group in the grass around the shrubs, they are especially attractive and will persist for several seasons.

12/2/32

LUBBOCK, Texas, Dec.----. Declaring that Texas Technological College meets the needs of West Texas and that the State would not save anything by adopting the recommendations of the legislative efficiency committee to transfer technical courses to A. & M. College and the University of Texas, Dr. Bradford Knapp, president of Texas Technological College, outlined to a convocation of faculty and students his opposition to the proposals. He pointed out that West Texas was supporting the schools of agriculture, engineering, and home economics, that the distances to other institutions would be too great, that an educational institution ought to be closely correlated with the needs of the people it serves, and that the cost per student at Texas Technological College is less, according to the committee's own figures, than at any of the other major state schools.

While pledging himself and the institution to every possible economy and constructive efficiency measure, Dr. Knapp said he did not believe the people of Texas would be willing to make only a liberal arts college out of Tech when the wisdom of the founders of the school had been already so abundantly justified. "The objectives of this institution, its history and development," Dr. Knapp urged, "are matters of supremely great interest. For many years there was a demand on the part of West Texas for an educational institution. This demand was crystallized by an act of the legislature in 1923 creating the Texas Technological College, and providing the scope of work that the institution should undertake. I have been struck with the scope and view which the men who originally conceived the idea had regarding the needs of this section of the state. It is perfectly apparent that they wanted a school where practical things were taught.

Declaring that other institutions would not meet the needs of West Texas, Dr. Knapp said, "an educational institution ought to be closely correlated with the needs of the people. It ought to be in line with the thoughts of the people, and it is my conception that this institution is organized and has its objectives in line with the thoughts and purposes of the people of this great section of the state. I believe that education ought to be a judicious intermingling of those things which are useful, practical, and valuable in everyday

life, accompanied by a mental, intellectual, moral, and spiritual training of the individual, and accompanied by that general cultural information which leads us to the enjoyment of life," and he continued:

"And so frankly, I just can't see Texas Tech without any agriculture, engineering, or home economics. And I want to say definitely that I do not believe that an institution, as noble as it might be, in which nothing but the liberal arts are taught, would be suitable to the character of the people we have in West Texas. If I have any reaction to the people of this section, it is that they are virile, resourceful, energetic, determined people who want to work and who are not afraid to work, and who want their young men and women prepared, not for days of idleness or the white-collared jobs, but prepared to be unafraid of the eventualities of life."

A greater percentage of the graduates of the school of agriculture in Texas Technological College are actually engaged in farming than the graduates of any other agricultural school within his knowledge, Dr. Knapp declared.

Speaking of the democracy of education, President Knapp said: "Education must be of the people; it must be near the people; it must be for the people -- democratic. I do not say this in criticism of any institution in America, but whenever a state gets to the point where all its thinking is dominated by a few of the men at one institution, it is not democratic. The democracy of education in Texas depends upon having different points of view. I want to see a great University of Texas. I want to see a great Texas A. & M. College. There is no jealousy in my heart regarding the destinies of either of these institutions, but I know it is better for the people of this state that we have more than two institutions contributing their ideas, thoughts, and purposes to the life of the people of this great commonwealth. I believe that this institution was conceived and established pretty largely out of the desire of the hearts and minds of the people of West Texas for some institution that might be expressive of the life of the people of West Texas.

"All of this is in the name of economy. By the very figures of these research committees, the average cost per full time student, which means a student taking an average of forty-five term hours per year in this institution, or thirty credit hours in institutions where they have the semesters, at Texas Technological College is less than

at the University of Texas, Texas A. & M., College of Industrial Arts, Texas College of Arts and Industries, Sam Houston State Teachers College, Stephen F. Austin State Teachers College, Sul Ross State Teachers College, and West Texas State Teachers College. At eight of the state institutions it costs more per full time student than it does at Texas Tech for the state to educate a student. If you take both the summer term and the regular term it costs less at Tech per student than at eight other state supported institutions. And so I contend that if all students were transferred from this institution it would not save the state one single, solitary cent.

"Statistics prove that the larger the institution grows, after a certain figure, you do not get a corresponding decrease in the cost per student. Some of the most expensive institutions in America are some of the largest. There is much evidence to show that the institutions between two and three thousand students are the most economical. I prepared a table of seventy-two institutions in America and found that every one, except one, exceeded the cost at Tech, including Alabama Polytechnic Institute, from which I came here, University of Arizona, University of Arkansas, University of California, Colorado Agricultural College, Connecticut Agricultural College, University of Delaware, University of Georgia, University of Idaho, University of Illinois, Purdue University, and on down the line.

"There are more students at this institution taking agriculture during the past year than at such schools as the Colorado Agricultural College, Wyoming Agricultural College, Idaho University, Montana Agricultural College, Arkansas University, University of Nevada, University of New Hampshire, University of Vermont, and many others. We have more engineering students than seventy odd of the chief engineering institutions in America.

"Texas Technological College is doing the best today in the economic expenditure of its funds of any institution in Texas. It expends a larger proportion of its total funds for instructional work than any other institution supported by the State of Texas. It spends a less amount of money for its administration and cost of up-keep and plant operation than any other institution in Texas."

LUBBOCK, Texas, Dec.---. Prices paid to Texas farmers on November 15 were higher than those paid to United States farmers as a whole for seven agricultural products out of the 25 commodities included in a study conducted by Dr. J. O. Ellsworth, head of the department of agricultural economics at Texas Technological College. Texas prices were lower than the average for 18 of the 25 products.

Commodities which were higher in price than the United States average include hogs, sheep, wool, corn, potatoes, and apples. Prices which were lower include wheat, cotton, hay, beef, cows, horses, mules, chickens, turkeys, eggs, and butter.

Classified according to groups and compared to pre-war prices, grains were the lowest on November 15 and poultry products were the highest. On November 15, farmers received 34 percent as much for grains as they did in 1910 to 1914. For poultry products they received 115 percent of the 1910 to 1914 price. Other groups compared to pre-war were fruits and vegetables, 57 percent; meat animals, 57 percent; dairy products, 80 percent; cotton, 47 percent.

The above figures are increasingly significant when compared to prices paid by farmers. The last complete figures for this class are for September, and show that prices paid for maintenance of the farm family were 190 percent of the 1910 to 1914 average. Prices of commodities used in farm production were 106 percent of the pre-war average. Prices for machinery were 149 percent and prices of building material were 126 percent.

12-7

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Dec.----. A simple and inexpensive method of making paleographic wall maps for use in teaching elementary students in geology has been devised by Dr. Leroy T. Patton, head of the department of geology in Texas Technological College. Following a recent article in "Science", in which Dr. Patton explained how these maps are made and used, he received a letter from one of the large science supply houses of the country asking permission to manufacture them in quantities for the trade. Dr. Patton has been using these maps for some time in his teaching here and he gladly gave his permission for their manufacture.

LUBBOCK, Texas, Dec.----. Of the 1951 students enrolled in Texas Technological College, church preference or membership as given at registration show 708 Methodists, 596 Baptists, 180 Presbyterians, 149 Church of Christ, 137 Christian, 27 Catholic, 23 Episcopal, 10 Lutheran, seven Christian Science, three Evangelical, three Latter Day Saints, two Greek Orthodox, two Nazarene, one each Confucian, Congregational, Fundamentalist, and 101 no preference.

LUBBOCK, Texas, Dec.----. Miss Annah Jo Pendleton, professor^{of speech} at Texas Technological College, was elected treasurer of the Texas Speech Teachers association at a meeting held in Fort Worth recently.

Miss Ruth Pirtle, head of the department, was named chairman of the committee on speech correction. Under her supervision, the committee will publish bulletins to be distributed through the Texas public schools.

Sixteen students majoring in speech at Texas Technological College are conducting a speech correction clinic in the Lubbock public schools under Miss Pirtle's supervision. Two hours of scientific correction drill are given in every school each week. Students keep charts on defective cases and make weekly reports to the supervisor. More than 100 pupils were treated during the spring term last year for defects ranging from slight lisping to cleft palate.

LUBBOCK, Texas, Dec.----. The Matador band at Texas Technological College presented Miss Helen Barstow of Albany as band sweetheart at their first annual dance recently. Proceeds from the dance will be used for purchase of new band uniforms.

LUBBOCK, Texas, Dec.----. The senior class gift to Texas Technological College for 1933 will be selected by a committee composed of President Bradford Knapp and Professor B. F. Condray, class sponsors; Basil Hill of Lamesa, James Loughridge of Waco, and Carl McAdams of Gordonville, members of the class. The gift, which will be dedicated during the spring term, will be chosen for its permanence and usefulness to the college. Eugene Edwards of Fort Worth is president of the class.

By Geo. W. Woodbury, Assoc. Prof. of Horticulture
Texas Technological College

LUBBOCK, Texas, Dec.----. When the first killing frosts have destroyed the tops of dahlias and cannas, the roots or fleshy underground parts should be dug and properly stored. This applies also to gladiola which have been out of bloom for some time, and the tops of which have died.

In general, all of this material requires a storage condition which is cool and relatively dry. If storage is too warm, evaporation takes place rapidly and the roots or bulbs will be damaged. The material, if kept too moist, will be damaged by rot organisms. A temperature of about 40 degrees F. is recommended. A dry cool cellar will serve the purpose, or an attic which is not too warm.

Dahlia roots should be dug carefully to avoid breaking the crowns. After the soil on them has dried sufficiently, it may be easily shaken off, and the roots are ready for storage. Some growers prefer to store them in dry sand in boxes or barrels. This method reduces drying-out to a minimum, and will sometimes prevent growth while in storage. If one has a few choice roots, the following method may be used. The roots, after having been washed free of soil, are dipped in a pail about two-thirds full of water, over which is a layer of melted paraffin. The temperature of the water and the paraffin should be from 160 to 170 degrees F. Paraffin of a high melting point should be used. Immersion should be done quickly, or injury is likely to result. If the wax is too cool, too thick a layer will be formed, and the paraffin will crack off. A second dipping of the roots may be made if complete covering is not accomplished at first. This method may be used with equal success on cannas.

While some gardeners prefer to leave dahlias and cannas as well as gladiola in the ground over winter, this practice is not recommended. In the case of the dahlia, too early growth results the following season, bringing the plants into bloom at the hottest season of the year. It also results in too much growth from the undivided crown of the previous year. With the gladiolus, there is danger of losing the mother bulb as well as the small bulbs or cormels which form at the base. The soil cannot be properly worked if the bulbs are to be left in the ground. Cannas soon spread out, become crowded and produce unsatisfactory growth if not dug up and the crowns divided.

Jan. 13, 33

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Jan.----. Three hundred new students have registered at Texas Technological College this term, bringing the total for this session to 2248. The total enrolment for last year was 2053, making a net gain of 195 at this time. New students expected to enter at the spring term March 21 are due to bring the year's enrolment to a new high mark for any long term.

LUBBOCK, Texas, Jan.----. Basketball games on the schedule of Texas Technological College for the remainder of the season are: Sul Ross at Alpine January 16, New Mexico A. & M. at Las Cruces January 17 and 18, Canyon Teachers at Canyon January 20 and 21, Simmons University at Abilene January 23 and 24, Oklahoma City University at Lubbock February 1 and 2, New Mexico Military Institute at Roswell February 6 and 7, New Mexico Normal University at Las Vegas February 8 and 9, New Mexico University at Albuquerque February 10 and 11, Simmons University at Lubbock February 16 and 17, and Canyon Teachers at Lubbock February 23 and 24.

LUBBOCK, Texas, Jan.----. President Bradford Knapp of Texas Technological College has been appointed a member of the National Council of Boy Scouts of America.

LUBBOCK, Texas, Jan.----. Governor Miriam A. Ferguson has been presented with a coat which was entirely a product of Texas Technological College. The wool was from sheep belonging to the school of agriculture, the cotton in the coat was grown on the campus. Both the wool and cotton were cleaned, spun, woven, and dyed by students in the department of textile engineering. A student in the school of home economics made the cloth into the finished coat. It was presented to the Governor by President Bradford Knapp with the compliments of the college.

LUBBOCK, Texas, Jan.----. Prof. Carl D. Brandt, head of the textile department of Texas Technological College, is conducting an experiment to determine whether or not the tensile strength of cotton is increased by leaving it on the seed for a time after being picked. It is said that old Southern planters often held their cotton for this purpose for two weeks or more before ginning. The experiment will require a year to determine definite results.

1/13

LUBBOCK, Texas, Jan.---. "Failure of our monetary system, and not overproduction, is the principle cause of our present depression," according to Dr. J. O. Ellsworth, head of the department of agricultural economics at Texas Technological College. He continues:

"Just because overproduction at times does cause low prices, we are prone to attribute the present low prices to that cause. Statistics do not confirm such an idea in the present condition. It is true that goods in some cases are accumulating, but such surpluses are the result of the depression and not the cause of it. Unemployed consumers are poor customers.

"Authentic production data, compiled by Warren and Pearson of Cornell University, indicate that the total production in the United States indicate that the total production in the United States increased 1.7 percent per year from 1840 to 1915, and only 0.6 percent per year from 1915 to 1929. Similar conditions apply to the production of physical goods for the entire world. Production has increased less since 1915 than for the 75 years previous.

"If only the prices of a few commodities were low we might justly think overproduction to be the cause; however, when all goods are low in price some other factor must be at the bottom. Price is the ratio of the supply and demand of goods to the supply and demand for gold. Gold, the basis of our money system, acts like any other commodity. When it is over abundant it is cheap and when traded for other goods the goods are high priced. This situation existed during the war when most all nations, including the United States, were practically off

(MORE)

the gold standard. Nations were not bidding for gold, so gold was cheap and the price of goods was higher in terms of cheap gold. After the war governments again began to bid for gold, making it higher and higher in price and the price of goods consequently continued downward.

"We need an annual increase of 5.6 percent in our gold supply to care for the increasing needs. In 1932 we needed 32,000,000 ounces of new gold; we mined only 24,000,000 ounces. This means the supply did not equal the demand, thus gold advanced more in price and the price of goods went down.

"Debts and taxes were contracted largely at a price level of 1926 to 1929. At that time all debts amounted to 56 percent of our national wealth. In 1932 debts were 85 percent and in 1912 they were 34 percent of our wealth. Business is unlikely to materially revive until either the debt is lowered to the price level or the price level is raised to the debt level. Debts and taxes may be lowered through the process of continued bankruptcies and receiverships, and will require ten to thirty years to complete. This is the process of deflation. Reflation, or the raising of the price level, may be done by Congress revaluing the dollar. We have 93 billion grains of fine gold back of our United States dollars. At 23.22 grains to the dollar we have four billion dollars. Revalued at, say, 15 grains to the dollar, we would have six billion dollars, or enough to restore the 1925 to 1929 price level. This might also be accomplished by monetizing silver.

"A more satisfactory solution seems to be one favored somewhat in England at the present, which consists of summetallism, or placing a certain number of grains of gold plus a certain number of grains of silver back of the dollar. The exact quantity should vary from year to year in ratio to the variation of new gold and silver coming into use. Either the quantity of metal back of the dollar must vary or the value of the dollar will vary. All business needs is a stable dollar or stable value in the medium of exchange. With a uniform value of the dollar, the value of any one commodity would vary with its supply and demand. At present, this is not the case."

2/25/33

LUBBOCK, Texas, Feb.----. Students and teachers from 17 Plains counties will gather at Texas Technological College April 14 and 15 for the district meeting of the Interscholastic League. Dr. A. W. Evans Tech education department head, is director general. The following counties will participate: Andrews, Bailey, Cochran, Crosby, Dawson, Dickens, Floyd, Gaines, Garza, Hale, Hockley, Lamb, Lubbock, Lynn, Martin, Terry, and Yoakum.

LUBBOCK, Texas, Feb.----. Elements of a good education, according to President Bradford Knapp of Texas Technological College, are:

1. Knowledge of and skill in the use of the English language.
2. A good knowledge of the history of our civilization.
3. A thorough understanding of our government.
4. Training in economics and sociology.
5. Some knowledge of health, hygiene, foods, nutrition, diseases and their prevention.
6. Some subjects should be taken for their cultural value in the development of individual knowledge and appreciation of art, literature, foreign languages, and the esthetic side of life.
7. Training for a definite life work, in some technical pursuit or professional line which will fit the student to perform service in an organized society.

LUBBOCK, Texas, Feb.----. Examinations for the winter term at Texas Technological College will be given March 13 to 17. Spring term registration will be March 20.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Feb.---. Dr. R. A. Studhalter, head of the biology department at Texas Technological College, has been elected president of the Plains Museum society, which held its annual meeting in Lubbock recently. Professor F. A. Kleinschmidt, head of architectural engineering at Tech, was named vice-president. Honorary vice-presidents are: L. F. Sheffy of Canyon, Floyd V. Studer of Amarillo, George Doughty of Post, and Victor Smith of Alpine.

Robert Butler, a farmer of McAdoo in Dickens county, won first award in an exhibition of West Texas artists with an oil portrait of his daughter entitled "Four Years Old". Second place went to Mrs. E. L. Reed of Lubbock. Of the 39 entries, three others received honorable mention.

LUBBOCK, Texas, Feb.---. Mrs. Eunice J. Gates has received notice that she has been awarded the doctor of philosophy degree by the University of Pennsylvania. Mrs. Gates is an assistant professor of Spanish in Texas Technological College. Mrs. Gatés received her B. A. degree from Southwestern University, Georgetown, Texas, in 1921 and her M. A. from the same school in 1924. She took an M. A. degree from the University of Michigan in 1927.

LUBBOCK, Texas, Feb.----. Engineering graduates of Texas Technological College are willing to work and have a very fine attitude toward their jobs, according to officials of a large steel concern which employs several Tech graduates. O. W. Irwin, vice-president of the Truscon Steel Co., Youngstown, Ohio, says in a letter to Tech officials that "Texas Technological College graduates in civil engineering are valuable employees and have a thorough theoretical preparation." It is stated further that they have "an excellent attitude toward their work."

D. W. Hibbard, chief engineer of the same concern, writes that "When the wheels begin to turn and more business comes in, you can look to us for placing four or five of your graduates every year, provided you hold standards as high as you have in the past." It was added further that Texas Technological College graduates, in contrast to graduates of many eastern engineering schools, have been found to be "willing to work and work hard for extended periods while they are getting that kind of practical experience which turns their engineering theoretical training into practical judgment."

LUBBOCK, Texas, Feb.----. Prof. W. L. Stangel, head of the department of animal husbandry, Texas Technological College, is president of the Panhandle-Plains Dairy Show. Plans are under way now for the next meeting at Plainview April 10 to 13.

LUBBOCK, Texas, Feb.----. The fourth annual session of the South Plains Farm and Home Conference was held in the livestock judging pavilion of Texas Technological College Feb. 24. President Bradford Knapp spoke on cooperative marketing as an aid in the solution of the present farm problem.

"The cooperative problem is to take a large part of the products of its members and to assemble them together for marketing," Dr. Knapp explained. While he did not claim that cooperative marketing would solve the problem, he did say that it would help since it would insure a higher return to members on their products.

"One farmer in ten in the United States sells through cooperative effort," Dr. Knapp pointed out, "while less than that do their buying through cooperative effort. In some states one farmer out of three buys cooperatively." In Texas the 1930 census showed that 8,459 farmers reported belonging to a cooperative association. Five years before there were 29,000. In Minnesota the cooperative membership increased from 78,000 in 1920 to 95,000 in 1930.

LUBBOCK, Texas, Feb.----. The Texas Tech Golf club has been organized and a tournament will be held to select a representative for the Greenbelt golf tournament to be held this spring. Billy Holmes, Shamrock, winner of the Tech championship for the last two years and also of the Greenbelt championship at Electra last year, is expected to give the field some tough competition again this year.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Feb.---. The number of farms in 50 West Texas counties increased 98 percent from 1920 to 1930, according to Dr. J.O. Ellsworth, head of the department of agricultural economics of Texas Technological College. During the same period the number of farms in 50 East Texas counties of the same area increased six percent.

From 1920 to 1925 the increase in the number of farms was 39 percent in West Texas and a decrease of six percent in East Texas. From 1925 to 1930 the increase was 42 percent in West Texas and 13 percent in East Texas.

LUBBOCK, Texas, Feb.---. Texas crops in 1932 yielded 108 percent of the 10 year average, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College. The average yield of all crops for the United States was 98.6 percent of the previous 10 years.

Acreage devoted to all field crops decreased in Texas from 1931 to 1932 by two percent, while acreage in the United States increased about one percent.

2/25

From Texas Technological College Free News Service -- Cecil Horne.

3/9/33

LUBBOCK, Texas, March---. Ten students in stagecraft at Texas Technological College are constructing marionettes under the supervision of Miss Ruth Pirtle, head of the speech department, with which they plan to present an early farce, "Pierre Patelin", and a vaudeville program soon. The class is not only making the puppets, but will also build the stage, install the lighting system, study settings and costumes, and will speak the parts and manipulate the marionettes.

Miss Pirtle studied under Meyer Levin, author and internationally known puppet maker, and Louis Bunin at the Marionette Studio in New York city, where Tony Sarg's marionettes are made and mended.

LUBBOCK, Texas, March---. Four debating teams from Texas Technological College will enter the annual tournament at Southeastern Teachers College, Durant, Oklahoma, March 10 and 11, according to Miss Annah Jo Pendleton, coach. Representatives from colleges and universities in five states entered the tournament last year.

The four teams which will compete at Durant are: Garland Smith of Lubbock and Fred Barron of Wichita Falls; Carroll Thompson of Lubbock and Manuel DeBusk of Idalou; Eleanor Simmons and Mary Louie Shropshire of Lubbock; Helen Settle of Baird and Mary Louie Shropshire.

Tech debaters have just returned from a tournament held at Abilene, composed of twenty-one college teams in West Texas.

LUBBOCK, Texas, March---. Ray Thomas of Mexia, member of the first class to graduate in textile engineering at Texas Technological College, is employed in the textile division of the Goodyear Tire and Rubber company. Thomas had charge of the testing of the fabric which covered the framework of the giant dirigible Akron in the Goodyear laboratories at New Bedford, Mass. Thomas is now doing similar work in the construction of the Akron's sister ship Macon which is nearing completion.

LUBBOCK, Texas, March---. A number of girls, students in the home economics school of Texas Technological College, are wearing coats and dresses which they made themselves. The garments were made as a part of the laboratory work in a clothing course during the first half of the present term. The garments compare favorably in style and appearance to manufactured clothing.

LUBBOCK, Texas, March---. Textile students in Texas Technological College are weaving white woolen suiting which will be suitable for summer wear. The wool has been scoured, carded, and spun by the students, and they are combining it with rayon which is twisted into the wool.

LUBBOCK, Texas, March ---. Texas Technological College is exhibiting 14 steers at the Fort Worth Exposition and Fat Stock show. Six of these are Angus, five Herefords, and three Short Horns. There are 24 hogs being shown, nine Durocs, nine Hampshires, and six Poland Chinas.

Three professors and a number of students from Tech will attend. Professor W. L. Stangel, head of the department of animal husbandry, is superintendent of the swine division of the show. He has been an official since 1920 and has missed but one meeting since he first attended in 1912 while he was a junior in Texas A. & M. College.

Prof. Ray Mowery, coach of the Tech junior livestock team, and Prof. Fred G. Harbaugh, coach of the junior dairy cattle judging team, will attend. Headquarters for the Tech delegation will be at the Texas hotel.

LUBBOCK, Texas, March---. Pictures by two students of architecture in Texas Technological College have been selected by the College Art Association of New York city to be included in an exhibit selected to tour the United States and Canada. "California Poppies", by Everett Fairchild of Plainview, senior and editor of La Ventana, student yearbook, was chosen. A colorful pencil sketch of a vase by John F. Foster, Tech graduate of last year, was included in the group that will make the tour.

From Texas Technological College Free News Service -- Cecil Horne.

LUBBOCK, Texas, March---. Sock and Buskin, dramatic organization at Texas Technological College, will present a play, "End of the Dance" by Strode in the Texas Intercollegiate Dramatic tournament at Baylor College, Belton, Texas, March 24.

LUBBOCK, Texas, March---. The class in phonetics and speech correction at Texas Technological College will study 110 cases of children in need of clinical aid from the seven public schools of Lubbock during the spring term. Each student will spend two hours per week in one of the public schools giving clinical direction to children who are defective in speech, and will keep a record of her progress. The work is made possible by the cooperation of the public school superintendent and principals, according to Miss Ruth Pirtle, head of the Tech speech department and supervisor of the class.

LUBBOCK, Texas, March---. The Matadors of Texas Tech have closed the basketball season with 14 wins and seven losses. They were awarded the first Border conference championship in basketball.

From Texas Technological College Free News Service -- Cecil Horne.

LUBBOCK, Texas, March---. The seventh annual freshman livestock judging contest has just been held at Texas Technological College under the supervision of Prof. W. L. Stangel, head of the livestock department. In ten classes it was possible to make a score of 750. The ten high men out of 31 contestants with their score and home address are as follows:

J.T. Henry, Sterling City, score 685.
D. Marshall, Graham, score 652.
W. Wilson, Lake Arthur, New Mexico, score 650.
H. Wills, Fluvanna, score 615.
E. Perry, Lubbock, score 612.
W. Welch, Foard City, score 611.
A. McGinty, Eldorado, score 610.
J.H. Black, Seagraves, score 609.
G. Ball, Hobbs, New Mexico, score 607.
C. Littlepage, Tahoka, score 606.

The first contest was held in 1927 with W. G. Shepard high point man. High point men since then were: E. Y. Freeland, 1928; Buford Browning, 1929; Curtis Williams, 1930; Herman McArthur, 1931; and Henry Elder, 1932.

Officials of the 1933 show were: Curtis Williams, superintendent; Lanoy Hazel and Ben Jenkins, sectional leaders; E. G. Cauble, clerk; R.B. Davis, Plainview, A. C. Jennings, member of Tech's first livestock judging team, H. Harrell, and B. Browning were the judges.

W. Wilson, Lake Arthur, New Mexico, was high point man in beef cattle. S. Gordon, Itasca, was high point man in dairy cattle. C. Littlepage, Tahoka, was high point man in hogs. J.T. Henry, Sterling City, was high point man in mules and horses. D. Marshall, Graham, was high point man in sheep.

3/9

*File
news letter*

From Texas Technological College Free News Service--Cecil Horne

Lubbock, Texas, March---. Four West Texas boys, comprising the team from Texas Technological College, won first place at the Fort Worth Exposition and Fat Stock Show in the student dairy cattle judging contest. The Tech boys were first in Jerseys and first in Holsteins.

Total points scored by the Tech team were 3,149. Other colleges competing were Texas A. & M., Louisiana State University, and Oklahoma A. & M.

Individuals in the winning team were: Henry Elder, Cuero; J. D. Strickland, Silverton; Odis Holly, Spur; and Harlan Howell, Brownfield. Prof. F. G. Harbaugh was coach.

Holly won second place in the judging of all classes of livestock. He was high man in cattle and hogs and third in sheep.

*Sent group picture of team
to - { Associated Press
Star Telegram
Progressive Farmer
Horn & Ranch*

From Texas Technological College Free News Service -- Cecil Horne

3/23/33

LUBBOCK, Texas, March ----. Dr. Bradford Knapp, president of Texas Technological College, has been elected president of the Lubbock Rotary club.

LUBBOCK, Texas, March----. Rare books, reproductions of famous paintings, and textiles valued at \$5,000 have been donated by the Carnegie corporation to the architectural department of Texas Technological College. About 300 volumes are in the collection of books.

According to Prof. F. A. Kleinschmidt, head of the architectural department, he has accepted membership in the American Federation of Arts, Washington, D. C. Tech College was selected two years ago by the American Institute of Architects and the Carnegie corporation to be a center in which to propagate interest in architecture and art.

LUBBOCK, Texas, March----. "Romeo and Juliet" will be presented by speech students at Texas Technological College April 13, under the direction of Miss Ruth Pirtle, head of the speech department.

LUBBOCK, Texas, March---. March has been the low month for egg prices to Texas farmers five times in the past 24 years, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College. June has been the low month four times, April twice, May twice, February once, and in the other years the low price was the same in two or more months.

The average decline from February to the lowest price has been $6\frac{1}{2}$ cents per dozen and has ranged from two to 17 cents. The average price paid Texas farmers in 1932 was the lowest last May and was 6.9 cents a dozen. March and April were about the same at seven cents a dozen. With prices in March, 1933, at or near the low of 1932, the farmer wonders what may happen during the rest of this year and next year.

Four factors govern the price of eggs. There is a ratio between the demand and supply of eggs and the supply and demand of gold as money. The demand for eggs cannot materially increase until would-be consumers find employment. Improvement in general business conditions will be reflected in higher prices for eggs. On the supply side, there will likely be more eggs produced in 1933 than in 1932. There were from two to three percent more laying hens on farms January 1, 1933, than on the corresponding date in 1932.

Five percent more chickens were hatched in 1932 than in 1931. Egg production in 1932 was five percent lower than in 1931, and egg production the last three months of 1932 was 20 percent lower than for the corresponding months in 1931. The total production of eggs will probably be less in 1933 than in 1932. This factor together with the bidding of speculators who made a profit by storing in 1932, will help prices hold up as the season progresses.

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From Texas Technological College Free News Service--Cecil Horne

LUBBOCK, Texas, March---. The eighth annual vocational agricultural judging contest will be held at Texas Technological College March 27. Eighty teams from 30 schools in West Texas will participate, bringing about 300 boys and teachers to Lubbock for the meeting. Schools will be represented from as far east as Dublin, Sterling City on the South, Dalhart on the north, and the New Mexico line on the west.

Five major contests are on the schedule, according to Prof. Ray Mowery, superintendent, and a number of cups will be awarded. The events are listed as judging of livestock, plant production, poultry, dairy cattle, and farm shop.

The Lubbock chamber of commerce will give cups in the first three contests, the Standard Milling company will give a cup in dairy cattle, and W. A. Myrick, jr., will give a cup in the farm shop event. In the plant production contest the Kansas City Board of Trade will give a cup to the high team in grain judging, and the Texas Co-Op will give a cup in the cotton classing event.

A tri-state meeting of the Future Farmers of America will be held here at the same time with Vernon Howell of Guymon, Okla., national president, on the program. Pat Stout of Stockdale, state president, will also attend. The Lubbock chamber of commerce will give a dinner at night for the contestants.

LUBBOCK, Texas, March---. "Batching" is a common practice among men students of Texas Technological College. A recent questionnaire sent out by the college employment bureau revealed that 112 boys buy their own groceries, cook their own meals, and wash their own dishes. The average cost per month for room and board was \$11.32, of which \$6.29 was spent for groceries and \$5.02 for room and utility bills.

One student who lives in an apartment with four others makes his room and board by doing all the buying, cooking, and housecleaning for his roommates. Regarding this arrangement the boy says, "These other fellows are getting by a lot cheaper than they could board and they're helping me get through school. I don't mind the work. In fact I think it does me about as much good as a home economics course would." At night he cooks part of the dinner for the next day. He arises at 6 a.m. and prepares breakfast. Then, after getting off from school in the morning, he goes home to finish cooking dinner. He cleans house the afternoons he does not go to school. His roommates, who are quite satisfied with their housekeeper, say that he is especially good at buying. He buys large quantities of food at a time and spends hours in grocery stores comparing prices and hunting bargains.

A senior and a freshman who are roommates spend the least money "batching". Each pays \$2.85 for room and utilities, \$1.50 for groceries, and brings food from home valued at \$1.50, a total of \$5.85 per month spent for room and board. The senior, who has "batched" three years since he has attended Tech, attributes his economy to experience and to buying specials.

(MORE)

The student who spends the most money stays by himself. He pays \$10.00 for his room and \$12.50 for groceries. When asked why he does not board, he said, "I could take the money I spend "batching" and board, but the eats wouldn't be as good. And then, too, there is too much routine about a boarding house. Here I can eat when I get ready, sleep when I get ready, and study when I want to. Of course I have to work some, but what's a little work compared to my freedom?"

The average length of time which the students work per day in "batching" is two hours. Some work only fifteen minutes, while others put in as much as four hours.

Milk, butter, eggs, potatoes, syrup, bread, ham, bacon, steak, cheese, dried fruits, cakes, pies, jelly, jam, preserves, cereals, rice, beans, peas, lettuce, and other green vegetables are the foods the boys eat most. One boy, when asked what food he liked most, replied, "Spinach". Another told what he had to eat in the following words: "Beans, beans, and more beans."

Over three-fourths of the students have gained in weight since they have been "batching". Five have gained 15 pounds, and none have lost appreciably. All are in excellent health.

Twenty-seven students are getting groceries from home that amount to \$80.75 or \$2.99 worth apiece per month. The "batchers" are carrying on some other experiments in economy that would put the thriftiest housewives to shame. One group of boys found they were paying 21 cents a day for three loaves of lightbread. They wrote home for recipes, meal, and flour and began making cornbread and biscuit with the result that they cut down their bread bill \$3.30 per month.

One boy walks eight blocks to get milk for five cents a quart when he could have it delivered for seven cents. Another does his own tailor work, gets his roommate to cut his hair, uses no hair oil, uses baking soda for toothpaste, and shaving soap in place of cream. Some wash their own clothes while others send them home by parcel post.

Two boys do housework in exchange for their laundry. There are a number who shine their own shoes, darn their own socks, sew buttons on their clothes, and roll their own cigarettes. Nearly all rent, borrow, or share textbooks. Many attend few shows and buy few "luxuries", such as candy, chewing gum, and drinks.

Favorite ways of economizing on groceries are buying day-old bread at the bakery, getting butter and eggs through the mail from home, and buying large quantities of staple groceries at special prices on Saturday. No social stigma is attached to students who "batch" at Tech. They attend dances, teas, parties, and other entertainments with no fear of being embarrassed.

3/23

3/31/33

LUBBOCK, Texas, March---. First place in the Texas Intercollegiate Play tournament, held at Baylor College for Women, Belton, March 24 and 25, went to entrants from Texas Technological College for their presentation of "The End of the Dance", a one-act play by Hudson Strode. Representatives from Baylor university, Waco, and Trinity university, Waxahachie, also competed. The contest will be held at Lubbock next year.

John Louis Cook of Henrietta, Frances Kay Marcia of Fort Worth, Lloyd Marr of Lamesa, and Marjorie St. John of Roswell, New Mexico, made up the cast. Marr was awarded high honors for individual acting. Miss Ruth Pirtle, head of the speech department, directed the play.

LUBBOCK, Texas, March---. The interscholastic league meet for this district including eighteen counties will be held at Texas Technological College April 14 and 15. Approximately a thousand students attend the meeting which has been held at the college annually since its opening in 1925.

LUBBOCK, Texas, March---. The annual meeting of the Southwestern Journalism congress scheduled to meet with Texas Technological College in May has been postponed for this year, according to announcement by Cecil Horne of Texas Technological College, president of the congress. This action was deemed advisable by the executive committee on account of financial conditions. It is expected that the regular meeting will be held in the spring of 1934.

Member schools comprising the Southwestern Journalism congress are: Baylor College for Women, Baylor University, College of Industrial Arts, Louisiana State University, Southern Methodist University, Texas A. & M. College, Texas Christian University, Texas Technological College, The Tulane University of Louisiana, Trinity University, The University of Texas, and University of Oklahoma.

LUBBOCK, Texas, March---. A field trip in agricultural economics will be made this summer by students of Texas Technological College under the direction of Dr. J. O. Ellsworth, head of the department. All of the principal agricultural states in the Mississippi valley will be visited, including the livestock and produce markets in Chicago, St. Louis, Kansas City, and New Orleans. A week will be spent at the Chicago exposition.

The trip will be made in a chartered bus and will cover 5,000 miles. It will be open to agriculture students who have done as much as two years college work and will carry nine hours credit.

LUBBOCK, Texas, March 31,-- Dr. Bradford Knapp, president of Texas Technological College, has released the following statement regarding enrolment in the institution:

"Recently statements have been made that the University of Texas is the only state institution in the state increasing in enrolment. This statement is not true as far as the Texas Technological College is concerned.

"The total enrolment for the regular session at Texas Technological College from September 1 to date is 2,323. The enrolment for the session 1931-32 was 2,153; for the session 1930-31, 2,319; 1929-30, 2,353; 1928-29, 2,088; 1927-28, 1,682; 1926-27, 1,535; 1925-26, 1,043.

"The slump in enrolment at Texas Tech for the year 1931-32 was 200 below the highest enrolment in any year, namely, 1929-30. The enrolment for the present year, 1932-33, lacks only 30 students of being equal to the highest enrolment in the history of the institution. The increase in enrolment of 1932-33 over 1931-32 is 170 students, which is practically 8%. Thirty-four percent of the student body are taking courses in agriculture, engineering and home economics. On the basis of full-time students, the percentage is higher because students in technical divisions take the full course of study more uniformly than students in non-technical courses.

" The enrolment in technical courses consists of 206 in agriculture, 375 in engineering, 208 in home economics, to which should be added 294 taking courses in business administration, 125 in education, and 57 in chemistry. The balance are majoring in general departments of liberal arts.

"The average annual attendance at each term has been 1,900 students."

LUBBOCK, Texas, March---. Eight young women students at Texas Technological College have been named by a New York artist as the most beautiful from a large number of photographs submitted. Pictures of these young ladies will comprise the "Las Bonitas" section of La Ventana, college yearbook.

Beauties selected are: Pauline Cawthon, Clovis, New Mexico; Geraldine Durham, Hamilton; Helen Barstow, Lubbock; Wanda Butler, Lubbock; Lois Watson, Lubbock; Eva Ruth Brady, Decatur; Mary Earle Lofland, Vernon; Melba Watson, Lubbock.

LUBBOCK, Texas, March---. Coach Pete Cawthon announces the football schedule for the Texas Tech Matadors complete with the exception of one date, October 7. Scheduled games follow:

Sept. 30--Southern Methodist University at Lubbock

Oct. 7--Open

Oct. 14--University of Arizona at Tucson

Oct. 20--Louisiana Polytechnic at Lubbock

Oct. 28--School of Mines at El Paso

Nov. 4--Haskell Institute at Lubbock

Nov. 11--Simmons University at Lubbock

Thanksgiving--Kansas Aggies at Lubbock

100 copies

sent From Texas Technological College Free News Service -- Cecil Horne

4-13 - 33

LUBBOCK, Texas, April---. President Franklin D. Roosevelt ~~and~~ ^{is} ~~his two sons~~ are to receive white woolen suits made in the textile department of Texas Technological College from wool produced on the Plains.

Two Tech students, Leonard W. Curfman of Electra and Malcolm Martin of Lorenzo, both outstanding members of the Matador football squad, purchased the wool from a Lorenzo farmer, and they have scoured, carded, and woven it into yarn. They are weaving the yarn into white suiting which will be sent to Hart, Schaffner and Marx to be made into suits of the most approved style.

The raw wool sufficient to make the three suits weighed 170 pounds. After being thoroughly cleaned it weighed only 55 pounds.

Curfman and Martin are majoring in textile engineering.

LUBBOCK, Texas, April---. Coach P. W. Cawthon announces a two-year contract with Baylor university calling for two football games on the Texas Tech field between the Bruins and the Matadors. The first of the series will be played here November 17. The date for the 1934 game has not been definitely decided upon. This leaves only one open date on the Tech schedule this fall, October 7.

LUBBOCK, Texas, April---. The highest monthly price for hogs for the year paid to Texas farmers, as of the fifteenth of the month, has occurred in the four months, July to October, 13 times in the past 23 years, according to Dr. J. O. Ellsworth, head of the department of agricultural economics at Texas Technological College. The high month has been July twice, August four times, September four times, and October three times.

The low monthly price has been in December and January 16 times in the past 23 years, with December seven and January nine. June has been the low month three times; in June, 1932, the lowest price of any month in the 23 years was \$2.60 per hundredweight. The highest price for the 23 years was in August, 1919, with \$18.60 per hundredweight.

Texas prices are influenced by both general demand over the nation and by the supply of hogs in the main producing areas. Texas does not produce as much pork and hog products as are consumed within the state, hence supplies are at times shipped in from the corn belt.

Unless the new administration succeeds in artificially stimulating demand for pork by decreasing unemployment or artificially raise the price through price control, the chances favor hog prices remaining low through the early summer months.

(By Ed McKeever)

LUBBOCK, Texas, April---. Texas Tech's coaching school for the coming summer may eclipse in attendance and importance the largely attended school held last summer, according to Head Coach Pete Cawthon. The dates are July 31 to August 12.

The 1932 school had an enrolment of 473, and boasted such nationally known athletic coaches and authorities as "Pop" Warner, Hunk Anderson, Frank Carideo, Clipper Smith, Clyde Littlefield, "Phog" Allen, and Claude Thornhill. Yet for balance, variety, and meeting the individual needs of the coaches, the 1933 coaching school promises to surpass that of 1932.

For this year's school, Harry Kipke, All-American halfback of the 1922 Michigan Wolverines, will stress the short punt system of offensive and 6-3-2 defense. As head coach of the Wolverines Kipke has won 29 out of his last 30 games in Big Ten competition; and under his tutelage Michigan was awarded the Dickinson National championship of 1932.

Andy Kerr, dynamic mentor of Colgate university, will demonstrate the triple wing back formation, a variation of the double wing back system with a man in motion. Kerr has the distinction of winning over 80 per cent of his college games since 1917.

Bernie Bierman, formerly of Tulane university, and present head coach of Minnesota, will put on the single wing back technique of play stressing speed and deception rather than power. While coaching the Green Wave of Tulane, Bierman's team won 31 consecutive Southern Conference victories. Bierman's defense, the famous six-man line, and 6-2-2-1 defense, will also be illustrated.

(MORE)

Noble Kizer, head coach of Purdue university, and star guard of the 1924 Notre Dame team, will demonstrate the ever popular Notre Dame style of play. The shifting, deception, strong and weak side plays, and line play, will constitute the basis of Kizer's teachings.

Ray Morrison, head coach of Southern Methodist university and a member of the National Rules committee, will lecture on the new rules.

Craig Ruby, basketball mentor of Illinois University since 1923, and one of the greatest players ever produced in the Missouri Valley, will bring the Ruby system to the Southwest for the first time. Ruby will give the plays, the fundamentals, and technique of his system.

Major John L. Griffith, commissioner of Western Conference athletics will discuss administration and organization of athletics. Major Griffith is one of the most noted authorities in national athletics today, having served as director of athletics at Yankton college, Morningside college, Drake, and the University of Illinois, besides receiving the title of major for his work in the army.

Clyde Littlefield is without peer as track coach in the Southwest. His University of Texas teams have won national recognition.

Ed Gallagher of Oklahoma A. and M. is rated by many experts as the premier wrestling coach of the United States. Coach Gallagher will teach both wrestling and physical education.

Besides these headline coaches supplementary teaching and lectures will be given by "Doc" Sprague of Texas A. and M. on the treatment of injuries, Captain C. M. Woodbury of New Mexico Military institute on boxing, Clipper Smith of Santa Clara university, and Rip Miller of the Navy on the Notre Dame style of football.

4-21-33

LUBBOCK, Texas, April---. Cooperating with National Cotton Week, May 14 to 20, a cotton carnival will be held at Texas Technological College under the auspices of Phi Psi, national honorary textile fraternity. The object of the carnival will be to demonstrate the value of cotton and to encourage its use in wearing apparel.

Pretty girls, representing various campus organizations, civic and commercial clubs in Lubbock, and business firms, appareled in cotton costumes, will compete for selection as queen of the carnival. Types of garments may be sport, evening, informal afternoon, or house dresses, the only requirement being that they be made entirely of cotton.

LUBBOCK, Texas, April---. M. E. Ogdon, associate professor of government in Texas Technological College, has been awarded a fellowship in international law by the Carnegie Endowment. It carries a stipend of \$1500.

He may do the work at any large American university and is allowed the freedom of selecting his own subjects. All of his time, however, must be devoted to the general subject of international law.

LUBBOCK, Texas, April---. Dean J. M. Gordon of Texas Technological College is scheduled to deliver the commencement address to the senior class of Bellevue High school May 26. He will also deliver a Memorial Day address at Slaton May 28 under the auspices of the American Legion.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Thirteen candidates have entered the political race for 1933-34 student offices at Texas Technological College which will be held May 4 and 5, according to announcement in The Toreador, college weekly newspaper.

Entrants to date are: Rob O'Hair of Lubbock, for president of the student association; Bob Tracy of Houston, Calvin Hazlewood of Lubbock, and Lloyd Glover of Raymondville, for editor of The Toreador; Joe Harter of Marlin, Gus White of Borger, and Malouf Abraham of Canadian, for business manager of The Toreador; Bruce Zorns of Meadow, Byron Terrell of Lubbock, and Max Waghorne of Lubbock, for editor of La Ventana; and Marvin Messersmith of Fort Worth, George Long of Big Spring, and Walter Labaj of Granger, for business manager of La Ventana.

LUBBOCK, Texas, April---. Dr. R. A. Studhalter, head of the biology department at Texas Technological College, and Dr. L. T. Patton, head of the geology department, will lecture at the annual meeting of the Southwestern division of the American Association for the Advancement of Science in Las Cruces, New Mexico, May 1 to 4.

Dr. Patton will discuss geology field courses in colleges and universities, and Dr. Studhalter will talk on "One Aspect of the Ruffle Plant."

Representatives from Colorado, Arizona, New Mexico, and Texas will attend the meeting at Las Cruces, to which the New Mexico Agricultural college will be host.

LUBBOCK, Texas, April---. Dr. Harry L. Kent, president of New Mexico A. & M., Las Cruces, will deliver the seventh annual commencement address to the graduating class at Texas Technological College June 7. The baccalaureate sermon will be delivered by Dr. R. Thomsen, pastor of the Central Presbyterian church of Amarillo.

President Bradford Knapp and Mrs. Knapp will receive the graduates and members of the faculty at the president's home Friday evening preceding commencement. Formal academic processions will feature the exercises on Sunday and on commencement day.

LUBBOCK, Texas, April---. More than five thousand visitors registered at the annual engineering show just held at Texas Technological College, the largest attendance in Tech history. Hundreds of towns and communities in West Texas and New Mexico were represented.

Exhibits included a model of the Hoover Dam, a mural painting of "Eve in the Garden," a collection of reproductions from the Carnegie corporation, the Tesla coil which developed over a million volts of electricity, dynamos, gas engines, an ice manufacturing plant, a two-cylinder steam engine with 5,800 revolutions per minute that would develop over one-horse power, and many other products of engineering students.

In the textile engineering department visitors saw how wool and cotton were taken in the raw state and carried through each process until the finished cloth product evolved. Washing, dyeing, and spinning processes were demonstrated.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Prices paid to Texas farmers for butter decline on the average of two cents per pound from April to the usual low month in June or July, according to Dr. J. O. Ellsworth, head of the department of agricultural economics in Texas Technological College.

The lowest price for the year has been in the months of June or July 21 times in the past 24 years. The price has advanced from March or April to midsummer only three times in the 24 years.

The high price of the year has been in December or January in 23 of the 24 years. The highest price paid on the fifteenth of the month to Texas farmers for the 24 years was 52 cents in December, 1919.

The low for the period was 17 cents in June and July of 1932 and January and February of 1933.

The average change during the year from low to high, considering only the prices paid on the fifteenth of each month, has been seven cents per pound.

Because of the low prices of butter farmers are not feeding so well, hence milk production is declining somewhat. Milk production thus far for 1933 is about five per cent less than in 1932.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, April---. Speaking engagements of President Bradford Knapp of Texas Technological College are announced as follows:

April 22--Fourteenth District, Texas Congress of Parents and Teachers, Brownfield. Subject: "Safeguarding the Schools."

April 23--Address, First Baptist church, Lubbock.

April 24--Address, Meeting of senior class, Texas Technological College.

April 25--Meeting of the American Association of University Women, engineering auditorium, Texas Technological College. Subject: "Present Status of Technical Education in the United States."

April 28--Association of Texas Colleges, Dallas. Subject: "The Place of Technological Training in Higher Education Today."

May 2-- Address, District Conference Rotary International, San Angelo.

May 6-- Address, District Educational meeting, Lubbock High school.

May 11--Commencement address, Shallowater High school.

May 15--West Texas Chamber of Commerce, General Session Fifteenth Annual convention, Big Spring. Subject: "West Texas Tomorrow."

May 17--Commencement address, Lubbock High school.

May 19--Commencement address, Tahoka High school.

May 22--Address, State Convention Lions club, Lubbock.

May 24--Commencement address, Seminole High school.

May 25--Commencement address, Nurses Training school, Lubbock Sanitarium.

May 28--Senior class services, Idalou High school.

May 30--Commencement address, Spur High school.

June 1--Commencement address, West Texas State Teachers College, Canyon.

June 9--Commencement address, Abernathy High school.

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sent 4-22-33
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From Texas Technological College Free News Service -- Cecil Horne

(CORRECTION: The story of the commencement at Texas Technological College which was mailed a few days ago was incorrect as to date. Following is a corrected story.)

LUBBOCK, Texas, April---. Dr. Harry L. Kent, president of New Mexico A. & M., Las Cruces, will deliver the seventh annual commencement address to the graduating class at Texas Technological College June 5. The baccalaureate sermon will be delivered by Dr. R. Thomsen, pastor of the Central Presbyterian church of Amarillo, June 4.

President Bradford Knapp and Mrs. Knapp will receive the graduates and members of the faculty at the president's home Friday evening preceding commencement. Formal academic processions will feature the exercises on Sunday and on commencement day, which are to be held in the college gymnasium.

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5-11-33

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, May---. Manifesting an unusual interest in the annual election of officers, students of Texas Technological College named Ray Moore of Hamilton president, in a meeting which filled the gymnasium. Albert Greer of Comanche was elected vice-president, and Miss Audrey Farris of Floydada, secretary-treasurer. M. L. Collins of Celina was chosen to represent the student body on the athletic council, and Bill Stubbs of Corpus Christi was made head yell leader.

LUBBOCK, Texas, May---. The hand loom for weaving woolen cloth developed by the textile department at Texas Technological College is being demonstrated at Big Spring during the meeting of the West Texas Chamber of Commerce. Dr. Bradford Knapp has suggested the weaving of woolen cloth by hand as a new industry for West Texas.

Prof. M. E. Heard of the Tech textile engineering department will be in charge of the demonstration at Big Spring, and Ford Benham of Lubbock, senior textile student, will assist. Benham is able to weave a yard of cloth an hour and will show visitors at the West Texas Chamber of Commerce convention how the hand loom works.

LUBBOCK, Texas, May----. The engraving contract for the 1934 La Vientana, Texas Technological college yearbook, has just been let to a Texas concern, according to Bruce Zorns of Meadow, newly elected editor.

Zorns and Marvin Messersmith of Fort Worth, business manager, were elected by popular vote of the student body in the May elections.

LUBBOCK, Texas, May----. Texas Technological college will be host to the 1934 meeting of the Southwestern Division of the American Association for the Advancement of Science, according to announcement made at the meeting in Las Cruces, N. M., which ended May 4. Tentative dates for the 1934 meeting are April 30 to May 3, inclusive.

Dr. R. A. Studhalter, head of the biology department at Tech, was elected to membership in the executive committee and to vice-chairmanship of the biology section. Prof. J. N. Michie, head of mathematics at Tech, was named vice-chairman of the mathematics section.

Dr. Oliver C. Lester, acting president of the University of Colorado, was elected president of the group for 1934.

LUBBOCK, Texas, May---. Miss Sarah Michie, daughter of Prof. J. N. Michie, head of the mathematics department at Texas Technological College, has just been awarded a research fellowship in English for the coming year at the University of Virginia. This award is one of two given each year to outstanding English students from the Philip Francis du Pont fund.

Miss Michie was graduated at Tech in June, 1930, and spent one year at Radcliffe college, Cambridge, Mass., before entering the University of Virginia as a graduate student last fall.

LUBBOCK, Texas, May---. A medical library of some 200 titles, containing between 250 and 300 volumes, has just been donated to the Texas Technological College from the estate of the late Dr. Goodsell of Roswell, N. M., according to Miss Elizabeth Howard West, librarian at Texas Technological College. Dr. D. H. Galloway of Roswell made the donation.

Many of the books will be valuable reference books for pre-medical and biology students, while others are of historical interest. Publication dates range from 1875 to 1930. Probably the most interesting single item in the collection, according to Miss West, is a series of bound volumes of "International Clinics", running consecutively from April, 1891, through December, 1930. An eight-volume medical encyclopedia, a reference handbook of medical science in several volumes, and a number of medical textbooks are also included in the gift.

LUBBOCK, Texas, May---. In view of the revival of interest in the home garden, Prof. C. E. Russell, head of the department of horticulture, Texas Technological College, offers a detailed plan for a garden that will supply vegetables for a family of four. He says:

"While the matter of how much of each kind of vegetable to plant has been learned by experience by former gardeners, it often presents a problem for the beginner.

"The chart given below gives the amount of seed and number of feet of row needed to supply fresh vegetables for a family of four, including two adults and two children between the ages of five and ten years. For different sized families than the above the gardener will need to alter the amount of row space for each vegetable. When deciding upon this row space to be planted it will also be necessary to make allowances for the individual likes and dislikes of the family.

<u>Vegetable</u>	<u>Seed</u>	<u>Row in Feet</u>
Greens		
Spinach	1/3 oz.	30
New Zealand Spinach	1/6 oz.	15
Chard	1/3 oz.	15
Mustard	1/6 oz.	15
Lettuce	1/6 oz.	30
String Beans (bush)	1/3 pt.	30
Lima Beans (bush)	1/3 pt.	30
Peas, Black Eyed	1/3 pt.	30
Peas, English	1 1/2 pt.	150
Carrots	1/3 oz.	30
Rutabagas or Turnips	1/6 oz.	30
Parsnips	1/6 oz.	30
Beets	1/3 oz.	30
Radish	1/4 oz.	20
Onions	1/2 oz.	60
Green Corn	1 1/2 pt.	150
Tomatoes	12 to 24 plants	

"In considering the above list of greens, the amount of row space is based upon the idea that only one of the four is to be chosen. Should the gardener decide to choose two or more of these crops, the row space should be decreased proportionally. Much of the same may be said about the beans and black eyed peas, for if all three are planted it would be advisable to cut down the row space."

RHUBARB FOR THE HOME GARDEN

Geo. W. Woodbury
Department of Horticulture
Texas Technological College

Rhubarb is a perennial vegetable crop which is grown for its fleshy leaf stalk. In some localities it is referred to as "pie-plant" because it is used mostly in making pies and sauce. It matures early in the spring and offers a welcome change in the diet at that time of the year. A half dozen hills at one side of the garden where they will not interfere with the plowing will provide ample rhubarb for the average sized family.

Roots for planting can be obtained from the seedsman or nurseryman, or may be divisions from a neighboring patch. These roots are fleshy and may be divided so that one root having one good "eye" is used in a place. The divisions are planted early in the spring and should be given not less than from two to three feet of space each way.

Almost any good garden soil is suitable for rhubarb, providing it is well drained and fertilized. For average planting in the home garden, stable manure is as good a fertilizer as any. It may be worked into the soil before planting. Later top-dressings in the spring of the year before growth starts will prove beneficial.

Like asparagus, rhubarb is not usually harvested before the third year after planting. The harvesting period extends over a period of from eight to ten weeks. In early summer the plants will throw out large seed stalks. These should be cut off as soon as they appear, as their development on the plant weakens the roots and cuts down the succeeding crops.

The variety Victoria is the one most widely grown. It is a prolific variety, but does not have as much of the desirable pink color as is found in the Linnaeus variety. The latter has smaller stems which have plenty of pink color and are of excellent flavor.

100 copies
sent 5-18-33

From Texas Technological College Free News Service -- Cecil Horne.

(Dear Editor: Your cooperation in giving publicity to this item regarding the summer session at Texas Technological College will be greatly appreciated by the college and by many hundreds of teachers who are interested. This is the first definite announcement that it has been possible to make regarding the summer school.)

LUBBOCK, Texas, May ---. The regular summer school session with two terms of six weeks each will be held this summer at Texas Technological College, according to announcement of President Bradford Knapp. He pointed out the need of the summer school to allow a class of approximately 120 to complete work for their degrees to be awarded in August; also the session will enable students to finish up courses on the term basis preparatory to the change to the semester plan this fall.

The first term will open Tuesday, June 6, the day following commencement, and will close July 14. The second term will start July 17. Indications point to a large enrolment, Dr. Knapp said. Last summer 1,606 students attended the Tech summer school.

Courses Offered

For the first term 192 courses are scheduled to be offered and 127 for the second term, but President Knapp points out that as an economy measure no course will be offered unless there is sufficient demand for it. Work will be offered both terms in all four schools.

Courses will be offered both terms in agricultural economics, agronomy, animal husbandry, and dairy manufactures. Courses in horticulture will be offered the first term only.

Courses will be given the first term in architecture, civil, mechanical, and textile engineering, and engineering drawing, and electrical and textile engineering and engineering drawing the second term.

First term courses will be given also in applied arts, clothing and textiles, foods and nutrition, home economics education, and general home economics. All of these will be offered the second term except applied arts.

Other courses for the first term include: botany, zoology, chemistry, economics, education, psychology, English, journalism, French, German, Spanish, geology, government, history, anthropology, philosophy, sociology, mathematics, music, physical education, physics, and speech. Most of these subjects will be offered the second term.

Graduate Work

Advanced courses leading to the master's degree will be offered in the same departments as heretofore.

Recreational features will be emphasized, including the annual trek to the Carlsbad Caverns, artists course, and such amusements as swimming, golf, tennis, horseback riding, and probably reduced rates for the Lubbock picture shows.

Rooming and boarding accommodations are ample and the prices are lower than for any previous summer session.

(For the convenience of editors this story on the 1933 graduating class at Texas Technological College is arranged so that papers desiring to conserve space may use it in one of the following ways:

1. Introductory material, consisting of first 3 paragraphs.
2. The major subjects, with the number who are graduating in each without the names
3. Names of local graduates only.)

LUBBOCK, Texas, May---. With 302 candidates for degrees in 1933, Texas Technological College will send out the largest graduating class in its history. Of these degrees, 272 are bachelor's and 30 are master's. There are 179 who expect to get their degrees at the commencement exercises June 5, and 123 who expect to graduate in August.

The 1932 class numbered 269 and the 1931 class 276. Tech graduates will number 1,349, including the present class.

The present graduating class includes ¹²¹~~119~~ women and ¹⁸¹~~171~~ men. Average age of the women is 24.16 years and of the men is 23.28 years. The youngest graduate is Miss Aleen Brown of Ackerly, who has just passed her eighteenth birthday, though there are several others who are not 19 years old.

Major Work of Graduates

The number of graduates in the 1933 class according to major work is as follows:

3 Agricultural economics (3) - E. G. Cauble, Jr. of Stiles, Fred DeLashaw of Ivanhoe, Robert Henry Gooch of Lubbock.

4 Agronomy (4) - G. L. Beene of Roby, Tom Lee Easley of Seymour, Chester Hufstedler of Springtown, James Walter Potts of Lubbock.

7 Animal husbandry (7) - M. C. Brandon of Stephenville, Buford Browning of Fluvanna, Glenn T. Hackney of Pickton, Lanoy Nelson Hazel of Spur, John Templeton Kennon of Godley, Edgar Kuebel of Spring Branch, John Shepherd of Lubbock.

(MORE)

2 Architectural engineering (2) - Albert Carlton McAdams of Gordonville, Wyatt R. Underwood, Jr. of Bartlett.

1 Biology (1) - Roger S. Knapp of Lubbock.

17 Botany (2) - Ruth Winton Reed of Lubbock, Fleda Tunnell of Duffan.

Rogers Business administration (20) - Dick Slaton Carter of Plainview, Seth Barton Cox of Stamford, Aud Felton Darr of Melrose, N. M., Raymond E. Dunn of Slaton, Milo Manning Feierabend of Amarillo, William Russell Fickas, Jr. of Lubbock, James Harvey Fryar of Midland, Lois Elizabeth Hall of Quitaque, Harry C. Hazel of Spur, Cecil Glenn Kersey of Amarillo, Ebbie Lee of Lamesa, Edward Minor of Lubbock, Clarence Maurice Reed of Corsicana, Marvin Clarence Renfro of Kirven, Jackie Lucille of Plainview, Joe Fulton Taylor of Amarillo, Clifford Dayle Vannoy of Lubbock, Lula Terrie Watson of Lubbock, Henry Chester Williams of Clarendon, Thomas Hugh Williams of Comanche.

13 Chemistry (14) - Catherine Clay Cox of Snyder, Charles Lewis Cromwell of Stephenville, Cecil Hughes Gilliam of Haskell, Lynn Gray Gordon of Lubbock, James Renfro Henley of Brownwood, Douglas Donald Henson of Sudan, Fred John Hinger of Endee, N. M., Harvey K. Jackson of Roaring Springs, Philip Marion James of Lubbock, Alfred J. Jenson of Clifton, John R. Mast of Lubbock, Harrison Munroe of Abilene, Frederick F. Seely of Englewood, Colo., Thomas Henry Stewart, Jr. of Lubbock.

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3 Civil engineering (7) - Herbert Eugene DeShazo of Lubbock, Ordess Eldon Forbess of Lubbock, James Fenton Harding of Dallas, Arch L. King of Lubbock, James Duane Orr of Hereford, Travis J. Parker of Sudan, John Phillip Ruhmann of Ballenger.

Clothing and textiles (6) - Girdy Pearl Beard of Rule, Novis Lewis of Lubbock, Melba Tatom Maxey of Lubbock, Christova Sawyer of Brownfield, Margaret Elizabeth Underwood of Andrews, Leona H. Wharton of Lubbock.

Dairy manufacturing (8) - Roe Bavousett of Snyder, Horace Cullen Dean of Dawson, Gerald G. Gordon of Lubbock, Robert Phillip Huser of Granger, Ben Hill Jenkins of Gail, Milton L. Kirksey of Lorenzo, James Bryan Stine of Amarillo, Curtis Boyd Williams of Lubbock.

Economics 15 Cecil Alonzo Bickley of Lubbock, John Hugh Beauchamp of Greenville, William Bacon Caldwell of Lubbock, Sarah Evelyn Carson of Stamford, Allie Rae Collins of Claude, Glenn Dobkins of Roaring Springs, Campbell Hill Elkins of Lubbock, Clyde Wolfe James of Lubbock, Ernest Nelson of Lubbock, Leland D. Payne of Eddy, Warren Powers of Lubbock, Virgil Rowland of Anton, Allen Bryan Seale of Eastland, Mary Elizabeth Warren of Cleburne, Neva Neal Wilkins of Lubbock.

Education (46) - Virginia Thomas Bacon of Lubbock, Mary Louise Baskin of Lubbock, Juanita Helene Beard of Lubbock, Henry Cleveland Bowlin of Lubbock, Leslye Van Burgess of Lubbock, Opal Gladys Butler of Lubbock, Hubert Butts of Quanah, Barton F. Claunch of Hayden, N. M.,

(MORE)

8 Logan Oliver Cummings of Aberdeen, Eva Mamie Deering of Roswell, N. M., Mrs. C. L. Donaldson of Lubbock, Josephine Penn Douglas of Lubbock, Mrs. Avon B. English of Lubbock, Mary Alice Floore of Fort Worth, Verna Voncile Gilkerson of Lubbock, Mary Evelyn Gordon of Albany, Claud Lee Hale of Lubbock, Jewel Naoma Hammock of Sudan, Enos W. Harper of Lubbock, Beula May Hatton of McKinney, Mary Maurine Henderson of Lubbock, Richard W. Hooten of Point, Ola Irene Hughes of Weatherford, Eava May Murphree James of Idalou, Dessie Mae Johnson of Lorenzo, Sally Elizabeth Johnson of Mart, Vivian Nadine Keaster of Lubbock, Glenna Louise Keller of Lubbock, Ernestine Kimbrough of Athens, Martha Lee Gregg Mathis of Lubbock, William Kary Mathis of Lubbock, Thomas Vern Montgomery of Andrews, Ada Iris Myers of Cleburne, Nora Gladys Neal of Rule, Mrs. Mabel Ailene Newman of Lubbock, Nell Taylor Parmley of Strawn, Alma Earp Parrack of Becton, William Elwood Patty of Lubbock, Juanita Price of Lubbock, Terry C. Redford of Brownfield, Ernestine Elizabeth Reynolds of Lubbock, Rachel Robert of Lubbock, Louise Sneed of Dalhart, Ethel Elizabeth Thurman of Lubbock, Frances Elizabeth Young of Bowie, Nell Elizabeth Young of Bowie.

11 Electrical engineering (11) - Ralph Thomas Brandenburg of San Antonio, J. Preston Conner of Lubbock, Walter Andrew Cox of Abilene, Kitt Porter Green of Graford, Lawrence P. Magee of Lubbock, Willard M. Nott of Waco, James Hershel Tadlock of Amarillo, Arthur Conrad Waghorne of Lubbock, James Robert Wayland of Plainview, Alpha Milton Wiggins of Lubbock, Charles Lee Willie, Jr. of Tyler.

5 English (19) - Florence Jones Ashmore of Lubbock, Lois Lataine Butler of Lubbock, Grace Anne Cade of Chandler, Margaret Ruth Dunlop of Lubbock, Hazel Spykes Hanback of Hermleigh, Amelia Hargis of Lubbock, Wellborn R. Hudson of Austin, Jean Shelley Jennings of Lubbock, Mart Woodson Jones of Seagraves, Mary Katherine McGlothlin of Lubbock, Jesse Roland McIlhaney of Lubbock, Ellis McCullough Mills of Lubbock, Nellia Viola Morgan of Spur, Margaret Dell Prim of Snyder, John Stephen Rankin of Kenna, N. M., Mary Frances Senter of Lamesa, Maudie Adeleine Smith of Lubbock, Gaster Randal Spencer of Lubbock, Fredice deCiel Weathers of Big Spring.

1 Foods and nutrition (4) - Alma DeShazo Bresler of Lubbock, Lesey Lavenia Bullock of Lubbock, Emma Chapman of Lubbock, H. Duncan Simmons of Carlsbad, N. M.

1 Foreign languages (9) - Mamie Nell Blackstock of Brownfield, Eunice Loraine Cone of Lubbock, Hester Kelsey Cooper of Lubbock, Ione Dodson of Whitney, Edyth LaVerne Garrison of Lubbock, Louise Garrison of Lubbock, Georgia Knight of Lubbock, Edna Nixon Morris of Lubbock, Genelle Wilhite of Lubbock.

General home economics (2) - Velma Copeland of Bowie, Laura Larkune Song of Chung San, Korea.

2 Geological engineering (2) - Howard F. Hopkins of Lubbock, James Oran Sanders of Big Spring.

(MORE)

5 Geology (5) - Jack Jefferson Flowers of Big Spring, Malcolm Logan Patterson of Big Spring, Shelby Graham Read of Henderson, Carl Pembroke Rogers of Houston, Arnold G. Schofield of Lubbock.

9 Government (12) - Eugene Thompson Adair of Lubbock, Ross Ayers of Wheelock, Charles Louis Cobb of Lubbock, Manuel C. DeBusk of Idalou, Alfred Holeman of Lubbock, William Allen Leslie of Eastland, Katherine Frances Lupton of Shallowater, Roger Quarrels Pierce of Lubbock, Anna Juanita Pool of Lubbock, John Doyle Settle of Abernathy, Mary Olive Spring of Friona, Robert Adelin Taylor of Stratford.

9 History (17) - Victor Cecil Bearden of Lamesa, Dorothy Lee Brigrance of Hart, Leona Margaret Gelin of Lubbock, Julia Margaret Harmon of Idalou, George Truett Hatton of Abilene, Basil Hudson of Westbrook, Lovie H. Liston of Lubbock, Martha Belle Logan of Lubbock, Anna Louise Lupton of Shallowater, Mrs. J. Herman Mitchell of Hope, N. M., Lela Deborah Puryear of Lubbock, Carl Nathaniel Roth of Wilson, Pauline Newton Sumner of Idalou, John Edward Vickers of Lubbock, John C. Williamson of Lubbock, Arthur Clyde Woodburn III of Portales, N. M., Clarence Ervin Woods of Lubbock.

Home economics education (13) - Ella Mae Blanton of Ralls, Helen Ruth Carter of Lubbock, Geraldine Clewell of Waco, Imogene Couch of Gustine, Nancy Carolyn Dixon of Bellevue, Nora Ellen Elliott of Dumas, Ruth Elizabeth Hearrell of Lubbock, Veralee Jones of Tulia, Mable Leslie Maggard of Hale Center, Hazel Willie Price of Lubbock, Delene Reid of Clyde, Effie Smith of Crosbyton, Mary Wilbanks of Spearman.

4 Horticulture (4) - Russell Bean of Lubbock, Wilson B. Holden of Clarksburg, W. Va., W. F. Hughes of Chowning, Painter Colquitt Wylie of Valley View.

1 Journalism (3) - William Boyd Bush of Greenville, Opal Louise Creighton of Abilene, Mary Elizabeth Sheely of Lubbock.

5 Mathematics (7) - Eugene Holder Brock of Houston, J. Charles Featherston of Petersburg, Murray Linden Holcomb of El Campo, Carl Elmer McClain of Lubbock, Maurine Patten of Dallas, Rayman Wilburn Wheeler of Lubbock, Roberta Willingham of Lubbock.

11 Mechanical engineering (11) - Miles Roger Clapp of Childress, Robert Edwin Drake of Kress, C. Eugene Edwards of Fort Worth, John Samuel Hopper of Wellborn, John N. Jacobsen, Jr. of Hereford, Blair LaVergne Manire of Slaton, J. Alton Miller of Hereford, James Rolin Renfro of Lubbock, George Elton Smith of Longworth, William Tillman Stitt of Fort Worth, Donald A. Weilenman of Weatherford.

2 Physics (3) - Ben Lawrence of Silverton, Margaret Carroll Robertson of Lubbock, Alexander Taylor of Childress.

Public school music (3) - Augusta Maye Foster of Lockney, Carolyn Poe of Harrisonville, Mo., Marie Emeline Price of Lubbock.

2 Speech (5) - Roscoe Irvin Bayless of Lubbock, Hazel Aleen Brown of Ackerly, Gertrude Harriett Hofmann of Carrollton, Dorothy Glyn Rushing of Lubbock, *Rob. Maurice Lipps of Perrin.*
(MORE)

3 Textile engineering (3) - William Basil Hill of Lamesa, Don Maddox of Menard, Lloyd Scarborough Reeves of Dallas.

4 Zoology (4) - John Lake Dean, Jr. of Crockett, Joseph Leslie Hall of Stanton, John Jackson Hopper of Lubbock, Kenneth Bell Rollo of Lubbock.

1 Candidates for the master's degree are: Chemistry (1) Cecil Hardee Connell of Lubbock.

2 Economics (3) - Roy Canon Clements of Lubbock, Mrs. Lucille Edwards of Dawson, Joseph Martin Jackson of Houston.

7 Education (9) - G. S. Dowell of Dickens, Bruce W. Edwards of Dawson, George A. Heath of Friona, Stilwell M. Melton of Cuero, Myrtle Sansom of Lubbock, M. Frank Stephens of Shallowater, William Ezra Street of Lubbock, J. Irvin Warren of Amherst, Sylva Wilson of Lubbock.

1 English (4) - Alma Alland Caldwell of Lovington, N. M., John A. Copeland of Brownwood, Glenys Honey of Lubbock, D'Aun Sammons Hunter of Lubbock.

1 Geology (1) - Elmer J. Moore of Lubbock.

2 Government (3) - William Lloyd Croslin of Colorado, Doris Ladd Johnson of Eastland, Gordon Treadaway of Lamesa.

3 History (3) - James Tillman Carter of Happy, James C. Chamberlain of Rochester, Alberto Melendez of Guatemala, ~~E.~~ A.

2 Mathematics (3) - Ena Armstrong of Thrifty, Artle J. Lynn of Oklaunion, Robert Parker of Lucille, N. M.

1 Philosophy (1) - Terence Vedder Crounse of Perrin.

2 Physics (2) - Allen Henry Burkhalter of Lubbock, Kimsey Taylor Miller of Lubbock.

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6-8-33

100 From Texas Technological College Free News Service -- Cecil Horne.

copies sent

LUBBOCK, Texas, June --. Nomenclature of the schools at Texas Technological College was changed at a recent meeting of the board of regents, according to President Bradford Knapp. The four schools will now be known as the Division of Agriculture, the Division of Arts and Sciences, the Division of Engineering, and the Division of Home Economics.

Several promotions in the faculty were authorized. Acting Dean O. V. Adams was named dean of the Division of Engineering. Prof. Gus L. Ford, acting head of the history department, was made head of the department. Dr. W. B. Gates, associate professor of English, was made assistant dean of the Division of Arts and Sciences. Prof. Carl L. Svensen, head of engineering drawing, was made acting registrar. He will devote his time to both positions. Miss Evelyn Clewell is assistant registrar.

For outstanding work in the fields of archeology and anthropology, Dr. W. C. Holden's title was changed to professor of history and anthropology and director of archeological research. In addition to being dean of the Division of Arts and Sciences, Dean J. M. Gordon was also named dean of men.

Military science which has been a part of physical education was made a separate department. The department of agronomy and horticulture were consolidated into the department of plant industry. Courses leading to the degree of bachelor of science in chemistry, physics, and biology were approved. Options in textile engineering, textile design, and textile chemistry, also courses in architecture and

(MORE)

commercial art in connection with the department of architecture were given approval.

Course fees in the sciences were abolished on account of the large increase in fees passed by the recent legislature. A blanket breakage fee, covering all laboratory courses, was authorized.

M. E. Ogdon was given a year's leave of absence to study international law at the University of California under a fellowship from the Carnegie Endowment. E. H. Plank was appointed to take his place for the year. A. B. Strehli of the foreign language department was granted a year's leave to work toward his doctorate.

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LUBBOCK, Texas, June --. Scholastic records of 32 Texas Technological college students, many of them seniors, were recognized in the commencement exercises at the college gymnasium.

Seniors graduating with highest honors were: Ben Hill Jenkins, Gail, average grade of 91.5 in agriculture; Travis J. Parker, Sudan, grade of 89.5 in engineering; Miss Effie Smith, Crosbyton, grade of 92.9 in home economics; Mrs. G. T. Hatton, McKinney, 93.7; Mrs. Kary Mathis, Beaumont, 92.9 and Mrs. Florence Ashmore, Coleman, 92.1 in liberal arts.

James Toothaker, Downs, Kas., was announced as the student having the highest scholastic standing in school. His average was 95.5. He is a sophomore liberal arts student.

Other students honored were:

Highest scholastic standing for senior who had done all work here: Ben Hill Jenkins, Gail, 91.5 (Agri.); Ruth Reed, Lubbock, 91.4 (L.A.); Allie Rae Collins, Claude, 91.3 (L.A.).

Highest scholastic standing for senior who transferred work here: Mrs. G. T. Hatton, McKinney, 93.6 (L.A.); Mrs. Gaster Spencer, Lubbock, 93.1 (L.A.); Effie Smith, Crosbyton, Texas, 92.9 (H.E.).

Highest scholastic standing for entire college: James Toothaker, C. E. Mitchell, Slaton, freshman L. A. 95.3; Novelle Bussey, Lubbock, freshman L. A. 94.3; Anna Mary Baucom, Lubbock, freshman L.A. 93.8.

Highest ranking student: Agriculture, T. L. Leach, Brownwood, sophomore, 93.7; Engineer, H. Houston Hinson, Lubbock, junior, 93.6;

(MORE)

Home Economics, Katherine Leidigh, Lubbock, freshman, 92.8; Liberal Arts, James Toothaker, Downs, Kansas, sophomore, 95.5.

Highest scholastic standing for freshman class of entire college: C. E. Mitchell, Slaton; Novelle Bussey, Lubbock, Anna Mary Baucom, Lubbock.

Highest scholastic standing in textile engineering: L. E. Parsons, Sylvester, sophomore.

Best work done in English by any young woman in college: Miss Evelyn Gullledge, Lubbock, senior L. A.

Best work done in English by any young man in College: James Toothaker, Downs, Kas., sophomore L. A.

Best college citizen among women: Geraldine Clewell, Waco, senior home economics.

Best college citizen among men: J. Preston Conner, Lubbock, senior engineer.

M. C. Overton award for the greatest value to the athletic team in morale, fair and square play and honorable fighting: Albert Greer of Comanche, sophomore, agriculture.

Standefer-Canon award for highest grades among football letter men: Laurence Priddy, Gainesville, 88.6. The award is a permanent silver football plaque with name inscribed to remain in the athletic office. Priddy is a junior liberal arts student.

Double Key award: Emily Davis, sophomore, Lubbock. Award based on scholarship and leadership.

Pan-Hellenic award, \$30: Katherine Leidigh, Lubbock, home economics freshman.

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LUBBOCK, Texas, June---. The Texas State Board of Education will meet at Texas Technological college June 16 and 17. In addition to Thomas T. Garrard, local member, others on the board are Nat M. Washer, chairman, San Antonio; W. S. Bowers, Houston; W. A. Morrison, Cameron; Mrs. Noyes Darling Smith, Austin; Mrs. J. E. Watkins, Henderson; Ernest Alexander, Fort Worth; J. O. Guleke, Amarillo; F. L. Henderson, Bryan. L. A. Woods, state superintendent of education, is secretary of the board.

A reception committee will meet and welcome members of the board who arrive Thursday. An entertainment program, including a dance Friday night, is planned. The board members are to attend a feeders' day barbecue at Tech Friday noon. They will have dinner at the Tech home economics building that evening, and a luncheon will be given in their honor Saturday.

LUBBOCK, Texas, June---. A field course in geo-physics, probably the first of its kind ever given by a Texas college, is now being conducted by Dr. Leroy T. Patton, head of the geology department of Texas Technological college. Work is being done in the southwestern corner of Lubbock county and consists of a magnetomer survey, or a testing of the difference in intensity of the earth's magnetism at various places.

The purpose of the test work is to determine the underground structure as to the possibility of the presence of oil. Three weeks will be devoted to work in Lubbock county, and the last three weeks of the course will be an extended trip through the Appalachian mountains.

LUBBOCK, Texas, June---. Summer school students at Texas Technological college will make their annual trip to Carlsbad Caverns July 1. Colonel Thomas M. Boles, superintendent of the Caverns, has visited the college and conferred with officials relative to details of the trip.

Those who make the trip on Tech day will be guests of the United States government and the fees will be remitted. Tech was the first institution to be so honored, though the courtesy is now extended to other schools. Last year 325 were in the Tech party, and Colonel Boles expects an even larger attendance this summer.

The caravan will leave Lubbock by bus and private auto the afternoon of June 30 and will go through the Caverns on Saturday. The night will be spent in Carlsbad.

LUBBOCK, Texas, June---. Prof. Carl L. Svensen, acting registrar and head of engineering drawing at Texas Technological college, will lecture to summer school students June 15 on "The History of the Alphabet." This will be an illustrated lecture in which he traces the development of the alphabet from the indefinite past through its pictorial, ideographic, phonetic forms down to its present state.

This is the first of a series of lectures to be given by faculty members for the benefit of summer students regularly on Thursdays for the duration of summer school. The second lecture will be given June 22 by Dr. E. F. George, head of the physics department. His subject will be "From the Infinitesimal to the Infinite."

LUBBOCK, Texas, June---. Following the announcement of the development of a hand loom for the weaving of wool cloth at Texas Technological college, so much interest has been manifested throughout West Texas that a course in hand weaving will be offered during the summer session. The dates are July 17 to 29, classes meeting each day from 9 to 12 and 1:30 to 4:30. The fee is \$5.

The course as outlined by Prof. C. D. Brandt, head of the textile department, is as follows: Lectures - first hour of each session during first week, covering the physical and chemical properties of the common textile fibers such as cotton, silk, rayon, linen, wool and mohair. Fabric design, construction analysis and yarn sizes. Processes in the manufacture of yarns and fabrics.

Laboratory - scouring of wool, wool carding, wool spinning, cotton carding and spinning, fabric design and construction, warp preparation, power weaving, dyeing and finishing and entire process of setting up, adjusting, and weaving on the hand looms.

LUBBOCK, Texas, June ---. A cotton classing course will be given at Texas Technological college beginning July 10 and lasting *four* weeks. The work will be in the textile building under the direction of the textile department. The fee will be \$15.

LUBBOCK, Texas, June---. Following the close of a 147-day feeding experiment, a Livestock Feeders' day is announced to be held at Texas Technological college June 16. President Bradford Knapp and Prof. W. L. Stangel, head of the animal husbandry department, have sent invitations to feeders, county agents, and others in West Texas to attend. The day is open to all who are interested.

The following program has been arranged to start at 10:00 a.m:

Address of welcome - Spencer A. Wells, chairman education committee, Lubbock Chamber of Commerce.

"Possibilities of Research in Livestock Feeding," Dr. Bradford Knapp.

"Potentialities of Livestock Feeding on the Plains," Dean A. H. Leidigh of the division of agriculture.

"Economy of Gains as Affected by Location of Self-Feeder and Water for Fattening Hogs," Ray C. Mowery, department of animal husbandry.

"Ground vs. Whole Grains for Fattening Hogs," Don L. Jones, superintendent Lubbock experiment station.

Lunch in livestock pavilion, followed by inspection of livestock used for instruction.

1:30 p.m.: "Alfalfa Hay vs. Sumac Sorghum Fodder and Silage With and Without Pulverized Oyster Shell as Roughages for Fattening Lambs," J. M. Jones, chief of division of range animal husbandry, experiment station.

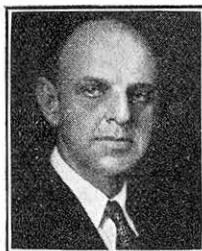
"Cottonseed Cake vs. Cotton Seed When Milo Heads are Hand-fed or Self-fed to Fatten Cattle," W. L. Stangel.

Question box, followed by trip to experimental cattle feeding pens.

The Wiley Bulletin

New York, May, 1933

Read's "Industrial Chemistry" Ready



W. T. Read

"Industrial Chemistry," by W. T. Read, Dean of the School of Chemistry at Rutgers University, is now available.

For courses in Industrial Chemistry and Chemical Technology, this book gives an adequate and well-balanced picture of modern chemical industries from the standpoint of chemical compounds and changes, chemical engineering operations, sources of raw materials, uses of products, and the economic relationships of chemical industries. The treatment of every topic in this textbook is brief, concise and confined to essentials. A broad, well-rounded, cultural conception of the applications of chemistry is aimed at in this book.

The contents of the book are divided into three parts namely: Part 1. General; Part 2. Inorganic Industries; Part 3. Organic Industries.

Boston's "Shop Practice" Generously Praised

"Engineering Shop Practice" by Professor O. W. Boston of the University of Michigan has brought forth many comments from engineers and teachers. This book deals with the relation between the design of the part, the material of which it is to be made, the method of fabrication by which the material is to be prepared, and the machining processes involving the machine tool, fixtures, cutting tools, speeds, feeds, lubricants, etc.

Mr. F. C. Spencer, Chairman of the Special Research Committee on Cutting of Metals for the American Society of Mechanical Engineers, states:

"Knowing that this book was in process of preparation, I have for some time been looking forward to its publication with a great deal of interest as there has been a need for an up-to-date treatise on this subject. This book is all that I had been expecting and more. A large part of it is devoted to metal cutting and I doubt if any one in the country today could handle this subject more thoroughly than Professor Boston.

"There should be a large demand for this one not only by technical schools, but by industrial concerns interested in metal machining. You are to be congratulated in having obtained it for publication."

Engelder's "Calculations" Much-Needed Textbook

Of Dr. Carl Engelder's "Calculations of Qualitative Analysis," Professor J. Kenneth W. Macalpine says:

"I am very favorably impressed with it. It covers the field very much better than any book I have seen and should find wide use as a required or supplementary text in qualitative analysis. The explanations are clear and the examples well chosen."

1 1 1

H. A. Wallace, appointed by President Roosevelt as Secretary of Agriculture, is known in the Middle West as an authority on corn. His book published by Wiley on "Corn and Corn Growing," is considered the standard work in the field.

The Role of the Textbook in Modern Education

By John R. Wilbur

Educators in higher institutions still debate the merits of the lecture system versus the class recitation or other means of instruction. With the introduction of survey courses, honors reading, and classless education, the role of the textbook as an educational tool has become increasingly important. Self-education under liberal supervision seems to be the modern trend. "Today," as one teacher expresses it, "the student is regarded as a fire to be kindled and not as a vessel to be filled." Without the will to learn there can be no education. All of this means an increase in the reading habits of students with an occasional conference or lecture to guide them. Here the textbook or the reference book looms large in the scheme of things. Imagine, if possible, what a lack of reading material means in instruction of this type. And yet there are institutions where the teacher shortsightedly minimizes the use of books and stresses the values from the lecture, not realizing perhaps that he is doing all the work and leaving nothing for the student to do. This is filling "the vessel" with a vengeance, and with doubtful results. To be sure, the student may repeat isolated facts in an examination, but one can hardly expect an integrated grasp of the fundamentals of any subject acquired in this manner. Certainly it is not learning; neither, is it knowledge in any large sense.

Books are not, and never can be a substitute for a real teacher. The teacher is the pivotal point in any educational program. He is the guide, the companion of the inquiring student on the road to a liberal education. He cannot drive or compel; he may suggest, he may inspire, but he can't educate. That is the function of the individual who is seeking to be

educated. In the nature of things, then, the teacher must depend upon books. Here he can utilize his superior experience by directing attention to those books which may best fit the needs of the student in the solution of a problem—or he can turn the student adrift to acquire individual discrimination in a proper selection of materials. The latter may be the better course though more prodigal of energy and time.

But what of the future of the textbook? With reduced incomes of universities, libraries, and students, misinformed economy usually takes the form of a reduction in expenditure for books. One book for five students for everyday use or one book for fifty students for reference use can hardly be classed as worthwhile economy. Books are to be lived with, digested, and made a part of a student's intellectual equipment. Spasmodic or occasional forays into books do not constitute intimacy with an author's point of view. Yet this is exactly what is going on today. Books are tasted but not assimilated, with a consequent disastrous effect on instruction. It may be that college officers are relying on inspiration to tide over the depression; as a steady diet, inspiration is likely to lead to satiety.

There is another angle to this textbook problem which is generally overlooked—the publisher's angle. The publisher is an important factor in the educational scheme. No one will deny that he has contributed greatly to the advancement of education. He has pioneered in untried fields; he has ventured at great cost into enterprises that were doomed commercially at the outset. When educational foundations hesitated, he gambled, and usually lost—but to the ultimate gain in the dissemination of

(Concluded on page 2)

"Holman and Robbins"

The second edition of Holman and Robbins' "Elements of Botany" will come from the press on May 25th. The revision represents a thorough rewriting of the entire book. The authors have taken advantage of the experience of many users of the book to incorporate much new material and to make such changes as would make the book more teachable. The splendid reputation of the authors of the widely-used "Textbook of General Botany" and the fact that 125 colleges and universities used the "Elements" in its first edition assures a book which will meet with the approval of a large number of teachers.

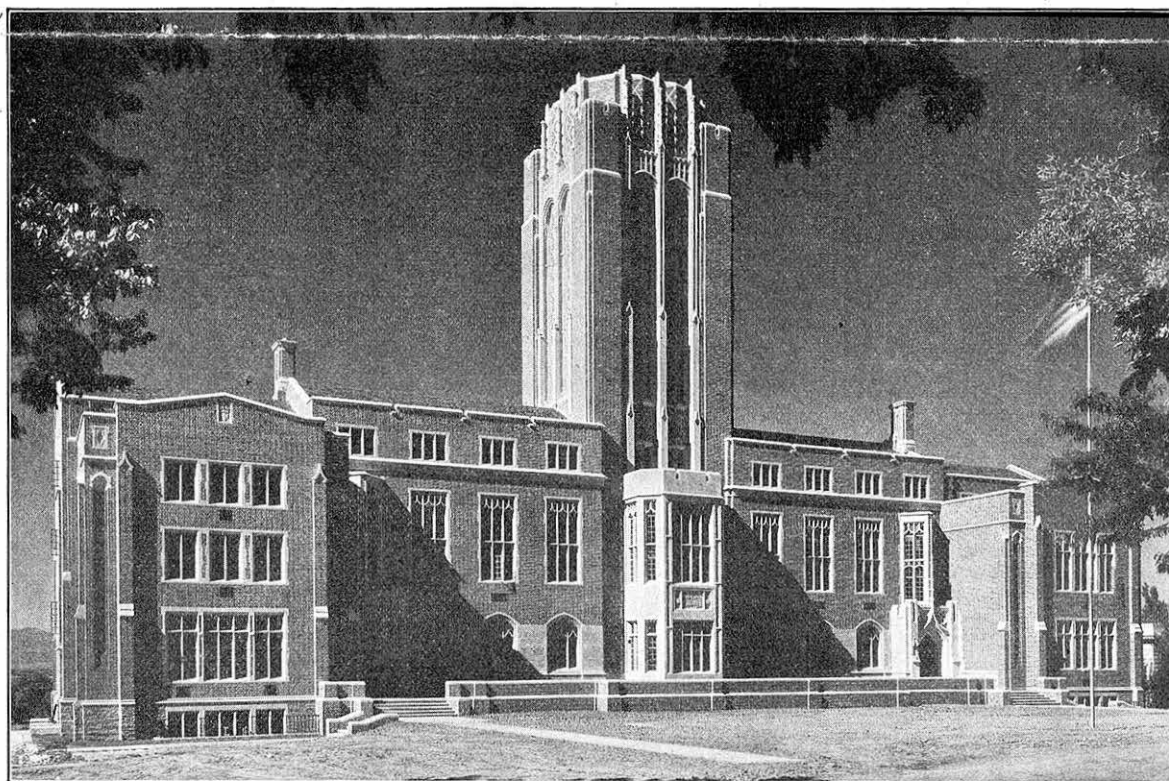
"Morecroft-Hehre" I in Second Edition

Volume I, "Continuous Currents of Electrical Circuits and Machinery" by John H. Morecroft and Frederick W. Hehre has been rewritten and the new second edition will be published about the middle of May.

The theoretical material given in the first edition has been expanded in that, wherever possible, derivations by the calculus have been added. The material on parallel magnetic circuits has been expanded in a way that leads up in a simple manner to the calculation of the magnetic circuit of generators and motors. The material on networks has also been augmented. Wherever feasible, simple discussions involving economics have been added. The number of figures and problems have been increased.

Throughout, an effort has been made to bring the book completely up-to-date.

John H. Morecroft is Professor of Electrical Engineering and Frederick W. Hehre is Associate Professor of Electrical Engineering at Columbia University.



Mary Reed Library, University of Denver

The Wiley Bulletin

Issued in the Interest of Education and Devoted to the publications of

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"Prices" "A Book That Makes Events"

"Prices" by George F. Warren and F. A. Pearson of Cornell University has aroused considerable discussion in academic, legislative and business circles. In the New York financial district it is spoken of as "the book which makes events."

"Prices" is a timely book that discusses the collapse of the price system and its many implications. The authors analyze with much statistical evidence the results of a continuation of the deflationary process. They apply their analysis to agriculture, business, finance—they even show how long it will take to complete the process of bankruptcies, bank failures, corporation recapitalization, etc. They then indicate the probable effects of a moderate inflation.

Professor Wilfred I. King of New York University writes of it in the following terms:

"This book is an outstanding addition to the list of works in this field. Thomas Tooke showed us how prices of various kinds varied during a long period of time. Irving Fisher in his PURCHASING POWER OF MONEY, pointed out how prices depend upon the volume of money credit and trade. Foster and Catchings forcefully called attention to the fact that money is a fundamental and not an incidental factor in economic life. Now Warren and Pearson not only come forward with a great amount of newly compiled factual material but, in addition, they present numerous figures and graphs showing how different classes of prices are related to each other. Still more important, they bring out clearly the fact that prices, to a great extent, dominate business and industry and the welfare of the various sections of the population. The publication of this book can, without exaggeration, be said to constitute a milestone in the study of money and prices."

Mordecai Ezekiel, author of "Methods of Correlation Analysis," now widely used as a textbook, was recently appointed Consulting Economist to the Department of Agriculture, and is largely responsible, according to report, for many of the passages in the proposed Administrative Farm Bill now before the Congress.

Role of the Textbook in Modern Education

(Continued from page 1)

knowledge. In periods of prosperity, he could afford it; in bad times, he must by necessity be cautious. In the meanwhile the teaching profession is a little puzzled to understand why some of their projects do not find a publisher. To continue to stay in business—even in the educational business—publishers must find a market for their wares. If ways are devised by those in authority to evade the purchase and use of books, publishing activities must be curtailed, to the disadvantage of all concerned. Rigid economy on the part of teachers and students in these times is of course imperative—but it must be reasonable economy based on a sense of relative values. To sacrifice books in the educational scheme is not true economy, the truth of which will become apparent as time goes on.

Loeb and Adams Write Survey Textbook of Physics

A new type of textbook in Introductory College Physics will be available shortly. The authors are Leonard B. Loeb, Professor of Physics at the University of California and Arthur S. Adams, Professor of Mechanics at Colorado School of Mines. The book is called "The Development of Physical Thought."

This is a text that definitely shows that the teaching of physics has at last gotten from under the heavy weight of tradition that has burdened it from the beginning. For undergraduate courses in introductory physics, this book gives the student the manner in which the concepts of physics have gradually evolved and developed into the inspiring structure which is the modern physical science of today. It leads the student through the evolution of human thinking processes to experience for himself the viewpoints and mental approaches of the greatest physical thinkers and gives him the finer appreciation of the nature, methods, aims and achievements of physical science.

The authors have incorporated in this text the newer development of physics in a sound, non-speculative fashion, devoid of the sensationalism of many recent books on modern physics. It is a skilfully told, fascinating and continuous story, from the earliest times down to the latest discoveries regarding the neutron and the structure of the nucleus, of the development of man's concepts of the physical world.

Cork of Michigan Writes Textbook on Heat



J. M. Cork

"Heat" by James M. Cork, Associate Professor of Physics, at the University of Michigan, has recently been published.

This book constitutes a compact yet complete survey of the subject. It contains complete data including the most recent values of the thermal constants, thermo-electric tables, etc. The most practicable methods for determining the thermal qualities of greatest common interest are given and each subject is treated theoretically from the classical point of view and from the viewpoint of the modern quantum theory.

This text is especially well adapted to follow a general college physics course for students specializing in physics, chemistry, mathematics and astronomy. For students in engineering desiring a more fundamental training, it will also be of value.

Chapin's "Chemistry" in Third Edition

As was to be expected, the third revised edition of Chapin's "Second Year College Chemistry" was enthusiastically received by its many users. The many improvements which have been added will undoubtedly cause many new colleges to use it.

Since its publication in 1922, two hundred and eleven (211) colleges have used it—many continuously. The idea back of the book is a sound one pedagogically. It is based on the theory that principles are more important than facts and methods. The first year chemistry course must necessarily have a background of facts, but unless the principles taught in the introductory course are expanded, reviewed, and made usable tools, much is lost. Dr. Chapin believes that the best results are obtained by an accurate re-statement of principles, verified and used in a quantitative way.

An eminent physicist said about the book—"This book is a startlingly new departure in texts for physics students. It is well written, fresh, authoritative. It is enlivened by an immense amount of historical treatment at the beginning and in the later chapters there is a wealth of detail in the presentation of atomic and electronic physics such as has heretofore appeared in collected form only in handbooks and advanced texts. The authors have been as ruthless in eliminating material which is not pertinent to the development of physical thought, as they have been unsparing in their work of presenting every essential detail with all the atmosphere of drama and suspense inherent in the original discovery."

Architectural Design Textbook Ready Soon

"An Approach to Architectural Design" by Ernest Pickering, Professor of Architectural Design, School of Applied Arts, University of Cincinnati, will come off the press about May fifteenth.

This text treats the study of architecture from the standpoint of the influence of the basic interests and urges of man and resulting civilization. It deals with the contemporary movement in architecture and the relation of accepted principles of design to present day problems. An analysis of materials and their influence upon design is included in the text. Various architectural elements are divided according to their functions. This includes all major periods of stylistic development and also the contemporary development.

In short, this book combines in one volume, a brief history, a study of elements, styles, and materials, a discussion of creative principles, a study of plan composition and methods of developing a problem. It is intended as a text for beginning and intermediate courses in architectural design and its use will help to make these courses interesting and creative instead of simply routine.

Food Study Manual Recently Issued

Florance King's "Manual for Food Preparation Study," published in January has had an excellent reception. Intended as a laboratory manual for a first course in foods, it includes experiments covering the whole field of food preparation. The properties of foods are studied before they are prepared into recipes. One teacher writes:

"Extremely concise, logical, and contains all the essential points in teaching foods. I like particularly the logical arrangement of material and its adaptability for laboratory and school use."

Miss King is with the Bureau of Home Economics, United States Department of Agriculture, and was formerly at the Iowa State College.

New Book on Vectors Published

In February a new book came off the press, written by H. B. Phillips, Professor of Mathematics at Massachusetts Institute of Technology, called "Vector Analysis."

In this book Vector Analysis is presented in the form that is required for work in theoretical electricity and hydrodynamics. For these subjects the analysis of vector fields and the study of the quantities which characterize each type of field is of primary importance. These quantities have essentially the same form and properties in whatever field they occur. The discussion of these matters in a separate course rather than their gradual introduction in connection with one of the typical fields has the advantage of showing which results follow merely from mathematics and which are dependent on physical hypotheses.



H. B. Phillips

In broad outline the book consists of two parts. The first five chapters cover the fundamental operations and the more general properties of scalar and vector fields. The remaining chapters contain the detailed analysis of fields, the properties of potentials, and linear vector functions. In an elementary course the work might be restricted mainly to the first five chapters together with selected topics from the others.

Tanner's Two Books in Revised Editions

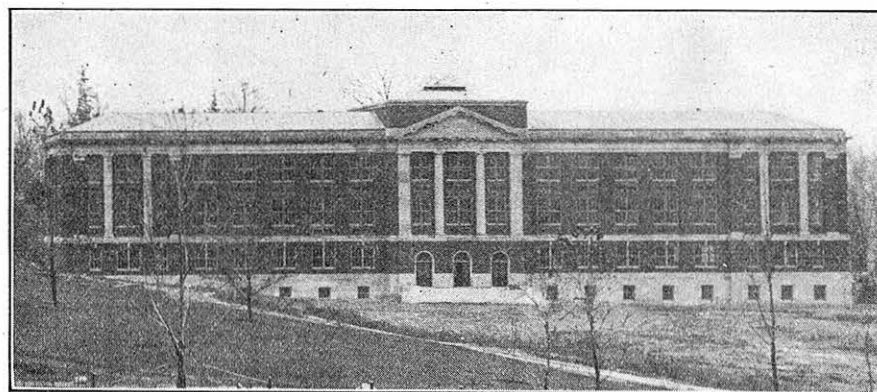
Professor Tanner's two books on Bacteriology are now available in second editions. Both books have been brought up-to-date in accord with the progress of the science.

Of "Bacteriology—A Textbook of Microorganisms" the Analyst says:

"Those in search of a textbook will do well to glance at this one. It has been constructed to a well-thought out plan, whereby the student is naturally initiated into the subject from first principles and in which the needs of the student are kept continually in the foreground. The author has taken pains to incorporate his knowledge so that it is readily grasped and his points appreciated by the student."

"Practical Bacteriology" is somewhat different from a number of recent laboratory guides which have been published. The author has avoided the use of pathogenic bacteria, as he believes the continued study of pathogens tends to give a new student a warped idea of the science. There are plenty of organisms and material with which to study the subject of bacteriology as a pure science and thus lay a firm foundation for the various structures of applied bacteriology which may be built later upon such a foundation.

Professor Tanner is Professor of Bacteriology and Head of the Department at the University of Illinois.



Louis Marshall Memorial Building, New York State College of Forestry at Syracuse, N. Y.

Pittsburgh "Physics" Widely Adopted

Published in January, "Outline of Atomic Physics" by the members of the Physics Staff of the University of Pittsburgh has already been adopted in twenty-one (21) colleges. It meets the needs of second year courses in physics when the aim is to give a well-rounded training in the structure of the atom, the nature of radiation, and the extent of the universe.

Professor L. K. Oppitz of McKendree College writes:

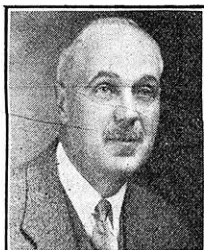
"The unity is remarkable whether one considers the scope of the book or its varied authorship. The time is now here when the most critical teacher can offer a satisfactory course in second year college physics with the aid of this book on modern physics. To study this book is not worshipping at the altar of false gods as the book is very accurate and at the same time interesting and challenging. The subject is developed by well thought-out explanations, clear diagrams and appropriate problems. The mathematics in the book have been reduced to a minimum so as not to deter the most faint-hearted student. Atomic Physics is indispensable to all those who wish to be well informed on what is taking place in the physical world today. I predict a most successful career for this up-to-the-minute book and shall use it in my own classes."

Elementary Heat Textbook Recently Published

"Elements of Industrial Heat" was published in April. The authors are John A. Randall, President of the Rochester Athenaeum and Mechanics Institute, and J. Warren Gillon, Instructor in Heat and Mechanics, also at Rochester Athenaeum and Mechanics Institute.

This book presents the essential fundamentals of heat engineering to the general student in a clear and accurate manner. The general theory is presented in the body of the text while the drill exercises and problems are contained in appendix form. The book is intended for first year courses in Heat Engineering for technical schools and colleges.

Lewis of Utah Writes "Elements of Mining"



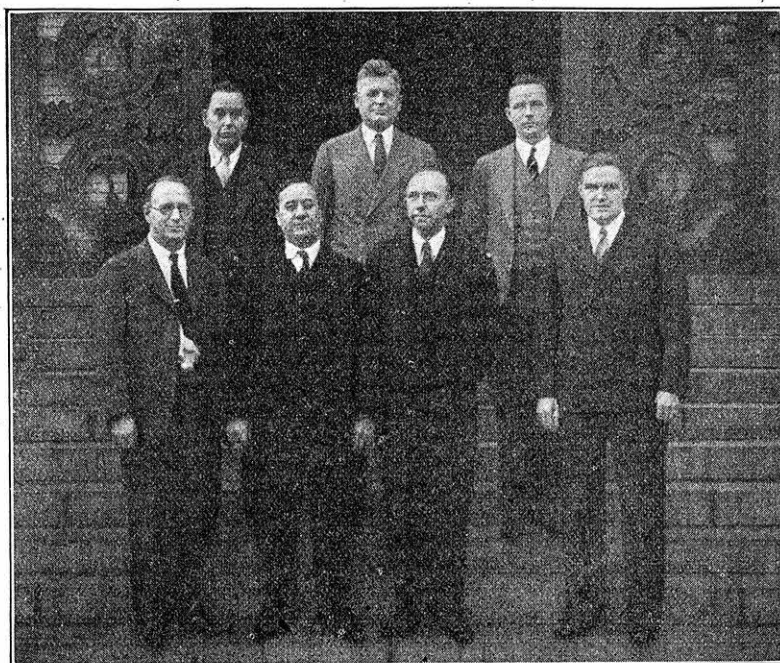
© F. W. Wilcox
R. S. Lewis

"Elements of Mining" by R. S. Lewis, Professor of Mining and Milling, at the University of Utah, was published in February.

This textbook is organized in such a way that it presents all aspects of mining to the beginner in an intelligent and comprehensive manner. The book is based upon a three hours' course in the college year and has a representative bibliography that will enable any chapter to be expanded to greater length if desired by the professor. Numerous illustrations clarify the subject matter.

The first chapter discusses the importance of mining in the commerce of the world, the last two chapters include material dealing with the business side of mining and the intervening chapters are concerned with engineering subjects.

As the author says in his preface—"Mining operations are being based more and more on scientific guidance than on the rule-of-thumb methods that have been followed for so long in many branches of the industry. Problems presented by present day conditions can be solved only by the application of engineering skill based on scientific knowledge of the proper procedure to follow."



Authors of "Outline of Atomic Physics" First Row (reading left to right) Professors A. G. Worthing, W. N. St. Peter, A. E. Ruark, E. Hutchisson. Second Row, Professors G. A. Scott, O. Blackwood and T. H. Osgood.

Huntington Writes "Economic and Social Geography"

Frank Williams and S. Van Valkenburg Collaborate

Professors Ellsworth Huntington, Frank E. Williams and Samuel Van Valkenburg have written a book entitled "Economic and Social Geography," which is to be published the latter part of May.

"Economic and Social Geography" is an interesting, fully-thought-out, and comprehensive text. A continuous thread of geographic reasoning runs through the whole of this book and the exceptional ability and experience of the authors is reflected. Professors of General Geography, Human Geography, Economic and Commercial Geography will find it to be unusually adaptable.

Features which will be of special interest are:—

1. The book goes further than most books in recognizing the fact that much of the importance of Economic Geography lies in its intimate relation to Social Geography.
2. It treats climate in a new way by means of climographs, a device which has proved very acceptable and illuminating to students.
3. It accepts the well established biological principle of climatic and other optima and applies this principle not only to plants and animals and to man's health and energy, but to manufacturing, commerce and social progress as well.
4. The concept of age and quality of soils is applied in a new way to the explanation of many phenomena in tropical countries.
5. The treatment of products is so complete that the book is, in this respect, a work of reference.
6. Illustrations of all sorts of phenomena are drawn in great numbers from the

world as a whole as well as from North America.

The authors are all well-known in this field. Professor Huntington is Research Associate in Geography at Yale. Frank E. Williams is Professor of Geography at Wharton School of Business and Commerce, University of Pennsylvania, and Samuel Van Valkenburg is an Associate Professor of Climatology and Regional Geography at Clark University.

MacNaughton's "Steam" in Revised Edition

Sometime during the early part of May a second edition of "Elementary Steam Power Engineering" by Edgar MacNaughton will be published.

The cordial reception accorded the first edition is an indication of the wide usefulness of the book. This second edition covers the advances made in steam power engineering during recent years. All obsolete material has been removed and new material, illustrations and problems have been added.

A few of the major additions are: use of Keenan's steam tables; a discussion of intrinsic energy, work done under the expansions used in steam power apparatus, theoretical steam power cycles, boiler performance, furnace refractories, automatic combustion control, handling of ashes from pulverized coal furnaces, heat balancing, trends in boiler rating; fan performance, modern power plant trends, power plant location and costs, etc.

The author is Professor of Mechanical Engineering at Tufts College.

Short Wave Radio

A new book on short wave radio was published recently. The authors are A. W. Ladner, Superintendent of Instruction, Marconi's Wireless Telegraphy Co., Ltd., and C. R. Stoner, late of Research Department, Marconi's Wireless Telegraphy Co., Ltd. The book is entitled "Short Wave Wireless Communication."

This book fills an obvious gap in the current literature on the subject and supplies a textbook that will satisfy the needs of engineers, technicians, and those who have already an outline knowledge of long wave working.

Morecroft's "Principles" Thoroughly Revised

The third edition of Morecroft's "Principles of Radio Communication" was published in March. The authors are well-known, John H. Morecroft is Consulting Engineer, and Professor of Electrical Engineering at Columbia University. He has been assisted by A. Pinto, Assistant Chief Engineer, Otis Elevator Co. and W. A. Curry, Assistant Professor of Electrical Engineering at Columbia University.

Since the publication of the first edition of this book in 1921, it has enjoyed a monumental and remarkable success. The new edition incorporates much new material making the book up-to-date and completely modern in every way.

The following are some of the features the new "Morecroft" includes:

1. More material has been added on the subject of rectifying apparatus and circuits, and the action of filters.
2. The newer types of tubes, and wider fields of use of the older ones have received proper notice. Also more material has been added on the shielding of radio sets.
3. The action of piezo active quartz and its use in frequency control has been explained more in detail, and the use of crystal oscillators with degree of frequency control available is shown.
4. The action of microphones, with actual calibration data on the different types is taken up and the question of harmonics introduced by them into modulation is discussed.

Dean Greene Writes on Power Generation



A. M. Greene, Jr.

"Elements of Power Generation" was published in April. The author, Arthur M. Greene, Jr., is Dean of the School of Engineering and Professor of Mechanical Engineering at Princeton University.

This text has been written as an introductory course in power generation for the purpose of familiarizing students with the construction of power plant apparatus and machines in general. The book explains in simple language the underlying principles of machines for generating power, the equipment of power stations, the functions of various types of equipment and the manner of their application and utilization.

New Book on Colloids to be Published in June

During May sometime, a book written by Harry B. Weiser, Professor of Chemistry at the Rice Institute, will be published. The book is entitled "The Colloidal Elements" being Vol. 1 of "Inorganic Colloid Chemistry."

This text serves to emphasize the importance of the colloidal chemistry of the elements and their inorganic compounds and introduces the principles of colloid chemistry from the point of view of their specific applications to inorganic substances.

Special attention has been given to a systematic arrangement of the subject matter and to outlining the same by a generous use of section and paragraph headings. This first volume is concerned primarily with the methods of formation, properties, and applications of the elements in the colloidal state.

The Wiley Bulletin

New York, May, 1933

New Book on Statistics Available

Sometime in May a new book is to be published called "Methods of Statistical Analysis." It has been written by George R. Davies, Professor of Statistics and by Walter F. Crowder, Instructor in Commerce. Both are at the College of Commerce at the University of Iowa.

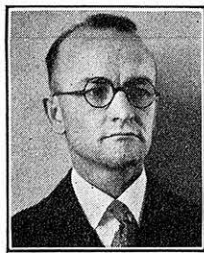
This textbook is for use in statistical courses in colleges of commerce and in departments of sociology and is unusually well suited for the junior and senior years. It is usable, however, for the most elementary students, as the more important chapters have been divided into two parts—a main section and a supplementary section, thus dividing the work into an elementary discussion and a more detailed discussion of techniques and theories.

Specific practical methods and laboratory problems with answers are given. The general scope of the subject is suggested in an introductory chapter and specific reference to the logic of statistics is made in appropriate places throughout the book. The theoretical discussion of index numbers measures very adequately with the most advanced theory at the present time. Graphic methods are introduced in a most detailed and specific way with respect to the charting of frequency distributions. All the more important types of charts have been introduced.

"Organic Syntheses" XIII

Volume XIII of "Organic Syntheses" will be available on June 1st. W. H. Carothers of the Dupont Company is the Editor. Like its predecessors, each set of directions has been carefully tested in the laboratory of one of the editors.

Rawlins of California on "Research Methods"



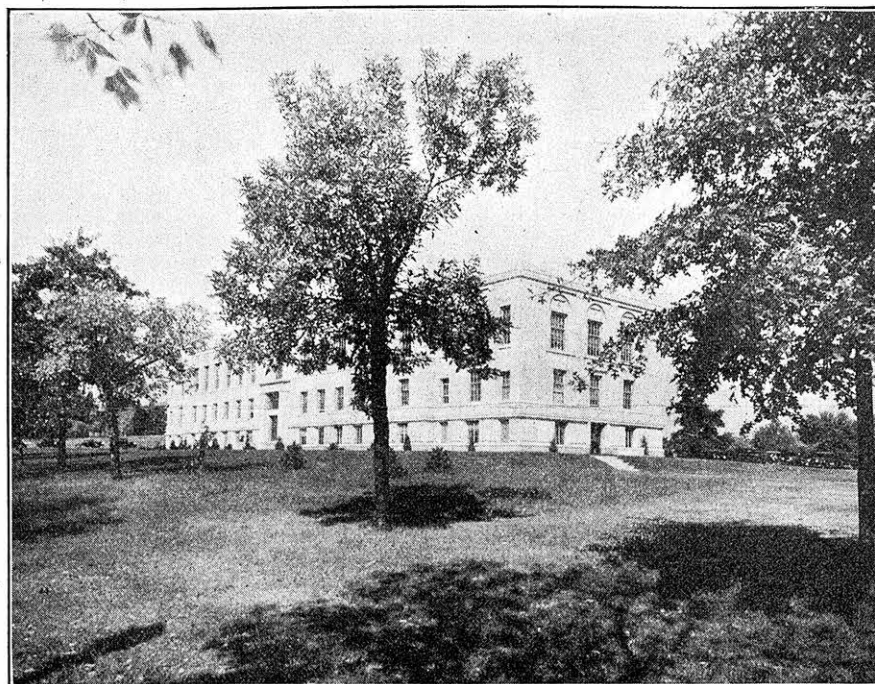
T. E. Rawlins

"Phytopathological and Botanical Research Methods," by Thomas Elsworth Rawlins, Assistant Professor of Plant Pathology at the University of California, brings together for the first time unusually complete information on the diverse fields of

technic involved in modern plant pathology, such as cytology, microchemistry, photomicrography, culture methods, methods of handling viruses, planning of research and interpretation of results.

A few of the many unusual features stressed in this text are:

1. Planning a research project is discussed in a short section.
2. The technics which have been found most satisfactory in phytopathological research are described. Many of these technics are new or improved and are also applicable in other botanical sciences.
3. Improved microchemical technics are described.
4. A short section on the explanation and application of certain statistical methods is included.
5. An extensive classified bibliography lists much of the literature on phytopathological and botanical technic, microchemistry and statistical methods.



Givens Hall, New Home of the Washington University (St. Louis, Mo.) School of Architecture.

Schuchert and Dunbar Revise Historical Geology Textbook

About the middle of May the third edition of Schuchert and Dunbar's "Historical Geology" will be published. This constitutes Part II of the "Textbook of Geology."

The first two editions of this text were received with unanimous approval and have been adopted in many of the leading colleges and universities throughout the country. However, as the desire for a Geology text somewhat less advanced and less technical in its point of view has often been expressed, this third edition has been rewritten expressly for the beginning student with this viewpoint kept in mind.

Because of the diversity of the subject matter of Historical Geology which involves Animal and Plant Biology and Astronomy as well as Geology, the authors have sought to emphasize a few great principles and general conceptions. Thus the beginning student learns to distinguish between an understanding of the principles concerned in geologic thinking and a mass of unfamiliar facts.

A few of the important features of the new edition are: Viewpoint is dynamic—

presents history of the Earth as a living drama.

The treatment is unified—non-essentials are suppressed and the subject matter is woven about central historical theme.

Explains and emphasizes principles of interpretation, avoiding encyclopedic cataloging of facts.

Appeals to student's imagination and understanding rather than his memory.

The book is copiously illustrated with new plates and figures.

Charles Schuchert is Professor Emeritus of Paleontology and Carl O. Dunbar is Professor of Paleontology and Stratigraphy. Both are at Yale University.

Bishop's "Composition" "A Superlative Book"

"Composition and Rendering" by A. Thornton Bishop was published in February.

Teachers, students and architects will find in it not only an inspiration but a definite guide to good composition and a better understanding of the meaning of beauty. The essential principles of composition together with their application to a variety of projects are presented in a manner which will appeal to both professors and students. The book concerns chiefly the structure of a picture illustrated by the sketch form.

Joseph Cummings Chase, Head of the Art Department of Hunter College, says:

"For several years, I have admired the pencil drawings of Thornton Bishop. There is no question as to the superlative quality of his work. Good taste and fitness to purpose distinguish his drawing and denote a master craftsman—There is real goodness for pencil draughtsmen in this book—distinct usefulness because of the straightforward, understandable information concerning medium and material, the expressing of various textures; still more value because of the fine consideration of his subject, Composition, with many true deductions never before in print."

"Cross and Morgan" a Structures Classic

When Cross and Morgan's "Continuous Frames of Reinforced Concrete" was published a short time ago, it was generally agreed that it was "the greatest American contribution to the theory of indeterminate structures." Now additional evidence is forthcoming. Professor H. B. Luther of the University of Cincinnati says:

"You presumably will receive many letters of appreciation for having Professor Cross put out a text making his material on 'The Column Analogy' and 'Moment Distribution' readily available. The last few years have found his work on these methods becoming fairly widely known through various professional papers, which (except for illuminating discussions) is a much less convenient source of information than a well-rounded text. I have been quite as much impressed by the manner of approach which Professor Cross has brought to the problems as by the extremely useful methods which result from this approach. This results in my writing you that I believe this new volume is the most important contribution to literature on structural engineering that has appeared in the United States, and this importance is due to the manner of treatment even more particularly than to the matter treated."

Curtis and Guthrie's "Zoology" Revised

A thoroughly revised edition of Curtis and Guthrie's well-known "Textbook of General Zoology" will soon come from the press. Miss Katherine R. Jeffers of the University of Missouri has assisted Doctors W. C. Curtis and Mary J. Guthrie in the preparation of the new book.

The first edition of this book was received with enthusiasm by professors all over the country. Its merit and reliability have been proven by the fact that one hundred and forty-two schools and colleges adopted it and is conclusive proof of the superiority of its content and the manner in which the entire subject was handled.

This second edition represents a complete reorganization as well as rewriting of many portions of the text. Reduction of certain parts has made possible the addition of chapters upon phyla not included in the first edition and thus an even more comprehensive survey of the Animal Kingdom is given without undue restriction of the chapters dealing with general zoological problems.

Teachers were highly pleased with the point of view and the method of treatment used in the first edition. To quote only two:

"Two features are evident—the clearness of the exposition and the fresh and unhackneyed collection of illustrations. I have been especially pleased by the pictures which represent the latest advances in research; they are a great improvement to the usual old illustrations in textbooks which have been copied from one book to another for a generation or more."

"This is one of the best organized textbooks on Zoology that I have had an opportunity to examine. It impresses me as having successfully presented the basic facts of Zoology to college students. The book has also succeeded in making sufficient application of modern biological knowledge to make it interesting to the student."

Case and Bergsmark's "Geography" Praised

"Case and Bergsmark" may be classed as a general introductory text, emphasizing especially the regional and economic phases of geography. It not only gives a broad view of geography for students who do not intend to pursue the subject further, but also lays the foundation for more detailed and advanced study.

Otto Harris, of New York University, writes:

"I have looked the book over and feel confident in saying that it is by far the best college text in world geography that has yet been published. It is readable and teachable, and the material is well selected and interestingly stated. The authors should be highly complimented for this valuable book which beyond doubt will become the standard college text for some time to come. I have adopted it for the Introductory Courses and the students like it."

Floyd F. Cunningham of Alabama State Teachers' College says:

"In my estimation it is by far the best text for the introductory course that has ever been published. It will serve three purposes: i.e., first, a course in principles or fundamentals; second, a course in world geography; third, a course in economic geography. Never has a text been so written that all three courses mentioned above can be fairly well taken care of in one book."

"Severns-Degler" in Second Revised Edition

About the first of June a new second edition of "Steam, Air and Gas Power," by William H. Severns and Howard E. Degler, will be published.

This new edition is completely up-to-date, all obsolete material having been removed. New descriptions and new illustrations of recent power-plant equipment have been included. A large number of new problems have replaced those of the first edition. The scientific and engineering symbols and abbreviations used in this book are in general accordance, except for the use of periods, with the American Tentative Standards approved by the American Standards Association.

As an elementary text for use in courses dealing with Heat Engineering, where only a limited amount of work in the subject can be included, this book describes briefly and clearly, typical and representative equipment, and explains the theory of such machines and devices.

William H. Severns is Professor of Mechanical Engineering, University of Illinois and Howard E. Degler is Professor of Mechanical Engineering and Chairman of the Department at the University of Texas.

Elementary Thermodynamics Thoroughly Revised

The fifth edition of "Elements of Engineering Thermodynamics" will be published in May. The authors are James A. Moyer, Director of University Extension, Commonwealth of Massachusetts; James P. Calderwood, Head of Department of Mechanical Engineering, Kansas State Agricultural College; and Andrey A. Potter, Dean of Schools of Engineering, Purdue University.

This edition, as the original, is intended for courses in the subjects of advanced thermodynamics as well as in steam turbines, internal combustion engines, refrigeration and other applications of thermodynamics.

In this edition new material including the thermodynamic treatment of uniform flow processes and new vapor tables for steam and ammonia have been added. Reversible and irreversible processes are given additional attention, and the symbols have been changed to conform with those now standard for vapor and other thermodynamic calculations.

Deming's Introductory Chemistry "New, Distinctive"

Comparable in Quality to "General Chemistry"

From all indications Dr. H. G. Deming's new "Introductory College Chemistry" will be widely adopted next fall. Like the author's successful "General Chemistry," it contains many new and original features which appeal to teachers. Here are two comments which give a comprehensive idea as to the contents and point of view of the book.

C. H. Sorum, of the University of Wisconsin in the current issue of the Journal of the American Chemical Society, writes: "Introductory College Chemistry" by the author of the highly popular and widely used Deming's 'General Chemistry' is new and distinctive. Carrying the stamp of excellence of the above-mentioned 'General Chemistry' it is 'simpler and easier, follows a different plan, has completely new exercises, and is written for readers who are less advanced and perhaps less interested in chemistry as a profession.' An easy and graceful style combines with clearly presented and aptly illustrated general principles to make it both readable and teachable. Outstanding topics are first presented in simple form and then repeatedly referred to in later chapters, 'developing each subject gradually by repetition and enlargement.' The history of the development of many interesting phases of chemistry is interwoven in a fascinating manner.

"The index is very complete; repeated cross references make for greater clarity of subject matter; an appendix of definitions summarizes important ideas; each chapter is concluded by a very complete and comprehensive list of reading references; each individual subject within a chapter is numbered, a detail which is particularly valuable in making assignments."

"The outstanding feature of the book, however, is the large number of questions and exercises of a very original and unusual character which appear throughout and at the end of each chapter. 'A great many details that textbooks commonly present as statements of fact, particularly concerning the applications of individual elements and compounds, are made to appear as questions to provoke thought.'"

Such questions are of genuine value to the student in that they encourage him to learn to think, which, after all, is one of the primary aims in teaching chemistry."

T. H. Whitehead of the University of Georgia states:

"I am so favorably impressed with it that I am going to use it in my summer course this year. I am weary of the usual so-called new texts and it is a distinct pleasure to see a text that really seems to be new in its make-up."

"We have tried all of the standard texts and although they are good in their way, none of them have been satisfactory. We have had to give our students mimeographed outlines, study questions, and coaching classes in order to properly do the work. This will be unnecessary, I think, with Deming's book."

"I am particularly delighted to see that general principles are introduced through practical application rather than as formal statements to be memorized. Further, Dr. Deming recognized that the name of a law is subordinate to the law itself. He omitted Le Chatelier but not his law. I think the book reflects a great deal of study and labor on the problem of effectively presenting inorganic chemistry to beginners."

Franklin of M. I. T. Writes Mathematics for Electricals

This month a book, "Differential Equations for Electrical Engineers," is to be published. The author is Philip Franklin, Associate Professor of Mathematics at the Massachusetts Institute of Technology.

This text is adapted to a course following a first course in the calculus which includes some work in ordinary differential equations. It gives a brief introduction to several topics in mathematics necessary for advanced work in electrical engineering, such as Fourier series, complex numbers, systems of ordinary differential equations with constant coefficients, partial differentiation and the simpler types of partial differential equations. The initial chapters are adapted to the mathematical ability and knowledge of the average electrical engineering student. The last two chapters fill in certain theoretical points taken for granted in the preceding work and will enable the student of exceptional mathematical interest to develop himself to the point where he can consult the specialized treatises on the theory of functions and partial differential equations.

"Miller"—a Success

In its first year, Miller's "Introduction to Physical Science" was adopted in thirty-three (33) colleges despite the handicap of an August publication. In the fall a number of teachers will give it a trial. Teachers tell us that it will be widely used for three reasons:

- 1-Excellent selection of material.
- 2-Inclusion of modern physics.
- 3-Arouses interest of students.

Engelder's "Qualitative" in Second Edition

A second, thoroughly revised edition of Engelder's "Textbook of Elementary Qualitative Analysis" is in press and will be published on May 20th.

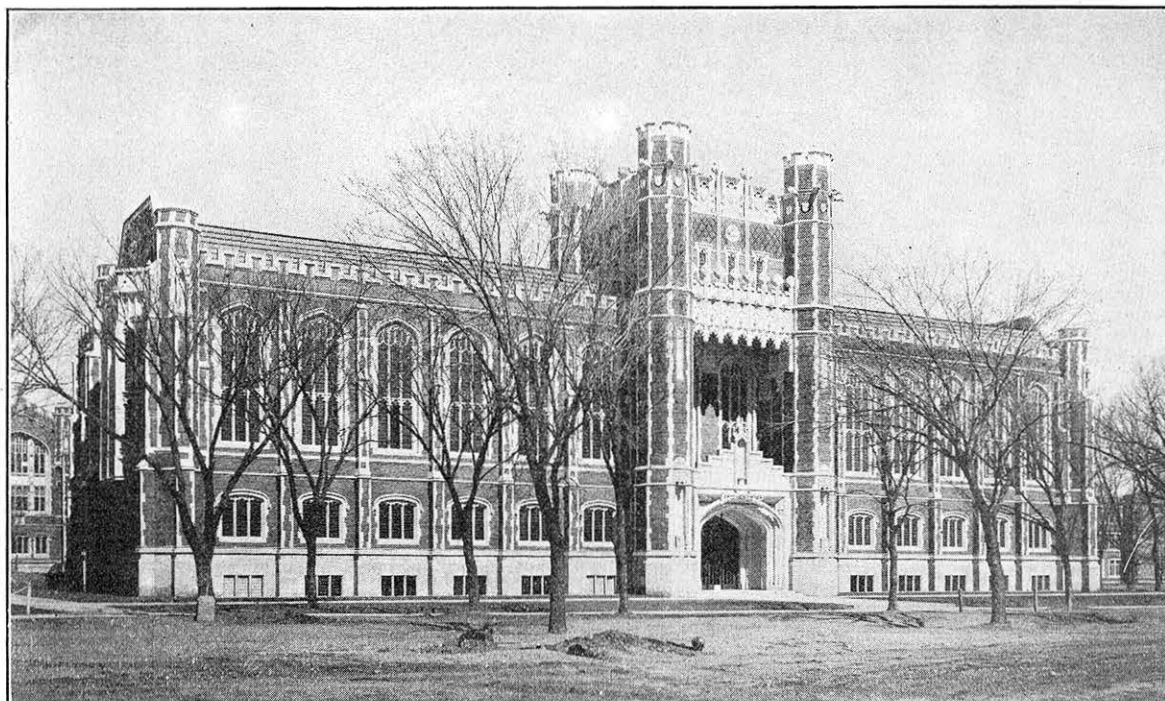
This second edition has been rewritten in a more concise and clearer form and the book is now completely up-to-date and modern in every way.

The first part of the text sets forth in a remarkably concise and understandable manner, the fundamental principles of qualitative analysis and the theory of reactions. These are later elaborated upon, in the procedures of analysis, and made tangible by their application to actual cases. At suitable intervals throughout the book, groups of questions, problems, and the writing of equations and schemes have been inserted, which constitute review exercises. Preliminary experiments are given which serve as a foundation for comprehending the methods of separation and identification. The definite application of theory to analysis is discussed thoroughly in the various sections of the book.

Morecroft on Tubes

Professor John H. Morecroft's "Electron Tubes and Their Applications" will be available on or about May 25th.

This text covers completely all types of electron tubes and their many applications. The first part of the book discusses a general treatment of the subject of extracting electrons from metals and methods of utilizing them. The succeeding chapters deal with the characteristics and applications of all types of commercial tubes. For a general course on electron tubes, this book is unusually well adapted. It is written in a simple and direct manner.



New Library, University of Oklahoma

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LUBBOCK, Texas, July---. The second term of the summer session at Texas Technological College will begin with registration July 15. Classes will begin Monday, July 17. The summer term closes August 23 and commencement exercises will be held on that day. The ninth annual fall session opens September 18.

LUBBOCK, Texas, July---. Six pre-medical students of Texas Technological College have been accepted for entrance as freshmen in the Texas State Medical school at Galveston for next fall. They are: John L. Dean of Crockett, Jack Doughtie of Cleburne, Alfred J. Jenson of Clifton, Harrison Munroe of Abilene, Warren Poole of Floydada, and Travis Smith of Winters.

There were 156 applicants for the 100 places, most of the applicants being from Texas colleges.

LUBBOCK, Texas, July---. The new annual catalog of Texas Technological College, including revisions in courses covering the change from the term to the semester plan, will be ready for distribution about July 21. Catalogs will be mailed free to those who make application.

LUEBOCK, Texas, July---. How to kill caterpillars which destroy the leaves of the Lombardy Poplar is explained by Prof. Geo. W. Woodbury of the department of horticulture of Texas Technological College. He says:

"This pest constitutes a serious menace almost every season. It is found principally only on this particular species, no evidence having shown that it attacks the common Cottonwood. The Lombardy Poplar, of course, is characterized by its tall slender form.

"This pest is best controlled by spraying with an arsenical poison, arsenate of lead being preferred on account of its small cost and the ease with which it may be obtained. It can be purchased in limited quantities at almost any drug store. This same poison is the one commonly used for controlling potato beetles. It is purchased either in the paste or powder form. Mix the paste with water at the rate of from four to five pounds per 100 gallons. The powder is used at one-half the above rate.

"The material should be sprayed on the tree with a pressure sprayer, care being taken to cover the foliage thoroughly. It is not necessary that the insect be covered, as arsenate of lead is a stomach poison and the insect must eat it. Usually one good application will give fair control, although succeeding treatments should be made if the pest persists."

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, July---. A field course in agricultural economics which will cover 5,000 miles in northern and eastern states will leave Texas Technological College July 15 under the direction of Dr. J. O. Ellsworth, head of the department. Seven students, juniors and seniors, will make the trip. Economic problems of agricultural life and farm management will be studied on outstanding farms in 15 states and also the operations of agricultural markets in Chicago, Kansas City, and New Orleans.

The party will visit experiment stations and agricultural departments of colleges, including Oklahoma A. & M. at Stillwater, Iowa State College at Ames, University of Minnesota at Minneapolis, agricultural experiment stations at Madison, Wis., Urbana, Ill., Lafayette, Ind., Baton Rouge, La., and Crowley, La.

The Union stockyards and the Board of Trade at Chicago will be visited, also the Armour plant, the Federal Reserve bank, and the municipal produce market. Stops will be made at the hay and grain markets in Kansas City, the stock exchange in New Orleans, and the municipal market and Federal Land bank in Houston.

The trip will cost \$170 per student. A bus has been chartered and will be driven by the students. All equipment will be carried on the bus. The field course carries nine hours of college credit.

LUBBOCK, Texas, July---. A relief map of West Texas and Eastern New Mexico has just been completed by engineering students of Texas Technological College under the direction of Prof. F. A. Kleinschmidt, head of the department of architectural engineering. The map has been made for the West Texas Chamber of Commerce and is to be sent to Chicago with other exhibits later in the month, to be housed in the Texas building, now closed.

Students who did the work are: James Atcheson of Lubbock, Ralph Davis of El Paso, John P. Foster of Stratford, Houston Hinson of Lubbock, Carl McAdams of Gordonville, and J. Oran Sanders of Big Spring. The six men did over 1200 hours' work on the map.

The map is 12 feet square and is made of sawdust and paper pulp. It is colored to show the different types of land, such as wheat land, cotton land, cattle grazing land, and other types. Rivers are shown in blue, oil pools in black, railroads in black lines, and highways in red. One hundred eighty-three towns in the West Texas Chamber of Commerce are shown, four of which are in New Mexico and the remainder in West Texas.

LUBBOCK, Texas, July---. One thousand forty-two students from 286 towns and 136 counties in Texas are attending Texas Technological College during the first summer term, out of a total enrolment of 1,022. The remaining 40 students come from Alabama, Arizona, California, Georgia, Louisiana, Missouri, New Mexico, and Oklahoma, with one student registered from China.

news letters

7/24/33 From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, July---. The 1933 fall semester of Texas Technological College opens September 20 for freshmen, and September 21 for all other students. Entrance examinations for students, who cannot meet the requirements by high school credits, will take place September 18 and 19. The second semester will open February 1. The college is changing from the term to the semester basis beginning with the fall session.

Tuition fees, provided by law for each student who is a bona fide resident of the State of Texas, will be \$25 per semester. A uniform deposit, covering breakage in all laboratory courses, library fines, and other charges for injury, loss, or destruction of state property, will be \$7.50, the unused portion of which will be returnable at the end of the semester. A medical service fee of \$2.25 per semester, which is optional, covers medical care and hospitalization for a limited period.

A student activity fee of \$5.00, which is also voluntary, entitles the student to free admission to all football games, basketball games, and other athletic sports. Special course fees and rental charges will be made for courses in typewriting. Otherwise, all laboratory courses are included in the \$7.50 deposit.

Students who are non-residents of the State of Texas will be charged an additional fee in accordance with the new law, which provides that the fee shall be an "amount equivalent to the amount charged students from Texas by similar schools in the state of which the said non-resident student shall be a resident."

LUBBOCK, Texas, July---. Motion pictures of several championship football games will be one of the features at the Texas Technological College coaching school which will be held July 31 to August 12, according to Head Coach Pete Cawthon.

Coach Andy Kerr of Colgate is bringing a complete moving picture of the Colgate vs. Brown game played last fall, showing the double wing back offense of the Colgate team which won them the championship of the East last year.

The short punt formation involving great passing attacks by the Michigan university Wolverines, winners of the Big Ten championship last fall, will be demonstrated in pictures of at least three Michigan games which Coach Harry Kipke is bringing. This short punt will be the most popular system at the coaching school this year, since 75 per cent of the high school coaches use it.

Bernie Bierman's single wing back formation, that hard driving offense which put Tulane university at the peak of the football world, will be demonstrated in a film of the Southern California vs. Tulane game played in the Rose Bowl at Los Angeles two years ago.

Coach Noble Kizer of Purdue will show the Northwestern vs. Purdue game played last fall, in which the Notre Dame shifting offense radiates with intricate timing, perfect blocking, and infinite power back to the weak side, with the unequalled weak side spinning attack.

This is the third annual coaching school to be held at Tech. Registration fee for the school will be \$25.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, July---. The Texas Agricultural Workers' association will meet in Lubbock in January, 1934, under the auspices of the agricultural division of Texas Technological College. Prof. W. L. Stangel, head of the animal husbandry department, is meeting with the officers of the association at College Station this month to plan the program.

LUBBOCK, Texas, July---. The total number of individuals enrolled for the summer school at Texas Technological College is 1,287. There were 1,082 students enrolled the first term, and 728 have enrolled for the second.

The 19.86 percent reduction over the 1932 summer school figures of 1,606 may be attributed to three things, according to President Bradford Knapp: the fact that funds were not voted for summer schools at state institutions until about a week before the time for opening, the issuance of warrants instead of cash to teachers in many Texas schools, and the general economic situation.

8-2-33
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From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Aug.---. Clifford B. Jones of Spur, chairman of the board of directors at Texas Technological College, has recently been appointed regional advisor for Texas, Louisiana, and New Mexico by President Roosevelt for his public works administration.

Mr. Jones, whose office will be in Fort Worth, is one of ten men appointed by the president to work with the national planning board in Washington on the expenditure of federal money to redistribute employment in the 48 states.

Functions of the regional advisors will consist of obtaining from the state boards within the region lists of projects under consideration by them together with recommendations or rejections. Each regional advisor will visit the offices of the state boards within his region from time to time and consult with them for sound local and district planning.

Mr. Jones was president of the West Texas Chamber of Commerce in 1921, and is now a member of its executive board. He is also serving on the directorate of five railroads, the Spur National bank, the regional agricultural credit corporation in Fort Worth and Dickens county, and the Trinity Bond and Investment company of Fort Worth. Since 1911, he has been manager of the Swenson interests in northwest Texas. He has been a member of the board of directors at Texas Technological College since its founding in 1925.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Aug.----. A four year course in commercial art will be offered in the department of architecture and allied arts at Texas Technological College during the coming year. The course of study is planned to prepare students for work in commercial advertising and illustrating fields, or for teaching art in public schools. Emphasis may be given a purely cultural study of the fine arts if the student desires.

The department has been materially aided by a gift from the Carnegie corporation of teaching equipment valued at \$5000, according to Prof. F. A. Kleinschmidt, head of the department. The donation was made for the purpose of furthering interest in the fields of art and architecture in this section of Texas.

LUBBOCK, Texas, Aug.----. A mechanical engineering major which will prepare students for administrative rather than technical duties will be offered at Texas Technological College next year, in addition to the regular mechanical engineering degree. The course will give training in the fundamental sciences, mathematics, engineering, business administration and economics, and at the same time will give sufficient knowledge of the fundamentals of engineering to enable the student to master the more technical subjects if the need arises.

From Texas Technological College Free News Service -- Cecil Horne

LUBBOCK, Texas, Aug.----. Majors in three distinct fields of the textile industry will be offered at Texas Technological College next year, according to Prof. C. D. Brandt, head of the textile department.

In addition to the major in textile engineering which has been offered heretofore, and which is designed primarily for those interested in operation or management of a textile mill, there will be a four year course in textile chemistry and one in fabric design.

The textile chemistry course will include work in dyeing, finishing, bleaching, laundering, dry cleaning, and the manufacture of rayon and chemicals.

The course in fabric design will offer practical training to men and women students who are artistically inclined. One phase of this work will be the laying out of original designs in fabric structure by the student and weaving them on the power looms.