

**Seniors Must
Get Invitations**
Orders Should Be Made
With Officials By
Next Friday



The Summer Session TOREADOR



**Class Efforts
To Bridge Gap**
Executive Committee
Of Seniors Will
Aid School

VOLUME XII

LUBBOCK, TEXAS, FRIDAY, JULY 29, 1938

TEXAS TECH

NUMBER 71

Health Workers Study General Subjects Now

Authorities To Appear On Program For Coming Week

GENERAL study is the theme of current work in the health workers and sanitation short course for the next week.

Several prominent authorities in this field are scheduled to appear before the daily classes to discuss various subjects related to "Elementary Water and Sewerage", "Elementary Water and Sewerage—Sedimentation" and "Industrial Hygiene". This afternoon he is listed under the heading of "Photography".

Appearing on today's program will be Dr. Carl A. Nau, director of industrial hygiene of the State Health department. He is scheduled to speak on "Elementary Water and Sewerage—Sedimentation" and "Industrial Hygiene". This afternoon he is listed under the heading of "Photography".

Baugh Here Tomorrow

Tomorrow the course bulletin states that W. L. Baugh, jr., district sanitarian of Public Health District number 1, will discuss "Camp Sanitation". J. C. Oliver, district sanitary engineer of Public Health District number 1, is scheduled to collaborate with G. W. Parkhill, assistant professor civil engineering and in charge of the classes this term, in presenting a discussion of "Watershed Sanitation". Oliver is to appear also on Tuesday and Wednesday programs.

Wharmund To Speak

Felix Wharmund, president of the Associated Master Plumbers of Texas, has been scheduled to speak on "Plumbing" Wednesday afternoon. Headlining Thursday's class schedule will be the appearance of J. A. McLeod, sanitation consultant of the U. S. Public Health Service. He is to discuss three topics related to Community Sanitation—"Excreta Disposal", "Mosquito Control", and "Practical Program of Sanitation".

Among the men which have lectured before the group the past week were H. N. Roberts, consulting engineer who was on the campus yesterday. C. C. Jobson, county agent, spoke Wednesday on "Insect Control", and M. R. Smith, jr., city manager and M. R. Smith, jr., city engineer, appeared Monday.

Sellers Gets Into Eastland Runoff

Wayne Sellers, Rising Star, June journalism graduate is in the runoff for representative to the legislature from the 107th floratorial district composed of Eastland and Callahan counties. Sellers, who led the ticket by a small margin is pitted with Omar Burkett of Cisco in the runoff campaign.

Running on a platform of less politics and more efficiency in state government, Sellers stressed the desirability of giving young men their rightful opportunity to engage in governmental affairs.

Sellers was employed by the Texas Tech Press and the Lubbock Avalanche-Journal while a student in Tech and was a member of the Kemas club and Texas Tech Press club.



TONIGHT
Dance in Women's dormitory, 8:30 to 11 o'clock.
Wednesday, August 3
Showing of best talking pictures of visual education series on Administration building green, Public invited.
Thursday, August 4
"Magnificent Brute", talking picture, Administration building green.
Friday, August 5
Dance in Women's dormitory.

McMillan Offers Motion Pictures On Play Program

Approximately 300 persons attended a lecture and moving picture show of "Wild Animal Life in the Southwest" presented by W. G. McMillan Wednesday night as one of the highlights on this week's recreational program.

Three reels of film in technicolor depicting the life of native birds of this section, coyotes, rattlesnakes, deer, quail, and many other such animals were described by the local naturalist.

Studies Habits

McMillan has spent much time studying the lives and habits of wild animals over various sections of the United States, making films of his observations. He made a trip last year into the wilds of Canada to hunt and film wild animal life in that part of the country.

Last night a full length motion picture, "Sutter's Gold", was shown to holders of summer recreational tickets. The movie, presented on the Administration building green, starred Edward Arnold, Lee Tracy, Binnie Barnes, and Katherine Alexander. The film was a historical presentation of the gold rush in California and the economic and social conditions which resulted from the new discovery.

McRee Gets More Traffic Requests

More requests for information concerning the short course in Traffic Safety and Automobile Operation has been received by officials in charge.

Ten persons are now enrolled in the second term of study of which F. L. McRee, associate professor of engineering, is in charge.

Wants Syllabus

Permission to mimeograph a syllabus on traffic safety and safe automobile operation worked out by students in the course last year was asked by M. E. Broom, assistant superintendent of the El Paso Public Schools. Information concerning the course for high school study was also requested by James Carr, a teacher in Otter Creek High school of Terre Haute, Indiana.

The letter from El Paso states that the mimeographed syllabus would be "for use by our teachers during the coming school year. We shall have about 200 teachers instructing 4000 high school students in traffic safety and we are anxious to give them as much good material as is available".

McRee said that permission to use the syllabus had been granted provided that proper credit was given to the college.

Matriculation Figures Surpass Former Record

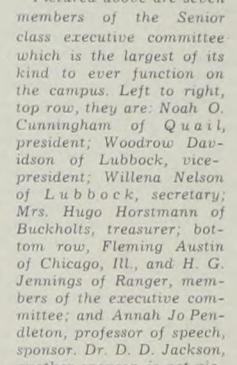
Final registration totals show that 1835 students have enrolled for second term of summer session, a report from W. P. Clement, registrar, stated. Of this number, 255 are new students.

This year's total shows a substantial increase over that of last year, which was 1695.

Classes officially began Wednesday, July 20, at 7 o'clock. Summer school commencement and graduation exercises are scheduled for August 24, on which date final examinations for the second term will begin. Summer school closes Thursday, July 25.

Tom Coker, editor-elect of the 1939 La Ventana, is in Alabama, visiting his father, who was seriously ill there. Coker had spent early weeks of the summer in Cisco, having returned to the campus three weeks ago to complete plans for the forthcoming yearbook.

They Direct Seniors



Pictured above are seven members of the Senior class executive committee which is the largest of its kind to ever function on the campus. Left to right, top row, they are: Noah O. Cunningham of Quail, president; Woodrow Davidson of Lubbock, vice-president; Willena Nelson of Lubbock, secretary; Mrs. Hugo Horstmann of Buckholts, treasurer; bottom row, Fleming Austin of Chicago, Ill., and H. G. Jennings of Ranger, members of the executive committee; and Annah Jo Pendleton, professor of speech, sponsor. Dr. D. D. Jackson, another sponsor, is not pictured.

Seniors Effect Organization In Recent Meeting, Make Plans

Cunningham, Adkins Tell Of Activities For Summer Class

DECISION on contracts for invitations, tentative plans for a class gift, and formation of an eight-member executive committee are activities marking the first week of organization within the summer graduating class.

Jack Adkins, of Borger, chairman of the invitation committee, announced yesterday awarding of the invitation contract and set the deadline for ordering the cards at Friday, August 5.

Noah O. Cunningham of Quail, president of the class and chairman of the executive committee, yesterday revealed that tentative plans for purchase of a senior gift are being considered by the committee, and a decision likely will be reached at the next meeting of the class, which probably will be held late next week.

Sixty Attend
More than sixty candidates for August graduation attended the recent organization meeting of the class, when Cunningham was named president.

Cunningham, candidate for the bachelor of science degree in administrative education, first attended the college in 1929. Now principal and coach of the Quail Rural High school, he has been in Texas public schools for eight years.

Vice-president of the class is Woodrow Davidson, senior textile engineer of Lubbock. Member of the Engineering society, Davidson will be employed by the Bibb Manufacturing company, Columbus, Ga., after his August graduation.

Nelson Named
Willena Nelson, home economics education student of Lubbock, was elected secretary of the class. She is a member of the Home Economics club and Phi Upsilon Omicron, honorary home economics organization, and former president of Las Leales, women's service club.

Mrs. Hugo Horstmann of Buckholts, primary education major, was elected treasurer. (See SENIORS, Page 4)

Human Bulldog, Modern Atlas, Indian Gridder Appear In Football Publicity

Monologue Artist Performs Monday

Versatile even in individual portrayals Bob Jones, jr., entertained an audience of over 200 summer school students Monday evening with his famous Shakespearean program, "Curtain Calls".

The young monologue artist brought before the eyes of the group scenes of the bloody Richard, the crafty Shylock, the roughish Falstaff, the mad King Lear, and many others of the immortal characters of Shakespeare. The performance was given in the local high school auditorium.

Colorful stage settings, lighting effects, and special costumes, designed and created under the personal direction of the artist, gave his presentation emphasis.

In the space of little over an hour this famous character actor made the audience acquainted with the adventures of the rollicking Falstaff, the dotting old King Lear, the deposition scene of Richard the Second, the murder of King Duncan in Macbeth's Castle at Forres, and other such notable scenes which sprang from the pen of Shakespeare.

This program is said to be one of the best of its kind ever to make the circuit of American stages. The main attraction of the show is the fact that all the most difficult characterizations of Shakespeare are presented by one person. Bob Jones is acting president of Bob Jones College, created by his father, and is only in his middle twenties.

Teaches In Kirkland
Miss Earlene Wischkaemper, 1936 graduate, will teach English in Kirkland High school next year. Since her graduation, she has taught in Samnorwood High school.

Athletic Department Is Distributing Flashy Picture Posters

"IT'S the 'big time' color again!" Flashing signs—human bulldogs, a modern Atlas, Indian football players, cowboy tackles, an overflowing stadium, and a smashing Scarlet gridiron eleven.... That's the panorama presented on the new publicity posters of the Red Raider athletic department for the 1938 season.

Big Campaign

The most extensive advertising campaign in the history of the college is nearing final stages over on the north side of the campus. Coach Dutchy Smith, who beats a mean publicity typewriter as well as assists in putting out winning football teams, smiles broadly at his work and hands out a few "facts and figures" on the new posters.

The new picture posters are 20 inches by 30 inches and show a large bowl filled with a crowd watching a football game. In a semi-circle over the back portion of the huge stadium are ten pictures of footballs each of which has listed a Tech opponent, the date of the game, and the city in which the contest will be played.

Designs Vary

The design on the foreground of the posters vary. There are 17 different foreground designs, 225 picture posters in all. They are to be distributed over a wide territory from which Tech draws football fans.

Some of the designs show that the Crimson Tide still retains all the color that has elevated the eleven into top ranks among the nation's football circles. Probably the most interesting are the ones showing John Kaaua, guard, dressed in his native Hawaiian attire, "Highbrookets" Overton, tackle. (Continued on Page 4)

Dobie Is Speaker On Artist Course

Expressing the hope that wild animal life in the Southwest will be protected in the future J. Frank Dobie, Texas university lecturer and author, appeared on the summer artist course Monday evening.

"Next to God a coyote is the smartest thing on earth", the speaker declared. Approximately 450 persons heard his talk.

He told many stories of the roadrunner, a bird that is a native of this section and stated that such wild life should be preserved here just as much as protection is given to animals in other sections of the nation. Various habits of the coyote in its native haunts were described.

Dobie is one of the staunchest friends of Southwest folklore, those who have studied and read his books say. He is secretary and editor of the Texas Folklore Society which under Dobie's direction has brought out and published 13 volumes. One of his most widely known books is "Coronado's Children".

The lecturer-author left here for California where he is to study in Huntington library to do research work for his next book pertaining to "Texas Longhorns".

Miss Doris Montgomery, June graduate in English, is employed in the First National bank of Darrouzett. For three weeks early in the summer, she worked in the Amarillo offices of Farm Security administration.

Rollin Herald, junior journalism student, is vacationing with his Fort Worth family in Northwestern United States. He will re-enter the college this fall.

White Tells Of Movies, Dance For Play Card

Two Motion Pictures On Recreation Program Next Week

TWO motion pictures and a dance make up the program for recreational fans next week.

A dance tonight from 8:30 to 11 o'clock in the Women's dormitory climaxes this week's entertainment, which has seen large crowds attend lectures, characterizations, and motion pictures.

Wednesday a series of the best motion pictures which have been shown to the visual education classes on the campus will be selected and shown on the Administration Building green. The public is invited to attend this performance, announced Paul White, assistant in charge of the summer recreation program.

"Magnificent Brute", a full length motion picture, starring Victor McLoughlin and Binnie Barnes, will be shown Thursday evening on the green. Equipment for the showing of these films has been purchased by the college.

The weekly dance in the Women's dormitory will close the week's program.

Season Ducat Sale To Begin

Marquette And Montana Games Highlight Home List

Season tickets for the 1938 Red Raider home football games go on sale Monday morning at the Hilton hotel.

Price of the ducats will be \$7.70.

This includes six home games at a saving of \$3.85 to the customer who would ordinarily buy separate tickets for each contest. Persons who held season tickets last year may reserve the same seat or box for the 1938 games announced "Bo" Williams, graduate manager of athletics.

Home Games

A list of the home games shows Montana State opening the season here Sept. 17. The next week Wyoming university journeys to the city. October 8, the Oklahoma City university Goldbugs invade the Scarlet arena for a tussle. Loyola university and Gonzaga university do battle with the Crimsonson on Nov. 5 and 11 respectively.

Thanksgiving the climaxing game of the year will be reeled off before what will probably be the largest crowd of the entire season. Sweeping down from the north the Golden Avalanche of Marquette university engages the Scarlet Raiders in a contest which will do much to decide the supremacy of the two sections of the nation's football world. Marquette has long been an outstanding gridiron power constantly playing and winning over some of the best known teams of the United States.

Games Away

Four out-of-town games scheduled are highlighted by a trip to Pittsburg September 30 where the Duquesne Night Riders will be seeking revenge for their 13-0 defeat at the hands of the Red Raiders last year. The second road trip will be to Missoula, Montana, where Tech plays Montana university October 15. Texas Mines and the Crimsonson meet on a neutral field, Odessa, October 22. And the last journey will be to Albuquerque, N. M., where Tech plays New Mexico university in its second Border conference contest.

Student activity tickets will remain the same price that they were last year. The \$10 book entitles the holder admission to all athletic contests.

The Summer Session Toreador

OFFICIAL PUBLICATION OF TEXAS TECHNOLOGICAL COLLEGE, LUBBOCK, TEXAS

Fred Griffin Editor-Manager
T. J. Harris Associate Editor
Lorena Owens Advertising Manager
Elvira Smith News Editor

Seniors Bridge Wide Gap

Summer enrollment in any college presents a picture of widely separated individuals—widely separated in vocations, age, interests, and other phases of personal life. The only uniting bond is found in the fact that they are enrolled in the same college, occasionally in the same courses.

Instructors have recognized this fact in outlining courses of study, but the students themselves are not conscious of the breach which separates the two principal divisions of the enrollment.

Probably more than fifty percent of the enrollees in Texas Tech and every other college in the nation each summer are grade school and high school teachers who for three months each year leave their pedagogical duties better to prepare themselves for training their pupils the following winter.

In the minority are regular college students who may for various reasons be studying in the summer, adding to the fund of knowledge they have obtained in the long session. Realizing a difference between two parts of the year in education, these students may be compensating for failed courses or for time they have lost by working or failure to enroll during the long terms of their regular college careers.

Each of the two parts of the summer enrollment is barely conscious of the presence of the other. The teachers gather in the cloisters of the buildings between classes to discuss the problems of their profession, barely noticing the passing of younger enrollees. The long-term students gather in avenue hangouts to speculate or reminisce on social affairs and snap courses.

Almost unbridgeable is the breach between two such groups, and the difficulty of effecting any sort of co-operation is demonstrated each summer when the graduating class holds its organization meeting. So far apart were the two factions that no social affair was well-attended last year. This year the class was off to a better start, and an executive committee composed of approximately equal numbers from each party is working toward cementing the organization within the coming four weeks.

All graduating seniors and candidates for the master's degrees should consider the advisability of such cementing, and they should work toward accomplishment of that and other aims set forth by the organization. The breach itself is inevitable, but there is no reason for the failure of an attempt to bridge the gap between young college students and only slightly older teachers, especially when the object is furthering the interest and effectiveness of higher education here.

South Texan Talks Cotton Problem

With a large wheat crop as a feature of the 1938 world agricultural output, indications point to the same condition being true of the cotton industry in the South.

Figures showing the activity of the cotton mills of the world reveal that they were somewhat less active in May than in the preceding month of April, according to information which the Bureau of Agricultural Economics has compiled from their reports. Also revealed is the fact that the mills were something like 25 to 30 percent less active than in the same month of last year, one that has been declared exceptionally favorable to the reduction of the world carry-over.

The cotton problem is not yet solved, for no commodity that has been grown as long, and has consequently afforded the Southern farmers their chief sources of income for so long a time, can be solved or forgotten in a very short while. Economists and government officials have set up new policies of restricted plantings, soil conserving practices, and other plans for the sale and marketing of the staple, but the problem of cotton has yet to be answered in anything like a satisfactory fashion. The problem which is presented by the cotton situation is still one worthy of the best minds of the world.—South Texan



The Daily Iowan's columnist observes that often the best students are those who know their professor's idiosyncrasies.

Tooters in the University of Pennsylvania's band have barred coeds. They claim girls would spoil everything—disrupt discipline, to say nothing of the embarrassment it would cause when the outfit had to change into its uniforms in the aisle of a railroad coach.

Peace Requires Sane Thinking

Shortly after the end of the World War, it was a mark of intelligence and wisdom in world affairs to be called "pacifist". Fifteen years ago the world carried fresh in its scarred memory all the blazing horrors and dastardly deeds of Mars and his minions.

But, to be trite, times have changed. In some inexplicable manner, the principles of pacifism have become hopelessly entangled and confused with the issues of communism, facism, and nazism. Methods of the populace, especially its younger members, who have interested themselves in attempts to destroy the likelihood of military strife have become so closely similar to the propagandic methods of Russian, German, and Italian "organizers" that the popular mind of democracy is beginning to shudder at the mention of peace promoters.

Short-lived though some of the attempts at organizing for peace have been, each one has left the imprint of its soap-box oratory upon its spectators. Certainly arming for peace and rioting in the streets constitute a poor method of redeeming the youth of all lands from its hopeless destiny of cannon-fodder.

Through the doubtless worthwhile intentions but toward results of such organizations, the thinking intellectual no longer wants to be committed to the cause of peace; he is afraid he will be branded communistic. No matter how much he may desire international peace, he fears the jeers of the crowd if he so much as hints at a hope for abolition of war.

Such a condition is the result of changing social conditions in Europe which have made possible the Five-Year Plan, the Hitler and Mussolini regimes, the Japanese invasion of China, and the three-year social revolution in Spain. Those difficulties may work themselves out without serious international complications, but they too will do their bits to take the hope of peace farther from us.

The modern thinker must be sensible to the dangers of mob psychology in all these matters. The modern teacher must instill into his charges a respect for the ideals of peace and wholesome, peaceful living guided by the principles of social justice. Basing his political thinking upon the Washingtonian and Jeffersonian principles of Americanism, the modern young American must evolve his own theories, unhampered by red flags, black shirts, and swastikas; he should emerge from our educational institutions as a stone wall dedicated solidly, not spasmodically as a sound truck bedecked with "Down with War" placards, to international peace and sound national government.

College Paper Offers Reading As Habit

An established habit of reading with ease and intelligence guarantees a variety of returns. The fundamental returns of reading are: information, enjoyment, understanding, stimulation, and inspiration. To be unable to read easily and intelligently is to miss most of them. He who is unable to grasp the gist of a written presentation, who habitually dawdles over printed pages, who knows not where or how to turn for desired materials, is not educated. He is not on the road to being educated. It matters not how many years he has trod campus paths or sat in college halls. But the student who in college has learned the art of reading and has acquired the love of reading in one or more fields of worth while human interest has gloriously justified every expenditure which society has invested in his education.

Since schools began, reading has been the groundwork of all study. But never before has its place in the educational process been so central. In recent years there has been a marked tendency to demand of college students more and more independent reading. Individual investigation on the part of the student is gradually but surely taking the place of the more formal methods of instruction which most of us associate with school life. Many a college instructor has ceased to think of himself as a lecturer who gives precise information to the students, or as a lesson-hearer who demands precise information from the student. Like Socrates of old, he conceives himself primarily as a gadfly. It is his job to sting his students with curiosity and dissatisfaction that they are unhappy until they have found the information which will relieve them of their sense of ignorance. From advanced college courses the specter of the textbook, to be learned and repeated almost line by line, is fast disappearing. In its stead may be whole rows of books, on the reserve shelves in the library, from which the student must glean his own information concerning questions raised in class.

The time may come when independent individual reading will be the typical form of college study. Progress will be made in this direction just as fast as students show themselves capable of reading. From now on, as never before, those college students who can read independently, rapidly, and understandingly, and who can find readily the right materials to read, are the ones who will succeed in their college work.—East Texan

Goodwin Gets In Who's Who

'America's Young Men' Recognizes Head Of Department

Dr. R. C. Goodwin, head professor of chemistry and dean of the graduate division, is listed in "America's Young Men", a biographical dictionary just published in Los Angeles.

This reference volume, edited by Durward Howes, contains 6,532 biographies of such contemporary leaders as governors, legislators, band and college presidents, a Noble prize-winner, the new head of the New York Stock exchange, Howard Hughes, hero of the recent record-breaking flight around the world, and other celebrities, all 40 years of age or less.

One man's biography reveals that he has been a preacher since he was nine years old. Another displays versatility to the extent of being a dentist, a composer, and a novelist, all at once. One gentleman, listed in the preceding volume of "America's Young Men" as being a Democrat, emerges in the current edition as publicity director of the Republican National committee. The distinction of being the "oldest young man" goes to Louis A. Turner, a physicist of Princeton, N. J., who was born on January 1, 1898.

For Four Years
For the past four years Howes has made annual selections of young men he considers the outstanding citizens of the nation. One feature of the new book is a complete list of those selections, it was pointed out by a reviewer.

Besides lists of outstanding young men, the book contains an occupational summary which shows law to be the favorite professions among the nation's successful youth, with chemistry, the field in which Doctor Goodwin was recognized, running second. One young man, however, was mentioned for his work in the little-known field of demography, research in the problems of population.

A composite picture of the successful young man indicates that the average successful man-under-forty is a Presbyterian, a Republican, college graduate, a New Yorker, and the father of two children. Most of these youthful leaders turn to photography or golf during their leisure hours, but one finds relaxation in the study of blood groupings among Indians.

Doctor Goodwin has been professor and head of the department of chemistry here since 1930. Last spring, following the death of the late Dr. W. A. Jackson, he was appointed to deanship of the division of graduate studies.

Former Student Gets Bit Part In New Movie

Miss Lillian Fette of El Paso, former student of the college, is appearing as a bit player in the forthcoming United Artists motion picture, "The Cowboy and the Lady", starring Gary Cooper and Merle Oberon, it has been announced at El Paso.

Miss Fette, who was enrolled here in 1930-31 and 1931-32, is a stewardess for American Airlines between Glendale, Calif., and El Paso. After leaving the college, Miss Fette became a nurse in El Paso hospitals until 1935, when she entered the aviation service.

Pictures of the former student are being used in the current advertising program of a toothpaste manufacturer. The advertisements carry stories of her activities in aviation. Miss Fette appears in "The Cowboy and the Lady" as an airline stewardess in company with Miss Oberon.

Harris Wins Re-Election To Legislature At Spur

State Representative C. L. Harris of Spur, who graduated from Texas Tech, and received his Bachelor of Law degree from the University of Texas, for two years incumbent in the 118th representative district, in the recent election, had over 1,000 more votes than Joe A. Merritt, Snyder, his opponent, on the basis of incomplete returns from six counties.

CONSERVATION MEN SPEAK TO AGRONOMY 434 CLASS

(Editor's Note: This is first in series of articles prepared to summarize the addresses and lectures being offered currently in Agronomy 434, a course in soil erosion and conservation given by the college in cooperation with the Soil Conservation Service of Amarillo. The course opened July 19, will close August 9. The following summaries were prepared and submitted to the Summer Session Toreador by Dr. A. W. Young, professor of agronomy who is in charge of the course.)

Thursday, July 21
Dave Cawfield, associate soil scientist from Region 6, presented the use of the physical land conservation survey. The function of this survey is to give an inventory of the area as to soil, erosion, land use, and slope. This information in turn is used to build the program for a permanent system of crop production and soil conservation.

Cawfield pointed out that it is impossible to build a suitable program without making a complete survey of the soil on a farm. According to Cawfield's data, wind erosion on the soils of the high plains varies from so slight as to be unnoticeable to so severe that all of the top soil and part of the subsoil has been removed. After the lecture the class went into Hockley county and followed out the technique of making the estimations and measurements of the physical land surveys under Cawfield's directions. Aerial photographs of the area were used as the base maps on which the information was charted.

Friday, July 22
Dr. Claude L. Fly, associate soil scientist of Region 6, of the Soil Conservation Service spoke on climatic relationships affecting land use and conservation practices.

According to Doctor Fly, Region 6 of the Soil Conservation Service with headquarters in Amarillo has been divided into ten different areas on the basis of soil differences. These soil differences, together with the rainfall characteristics and economic factors affecting crop production, have resulted in a division of the region into problem areas. Each problem area requires similar treatment or soil and water conservation. He pointed out that the soil conservationist has many social and economic problems to solve as well as technical problems since the people living on the soil must continue to make a living while conserving the soil.

The rainfall characteristics of much of this region are such that there is much difficulty in achieving complete control of certain areas. In many cases the seasonal intensity of the rainfall is so great as to increase the cost of building effective moisture conserving structures.

Doctor Fly gave data to show that the greatest wind erosion areas of the region fall between the rainfall belts of 18 to 21 inches annual precipitation. This condition is due to too little moisture for cultivation under 18 inches rainfall, which results in little soil being broken out. Above 21 inches annual rainfall there is generally sufficient moisture to allow adequate control of soil blowing. Thus between the 18 and 21 inch precipitation belts most of the land is under cultivation, and the cultivated land develops into the most serious wind erosion hazard.

Doctor Fly also presented data to show that yearly variations in rainfall range from slightly more than 11 inches to more than 24 inches on much of the cultivated area. The

years of low rainfall leave too little moisture to produce good cover crop on cultivated soils. These facts are leading to the recommendation on the part of the Soil Conservation Service to re-vegetate much of the area in permanent grasses to guard against serious wind erosion during the years of low rainfall. This re-vegetation is being accomplished by use of such conservation structures and practices as will hold all the water on the soil where it falls. The planning and construction of these structures vary greatly on different soils due to the great variation in rapidity of penetration of rain water on different soil types.

Doctor Fly pointed out that the Soil Conservation Service is searching for all available information which will help to build a more suitable program for efficient and effective soil and water conservation.

Fred Sykes, regional agronomist, and T. A. Neubauer, assistant agricultural economist, both of Region 6, accompanied Doctor Fly to Lubbock and spoke briefly to the class.

Saturday, July 23
D. A. Dobkins, in charge of flood control surveys, spoke on the relationship of soil and water conservation to flood control.

Dobkins told the group that the first step from a governmental standpoint which had been taken to aid agriculture directly as well as an aid in controlling flood waters was the passage of a bill by the Seventy-fourth United States congress in which authorization was given for surveys of watersheds and measures of runoff from agricultural lands.

This bill and the Amendment number 406 to this bill by the Seventy-fifth congress authorized work on all watersheds in the state of Texas. The Soil Conservation Service, the Bureau of Agricultural Economics, and the Forest Service have been made responsible for these operations. Studies are now in progress to determine the proper method of control for a number of watersheds in Texas. The procedure outlined in the above-mentioned bill includes three phases of work:

1. The preliminary examination.
2. The survey report.
3. The operations or applications of the control measures.

Dobkins pointed out that the South Canadian river annually does an estimated \$200,000 damage near its mouth due to flood waters. All flood control on such streams are to be controlled by measures costing not more than the estimated damage from flood waters.

The Soil Conservation Service expects to apply the practices common to a good soil conservation program including mechanical structures, such as terraces, ponds, contour furrows, water-spreading devices, water detention basins, and such agronomic practices as contour cropping, rotation, grazing regulation, and use of erosion resistant crops.

The application of the above practices to a watershed area will in turn have a number of benefits directly to flood control as well as to the permanency of the agriculture of the area.

Those direct benefits to flood control are:

1. Reduce the peak flows through retarding the rate and lengthening the period of runoff.
2. Decrease the amount of silt carried by the runoff water.
3. Add to soil water storage, surface water storage, and ground storage.
4. Provide a more constant flow of water in the streams.

The above practices in connection with the construction of large irrigation dams by the United States War department at the proper locations are expected to eliminate all dam-floods and at the same time provide water for irrigation of arid and semi-arid regions below.

Tuesday, July 26
Fred Sykes, regional agronomist of Region Number 6 presented data to point out that wind erosion during an intense dust storm may remove more soil from a section of land in a few hours than the Cimarron river carries away in an entire flood period during a season of high rainfall.

It is a well known fact that one of the best methods of controlling erosion from water and wind is by use of crops plants. The selection of the crop is important. Beans are one of the most erosion inducing crops. Cotton and corn are also considered erosion inducing. The use of fibrous rooted crops in a rotation are very helpful. Corn roots and bean roots decompose more rapidly than sorghums. Thus sorghums are more lasting in preventing soil blowing and washing.

Failure of growing wheat on an area is the cause of erosion and not the growing of wheat itself. Summer fallow is not cause of erosion but the improper selection of time of using summer fallow. The use of fallow after failure of crop when the organic matter is burned out leads to wind erosion.

Improper use of oneway plows is responsible for erosion rather than use of oneway itself. Proper use of one way and fallow has given good yield of wheat in Southwestern Kansas. The blame for erosion cannot be laid on growth of wheat and cotton and the use of oneway fallow, but rather to poor judgment and improper use of crops and methods of culture.

Native vegetation is generally the best crop for erosion resistance and some introduced grasses are successful. Some grasses common to a region are not successful due to changing from one soil environment to another. A reduction from the average rainfall has been most detrimental to reseeding practices on much of the area. Re-vegetation has been successful where good moisture conditions have prevailed. Sykes predicts that it will soon be possible to select proper species of grasses to quickly revegetate much of the eroded cultivated land.

(Continued on page 3)

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Two August Ceremonies Highlight Social Doings Among Grads And Exes

Altar Parade Continues Into Summer Months: Vows To Be Read

Summer trips to the altar continue to hold the social spotlight with the approaching marriages of two popular former Tech couples and announcements of several weddings which took place this month.

Carlock-Hobbs

Approaching marriage of Virginia Carlock, June home economics graduate, to Vincent Hobbs, pre-med graduate, was announced at a morning coffee at the home of the bride-elect's mother, Mrs. C. E. Carlock, Chillicothe. The wedding will take place August 20 at the First Methodist church in Chillicothe. The couple will reside in Dallas.

The bride, former DFD club member, attended Tech from 1935 to 1938. Mr. Hobbs is the son of Mr. and Mrs. C. W. Hobbs of Perryton.

Abell-Martin

An engagement of wide interest was announced at a recent garden party given by Mrs. R. Z. Abell, sr., of Mineral Wells, telling of the approaching marriage of her daughter, Melba, to Malcolm (Moon) Martin of Kermit. The wedding will be August 15.

The bride-elect received her degree from Denton this year, having attended Tech two years, where she was a member of DFD club. The groom, popular backfield football star, attended Tech from 1931-36.

Strickland-Trimm

July marriages included the recent ceremony in Sylvester where Mayvis Strickland of that place and Leo Trimm of Old Hickory, Tenn., were married.

Both 1936 graduates of the college, the bride and groom left last week for Tennessee, where they will make their home. Mrs. Trimm has been teaching home economics in Bovina High school since receiving a bachelor of science degree in home economics here two years ago. A textile engineering graduate, the groom has been employed in the Rayon division of the E. T. Dupont de Nemours company in Old Hickory.

Parnell-Truett

At the home of Mr. and Mrs. Rush H. Farrar of Dallas, Dorothy Pannell became the bride of Charles Truett, former student, June 30.

After a wedding trip to Mexico and New Mexico, Mr. and Mrs. Truett are at home in Dallas. The bride, daughter of Mr. and Mrs. Frank Pannell of Lancaster, has been with a firm of doctors in Dallas. Mr. Truett received a B. S. degree in pre-med from Tech, and is now attending Baylor Medical college. He is a member of Phi Pi fraternity.

Oliver-Mullican

Elsie Ann Oliver, former student, and Winston Edwards Mullican were married July 6 at the home of the bride's parents, Mr. and Mrs. Lee Oliver of Harmony community, near Temple.

After a wedding trip to San Antonio and other points in Texas, the couple made their home at the Millican Stock farm in Colony. The bride has been teaching in Live Oak school and will teach in Colony next year. She attended Tech in 1935 and 1936. The groom is the son of Mr. and Mrs. M. E. Millican of Colony.

McMullen-Johnson

Lucille McMullen and Milton David Johnson, jr., were married at the home of the bride's parents in Midland, July 17. Rev. W. J. Coleman, pastor of the First Presbyterian church, officiated at the single ring ceremony.

She is the daughter of Mr. and Mrs. J. P. H. McMullen. Mr. Johnson attended Texas Tech and is now employed by the Gulf Oil corporation at Midland, where the couple will be at home after a brief wedding trip.

Rendall-Mills

Rena S. Rendall, daughter of Judge and Mrs. E. D. Smith of Crane was married July 2 to George Mills of Waco. The ceremony was read at the Methodist parsonage of Crane by the Rev. H. L. McAlester.

Mrs. Mills graduate from Texas Tech and received her

Bride Elect



Approaching marriage of Melba Abell, former DFD club member, and Malcolm (Moon) Martin, ex-football star, was announced this week at the home of the bride-elect's parents, Mr. and Mrs. R. Z. Abell of Mineral Wells. The couple will live in Kermit, where Mr. Martin is employed with an oil company. (See story to left.)

Conservation

(Continued from page 2)

Farmers of the Panhandle region agreed at meetings last winter that 15 percent of the land now in cultivation should be put back into grass to balance up the farming units. It may be necessary in the future to incorporate some sod farming perennial crop plans in the cropping system to maintain the proper soil structure.

Sykes pointed out that the agronomists and range men of the region are optimistic regarding the growth of crops plants in this region. He cautioned, however, that it may take several years to reach the desired end since the soil must be built back to a normal state by adding organic matter followed by proper crop selection and tillage operations.

Wednesday, July 27

Ray Watson, associate range examiner, Region 6, spoke on Conservation Practices on Range and Pasture Lands. He pointed out the fact that farmers should buy or rent range land on the basis of actual carrying capacity rather than by the acre. This carrying capacity is determined mainly by the amount and density of palatable grasses on the surface of the soil.

In planning a range program the first step is the range survey in which the actual carrying capacity of the area is determined for a specific class of livestock.

The second step is planning the conservation structures necessary which are made up of pasture ridges and terraces on steep slopes and contour furrows on the lesser slopes.

Grazing management is the third step in planning the range program. First in this phase of the work is deferred summer grazing and moderate winter grazing on the area to allow the grass to produce seed. The winter grazing then allows the reseeding and the animals trample the seed into the soil and thus aid in increasing the germination of the seed the following year. Re-arrangement of fences is also beneficial to allow control of

master's degree from Texas State College for Women at Denton. During the past two years she taught home economics at Crane. Mr. Mills is the associate business manager of the Veteran's hospital in Waco.

Williams-Hale

The marriage of Miss Nancy Helen Williams of Cameron and George Moody Hale of Clarksville which took place July 1 at Cameron, has been announced. Mrs. Hale is a graduate of Texas State College for Women. Mr. Hale is a graduate of Texas Tech and has done graduate work in Texas A. and M. Mr. Hale is employed by the Farm Security Administration at Clarksville, where the couple will make their home.

Ezell To Head New Extension Center

Increasing requests for extension courses from the college in the vicinity of Childress was the cause for recent provisions made to establish an extension center there, announced J. F. McDonald, director of extension.

The center will see stationing of Dr. L. B. Ezell, head of the Bethany college education department, at Childress to offer courses in counties surrounding the city. The area includes Wellington, Memphis, Paducah and Quanah.

New Teacher

Serving in winter terms as head of the Bethany department, Doctor Ezell is an addition to the extension faculty, although he has been on the campus for two summers, offering extension courses in education, it was pointed out.

The new staff member received bachelor of arts and master of arts degrees from Elon college in Elon College, N. C., and did additional graduate study at the University of Texas, where he received another master of arts degree and a doctor of philosophy degree.

Year-round grazing results in overgrazing if the area is pastured near its true carrying capacity since the plants are unable to reseed and re-vegetate.

Supplemental land reserve feeds should be used to prevent over-grazing. The supplemental feed is used during the grazing season to relieve grazing on the pasture at the proper time. Reserve feeds are used to fill in when the supplemental feed and grazing land are nearing dangerous depletion. This consists of stacked feeds and silage.

Small furrows bring back vegetation more rapidly than any other structure. These furrows supplemented by such terraces and pasture ridges as seem necessary to prevent runoff seem most effective.

Water may be collected and spread uniformly on the range land by use of spreader systems. Grass yields have been increased up to 150 per cent where proper methods were applied. Grass has been increased on an average of 100 per cent over the area where proper and adequate conservation methods have been used on range land. The cost to the farmer to put the proper structures on the land ranges from 25 to 35 cents per acre.

Watson recommends a complete furrowing job rather than just a part of a job. It is better to do complete work on 160 acres rather than one-fourth the work on entire section of land. This work should be started on the higher slopes and worked downward. The ridge of soil should be thrown above the furrow thus leaving the furrow below the ridge and the small rains will be effective over a large area, while in the furrow is above the ridge it will fill before the water will be spread out over the grass. On shales and gravelly soils the ridge is preferable to the furrow. The pasture furrow, however, is more satisfactory on the majority of high plains soils.

Stock watering ponds and detention basins for providing more watering places should be well distributed over the grazing area. There should be one stock watering pond per section of grazing land, and the watering ponds protected by fencing and sodding.

Regulation of grazing may be controlled largely by proper distribution of salting places. Intense trampling around salt boxes may start blowouts on sandy soils. Salt should not be located at the watering places.

Dr. Ralph Caird, assistant

Coaches Come To Campus For Annual School

Over 400 High School Mentors Expected During Week

BURSTING like a bombshell amidst mid-summer sports King Football steps into the spotlight in Texas for one week beginning next Monday.

It is the premiere showing of the pigskin parade that annually attracts millions of hysterical crowds to stadiums throughout the nation.

400 Expected

The occasion—the Sixth Annual Coaching school of the Texas High School Football Coaches association. For six days approximately 400 Texas High school coaches and 46 picked All-Stars will study and demonstrate various methods of the game under such instructors as Lynn Waldorf, nationally known coach at Northwestern university, Harry Stuhldreher, famous mentor of Wisconsin university, and John "Ox" DaGrosa, former coach of the professional Philadelphia Eagles.

Climaxing this school which will be held on the campus will be an All-Star football game Saturday night at 8:30 in Tech stadium. Two picked All-Star elevens representing the North and South sections of the state will battle before an expected crowd of 15,000 West Texas football fanatics.

Class Plans Complete

Daily class plans are complete and officials have made tentative entertainment arrangements for coaches and their wives.

Registration will be conducted in the gymnasium from 7 until 8:30 a. m. Monday. Classes begin at 8:30 and last until noon. At 1:30 study will be resumed with field demonstrations scheduled throughout the afternoon. Frank Leahy will discuss line play and have charge of demonstrations from 1:30 until 2:30 each day until Thursday.

Headlining the morning program each day will be Waldorf and Stuhldreher, both conducting theory classes. From 8:30 until 10 o'clock Stuhldreher will have charge then Waldorf will lecture from 10:20 until noon. All such

range examiner of Region six, took charge of the class during the morning. This period was spent in explaining the technique and value of the range survey. The majority of the morning was devoted to actual practice in the field on the College farm. Dr. Caird pointed out that much of the range land of this region actually has a carrying capacity of only five average grazing animals per section in the more seriously overgrazed regions to about thirty average grazing animals per section on the better grazing areas.

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True To Speak At Educators' Meet

Miss Agnes True, associate professor of education and psychology, will be among the speakers at a Southwestern Educational conference in El Paso September 2 and 3.

Other speakers will include: Dr. George W. Frazier, president of Colorado State Teachers' college, Greeley, Colo.; Dr. Grayson N. Kefauver, dean of the school of education, Leland Stanford university, Palo Alto, Calif.; and W. A. Stigler, director of curriculum revision in the Texas state department of education.

Teachers from all points in the Southwest are expected to attend the conference, which is being conducted by the Texas School of Mine and Metallurgy and El Paso Public schools.

Peltier Reopens Testing Laboratory On Campus

About 825 seed samples from this area have been tested this season by the state seed testing laboratory, which has headquarters in the agricultural building annex at Texas Tech. The laboratory resumed its work last week after it was closed July 7, said Early Peltier, seed analyst.

"The average germination of the seed was high and exceptionally good as compared to previous years," said Peltier. The noxious weeds found in the samples we handled were very few, showing that farmers are taking more pains to keep their fields and seed free from those.

"Worst of the noxious weeds is Johnson grass. We have been trying to get the state rid of these, both by rigid tests in the laboratory and by cooperation of the farmers."

Peltier has been on a vacation. He is prepared to handle all samples promptly, he said.

classes are to be held in the gymnasium. "Ox" DaGrosa will instruct in line play defense each day from 2:30 until 3:45. DaGrosa has been on numerous coaching school staffs and his lectures have been very popular with coaches.

Lectures Listed

Beginning at 3:45 each afternoon, except Saturday, Stuhldreher and Waldorf will alternate in supervising and instructing field demonstrations. F. Cramer, head coach of Kansas, is to lecture on and demonstrate the treatment of injuries and the use of bandages.

Sports writers and observers over the state are giving the South a slight nod to win the encounter. The past three years

(Continued to page 4)

Graduate And Student NYA Employment To Be Available Next Year

Wins Award



Lewis Jones, above, of Cleburne, last year line captain of the Red Raiders, has been awarded the Standefer-Canon Scholarship award for highest grades made by a member of the varsity football team. (See story below.)

Lewis Jones Gets Standefer-Canon Scholastic Award

Lewis Jones of Cleburne, June graduate of the college and for three years star Red Raider guard, has been awarded the Standefer-Canon football scholastic award for 1937-38.

The prize, given each year to the varsity player having the highest grade average, consists of a bronze plaque on a permanent board and a gold football. The award is made possible by Doctors Fred Standefer and R. T. Canon of the West Texas hospital.

Was Line Captain

Jones had been line captain of the Red Raiders for the past two years and a regular left guard throughout his three years of varsity eligibility. Athletic officials, in announcing the award this week, said, "The big 210-pound guard was one of the best in Tech's history."

Passing up an offer of a contract to play with the professional Chicago Bears eleven this fall, Jones will return to

Salaries Are Increased; College Mails Forms To Applicants

Definite decision that NYA student jobs will be available has been made, according to Dr. James M. Gordon, chairman of the executive committee. Graduate jobs will also be given in a separate program, he announced.

It is not known yet how many jobs will be open for students during the next scholastic year, as the Texas program has not yet been set up. Aubrey Williams, executive director, sent the information to J. C. Kellam, state NYA director, who notified the college.

Set Age Limits

Requirements for eligibility for one of the jobs are that a student must have reached his sixteenth birthday and not have passed his twenty-fourth. The applicant must be of "good character and show his ability of performing good scholastic work". Three-fourths of the normal number of hours of college work must be taken, and he must be a regular student.

The average salary will be \$15 per month with the maximum set at \$20 per month. Graduate students will receive higher pay under the new program to be set up. The average will be \$30 per month and the maximum will be \$40. Until this new system graduate students were paid the same as undergraduates.

Consider Points

Many more students have always applied for the NYA positions than received them in past years. Factors taken into consideration are need, scholarship, citizenship, and character.

Applications for the jobs are being received by the college. Completion of plans for the program are still indefinite although officials expect the program to be finished by August 15.

Dr. V. B. Martin, Jr., 1930 pre-medical graduate of the college, recently took charge of the new optical department of the Kruger Jewelry company in Wichita Falls. He received a doctor of optometry degree from the Illinois College of Optometry, Chicago, in 1935.

the campus in September to assume duties as line coach and assistant to Berl Huffman, freshman grid mentor, it was announced.

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1775



Holmes Appears Garbed In Redskin-Grid Clothes

Publicity Shows Expense Of Outfitting Raider In Silk Suit

(Continued from page 1)

decked out in a cowboy suit with a lasso in one hand and a football in the other, "Wee" Bobby Holmes, elusive half, looking like the real thing in a combination Indian and football suit, and "Big" Bill Davis holding two of his team mates up in the air by their shoulders.

And there are more. Caricature in flesh might be a good description of Jack Shanks, right guard, who specializes in making bulldog faces. "Bubbles" Barnett is pictured holding a board upon which is printed the costs to outfit one colorful Red Raider. Another design headed "It costs the Red Raiders for nifty silks!" are listed: helmet, \$8.50, jersey, \$6, pants, \$11, shoulder pads, \$15, hip pads, \$7, stockings \$2, two pair shoes, \$26, and incidentals, \$15. The total for one player is \$90.50.

Among the other designs on the posters are pictures of "Butch" Sachse, Johnny Sims, Red Murphy, line captain, "Cricletop" Bostick, "Trigger"

Tom Tutt, sophomore geology student, left yesterday for his home in Amarillo after a two-day visit on the campus.

Wilson Lott of Slaton, June graduate with an English major, will teach in Ropesville this fall.

Women weep three times as often as men but their funny bones are not tickled as often.

Weeping is caused 80 to 90 per cent of the time by environment.

Waldrep, "Country" Webb, "Bull" Rankin, "Calamity" Calhoun, Jody Marek, "Great" Tarbox, Rex Williams, Frank Guziak, captain, and others.

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BOOKSTORE
"On the Campus"

Seniors

(Continued from page 1)

Other members of the executive committee included two seniors and two members of the staff.

Select Students

Student members are: Fleming Austin of Chicago, Ill., industrial engineering senior, and member of the Double T club, ASME, Engineering society, and Wranglers; and H. G. Jennings, coach at Ranger High school and former member of the varsity basketball squad.

Faculty sponsors are Dr. D. D. Jackson, associate professor of education; and Miss Annah Jo Pendleton, professor of speech.

Invitations will be sold by the Varsity bookstore, 1309 College avenue, Adkins announced. Orders must be placed before Friday, August 5, in order for the invitations to be available for mailing before graduation day.

Plan Gift

Plans are not complete for donation of a senior gift, Cunningham said, but the president has called attention of senior class to the fact that those students who contributed to purchase of the gift left by the spring class will not be asked to contribute to the projected gift fund.

In regular meetings, the executive committee is considering gift plans and other problems of the class, Cunningham pointed out. He said a second called meeting of the entire class would be announced in The Summer Session Toreador next week.

Former Student Visits Here; Works For Consul

Miss Allie Hevia, former student and present secretary to the Brazilian consul in New Orleans, visited on the campus last week.

After leaving the college in 1937, Miss Hevia went to Rio de Janeiro, her former home. For six months she has held her present position in New Orleans. Following a further vacation trip to Evergreen Valley, N. M., Miss Hevia will return to Lubbock for a short visit before continuing to resume her duties in New Orleans.

Miss Hevia was employed as a student assistant in the office of Dean James M. Gordon of the arts and sciences division. A member of Capa y Espada, Spanish student club, Miss Hevia spoke at campus meetings on the customs of Brazil and other South American countries.

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9:30 TILL ?
LUBBOCK

High School Gridiron Stars To Vie In Headliner Of School For Coaches

(Continued from page 1)

The North has won, but not by large margins. Each of those three years the State Championship also went to a northern team, the Golden Sandies of Amarillo. This year the powerful Longview Lobos annexed the State gontalon thus impressing the superiority of the southern districts over the northern. Four members of this pennant winning team will play for the Southerners in the mythical game.

All-Stars Practice

All-state players also dot the Northern line-up. At least three starters are expected from the Coyotes of Wichita Falls, runnersup in the state race last year. Other players on both elevens have received honorable mention for state honors or were placed high on their respective district elevens.

The All-Star players will assist the instructors in field demonstrations at the same time practicing for their game

at the close of the affair. They are to be housed in the men's dormitory. Each player will receive a gold wrist watch signifying his participation in the All-Star contest.

Entertainments Planned

Several entertainment features have been planned by the local committees for the visiting coaches and their wives. A week's pass to Buffalo Springs will be given along with a pass to some theatre in the city. Definite arrangements have been made for a tea and bridge party for wives of the coaches. Admission to the Lubbock Hubbers' baseball game early in the week will be free to those connected with the school.

A golf tournament for the coaches with special prizes will be conducted Thursday and Friday under the direction of Bill McMillan. Officials said that tentative plans were being made for a chicken barbecue and dance.

John T. Howell, 1936 graduate, this week was appointed to a position in the Lubbock public schools. Howell, whose home is in Wilson, has taught at Robertson school near Lorenzo since his graduation.

Harvard University has removed one more obstacle to aid the absent-minded professor. Curbings have been removed from the sidewalk ends in Harvard Yard. Gentle inclines will replace them, banishing toe-stubbing forever.

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