

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

For Release in July 7, P.M.'s

ATTN: Farm Editors

CHIHUAHUA, Mexico, July 7 --Conservation of good range land by a system of deferred-rotation grazing was urged here today by Texas Tech Agriculture Dean Gerald W. Thomas at the dedication of a new experimental ranch.

Most Southwest ranchmen will not consider seasonal grazing, but "we should be able to adapt our grazing system to a seasonal vegetational growth pattern by practicing deferred-rotation grazing," the Tech dean urged.

"While most ranchmen in the Southwest practice year-long grazing," he stated, "we know that the plant life here is not well-adapted to this type of use."

Thomas was one of several range management authorities speaking at the dedication of La Campana experimental ranch established by the Rockefeller Foundation near Chihuahua. The 2,856-acre ranch will be used for experimental studies in grazing rates, reseeding and revegetation of this semi-arid range land.

An extensive deferred-rotation system planned by Leo Merrill at the Sonora, Tex., Experiment Station was explained by Thomas as a practical way to rebuild range vegetation.

"Under this system, each pasture is grazed for 12 months and rested for four months," he said. "In this manner, all plants have a chance to gain vigor and set seed at least once during a four-year period."

(MORE)

2--deferred grazing

As a result of a nine-year Sonora experiment--including seven years of severe drouth--the deferred-rotation pastures improved in vegetative condition to the extent that they are now capable of carrying five to 10 more animal units per section than the other pastures, Thomas said.

"Although deferred-rotation grazing is only one of the many problems of livestock-vegetation relationship about which we need more research information," the dean said, "I believe that these systems will benefit our livestock industry."

J. Rodriques Adame, secretary of agriculture in Mexico, formally dedicated the experimental ranch. A meeting there of the Mexico Section, American Society of Range Management, included cattle and range men from throughout Mexico.

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FOR RELEASE IN A.M.'S OF MONDAY JULY 13

LURBOCK, --More than 3,580 Texas Tech summer students are celebrating "Tech Day" Monday by doing one of the things that has brought the recognition--taking tough final exams.

Andy Rogers of Childress, State Senate president pro-tem proclaimed the special day last Thursday, when he was governor in the absence of Gov. Price Daniel and Lt. Gov. Ben Ramsey.

Finals Monday and Tuesday will end the first term of Tech's summer session. The second term begins Wednesday with registration. Classes begin Thursday and extend through August 20.

In addition to regular classes, Tech is conducting 25 institutes and short courses during the summer session.

Commenting on "Texas Tech Day," Dr. E.N. Jones, the institution's president, said "We welcome this opportunity to thank Texans and all other Tech friends for their support through these years of rapid expansion. We pledge our continued efforts to provide a high quality of training, research, and other public services for them."

Tech has graduated more than 20,000 students since its first commencement in 1927. In the fall of 1955, it became Texas' second largest state-supported college or university, and has maintained that position since.

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LUBBOCK, --Six trophies were awarded in the final session of the annual swine breeders short course at Texas Tech, Friday afternoon (July 10).

Winning carcass was a 200-pound Hampshire that dressed out at 71 per cent of its weight. Exhibitor was Bob Fee, Colorado City.

Glen Hewlett of Ropesville showed the second-place carcass, a 169-pound Berkshire. Third place was awarded to Buddy Winter of Lubbock. He exhibited a 189-pound Hampshire.

The trophies were awarded by John Bott of San Antonio, representing Peter Hand Co.

Top evaluator of carcasses was B. F. Yeates, assistant county agent at Plainview. E.G. Gaston, Springlake agriculture teacher, was second; Euel Liner, Lubbock hog breeder, third.

More than 150 persons attended the two-day course, sponsored by six swine breeders associations and the Tech animal husbandry department.

In the final session, Jack Barton, swine and poultry breeder, analyzed live and carcass evaluations of the hogs exhibited, discussing the differences in the two methods.

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ATTN: FINE ARTS EDITORS

LUBBOCK, July -- Speech students will see 20 plays on the Texas Tech-sponsored American Theater Tour of the Midwest, Canada, the East Coast and the South.

The tour, sponsored by the Texas Tech speech department, begins Aug. 1 and will end Aug. 19 when the group returns to Lubbock. Credit may be received for Speech 3310.

A fee of \$225 includes transportation, lodging, theater tickets and regular college enrollment fees for those enrolling in Speech 3310 Tuesday (July 14).

First on the itinerary is a visit to the State Fair musicals in Dallas. The touring group will attend a rehearsal of "High Button Shoes" starring Janis Paige and Bob Crosby and a performance of "An Evening with Maurice Chevalier."

Other plays that they will attend include: "The Shepherd of the Hills" in Branson, Mo.; "Carmen" in St. Louis, Mo.; "Once More with Feeling" in Chicago, Ill.; "Othello" in Stratford Ont., at Canada's Shakespearian Festival; "Time Remembered" in Malden Bridge, N.Y.; and "Romeo and Juliet" in Stratford, Conn., at the United States Shakespearian Festival.

While in New York City, the tour will see "J.B.", "A Raisin in the Sun", "La Plume De Ma Tante", "Sweet Bird of Youth", "Julius Caesar", "Once Upon a Mattress" and "Shaw Festival."

On the way home they will see "The Common Glory" in Williamsburg, Va.; "The Stephen Foster Story" in Bardstown, Ky.; and "Call Me Madam" in Memphis, Tenn.

The last stop of the tour will be made in Hot Springs, Ark. at the Hot Springs National Park for an evening of relaxation.

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Department of Public Information
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exhibitors

Area Angus breeders will gather today (July 11) at Texas Tech for judging contests and talks on how to improve production of the famous all-black cattle.

Registration will begin at 9 a.m. at the beef cattle barn, where judging of three Angus classes will get underway at 9:30 a.m.

There will be first and second prizes for both 4-H and FFA contestants, a first prize for men exhibitors and first prize for women exhibitors.

Dr. Ralph Durham, Tech animal husbandry department head, will speak on correlation of weaning weights and classification scores in the contests.

After a noon barbecue in the livestock pavilion, field day participants will move to Agriculture building auditorium for lectures on Angus.

Dr. F.G. Harbaugh of Tech will speak on leptospirosis, a kidney disease that affects the beef cattle industry. Anderson will discuss meat-type cattle.

New studies of beef cattle shapes as associated with muscling and performance will be described by Dr. Durham. Milt Miller of Brady, American Angus Assn. field representative, will discuss the situation of Angus cattle today.

A Texas Angus Assn. report will be made by Ronnie Blackwell of Fort Worth, association secretary.

The field day will close with the West Texas Angus Assn.'s annual directors meeting and election of officers.

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ATTN: FARM EDITORS

LUBBOCK, July --Research about measurement of irrigation water by two Texas Tech agricultural engineering students has been recognized by the American Society of Agricultural Engineering.

The students--John Kaisner of Odessa and H.L. Hodgkin of Roaring Springs--have written a research paper on orifice method of measuring water flow for a closed irrigation system that placed among the top 10 papers in the 1959 national ASAE student paper contest, William Schwiesow, agricultural engineering assistant professor, said.

Because many farmers irrigating through underground tile systems rely on a rough estimate of their well output, water is sometimes wasted. A simple-but-accurate method of measuring water flow from the well is needed for such systems.

Determining the exact water output is important because of the seasonal variation in the water table on the South Plains, said Kaisner, a soil and water major from Odessa.

One result of their research is a table of figures which theoretically will be useful in figuring gallons-per-minute flow from wells with a larger output than their laboratory set-up.

While the orifice method of measuring water flow is as old as the Egyptian and Roman aqueducts, the students' research into known publications revealed little about water measurement methods in closed irrigation systems. Thus they had to set up a data collecting procedure before beginning their lab experiments.

In setting up their orifice measuring equipment, the students used a three-h.p. electric motor with a variable drive, and eight-inch turbine pump, four-inch pipe with four-inch flanges and orifice plate, a three-inch quick-opening valve and a 200-gallon tank of water.

(More)

2--Research on water irrigation

Their measurements were accomplished with a half-inch gauge tube, two six-foot manometer tubes and a stop watch. This equipment was rigged to simulate as closely as possible a closed irrigation system.

Because their range of experimentation was limited to one-pipe size and one orifice diameter, Kaisner and Hodgkin realize more research is due to complete their table of measurements.

However, months of running the experiments, checking and double checking, revealed their rate of measurement was 98 per cent accurate when flow ranged from 70 to 160 gallons per minute. The tables also revealed that for each differential head, there was a corresponding gallons-per-minute rate.

"Once this research is completed," commented Hodgkin, "this orifice method of measuring water flow in a closed system will prove valuable in conserving irrigation water supply."

Commenting on the top papers submitted in the ASAE contest, the judging committee emphasized the papers measured up to highest standards of excellence, according to Ralph A. Palmer, ASAE national secretary.

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High school teachers participating in a special biology institute at Texas Tech are heading for the flora and fauna today (Sunday) for a week's observation tour.

Thirty-five persons left this morning for Xilitla, Mexico, to study desert vegetation and tropical plants in a rain forest south of Victoria. Dr. Don Tinkle, and Chester Rowell, assistant professors of biology at Tech, are directing the tour. They will return next Sunday (July 19).

Another group of 35 teachers will be in the Evergreen Valley near Las Vegas, N.M., this week to study animals and vegetation found at various altitudes of the mountains in that region, Dr. Earl Camp, Tech biology associate professor, said. The group will return Saturday.

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Ken Schneider, Texas Tech graduate of 1953, has been promoted to manager in the commercial audit department of Arthur Andersen and Co., accounting firm in Houston.

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ATTN: SCIENCE/HEALTH EDITORS

LUBBOCK, July --You might fool your husband and neighbors about your weight, lady, but your radioactivity will give you away!

That is, if you let yourself be measured in a Human Radioactivity Counter a Texas Tech guest lecturer helped build at Los Alamos Scientific Laboratories.

Dr. Ernest Anderson, nuclear chemist who is lecturing at the special Chemistry Institute for High School Teachers at Tech, says the huge counter has revealed some interesting facts about growth and aging of humans. Results of a study Anderson and W.H. Langham have made with the counter will soon appear in Science magazine.

Actually, the counter measures the amount of potassium in the body, the nuclear chemist said. Natural radioactivity in humans and animals is almost entirely due to potassium, most of which is in the muscles.

Such a measurement, then, is largely one of determining muscle-mass. Anderson's study includes measurement of 1,600 persons who have been placed in the human radioactivity counter.

And, like it or not, most men are on the down-hill grade in muscle-building after age 16, the counter statistics show. In comparison to the fat -- or should we say curves -- they put on, females do much less muscle building after age eight!

A graph made by Anderson from the radioactivity counter data shows that from age zero to age eight, there is a steady, even increase of muscle mass for both boys and girls. Boys decline in muscle building from nine to 12 and then build at a great rate from 12 to age 16. Girls, in the meantime, decline from age eight in the amount of muscle they build compared with their body weight.

(More)

2--radioactivity

The graph shows that during the rest of a human's life, the total mass of a man's body increases, but there is less muscle added -- percentage-wise -- from 16 on.

Anderson first became engaged in radioactivity counter work during his doctoral research at the University of Chicago. Dr. Willard F. Libby, who directed his study, predicted the properties of Carbon 14. It was up to Anderson and others to prove the noted scientist's theory. He did in two years of research.

Since 1948, the method of dating the age of archeological specimens from the amount of Carbon 14 in them has been developed.

"You can't apply radio-carbon dating to just any old dried bone," Anderson cautions. "The method is not fool proof, but the sources of error are well known.

"You must make sure there is an exact correlation between the object to be dated by radio-carbon measurement and the cultural era in which you are interested," he said.

He said a Chicago museum once brought him a wooden object that was supposed to be a thousand-or-so years old. The radioactivity of the object placed its age at less than 100 years. Museum officials later admitted they had taken the word of an Arab peddler as to the age of the artifact.

The accuracy of radio-carbon dating was originally checked by getting radioactivity measurements from artifacts of an accurately known age, he said.

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Should vocational agriculture programs be abolished in the schools?

That topic will be debated by Texas Tech agriculture students at 7:30 p.m. today (Friday) in the Agriculture Building auditorium. The public is invited to attend.

The students are members of a class in current investigations of the agricultural industry as it relates to livestock. It is being taught by Coleman O'Brien, assistant professor of animal husbandry.

Debating the subject will be James O. Egger of Lawn, Orville L. Harris of Whitharral, David T. McVey of Anton and A.E. Madding of Cooper. They will draw to see if they will debate affirmatively or negatively at the beginning of the debate.

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LUBBOCK, July -- One reason Johnny can't read is because he never had a chance to decide whether or not he wanted to read, a Texas Tech consultant declares.

"Many of our youth are not producing as they should because they are pursuing goals that are not their own," Dr. John Shlien told a Tech short course on counseling gifted students.

"There is great pressure today to do as you are told in school and to do as the group does," the University of Chicago psychologist said.

It's just human nature for many to resist such conformity -- consciously or subconsciously -- unless the goals of school and of the group are really their personal goals, he added.

Because of this, Dr. Shlien said, the counselor can do two things: make sure he has as complete an array as possible of information on a student's personality and abilities, make sure that student has an opportunity to consider that material in depth and to decide for himself what he should do with his talents.

Dr. Shlien is lecturing and consulting this week (July 6-11) as the last visiting faculty member in a Tech summer institute on counseling gifted high school students. Thirty area counselors are taking the course, financed by the National Defense Education Act and the West Texas School Study Council.

Dr. Beatrix Cobb of the Tech psychology department is in charge of the institute.

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ATTN: EDUCATION EDITORS

LUBROCK, July --Who has the most important task, the research scientist or the high school chemistry-physics teacher?

A man who is a pioneer atom-bomb worker--nuclear chemist Dr. Ernest Anderson of Los Alamos Scientific Laboratories--said he believes that high school teachers have the greater responsibility.

As a guest lecturer at the special Chemistry Institute for High School Teachers this week at Texas Tech, the research scientist has discovered "the art of educating and passing on information is a great one."

Anderson, whose doctoral research resulted in the development of Carbon 14 as a radio-active dating process at the University of Chicago, is giving the 70 teachers enrolled in the institute an authoritative view of what's happening in the chemistry of radioactive materials.

"Our biggest problem is not the atomic or hydrogen bomb," he said, "but what we'll know 50 or 100 years from now. Thus education is the most important factor in determining what our national strength will be in the coming century."

The chemist first became associated with the atomic research as a member of the Manhattan Project in 1942 where he was told "Our purpose is to achieve a controlled release of nuclear energy through the use of uranium fission." No other details were given.

In 1944, he was transferred to Los Alamos where the various parts of the A-bomb puzzle were fitted together resulting in the historic blast in the summer of 1945. Since then he has witnessed six or eight nuclear explosions in the South Pacific.

(MORE)

2--Dr. Ernest Anderson

Today the research program at Los Alamos has been greatly diversified. Much of the work now underway has to do with development of nuclear-powered engines for use by space rockets after they get into orbit, he said. Research on various types of nuclear reactors is also commanding much of the scientists' time there.

Anderson is now a member of the bio-medical research group that is studying the biological effects of radiation and fallout.

"The effects of fallout are poorly understood," he commented. "For instance, a primary factor in fallout is rainfall. Where there is more rainfall to carry dust particles down, there is more radioactivity."

He said that the Russian tests, detonated in the high latitudes of Siberia, have resulted in a concentrated band of radioactive dust across the Northern Hemisphere. The United States' tests in the low latitudes of the South Pacific result in particles that are more spread out as they descend from the earth's poles, and the radioactivity is less intense.

Anderson believes future fallout problems may come from smaller nations wanting to get into the atomic-bomb business.

"We can eventually expect that the U.S.S.R., and the United States will learn as much as they need from explosions. The next hope--and problem--is limiting membership in the nuclear club," he added.

In 1957 he attended the International Commission on Radiological Protection meeting in Geneva, Switzerland. The following year he returned there for the second Conference on Peaceful Uses of Atomic Energy.

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ATTN: FARM EDITORS

LUBBOCK, --Contract farming looks like an important answer to agriculture's economic ills, a Texas Tech speaker said Thursday (July 9).

Contract farming is an economic arrangement between businessmen and farmers, Ed Synar, Memphis (Tenn.) meat consultant, told a swine breeders short course at Tech.

The businessman supplies all or part of the credit and production supplies and assures a market for the producer. The farmer supplies as many resources as he can, including all or part of the productive labor.

The return to the partners varies with the investment or services supplied in the operation.

Synar said contract farming has five advantages:

It does not require government regulation or subsidy because it is a self-adjusting mechanism through the market place.

It spreads risks, including that of price fluctuation. It is based on personal integrity and private property rights of all parties in the contract.

It shifts or absorbs within its own organization some of the costs of research, teaching and demonstration.

It has no monopoly advantage or power because it relies on economic and technical efficiency in its operations and is not a device for market control.

Synar said his company (Wilson and Co.) is carrying on a hog contracting program on a research basis to find problems associated with the plan.

(More)

2--contract farming

In other short course talks Thursday, Dr. Ray Anderson, Texas Swine breeders secretary-treasurer, discussed the life cycle of feeding and management of swine. Dr. F.G. Harbaugh of Tech explained that inoculation for leptospirosis, a kidney disease, can throw off results of tests for brucellosis in hogs.

Dr. Ralph Durham of Tech described cross breeding systems in hog production. Charles Smallwood of West Texas State reported on boar testing stations which will go into operation there and at Texas A&M this fall.

West Texas will have 40 pens, Texas A&M, 32. Two boars and two littermates will be tested in each pen for feed efficiency, rate of gain and carcass characteristics.

Tuck Foster, a Dallas packer, called the grain-yield system of marketing hogs an important trend. It's the best way for Texans to improve their hogs, he said.

The short course will continue through Friday morning. It will be climaxed with a carcass evaluation of hogs exhibited on the hoof Thursday. Six swine breeders associations are sponsoring the annual course at Tech.

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LUBBOCK, July --An instructor workshop in care of the sick and injured will be sponsored by the Texas Tech School of Home Economics and the American National Red Cross Tuesday through Saturday (July 14-18) at Tech.

Special training in effective methods of teaching care of the sick and injured will be given to homemaking teachers, senior homemaking students, secondary school teachers, home demonstration agents and registered nurses.

The workshop will emphasize adaptation of course content to specific situations, such as the school curriculum.

Mrs. Vivian J. Adams, head of the home economics education department, will direct the workshop.

Miss Lillian M. Adams, nursing representative for the American Red Cross in East Texas, will be the visiting lecturer. She has served as volunteer and staff member with the organization for about 15 years, and has experience in other health and welfare work.

Until 1942, she was school nurse with the Indianapolis, Ind., City Board of Health. As early as 1941 she was serving Red Cross as volunteer nurse enrollment committee member.

After becoming a staff worker in 1942, Miss Adams served as nurse recruitment secretary at both the Indianapolis and District of Columbia Red Cross chapters.

Prior to her present assignment, Miss Adams was director of nursing service for the District of Columbia chapter. She has also served as director of special gifts and of home nursing.

A native of Indiana, Miss Adams attended school in Johnson County and was trained in the nursing profession at Indianapolis City Hospital.

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ATTN: EDUCATION EDITORS

LUBBOCK, July -- Next summer Texas Tech history students will take off into the "wild blue yonder" via jet aircraft on their way to Europe.

During the first term of the 1960 summer session, a travel course in European history will be offered by the Tech history department. Dr. W.M. Pearce, history department head, will direct the tour.

Travel to and from Europe will be made by jet aircraft, while the class will travel in Europe by motor coach and rail. Air travel will permit the students to spend 38 days on the European continent and in the British Isles.

Plans now call for the class to leave Lubbock on June 1 and return on July 12, in time for registration for the second term of the summer session.

The group will fly directly to Paris and from there the itinerary will take them to Italy, Germany, Belgium, Holland, England and Scotland. The return flight will be made from London.

Successful completion of the course, History 3314, 3315, carries a credit of six semester hours.

Persons interested in the tour may leave their names with the history department or with Dr. Pearce. Detailed information concerning the itinerary, costs, and other arrangements will be mailed to prospective members of the party. Interviews with the tour director will be scheduled over the next six months.

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LUBBOCK, July --Irwin M. Jarett, Texas Tech graduate student, has been accepted at Louisiana State University for study toward a Ph.D. degree in accounting.

Jarett, who will receive his master of business administration degree from Tech in August, will be associated with the L.A. Champaigne Co. of Baton Rouge.

A certified public accountant, he received his B.B.A. degree in accounting from Tech. Jarett was also a teaching fellow in accounting at Tech and is a graduate of Tom S. Lubbock High School.

Two articles written by Jarett are appearing in business magazines--one in "Boot and Shoe Recorder" on an accounting system for a shoe store, and the other in "Signs of Times" on the advantages and disadvantages of leasing a sign.

He is married to the former Rhoda R. Goldman of Boston, Mass., and has three children, Andrew Robert, 6; Debra Hope, 4; and Alex Scott, 13 months.

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ATTN: FARM EDITORS

LUBBOCK, July --The cotton industry's future is in the hands of researchers, Earl Sears of the National Cotton Council declared at Texas Tech.

"We've got to find new ways to cut production costs and expand markets," the NCC supervisor from Memphis, Tenn., told a short course on cotton industry development this week (July 7-8) at Tech.

Sears called agricultural labor a number one target of unions because of low wage levels.

"All of us would like to have wage levels raised," he commented. "The hard fact is that synthetics already are being produced with much less labor than we're using. We've got to meet that competitive advantage by reducing our labor."

Sears said research also is needed to improve cotton quality, and yield and to reduce the insect bite into profit.

Marketing research and promotion already have led to a 50 per cent increase of cotton usage in the apparel industry within 10 years, Sears pointed out. This has more than offset market losses to synthetics in tire cords, bags and other industrial products.

"We've got to have expanded markets and promotion," he said. "We can pile up surpluses just so long. Eventually public sentiment won't stand for any more."

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The first of three Texas Tech short courses in agriculture -- scheduled this week -- will get under way today when cotton men gather for a two-day study.

Tech will be host Thursday and Friday to swine breeders and Saturday to Angus breeders.

Predictions of the cotton industry's future will be made by Earl Sears, American Cotton Council supervisor, at the opening session of the cotton short course at 9:50 a.m. today in Agriculture building auditorium.

In other morning talks, George Pfeiffenberger of Plains Cotton Growers Inc. will speak on quality cotton and Marion Baumgardner of Southwest Soils Labs will discuss soil tests as related to cotton yield and quality.

Four representatives of the Texas Experiment Station at Lubbock will speak at the afternoon session. Charlie Fisher will discuss the Experiment Station and vocational agriculture. Dr. J.O. Bilbro will talk on cotton breeding.

Cotton planting date and hail damage will be the subject of Dr. Harry C. Lane. Harvey Walker will speak on cotton burrs versus cotton burrs plus fertilizer for increased yields of cotton.

After a talk by Dr. Ray Billingsley of Tech on economics of water conservation, Dr. Jack Thomas of Tech will close the session by discussing the economics of harvesting cotton.

Ray Chappelle of Tech will preside this morning, Walter LaBay of Plainview, this afternoon.

The cotton short course will end Wednesday noon after a morning session on diseases and insects. Approximately 100 cotton men are expected for the talks.

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For Release in July 7, P.M.'s

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Most Southwest ranchmen will not consider seasonal grazing, but "we should be able to adapt our grazing system to a seasonal vegetational growth pattern by practicing deferred-rotation grazing," the Tech dean urged.

"While most ranchmen in the Southwest practice year-long grazing," he stated, "we know that the plant life here is not well-adapted to this type of use."

Thomas was one of several range management authorities speaking at the dedication of La Campana experimental ranch established by the Rockefeller Foundation near Chihuahua. The 2,856-acre ranch will be used for experimental studies in grazing rates, reseeding and revegetation of this semi-arid range land.

An extensive deferred-rotation system planned by Leo Merrill at the Sonora, Tex., Experiment Station was explained by Thomas as a practical way to rebuild range vegetation.

"Under this system, each pasture is grazed for 12 months and rested for four months," he said. "In this manner, all plants have a chance to gain vigor and set seed at least once during a four-year period."

(MORE)

As a result of a nine-year Sonora experiment--including seven years of severe drouth--the deferred-rotation pastures improved in vegetative condition to the extent that they are now capable of carrying five to 10 more animal units per section than the other pastures, Thomas said.

"Although deferred-rotation grazing is only one of the many problems of livestock-vegetation relationship about which we need more research information," the dean said, "I believe that these systems will benefit our livestock industry."

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During the first term of the 1960 summer session, a travel course in European history will be offered by the Tech history department. Dr. W.M. Pearce, history department head, will direct the tour.

Travel to and from Europe will be made by jet aircraft, while the class will travel in Europe by motor coach and rail. Air travel will permit the students to spend 38 days on the European continent and in the British Isles.

Plans now call for the class to leave Lubbock on June 1 and return on July 12, in time for registration for the second term of the summer session.

The group will fly directly to Paris and from there the itinerary will take them to Italy, Germany, Belgium, Holland, England and Scotland. The return flight will be made from London.

Successful completion of the course, History 3314, 3315, carries a credit of six semester hours.

Persons interested in the tour may leave their names with the history department or with Dr. Pearce. Detailed information concerning the itinerary, costs, and other arrangements will be mailed to prospective members of the party. Interviews with the tour director will be scheduled over the next six months.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, July --An instructor workshop in care of the sick and injured will be sponsored by the Texas Tech School of Home Economics and the American National Red Cross Tuesday through Saturday (July 14-18) at Tech.

Special training in effective methods of teaching care of the sick and injured will be given to homemaking teachers, senior homemaking students, secondary school teachers, home demonstration agents and registered nurses.

The workshop will emphasize adaptation of course content to specific situations, such as the school curriculum.

Mrs. Vivian J. Adams, head of the home economics education department, will direct the workshop.

Miss Lillian M. Adams, nursing representative for the American Red Cross in East Texas, will be the visiting lecturer. She has served as volunteer and staff member with the organization for about 15 years, and has experience in other health and welfare work.

Until 1942, she was school nurse with the Indianapolis, Ind., City Board of Health. As early as 1941 she was serving Red Cross as volunteer nurse enrollment committee member.

After becoming a staff worker in 1942, Miss Adams served as nurse recruitment secretary at both the Indianapolis and District of Columbia Red Cross chapters.

Prior to her present assignment, Miss Adams was director of nursing service for the District of Columbia chapter. She has also served as director of special gifts and of home nursing.

A native of Indiana, Miss Adams attended school in Johnson County and was trained in the nursing profession at Indianapolis City Hospital.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: EDUCATION EDITORS

LUBBOCK, July --Who has the most important task, the research scientist or the high school chemistry-physics teacher?

A man who is a pioneer atom-bomb worker--nuclear chemist Dr. Ernest Anderson of Los Alamos Scientific Laboratories--said he believes that high school teachers have the greater responsibility.

As a guest lecturer at the special Chemistry Institute for High School Teachers this week at Texas Tech, the research scientist has discovered "the art of educating and passing on information is a great one."

Anderson, whose doctoral research resulted in the development of Carbon 14 as a radio-active dating process at the University of Chicago, is giving the 70 teachers enrolled in the institute an authoritative view of what's happening in the chemistry of radioactive materials.

"Our biggest problem is not the atomic or hydrogen bomb," he said, "but what we'll know 50 or 100 years from now. Thus education is the most important factor in determining what our national strength will be in the coming century."

The chemist first became associated with the atomic research as a member of the Manhattan Project in 1942 where he was told "Our purpose is to achieve a controlled release of nuclear energy through the use of uranium fission." No other details were given.

In 1944, he was transferred to Los Alamos where the various parts of the A-bomb puzzle were fitted together resulting in the historic blast in the summer of 1945. Since then he has witnessed six or eight nuclear explosions in the South Pacific.

2--Dr. Ernest Anderson

Today the research program at Los Alamos has been greatly diversified. Much of the work now underway has to do with development of nuclear-powered engines for use by space rockets after they get into orbit, he said. Research on various types of nuclear reactors is also commanding much of the scientists' time there.

Anderson is now a member of the bio-medical research group that is studying the biological effects of radiation and fallout.

"The effects of fallout are poorly understood," he commented. "For instance, a primary factor in fallout is rainfall. Where there is more rainfall to carry dust particles down, there is more radioactivity."

He said that the Russian tests, detonated in the high latitudes of Siberia, have resulted in a concentrated band of radioactive dust across the Northern Hemisphere. The United States' tests in the low latitudes of the South Pacific result in particles that are more spread out as they descend from the earth's poles, and the radioactivity is less intense.

Anderson believes future fallout problems may come from smaller nations wanting to get into the atomic-bomb business.

"We can eventually expect that the U.S.S.R., and the United States will learn as much as they need from explosions. The next hope--and problem--is limiting membership in the nuclear club," he added.

In 1957 he attended the International Commission on Radiological Protection meeting in Geneva, Switzerland. The following year he returned there for the second Conference on Peaceful Uses of Atomic Energy.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, July -- One reason Johnny can't read is because he never had a chance to decide whether or not he wanted to read, a Texas Tech consultant declares.

"Many of our youth are not producing as they should because they are pursuing goals that are not their own," Dr. John Shlien told a Tech short course on counseling gifted students.

"There is great pressure today to do as you are told in school and to do as the group does," the University of Chicago psychologist said.

It's just human nature for many to resist such conformity -- consciously or subconsciously -- unless the goals of school and of the group are really their personal goals, he added.

Because of this, Dr. Shlien said, the counselor can do two things: make sure he has as complete an array as possible of information on a student's personality and abilities, make sure that student has an opportunity to consider that material in depth and to decide for himself what he should do with his talents.

Dr. Shlien is lecturing and consulting this week (July 6-11) as the last visiting faculty member in a Tech summer institute on counseling gifted high school students. Thirty area counselors are taking the course, financed by the National Defense Education Act and the West Texas School Study Council.

Dr. Beatrix Cobb of the Tech psychology department is in charge of the institute.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FARM EDITORS

LUBBOCK, --Contract farming looks like an important answer to agriculture's economic ills, a Texas Tech speaker said Thursday (July 9).

Contract farming is an economic arrangement between businessmen and farmers, Ed Synar, Memphis (Tenn.) meat consultant, told a swine breeders short course at Tech.

The businessman supplies all or part of the credit and production supplies and assures a market for the producer. The farmer supplies as many resources as he can, including all or part of the productive labor.

The return to the partners varies with the investment or services supplied in the operation.

Synar said contract farming has five advantages:

It does not require government regulation or subsidy because it is a self-adjusting mechanism through the market place.

It spreads risks, including that of price fluctuation. It is based on personal integrity and private property rights of all parties in the contract.

It shifts or absorbs within its own organization some of the costs of research, teaching and demonstration.

It has no monopoly advantage or power because it relies on economic and technical efficiency in its operations and is not a device for market control.

Synar said his company (Wilson and Co.) is carrying on a hog contracting program on a research basis to find problems associated with the plan.

(More)

2--contract farming

In other short course talks Thursday, Dr. Ray Anderson, Texas Swine breeders secretary-treasurer, discussed the life cycle of feeding and management of swine. Dr. F.G. Harbaugh of Tech explained that inoculation for leptospirosis, a kidney disease, can throw off results of tests for brucellosis in hogs.

Dr. Ralph Durham of Tech described cross breeding systems in hog production. Charles Smallwood of West Texas State reported on bear testing stations which will go into operation there and at Texas A&M this fall.

West Texas will have 40 pens, Texas A&M, 32. Two boars and two littermates will be tested in each pen for feed efficiency, rate of gain and carcass characteristics.

Tuck Foster, a Dallas packer, called the grain-yield system of marketing hogs an important trend. It's the best way for Texans to improve their hogs, he said.

The short course will continue through Friday morning. It will be climaxed with a carcass evaluation of hogs exhibited on the hoof Thursday. Six swine breeders associations are sponsoring the annual course at Tech.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE/HEALTH EDITORS

LUBBOCK, July --You might fool your husband and neighbors about your weight, lady, but your radioactivity will give you away!

That is, if you let yourself be measured in a Human Radioactivity Counter a Texas Tech guest lecturer helped build at Los Alamos Scientific Laboratories.

Dr. Ernest Anderson, nuclear chemist who is lecturing at the special Chemistry Institute for High School Teachers at Tech, says the huge counter has revealed some interesting facts about growth and aging of humans. Results of a study Anderson and W.H. Langham have made with the counter will soon appear in Science magazine.

Actually, the counter measures the amount of potassium in the body, the nuclear chemist said. Natural radioactivity in humans and animals is almost entirely due to potassium, most of which is in the muscles.

Such a measurement, then, is largely one of determining muscle-mass. Anderson's study includes measurement of 1,600 persons who have been placed in the human radioactivity counter.

And, like it or not, most men are on the down-hill grade in muscle-building after age 16, the counter statistics show. In comparison to the fat -- or should we say curves -- they put on, females do much less muscle building after age eight!

A graph made by Anderson from the radioactivity counter data shows that from age zero to age eight, there is a steady, even increase of muscle mass for both boys and girls. Boys decline in muscle building from nine to 12 and then build at a great rate from 12 to age 16. Girls, in the meantime, decline from age eight in the amount of muscle they build compared with their body weight.

(More)

2--radioactivity

The graph shows that during the rest of a human's life, the total mass of a man's body increases, but there is less muscle added -- percentage-wise -- from 16 on.

Anderson first became engaged in radioactivity counter work during his doctoral research at the University of Chicago. Dr. Willard F. Libby, who directed his study, predicted the properties of Carbon 14. It was up to Anderson and others to prove the noted scientist's theory. He did in two years of research.

Since 1948, the method of dating the age of archeological specimens from the amount of Carbon 14 in them has been developed.

"You can't apply radio-carbon dating to just any old dried bone," Anderson cautions. "The method is not fool proof, but the sources of error are well known.

"You must make sure there is an exact correlation between the object to be dated by radio-carbon measurement and the cultural era in which you are interested," he said.

He said a Chicago museum once brought him a wooden object that was supposed to be a thousand-or-so years old. The radioactivity of the object placed its age at less than 100 years. Museum officials later admitted they had taken the word of an Arab peddler as to the age of the artifact.

The accuracy of radio-carbon dating was originally checked by getting radioactivity measurements from artifacts of an accurately known age, he said.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Six trophies were awarded in the final session of the annual swine breeders short course at Texas Tech, Friday afternoon (July 10).

Winning carcass was a 200-pound Hampshire that dressed out at 71 per cent of its weight. Exhibitor was Bob Fee, Colorado City.

Glen Hewlett of Ropesville showed the second-place carcass, a 169-pound Berkshire. Third place was awarded to Buddy Winter of Lubbock. He exhibited a 189-pound Hampshire.

The trophies were awarded by John Bott of San Antonio, representing Peter Hand Co.

Top evaluator of carcasses was B. F. Yeates, assistant county agent at Plainview. E.G. Gaston, Springlake agriculture teacher, was second; Euel Liner, Lubbock hog breeder, third.

More than 150 persons attended the two-day course, sponsored by six swine breeders associations and the Tech animal husbandry department.

In the final session, Jack Barton, swine and poultry breeder, analyzed live and carcass evaluations of the hogs exhibited, discussing the differences in the two methods.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Area Angus breeders will gather today (July 11) at Texas Tech for judging contests and talks on how to improve production of the famous all-black cattle.

Registration will begin at 9 a.m. at the beef cattle barn, where judging of three angus classes will get underway at 9:30 a.m.

There will be first and second prizes for both 4-H and FFA contestants, a first prize for men exhibitors and first prize for women exhibitors.

Dr. Ralph Durham, Tech animal husbandry department head, will speak on correlation of weaning weights and classification scores in the contests.

After a noon barbecue in the livestock pavilion, field day participants will move to Agriculture building auditorium for lectures on Angus.

Dr. F.G. Harbaugh of Tech will speak on leptospirosis, a kidney disease that affects the beef cattle industry. Anderson will discuss meat-type cattle.

New studies of beef cattle shapes as associated with muscling and performance will be described by Dr. Durham. Milt Miller of Brady, American Angus Assn. field representative, will discuss the situation of Angus cattle today.

A Texas Angus Assn. report will be made by Rennie Blackwell of Fort Worth, association secretary.

The field day will close with the West Texas Angus Assn.'s annual directors meeting and election of officers.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FINE ARTS EDITORS

LUBBOCK, July -- Speech students will see 20 plays on the Texas Tech-sponsored American Theater Tour of the Midwest, Canada, the East Coast and the South.

The tour, sponsored by the Texas Tech speech department, begins Aug. 1 and will end Aug. 19 when the group returns to Lubbock. Credit may be received for Speech 3310.

A fee of \$225 includes transportation, lodging, theater tickets and regular college enrollment fees for those enrolling in Speech 3310 Tuesday (July 14).

First on the itinerary is a visit to the State Fair musicals in Dallas. The touring group will attend a rehearsal of "High Button Shoes" starring Janis Paige and Bob Crosby and a performance of "An Evening with Maurice Chevalier."

Other plays that they will attend include: "The Shepherd of the Hills" in Branson, Mo.; "Carmen" in St. Louis, Mo.; "Once More with Feeling" in Chicago, Ill.; "Othello" in Stratford Ont., at Canada's Shakespearian Festival; "Time Remembered" in Malden Bridge, N.Y.; and "Romeo and Juliet" in Stratford, Conn., at the United States Shakespearian Festival.

While in New York City, the tour will see "J.B.", "A Raisin in the Sun", "La Plume De Ma Tante", "Sweet Bird of Youth", "Julius Caesar", "Once Upon a Mattress" and "Shaw Festival."

On the way home they will see "The Common Glory" in Williamsburg, Va.; "The Stephen Foster Story" in Bardstown, Ky.; and "Call Me Madam" in Memphis, Tenn.

The last stop of the tour will be made in Hot Springs, Ark. at the Hot Springs National Park for an evening of relaxation.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, July --Research about measurement of irrigation water by two Texas Tech agricultural engineering students has been recognized by the American Society of Agricultural Engineering.

The students--John Kaisner of Odessa and H.L. Hodgins of Roaring Springs--have written a research paper on orifice method of measuring water flow for a closed irrigation system that placed among the top 10 papers in the 1959 national ASAE student paper contest, William Schwiesow, agricultural engineering assistant professor, said.

Because many farmers irrigating through underground tile systems rely on a rough estimate of their well output, water is sometimes wasted. A simple-but-accurate method of measuring water flow from the well is needed for such systems.

Determining the exact water output is important because of the seasonal variation in the water table on the South Plains, said Kaisner, a soil and water major from Odessa.

One result of their research is a table of figures which theoretically will be useful in figuring gallons-per-minute flow from wells with a larger output than their laboratory set-up.

While the orifice method of measuring water flow is as old as the Egyptian and Roman aqueducts, the students' research into known publications revealed little about water measurement methods in closed irrigation systems. Thus they had to set up a data collecting procedure before beginning their lab experiments.

In setting up their orifice measuring equipment, the students used a three-h.p. electric motor with a variable drive, and eight-inch turbine pump, four-inch pipe with four-inch flanges and orifice plate, a three-inch quick-opening valve and a 200-gallon tank of water.

(More)

2--Research on water irrigation

Their measurements were accomplished with a half-inch gauge tube, two six-foot manometer tubes and a stop watch. This equipment was rigged to simulate as closely as possible a closed irrigation system.

Because their range of experimentation was limited to one-pipe size and one orifice diameter, Kaisner and Hodgins realize more research is due to complete their table of measurements.

However, months of running the experiments, checking and double checking, revealed their rate of measurement was 98 per cent accurate when flow ranged from 70 to 160 gallons per minute. The tables also revealed that for each differential head, there was a corresponding gallons-per-minute rate.

"Once this research is completed," commented Hodgins, "this orifice method of measuring water flow in a closed system will prove valuable in conserving irrigation water supply."

Commenting on the top papers submitted in the ASAE contest, the judging committee emphasized the papers measured up to highest standards of excellence, according to Ralph A. Palmer, ASAE national secretary.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

High school teachers participating in a special biology institute at Texas Tech are heading for the flora and fauna today (Sunday) for a week's observation tour.

Thirty-five persons left this morning for Xilitla, Mexico, to study desert vegetation and tropical plants in a rain forest south of Victoria. Dr. Don Tinkle, and Chester Rowell, assistant professors of biology at Tech, are directing the tour. They will return next Sunday (July 19).

Another group of 35 teachers will be in the Evergreen Valley near Las Vegas, N.M., this week to study animals and vegetation found at various altitudes of the mountains in that region, Dr. Earl Camp, Tech biology associate professor, said. The group will return Saturday.

###

Ken Schneider, Texas Tech graduate of 1953, has been promoted to manager in the commercial audit department of Arthur Andersen and Co., accounting firm in Houston.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director
FOR RELEASE IN A.M.'S OF MONDAY JULY 13

LURBOCK, --More than 3,580 Texas Tech summer students are celebrating "Tech Day" Monday by doing one of the things that has brought the recognition--taking tough final exams.

Andy Rogers of Childress, State Senate president pro-tem proclaimed the special day last Thursday, when he was governor in the absence of Gov. Price Daniel and Lt. Gov. Ben Ramsey.

Finals Monday and Tuesday will end the first term of Tech's summer session. The second term begins Wednesday with registration. Classes begin Thursday and extend through August 20.

In addition to regular classes, Tech is conducting 25 institutes and short courses during the summer session.

Commenting on "Texas Tech Day," Dr. E.N. Jones, the institution's president, said "We welcome this opportunity to thank Texans and all other Tech friends for their support through these years of rapid expansion. We pledge our continued efforts to provide a high quality of training, research, and other public services for them."

Tech has graduated more than 20,000 students since its first commencement in 1927. In the fall of 1955, it became Texas' second largest state-supported college or university, and has maintained that position since.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, July --Twenty-six Texas Tech students were initiated into Phi Delta Kappa, professional education fraternity for men, Saturday.

Dr. Clifford Blackburn, professor of education from North Texas State College, was guest speaker at the initiation banquet held in the Tech Union. He discussed Phi Delta Kappa's future contributions to education.

New officers for the 1959-60 academic year were installed by Morris S. Wallace, Tech education department head. They are Milton Greer, president; C.G. Gray, vice-president; Joe Payne, secretary; Henry R. McCarty, treasurer; G. Spencer Beasley, historian; and Berlie J. Fallon, faculty sponsor. Beasley is from Levelland. The others are from Lubbock.

New members of Phi Delta Kappa from Lubbock include: Charles L. Ainsworth, Ralph Atkinson, William D. Carrell, Roy B. Carnes, Jr., Don E. Fare, Arnold L. Grover, Isaac E. Isaacs, Jr., Elbert W. Jackson, James F. McNally, Leroy E. Morrison, William T. Riddle, Bob Stafford, Carl C. Stull, John K. Vahey, N.B. Wilkerson and Jack Carter.

New members from other communities include: Albert Z. Hays and Joseph J. Marshall, both of Abilene; Bobby L. Copeland of Floydada; Darrel M. Mayer of Kermit; L.F. Rawson of Levelland; Hilton R. Bates, Jr. and Tom R. Adams both of Odessa; C.O. Gregory and Odell Wilkes, both of Sudan and William W. Gregory of Spur.

###

MAILING SCHEDULE FOR July 13-18

[illegible]

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

One of Texas Tech's most popular home economics short courses -- special problems in millinery -- will begin today (July 14).

The class will meet at 9 a.m. in Home Economics 105-106 to start four days of intensive work in custom hat making.

Emphasis will be on hats for fall, but some work will be done with straw, according to Mrs. Patsy Schneider of Mineral Wells, who will teach the course with Dr. Gene Shelden of Tech.

Mrs. Schneider said women's hats this fall will be more luxurious in fabric and color, with much variety in texture. In general, they will be less bulky and smaller than in the past.

Course participants are urged to bring a favorite dress with them if they'd like to match it with a custom hat.

Enrollment fee for the class will be \$10 plus \$5 for supplies, Dr. Shelden said.

###

The Association of College and University Housing Officers has appointed Student Life Dean James G. Allen of Texas Tech as a member of its Southwest Regional Committee for Training Residence Personnel.

The committee will assist member institutions in the growth and refinement of their dormitory and other residence programs.

Efforts will be made to attract competent persons for administering college and university residence programs and to help develop the leadership of persons already in such work.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --The stage lights soon will be on again in the Texas Tech Speech building auditorium, thanks to a summer workshop in speech.

Planned for high school teachers who will try out new training techniques with teenagers this summer, the workshop will begin Thursday (July 16).

They'll plan the plays and other speech activities to be used when the high school students arrive July 20.

About 25 area youngsters are expected for their part of the summer workshop, which will extend through Aug. 31.

Dr. P. Merville Larson of the sponsoring Tech speech department said four plays probably will be offered during the short course. Names and dates of the plays will be announced as soon as the teachers can complete their plans.

In addition to dramatics, the short course will include work in debate, declamation, discussion, extemporaneous speaking, microphone techniques and possibly other speech activities.

Area high schoolers may stay in Tech dormitories or commute from their homes. Dr. Larson estimated about half the youngsters in the workshop will be from out of town.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

FORT HOOD, --W.H. Butterfield, director of development at Texas Tech, has made a two-day inspection tour of training facilities at the Fort Hood ROTC Summer Camp. Butterfield was one of 28 college officials here from schools represented at this year's Camp.

The touring educators joined with Maj. Gen. L.S. Griffing, Deputy 4th US Army Commander in inspecting ranges and tactics training areas and chatting with cadets.

The educators were guests at a dinner and reception at the Fort Hood Officer's Open Mess. They began their busy schedule by hearing a welcome by Maj. Gen. Earle G. Wheeler, Fort Hood and 2nd Armored Division Commander. Then they were briefed on Camp organization by Col. D.A. McPheron, Deputy ROTC Camp Commander.

Other activities included visits to a technique of fire range, tactics areas, mortar, machine gun and recoilless rifle ranges. They also received a helicopter ride and participated in some of the actual training the cadets receive.

The school authorities dined in the company mess halls with cadets from their respective schools.

They had a tank ride on some of the latest Army tanks and then wound up their visit by viewing the 1378-man cadet brigade in a review and parade ceremony.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, July -- A \$1,000 fellowship for doctoral study in inorganic chemistry has been awarded by Lubbock Auto Co. to John L. Bear, Texas Tech graduate student from Lampasas.

Dr. William B. Gates, Tech Graduate School dean, announced the grant will assist Bear in completing his third year of doctoral research in the study of thermal rearrangments in coordination complexes.

Bear's dissertation will cover his basic research in cobalt, chromium and rhodium complexes. He is scheduled to receive his Ph.D. degree in chemistry in June 1960. His doctoral research is directed by Dr. W.W. Wendlandt at Tech.

A graduate of Southwest Texas State College, San Marcos, Bear earned a B.S. degree in chemistry in 1955 and his M.A. in organic chemistry there in 1956.

He has been the author of three scientific papers published in the Journal of Inorganic and Nuclear Chemistry, Analytical Chemistry and the Journal of Chemistry and Industry. All of the papers were about rare-earth chemistry.

Bear is married to the former Lou Ann Boucher of San Marcos and they have one daughter, Jane Ann, aged 19 months. He is the son of Mr. and Mrs. J.O. Bear, Rt. 2, Lampasas.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --The fellow who put up the first "Think" sign probably didn't consider himself a chemist.

But that's what he was in a sense, according to Dr. Walter Hearn, a visiting lecturer this week (July 13-18) in Texas Tech's summer institute for high school chemistry teachers.

"Scientists have discovered evidence that each thought we have is the result of a chemical reaction, the 33-year-old Iowa State faculty member said.

Dr. Hearn is a biochemist -- a specialist in chemical reactions within living organisms. He and fellow scientists are trying to determine what those chemical reactions are and how they take place.

In doing so, they are plunging headlong toward possible explanations of the origin of life.

Does he think human beings ever will be able to create life?

"Yes," he replied, "but probably in very simple forms so far as we can theorize now. Probably the living forms we create will serve as models of chemical bases for life."

Is this an improper invasion of God's powers of creation?

"I think not, although some theologians may disagree," Dr. Hearn said. "What we can learn by doing so may be very helpful in alleviating suffering and improving life."

After all, a basic understanding of the chemistry of life is necessary in combatting cancer, mental illness and a multitude of physiological problems, he said.

An active Christian, Dr. Hearn said he believes science is limited to how life is created.

(More)

2--Hearn

"It offers nothing as to why life is created and what its purpose is," he pointed out.

Dr. Hearn is on the national executive council of the American Scientific Affiliation, an organization of more than 800 scientists who are Christians.

He also is in demand as a speaker at Christian gatherings.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: WOMENS EDITORS

LUBBOCK, July -- Personal development and advanced pattern design will be the topics for two Texas Tech home economics workshops.

Mrs. Bess Rothman of Chicago and Dallas will be the fashion consultant for the personal development workshop which is from Monday to Friday (July 20-24). She has conducted other charm schools in Lubbock and the surrounding area.

Topics to be discussed include: posture, makeup, selection, accessorizing, and planning and participating in fashion shows.

Lectures will be at 9 a.m. each morning. Then those taking the course for credit will divide into groups for lab work. Some of these groups are for teacher, extension workers and for personal use. They will be making practical applications of the lecture material.

There will be afternoon and library work for those taking the course for one-hour credit.

The advanced pattern design course will be directed by Mrs. Gene Shelden, clothing and textiles department head. The course begins July 27 and continues for three weeks.

Each student will make a basic pattern for her own figure. Then she will design and make garments using that pattern.

The pattern is a basic one from which many special designs can be created. Workshop participants will create their own designs. The designs may be original or an idea taken from a garment.

After mastering the basic pattern, commercial patterns can be used more independently.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Eight thousand mums are being planted in Texas Tech flower beds this week in an effort to make the campus bloom as never before this fall.

Most of the mums will be yellow or white, Grounds Supt. Mark Gosdin said. Some of the smaller beds will contain lavender or peach-colored blooms which show well in close viewing.

Large concentrations of mums will include Memorial Circle, east and north boulevards, areas east of the women's dormitories and areas around West and Sneed Halls.

Gosdin said the plantings should disturb several thousand currently-blooming petunias and other flowers only slightly. The petunias are expected to bloom approximately another month, depending on weather conditions.

Beautification of grounds around new men's dormitories, located off Flint, is progressing on schedule. Trees already have been planted and grass is beginning to spread nicely over the area, Gosdin said.

Mass plantings of flowers on the campus in recent years have brought much favorable comment from Lubbock residents and visitors. Numerous color and black-and-white photographs have been made of the landscape, particularly around Memorial Circle.

Campus beautification is supervised by Elo J. Urbanovsky, Tech landscape architect and head of the horticulture and park management department.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Children's voices sang German choruses Thursday at Texas Tech as the third annual summer session of the institution's widely-known Kinderschule began.

Fifty-six children in the second through the sixth grades are enrolled in the course taught by Asst. Prof. Ted Alexander. Assisting this year is Mrs. Robert M. Adair, a Tech graduate and native American of German descent.

Songs and games are used to teach the English-speaking children German at an age when they are especially receptive to such training.

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Texas Technological College
Adrian Vaughan, Director

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Dr. Travis White, Midwestern president, said "I most heartily welcome Dr. Jones to the academic leadership of Midwestern University. He is a great scholar, an academic statesman and devoted to the highest standards of excellence in higher education.

"He will bring to our young University a wealth of experience when our character as an institution of higher education is being rethought in the light of full state support.

(More)

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Department of Public Information
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Adrian Vaughan, Director

FOR SUNDAY
ATTENTION:FARM EDITORS

LUBBOCK, July --Playa lakes in West Texas -- which often make acres of fertile land useless because of standing water -- may become a profitable source of recharge water in irrigated areas.

That's the tentative conclusion of William F. Schwiesow, assistant professor of agricultural engineering at Texas Tech, who has just completed the first operational report on the experimental water recharge system at Tech.

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Located on the north side of Tech Farms, the playa lake bed covered 42 surface acres. An underground tile drainage system for the lake bed was completed in January to filter and carry water to a 16-inch recharge well, 150-feet deep.

One rainfall on June 22 filled the 42-acre lake bed to a depth of 4½-feet, said Schwiesow. This was equivalent to 120-acre feet of water (1-acre-foot equals 325,850-gallons). This put the experimental drainage and recharge system in to operation.

"After eight days of drainage, evaporation and seepage, there were 48-acre feet of water left in the lake," he said.

From this decrease of 72-acre feet, Schwiesow estimates approximately 6-acre feet went to evaporation and a maximum of 36-acre feet went to seepage.

This left a conservative 44-per cent, or 28.6-acre-feet of water, that passed through the recharge system at a flow rate of 810 gallons a minute.

(More)

2--Playa Lakes

"Valuing an acre-foot of water as being worth up to \$60 on cotton, that makes water recovered from that one rain worth approximately \$1,700," the agricultural engineer said. "And, water is still flowing into the well from more recent rains."

He expects the total water flowing into the recharge well from the June and July rains to be well in excess of 40 acre-feet.

The drainage-filtering system in the lake consists of 16 lateral lines, each being 600-feet in length and parallel.

The lines are 37-feet apart and buried an average of three to four feet below the lake bed surface. They are connected at the lower end to a main gathering line.

As the lake water moves downward through the bed, it will be filtered by the backfill materials and then into the lateral lines. The 16 lateral pipes are made of various materials -- four are plastic, two are four-inch transite and two others are six-inch transite. Four more are four-inch and six-inch bituminous pipe. The rest are four-inch or six-inch clay tile.

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He figures the installation will pay for itself in two or three years.

"Sooner or later we will have the drainage and recharge costs lowered to where the value of the land drained and utilized for crops will result in profitable production for the farmer," he said.

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Dr. W.M. Pearce, Texas Tech history department head, will be a consultant at the Institute for Teachers of History, scheduled this week (July 20-24) at New Mexico Highlands University, Las Vegas.

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(More)

add-1- science speaker

"But, we can't give the people the 'wantness' to do this," he added.

"In order to maintain our nation's position of leadership in the world, we have to keep pushing back these horizons in technology," he said. "One of our greatest achievements has been learning how to release the same energy as the sun and stars."

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###

Department of Public Information
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Adrian Vaughan, Director

LUBBOCK, --Eight thousand mums are being planted in Texas Tech flower beds this week in an effort to make the campus bloom as never before this fall.

Most of the mums will be yellow or white, Grounds Supt. Mark Gosdin said. Some of the smaller beds will contain lavender or peach-colored blooms which show well in close viewing.

Large concentrations of mums will include Memorial Circle, east and north boulevards, areas east of the women's dormitories and areas around West and Sneed Halls.

Gosdin said the plantings should disturb several thousand currently-blooming petunias and other flowers only slightly. The petunias are expected to bloom approximately another month, depending on weather conditions.

Beautification of grounds around new men's dormitories, located off Flint, is progressing on schedule. Trees already have been planted and grass is beginning to spread nicely over the area, Gosdin said.

Mass plantings of flowers on the campus in recent years have brought much favorable comment from Lubbock residents and visitors. Numerous color and black-and-white photographs have been made of the landscape, particularly around Memorial Circle.

Campus beautification is supervised by Elo J. Urbanovsky, Tech landscape architect and head of the horticulture and park management department.

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Department of Public Information
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LUBBOCK, --The fellow who put up the first "Think" sign probably didn't consider himself a chemist.

But that's what he was in a sense, according to Dr. Walter Hearn, a visiting lecturer this week (July 13-18) in Texas Tech's summer institute for high school chemistry teachers.

"Scientists have discovered evidence that each thought we have is the result of a chemical reaction, the 33-year-old Iowa State faculty member said.

Dr. Hearn is a biochemist -- a specialist in chemical reactions within living organisms. He and fellow scientists are trying to determine what those chemical reactions are and how they take place.

In doing so, they are plunging headlong toward possible explanations of the origin of life.

Does he think human beings ever will be able to create life?

"Yes," he replied, "but probably in very simple forms so far as we can theorize now. Probably the living forms we create will serve as models of chemical bases for life."

Is this an improper invasion of God's powers of creation?

"I think not, although some theologians may disagree," Dr. Hearn said. "What we can learn by doing so may be very helpful in alleviating suffering and improving life."

After all, a basic understanding of the chemistry of life is necessary in combatting cancer, mental illness and a multitude of physiological problems, he said.

An active Christian, Dr. Hearn said he believes science is limited to how life is created.

(More)

2--Hearn

"It offers nothing as to why life is created and what its purpose is," he pointed out.

Dr. Hearn is on the national executive council of the American Scientific Affiliation, an organization of more than 800 scientists who are Christians.

He also is in demand as a speaker at Christian gatherings.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: WOMENS EDITORS

LUBBOCK, July -- Personal development and advanced pattern design will be the topics for two Texas Tech home economics workshops.

Mrs. Bess Rothman of Chicago and Dallas will be the fashion consultant for the personal development workshop which is from Monday to Friday (July 20-24). She has conducted other charm schools in Lubbock and the surrounding area.

Topics to be discussed include: posture, makeup, selection, accessorizing, and planning and participating in fashion shows.

Lectures will be at 9 a.m. each morning. Then those taking the course for credit will divide into groups for lab work. Some of these groups are for teachers, extension workers and for personal use. They will be making practical applications of the lecture material.

There will be afternoon and library work for those taking the course for one-hour credit.

The advanced pattern design course will be directed by Mrs. Gene Shelden, clothing and textiles department head. The course begins July 27 and continues for three weeks.

Each student will make a basic pattern for her own figure. Then she will design and make garments using that pattern.

The pattern is a basic one from which many special designs can be created. Workshop participants will create their own designs. The designs may be original or an idea taken from a garment.

After mastering the basic pattern, commercial patterns can be used more independently.

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Songs and games are used to teach the English-speaking children German at an age when they are especially receptive to such training.

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FORT HOOD, --W.H. Butterfield, director of development at Texas Tech, has made a two-day inspection tour of training facilities at the Fort Hood ROTC Summer Camp. Butterfield was one of 28 college officials here from schools represented at this year's Camp.

The touring educators joined with Maj. Gen. L.S. Griffing, Deputy 4th US Army Commander in inspecting ranges and tactics training areas and chatting with cadets.

The educators were guests at a dinner and reception at the Fort Hood Officer's Open Mess. They began their busy schedule by hearing a welcome by Maj. Gen. Earle G. Wheeler, Fort Hood and 2nd Armored Division Commander. Then they were briefed on Camp organization by Col. D.A. McPheron, Deputy ROTC Camp Commander.

Other activities included visits to a technique of fire range, tactics areas, mortar, machine gun and recoilless rifle ranges. They also received a helicopter ride and participated in some of the actual training the cadets receive.

The school authorities dined in the company mess halls with cadets from their respective schools.

They had a tank ride on some of the latest Army tanks and then wound up their visit by viewing the 1378-man cadet brigade in a review and parade ceremony.

###

Department of Public Information
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One of Texas Tech's most popular home economics short courses -- special problems in millinery -- will begin today (July 14).

The class will meet at 9 a.m. in Home Economics 105-106 to start four days of intensive work in custom hat making.

Emphasis will be on hats for fall, but some work will be done with straw, according to Mrs. Patsy Schneider of Mineral Wells, who will teach the course with Dr. Gene Shelden of Tech.

Mrs. Schneider said women's hats this fall will be more luxurious in fabric and color, with much variety in texture. In general, they will be less bulky and smaller than in the past.

Course participants are urged to bring a favorite dress with them if they'd like to match it with a custom hat.

Enrollment fee for the class will be \$10 plus \$5 for supplies, Dr. Shelden said.

###

The Association of College and University Housing Officers has appointed Student Life Dean James G. Allen of Texas Tech as a member of its Southwest Regional Committee for Training Residence Personnel.

The committee will assist member institutions in the growth and refinement of their dormitory and other residence programs.

Efforts will be made to attract competent persons for administering college and university residence programs and to help develop the leadership of persons already in such work.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --The stage lights soon will be on again in the Texas Tech Speech building auditorium, thanks to a summer workshop in speech.

Planned for high school teachers who will try out new training techniques with teenagers this summer, the workshop will begin Thursday (July 16).

They'll plan the plays and other speech activities to be used when the high school students arrive July 20.

About 25 area youngsters are expected for their part of the summer workshop, which will extend through Aug. 31.

Dr. P. Merville Larson of the sponsoring Tech speech department, said four plays probably will be offered during the short course. Names and dates of the plays will be announced as soon as the teachers can complete their plans.

In addition to dramatics, the short course will include work in debate, declamation, discussion, extemporaneous speaking, microphone techniques and possibly other speech activities.

Area high schoolers may stay in Tech dormitories or commute from their homes. Dr. Larson estimated about half the youngsters in the workshop will be from out of town.

###

Department of Public Information
Texas Technological College
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LUBBOCK, July --Twenty-six Texas Tech students were initiated into Phi Delta Kappa, professional education fraternity for men, Saturday.

Dr. Clifford Blackburn, professor of education from North Texas State College, was guest speaker at the initiation banquet held in the Tech Union. He discussed Phi Delta Kappa's future contributions to education.

New officers for the 1959-60 academic year were installed by Morris S. Wallace, Tech education department head. They are Milton Greer, president; C.G. Gray, vice-president; Joe Payne, secretary; Henry R. McCarty, treasurer; G. Spencer Beasley, historian; and Berlie J. Fallon, faculty sponsor. Beasley is from Levelland. The others are from Lubbock.

New members of Phi Delta Kappa from Lubbock include: Charles L. Ainsworth, Ralph Atkinson, William D. Carrell, Roy B. Carnes, Jr., Don E. Fare, Arnold L. Grover, Isaac E. Isaacs, Jr., Elbert W. Jackson, James F. McNally, Leroy E. Morrison, William T. Riddle, Bob Stafford, Carl C. Stull, John K. Vakey, N.B. Wilkerson and Jack Carter.

New members from other communities include: Albert Z. Hays and Joseph J. Marshall, both of Abilene; Bobby L. Copeland of Floydada; Darrel M. Mayer of Kermit; L.F. Rawson of Levelland; Hilton R. Bates, Jr. and Tom R. Adams both of Odessa; C.O. Gregory and Odell Wilkes, both of Sudan and William W. Gregory of Spur.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, July -- A \$1,000 fellowship for doctoral study in inorganic chemistry has been awarded by Lubbock Auto Co. to John L. Bear, Texas Tech graduate student from Lampasas.

Dr. William B. Gates, Tech Graduate School dean, announced the grant will assist Bear in completing his third year of doctoral research in the study of thermal rearrangments in coordination complexes.

Bear's dissertation will cover his basic research in cobalt, chromium and rhodium complexes. He is scheduled to receive his Ph.D. degree in chemistry in June 1960. His doctoral research is directed by Dr. W.W. Wendlandt at Tech.

A graduate of Southwest Texas State College, San Marcos, Bear earned a B.S. degree in chemistry in 1955 and his M.A. in organic chemistry there in 1956.

He has been the author of three scientific papers published in the Journal of Inorganic and Nuclear Chemistry, Analytical Chemistry and the Journal of Chemistry and Industry. All of the papers were about rare-earth chemistry.

Bear is married to the former Lou Ann Boucher of San Marcos and they have one daughter, Jane Ann, aged 19 months. He is the son of Mr. and Mrs. J.O. Bear, Rt. 2, Lampasas.

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MAILING SCHEDULE FOR July 20-July 25[illegible]

Department of Public Information
Texas Technological College
Adrian Vaughan, Director
ATTN: WOMEN'S EDITORS

LUBBOCK, July -- Knowing what to do with your feet need not be a major feat, but to many women it's a problem.

From Queens to teens, women who are well groomed know that graceful movements are an important part of personal appearance and development, says Mrs. Bess Rothman, former Dallas fashion consultant, who is directing a special course in personal development this week at Texas Tech's School of Home Economics.

She is teaching some 25 home demonstration agents, home economics teachers and homemakers the essential theories of graceful actions, proper clothing techniques and personal attitudes.

"Personality is the most important," said Mrs. Rothman, who points out that "a woman can groom herself to perfection, but unless there is something within, all the rest can be meaningless."

She stresses that only 25-per cent of a woman's beauty and charm is her grooming, the rest depends on her mental, emotional and spiritual maturity.

"God has given each and every woman natural beauty, it's what she does with it that's important," she said.

Pointing out that one is not vain to take pride in her appearance, she noted that to be well groomed is important to others, too.

"If a person -- man or woman -- knows they are walking gracefully, properly dressed and are otherwise well prepared to meet the world, they don't have to worry about themselves and can give their full attention to others."

That's the purpose of the Tech course, to train the participants to help others develop their self-confidence by gaining the confidence and respect of others. Thus, they can forget themselves and give more attention to others.

(MORE)

"A woman that is truly charming never makes another person around her feel ill-at-ease," said Mrs. Rothman.

Where does this charm begin? One answer was given recently in Chicago when Queen Elizabeth of England visited there, the fashion consultant said. Asked how Her Majesty managed to remain so gracious during the many long tours and receptions, the queen replied:

"My grandmother, (Queen Mary) always reminded me that 'A woman's charm begins with her feet,' and that 'a woman selects her shoes as carefully as her husband!'"

Mrs. Rothman noted that teaching girls and women to walk properly is an important part of personal development. It's also a matter of good health.

"It's not what your figure is," she tells her classes, "it's how a woman dresses and walks that is important."

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Texas Technological College
Adrian Vaughan, Director

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While in New York City, the tour will see "J.B.", "A Raisin in
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On the way home they will see "The Common Glory" in Williamsburg,
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The last stop of the tour will be made in Hot Springs, Ark., at
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Stage manager for the entire program is Dean Quade of Rule, a member of the theatre activities class. Directors and designer-technical directors for each play are students enrolled in the school speech activities class.

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Sponsored by the Dunlap stores of Lubbock, the scholarships are to assist promising students during their freshman year.

The 1959-60 winners and their backgrounds include:

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Department of Public Information
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ATTN: WOMEN'S EDITORS

LUBBOCK, July -- Knowing what to do with your feet need not be a major feat, but to many women it's a problem.

From Queens to teens, women who are well groomed know that graceful movements are an important part of personal appearance and development, says Mrs. Bess Rothman, former Dallas fashion consultant, who is directing a special course in personal development this week at Texas Tech's School of Home Economics.

She is teaching some 25 home demonstration agents, home economics teachers and homemakers the essential theories of graceful actions, proper clothing techniques and personal attitudes.

"Personality is the most important," said Mrs. Rothman, who points out that "a woman can groom herself to perfection, but unless there is something within, all the rest can be meaningless."

She stresses that only 25-per cent of a woman's beauty and charm is her grooming, the rest depends on her mental, emotional and spiritual maturity.

"God has given each and every woman natural beauty, it's what she does with it that's important," she said.

Pointing out that one is not vain to take pride in her appearance, she noted that to be well groomed is important to others, too.

"If a person -- man or woman -- knows they are walking gracefully, properly dressed and are otherwise well prepared to meet the world, they don't have to worry about themselves and can give their full attention to others."

That's the purpose of the Tech course, to train the participants to help others develop their self-confidence by gaining the confidence and respect of others. Thus, they can forget themselves and give more attention to others.

(MORE)

2--Personal development course

"A woman that is truly charming never makes another person around her feel ill-at-ease," said Mrs. Rothman.

Where does this charm begin? One answer was given recently in Chicago when Queen Elizabeth of England visited there, the fashion consultant said. Asked how Her Majesty managed to remain so gracious during the many long tours and receptions, the queen replied:

"My grandmother, (Queen Mary) always reminded me that 'A woman's charm begins with her feet,' and that 'a woman selects her shoes as carefully as her husband!'"

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"It's not what your figure is," she tells her classes, "it's how a woman dresses and walks that is important."

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GENERAL INSTRUCTIONS FOR PERSONNEL PREPARING ENVELOPES FOR JONES-GIFT SOLICITATION:

1. Address tan, campus mail envelopes for all faculty and staff on campus this term.
2. Address Public Information Department envelopes for all faculty and staff members not on campus this term.
3. Hold all envelopes until you receive printed letter to be inserted in them, plus stamps for off-campus envelopes. Copies of letter and stamps should arrive Monday afternoon or Tuesday.
4. Stuff all envelopes, stamp off-campus envelopes, mail all envelopes as soon as possible.

Thanks very much
for your help,

A handwritten signature in cursive script that reads "Adrian Vaughan".

Adrian Vaughan, Chairman
Faculty Club Committee
on Fund for Jones Gift

July 27, - Aug. 1

Aug. 1

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Mary Plunkett of Roscoe, a June graduate of Texas Tech, has received an \$1,800 fellowship for graduate study in food and nutrition at Iowa State University, Ames.

Miss Plunkett, who has a bachelor of science degree in home economics from Tech, plans to go into commercial food research. At ISU, she will be a research assistant in addition to doing graduate study for a master of science degree.

She will be the second Tech home economics graduate enrolled at ISU in the 1959-60 academic year. Mary Alice Kenney of Slaton, a '58 Tech graduate, will be in her second year of advanced study there. She has received a National Research Foundation grant to supplement her Iowa State fellowship.

###

Department of Public Information
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BAYTOWN, --W. Houston Schweitzer, a Texas Tech graduate, has been elected president of the San Jacinto branch of the American Society of Civil Engineers.

Schweitzer is a staff engineer in the technical division at the Humble Oil and Refining Co. refinery here. He holds a bachelor of science degree from Tech, where he was a member of Tau Beta Pi engineering society and Alpha Chi scholastic honorary.

Schweitzer is chairman of the pastoral relations committee for St. Mark Methodist Church here and is the immediate past chairman of the Church's official board.

He and Mrs. Schweitzer have two sons, Bill and Steven, and a daughter, Carol.

###

NEW ORLEANS, --Leroy Floyd, a 1951 graduate of Texas Tech, has been named manager of offices here for Arthur Andersen and Co., accounting firm.

Floyd served with the firm from 1951 through 1956 before joining the staff of one of its clients. Two years later he rejoined Andersen and Co. as a senior staff member here.

###

Department of Public Information
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RALEIGH, N.C. July --Cliff H. Keho, associate professor of civil engineering at Texas Tech, is completing study at a summer institute on nuclear energy this week at North Carolina State College at Raleigh.

Aim of the six-week institute is to provide special basic training in the field of nuclear energy and nuclear reactors to outstanding engineering educators throughout the nation.

The group will tour Oak Ridge National Laboratory in Tennessee this weekend.

Keho and others were also able to observe a critical experiment-- the activation of nuclear reactor -- as part of their program. This occurred when North Carolina State's 500-watt nuclear reactor was moved to a new location on campus.

The training program included courses of study in health physics, physics, nuclear metallurgy, heat transfer problems, reactor physics, radiochemistry and instrumentation.

###

Department of Public Information
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Adrian Vaughan, Director

FORT HOOD, -- Five Texas Tech Army ROTC cadets were among 85 commissioned as second lieutenants in ceremonies climaxing summer training here.

The five are Byrd Duncan and Don D. Godfrey, McLean; John A. Hardaway, Andrews; Harry W. Jones, Moran; and Jerome H. Tschauner, (3400 Winfield), Odessa.

The cadets have completed a four-year ROTC program. Maj. Gen. Earle G. Wheeler, Fort Hood and Second Army Division commander, spoke to the cadets at the commissioning exercises.

Duncan's parents are Mr. and Mrs. E.T. Duncan. Godfrey is the son of Mr. and Mrs. Ernest Godfrey. Hardaway is the son of Mr. and Mrs. Carl Hardaway. Jones' parents are Mr. and Mrs. L.W. Jones, and Tschauner is the son of Mr. and Mrs. E.J. Tschauner.

###

FOR SUNDAY

LUBBOCK, Aug. -- Eight South Plains students have been awarded \$1,600 in freshman scholarships at Texas Tech by the Kuykendall Foundation of Lubbock.

The \$200 grants are awarded on a basis of scholarship, citizenship and character, with consideration given to need, according to James G. Allen, dean of student life, who announced the grants on behalf of the Tech committee on scholarships and awards.

The 1959-60 winners and their backgrounds are:

CROSBYTON -- Rozonna Loree Griffin, Crosbyton High School valedictorian. She won merit awards, was elected to Who's Who and was F.H.A. president. She was a member of the National Honor Society, basketball team, choir and pep squad.

FARWELL -- Richard Dee Williams, Farwell High School valedictorian. He won the Chamber of Commerce award for outstanding senior, the outstanding basketball player award for two years and the football scholastic award for two years. He held offices in the National Honor Society, senior class and band.

LAMESA -- William Henry McCulloch, Jr., Lamesa High School valedictorian. He was elected to Who's Who in math and science and was a member of the football team and choir.

LAZBUDDIE -- Smythie Douglas Lawrence, Lazbuddie High School salutatorian. He was class president and a member of the National Honor Society, annual staff and paper staff.

LITTLEFIELD -- William James Wade, Littlefield High School graduate. He was football team captain, all-district football player for two years and was elected to Who's Who in boy's athletics. He held offices in the National Honor Society, junior class and student council. He was a member of the football and basketball teams and choir.

(MORE)

2-- Kuykendall scholarships

MATADOR -- Peggy Jeanne Welling, Matador High School graduate. She won the social studies award, citizenship award and American Legion citizenship award. She was the business manager of the annual and was a member of the basketball team, drum and bugle corps, pep club, choral club and F.H.A.

SLATON -- James Elby Murphy, Slaton High School graduate. He was voted "most likely to succeed" and was a member of the library and science clubs.

SPUR -- Michael Norman Swanson, Spur High School graduate. He was first chair trombone in the band.

###

Department of Public Information
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ATTN: EDUCATION EDITORS

For Sunday Release

LUBBOCK, Aug. -- High school journalists -- some 150 of them from 24 area schools -- will be at Texas Tech Aug. 10-13 for the second annual High School Journalism Workshop here.

Sponsored by the Tech journalism department and the West Texas High School Press Assn., the workshop will be divided into three areas -- newspapers, yearbooks, and photography. Also enrolled are 15 high school publications advisors.

W.E. Garets, Tech journalism department head will direct the workshop assisted by Phil Orman, Tech student publications director.

"Purpose of the workshop is to help students gain ideas and knowledge to take back to their own schools. They will work on their own plans with expert guidance," explained Garets.

Miss Elizabeth Hurley, Pampa High School journalism teacher and newspaper and yearbook advisor, will supervise the newspaper workshop. She will be assisted by Gordon Downum, assistant principal of Smylie Wilson Junior High School, Lubbock, who was the director of the newspaper workshop last year.

The group in the newspaper workshop will put out a 20 page issue of the Toreador, Tech newspaper, according to Garets.

James F. Paschal, Amarillo High School teacher and publications advisor, will supervise the yearbook workshop. He will be aided by men from the yearbook field.

The two-day photo short course will be supervised by Rollie McNutt, photographer for the Lubbock Avalanche-Journal. His lab assistant will be Travis Harrell, Tech publications photographer.

(MORE)

The photo course is for both students and advisors and has a limited enrollment of 20 because of space and facility limitations.

The group will learn to take pictures, develop negatives, make prints from the negatives and crop and edit the prints. They will also do a picture project.

On Thursday, Aug. 13, there will be a panel discussion on opportunities in journalism with representatives from various fields of journalistic activity.

Panel members are Henry McKee, night city editor of the Avalanche-Journal, Duncan Ellison, KDUB-TV news director, Mrs. Louise Allen, Tech associate professor of journalism, Rex Webster of Craig and Webster Advertising Agency, Lubbock, and Ralph Dye, Amarillo, editor and publisher of the West Texas Quarter Horse Journal and special correspondent for the American Quarter Horse Journal. Garets is panel moderator.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

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This will be Miss Lindell's second trip to Europe to gather information on international developments in her field. In 1957, she visited clinics in England, Norway, Sweden, Denmark, Germany and Austria.

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Dr. Ralph M. Durham, animal husbandry department head in Tech's School of Agriculture, has launched a breeding project that will involve 11-types of steer calves -- ranging from extreme dairy types to chunky beef types in conformation -- being tested.

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"Is the type of cattle that we call 'beef-type' really the kind that gives us the most beef of satisfactory quality?" he asked.

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The cross-breeding program will include Holstein cows being bred with Angus, Hereford and Brahma bulls to obtain Holstein-Angus, Holstein-Herefords and Holstein-Brahma calves. Also to be cross-bred will be Angus and Herefords, Brahma and Herefords and Brahma and Angus to get cross-calves.

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Rounding out the experimental lot will be pure-bred Angus, Brahma and Hereford calves along with Holstein and Jersey calves.

"We'll raise these 11-types of steer calves on Holstein nurse cows to a weight of 450 to 500 pounds," he explained. "Then they will be fed out to approximately 1000-pounds, during which time feed conversion and rate-of-gain will be recorded. These animals will then be slaughtered and their carcasses will be carefully studied. The data will be analyzed to determine the association of shape with meat."

"Half-blood dairy-beef heifers will be bred with full blood beef bulls to produce calves that have 75-per cent beef genes and 25- per cent dairy or Brahma genes," he added. These will be slaughtered and studied, too.

When the project is completed, Durham expects the animal husbandry students will have studied the extreme in cattle shape and gradations from one extreme to the other -- except the Texas long horn.

The Holstein cows have already been mated, and two Herefords, one Holstein and one Jersey steer calves have been put on nurse cows. The project will build up throughout the year as the calves come along.

Durham, a well-known animal geneticist, became head of the animal husbandry department this summer. He has specialized in the science of breeding cattle and swine.

-- W.R. Tatum

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Department of Public Information
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FOR SUNDAY

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Department of Public Information
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FOR SUNDAY RELEASE:

ATTN: MUSIC/FINE ARTS EDITORS

LUBBOCK, Aug. --Five new music instructors -- two of whom studied in Europe under Fulbright scholarships -- have been named to the Texas Tech music department faculty.

Dr. Gene Hemmle, Tech music department head, announced the appointments of John Edward Price, currently studying in Paris, France, Evelyn McGarrity of Macon, Ga., Mrs. Kathleen Armstrong Thomerson of Electra, Richard E. Tolley of Scranton, Pa., and Ronald B. LoPresti of Williamstown, Mass.

Price will teach piano. A native of Wilkes-Barre, Penn., he is currently completing his second year of study in Paris as a Fulbright prize winner. He was graduated with honors from the George Eastman School of Music in 1951 and received his Master of Music degree in music literature in 1952. Price taught piano and theory at Eastman and Hastings College in Nebraska prior to winning his Fulbright award in 1957. In 1955 he made a successful recital tour of Mexico.

Miss McGarrity, who will teach voice, is also a Fulbright scholarship winner. She studied voice in Rome, Italy, and has taught at Wesleyan College and Indiana University.

Possessing a rich contralto voice, she has won recognition with her appearances in Rome, and with the Robert Shaw's Chorale. She earned a Bachelor of Music degree in 1948 at Wesleyan College and a Master of Music degree at Indiana University in 1958. She received a National Federation of Music Clubs Young Artists Award in 1957 and was Chicago regional auditions winner for Metropolitan Auditions of the Air in 1958. (MORE)

2--Music Department Faculty

Mrs. Thomerson will teach organ in Tech's music department. She earned her Bachelor of Music degree at the University of Texas in 1956 and received her Master of Music degree there in 1958. She also studied at the Royal Flemish Conservatory in Belgium in 1954-55.

Her compositions have been recognized by the Southwestern Composers Symposium and she was honored by Mu Phi Epsilon music honorary with the outstanding senior woman award at Texas. Mrs. Thomerson has given recitals in Europe as well as the United States. She has taught at the University of Colorado, at Texas and in the Electra Public Schools.

Tolley, who will teach brass instruments, earned his Master of Science degree in Music Education this year at the University of Illinois. He received a Bachelor of Science degree there in 1955.

A native of Scranton, Pa., Tolley was a graduate assistant in trumpet and cornet at Illinois from 1957-59. After receiving his bachelor's degree he served as an Army bandsman and choral director.

An award-winning composer, LoPresti, will teach theory. He holds bachelor and master of music degrees from the Eastman School of Music where he held undergraduate and graduate fellowships in clarinet and orchestration.

Two volumes of 20 melodic studies by LoPresti have been published. The full score of his "The Masks" has been recorded by Mercury. Urania stereo recording company has recorded his "Sketch for Percussion." He is currently preparing an overture for concert band for the Educational Music Bureau.

A native of Williamstown, Mass., LoPresti was the nation-wide winner of the 1955 Serge Koussevitzky Award. In 1956 he was winner of a Music for Percussion prize and in 1957 he received the first annual College Band Director's Award. In 1958 he won first honorable mention in the Vachel Lindsay Competition

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BAYTOWN, --W. Houston Schweitzer, a Texas Tech graduate, has been elected president of the San Jacinto branch of the American Society of Civil Engineers.

Schweitzer is a staff engineer in the technical division at the Humble Oil and Refining Co. refinery here. He holds a bachelor of science degree from Tech, where he was a member of Tau Beta Pi engineering society and Alpha Chi scholastic honorary.

Schweitzer is chairman of the pastoral relations committee for St. Mark Methodist Church here and is the immediate past chairman of the Church's official board.

He and Mrs. Schweitzer have two sons, Bill and Steven, and a daughter, Carol.

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NEW ORLEANS, --Leroy Floyd, a 1951 graduate of Texas Tech, has been named manager of offices here for Arthur Andersen and Co., accounting firm.

Floyd served with the firm from 1951 through 1956 before joining the staff of one of its clients. Two years later he rejoined Andersen and Co. as a senior staff member here.

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Department of Public Information
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LUBBOCK, --Mary Plunkett of Roscoe, a June graduate of Texas Tech, has received an \$1,800 fellowship for graduate study in food and nutrition at Iowa State University, Ames.

Miss Plunkett, who has a bachelor of science degree in home economics from Tech, plans to go into commercial food research. At ISU, she will be a research assistant in addition to doing graduate study for a master of science degree.

She will be the second Tech home economics graduate enrolled at ISU in the 1959-60 academic year. Mary Alice Kenney of Slaton, a '58 Tech graduate, will be in her second year of advanced study there. She has received a National Research Foundation grant to supplement her Iowa State fellowship.

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RALEIGH, N.C. July --Cliff H. Keho, associate professor of civil engineering at Texas Tech, is completing study at a summer institute on nuclear energy this week at North Carolina State College at Raleigh.

Aim of the six-week institute is to provide special basic training in the field of nuclear energy and nuclear reactors to outstanding engineering educators throughout the nation.

The group will tour Oak Ridge National Laboratory in Tennessee this weekend.

Keho and others were also able to observe a critical experiment-- the activation of nuclear reactor -- as part of their program. This occurred when North Carolina State's 500-watt nuclear reactor was moved to a new location on campus.

The training program included courses of study in health physics, physics, nuclear metallurgy, heat transfer problems, reactor physics, radiochemistry and instrumentation.

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FORT HOOD, -- Five Texas Tech Army ROTC cadets were among 85 commissioned as second lieutenants in ceremonies climaxing summer training here.

The five are Byrd Duncan and Don D. Godfrey, McLean; John A. Hardaway, Andrews; Harry W. Jones, Moran; and Jerome H. Tschauner, (3400 Winfield), Odessa.

The cadets have completed a four-year ROTC program. Maj. Gen. Earle G. Wheeler, Fort Hood and Second Army Division commander, spoke to the cadets at the commissioning exercises.

Duncan's parents are Mr. and Mrs. E.T. Duncan. Godfrey is the son of Mr. and Mrs. Ernest Godfrey. Hardaway is the son of Mr. and Mrs. Carl Hardaway. Jones' parents are Mr. and Mrs. L.W. Jones, and Tschauner is the son of Mr. and Mrs. E.J. Tschauner.

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FOR SUNDAY

LUBBOCK, Aug. -- Eight South Plains students have been awarded \$1,600 in freshman scholarships at Texas Tech by the Kuykendall Foundation of Lubbock.

The \$200 grants are awarded on a basis of scholarship, citizenship and character, with consideration given to need, according to James G. Allen, dean of student life, who announced the grants on behalf of the Tech committee on scholarships and awards.

The 1959-60 winners and their backgrounds are:

CROSBYTON -- Rozonna Loree Griffin, Crosbyton High School valedictorian. She won merit awards, was elected to Who's Who and was F.H.A. president. She was a member of the National Honor Society, basketball team, choir and pep squad.

FARWELL -- Richard Dee Williams, Farwell High School valedictorian. He won the Chamber of Commerce award for outstanding senior, the outstanding basketball player award for two years and the football scholastic award for two years. He held offices in the National Honor Society, senior class and band.

LAMESA -- William Henry McCulloch, Jr., Lamesa High School valedictorian. He was elected to Who's Who in math and science and was a member of the football team and choir.

LAZBUDDIE -- Smythie Douglas Lawrence, Lazbuddie High School salutatorian. He was class president and a member of the National Honor Society, annual staff and paper staff.

LITTLEFIELD -- William James Wade, Littlefield High School graduate. He was football team captain, all-district football player for two years and was elected to Who's Who in boy's athletics. He held offices in the National Honor Society, junior class and student council. He was a member of the football and basketball teams and choir.

(MORE)

2-- Kuykendall scholarships

MATADOR -- Peggy Jeanne Welling, Matador High School graduate. She won the social studies award, citizenship award and American Legion citizenship award. She was the business manager of the annual and was a member of the basketball team, drum and bugle corps, pep club, choral club and F.H.A.

SLATON -- James Elby Murphy, Slaton High School graduate. He was voted "most likely to succeed" and was a member of the library and science clubs.

SPUR -- Michael Norman Swanson, Spur High School graduate. He was first chair trombone in the band.

###

Department of Public Information
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ATTN: EDUCATION EDITORS

For Sunday Release

LUBBOCK, Aug. -- High school journalists -- some 150 of them from 24 area schools -- will be at Texas Tech Aug. 10-13 for the second annual High School Journalism Workshop here.

Sponsored by the Tech journalism department and the West Texas High School Press Assn., the workshop will be divided into three areas -- newspapers, yearbooks, and photography. Also enrolled are 15 high school publications advisors.

W.E. Garets, Tech journalism department head will direct the workshop assisted by Phil Orman, Tech student publications director.

"Purpose of the workshop is to help students gain ideas and knowledge to take back to their own schools. They will work on their own plans with expert guidance," explained Garets.

Miss Elizabeth Hurley, Pampa High School journalism teacher and newspaper and yearbook advisor, will supervise the newspaper workshop. She will be assisted by Gordon Downum, assistant principal of Smylie Wilson Junior High School, Lubbock, who was the director of the newspaper workshop last year.

The group in the newspaper workshop will put out a 20 page issue of the Toreador, Tech newspaper, according to Garets.

James F. Paschal, Amarillo High School teacher and publications advisor, will supervise the yearbook workshop. He will be aided by men from the yearbook field.

The two-day photo short course will be supervised by Rollie McNutt, photographer for the Lubbock Avalanche-Journal. His lab assistant will be Travis Harrell, Tech publications photographer.

(MORE)

2--Journalism workshop

The photo course is for both students and advisors and has a limited enrollment of 20 because of space and facility limitations.

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On Thursday, Aug. 13, there will be a panel discussion on opportunities in journalism with representatives from various fields of journalistic activity.

Panel members are Henry McKee, night city editor of the Avalanche-Journal, Duncan Ellison, KDUB-TV news director, Mrs. Louise Allen, Tech associate professor of journalism, Rex Webster of Craig and Webster Advertising Agency, Lubbock, and Ralph Dye, Amarillo, editor and publisher of the West Texas Quarter Horse Journal and special correspondent for the American Quarter Horse Journal. Garets is panel moderator.

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"We'll raise these 11-types of steer calves on Holstein nurse cows to a weight of 450 to 500 pounds," he explained. "Then they will be fed out to approximately 1000-pounds, during which time feed conversion and rate-of-gain will be recorded. These animals will then be slaughtered and their carcasses will be carefully studied. The data will be analyzed to determine the association of shape with meat."

"Half-blood dairy-beef heifers will be bred with full blood beef bulls to produce calves that have 75-per cent beef genes and 25- per cent dairy or Brahma genes," he added. These will be slaughtered and studied, too.

When the project is completed, Durham expects the animal husbandry students will have studied the extreme in cattle shape and gradations from one extreme to the other -- except the Texas long horn.

The Holstein cows have already been mated, and two Herefords, one Holstein and one Jersey steer calves have been put on nurse cows. The project will build up throughout the year as the calves come along.

Durham, a well-known animal geneticist, became head of the animal husbandry department this summer. He has specialized in the science of breeding cattle and swine. -- W.R. Tatum

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

EXCLUSIVE IN YOUR CITY

CAPTION

TEXAS TECH THEATER TOURISTS WHO VISITED

display a carefully marked map of the route they're taking to other national theater centers on their two and a half week trip. Clockwise from the bottom are four of the group: Miss Elizabeth Hoyer, Wellington, Kan.; Asst. Prof. Ronald Schulz, Tech; and Mrs. Naomi Moore and Miss Barbara Garnett, Lubbock. (Texas Tech Photo)

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