

LOCALS
DAILIES
WIRE
SERVICE
WEEKLY
REGIONAL
MT'S
BOARD
TELEPHONES

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DAY	NAME OF STORY	LO	DAT	W	SE	WE	REG	H7	BON	TEL	EXPLANATION (SPECIALS, PHOTOS, ETC.)
Thurs.	Mansell Fund	X	X								
con't	Tech Chemicals Conf.		X						X		Farm Editors
	Park Development	X	X	X2							
Eri. 5	Sellmeyer	X						1	X		Pub.Auxl., Editor & Pub., U. of Kansas City & U. of Missouri Alumni, T.P.A. Messenger, The Kansas Pub., Panhandle Pub., W. Texas Pub.
	Women's Gyn	X	X	2					X		
Sat. 6	Valentine's Day Feature (MJ)		X			X	X		X		Attn: Feature Editor
	Grain Drying Conference					X	X				Attn: Farm Editor
	Easter Fillers--2 pages					X	X				
	Dr. Cranberg	X	X						X		w/ pix to AJ
TOTALS		18	11	12	3	3	1 S. 1 HT	17	6		

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Wayne James of Lubbock has been named new executive secretary of the Texas Tech Ex-Students Assn., effective April 1.

James has been on the association staff since his graduation from Tech in 1957, serving first as field secretary and later as assistant executive secretary.

He succeeds L.C. Walker, who has resigned effective at his convenience in March.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Clarence F. Simes, a former student at Texas Tech, has been appointed district superintendent for Service Pipeline Co.'s Lovington, N.M. district.

Simes is a former staff engineer at Lubbock, headquarters for the company's West Texas division. He specialized in engineering and mathematics in his studies at Tech.

Active in Lubbock community activities, Simes is a past president of the Will Rogers Toastmasters Club, member of the MacKenzie Masonic Lodge, and a deacon in the Christian Church.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Attn: Farm Editors

LUBBOCK, ---Rapid cooling of milk can lessen any rancidity, research at Texas Tech proves.

Under laboratory conditions, rapid cooling results in a lower degree of free fatty acid, Asst. Prof. Ed Jarman of Tech reported at a Southern Agricultural Workers meeting Monday (Feb. 1) in Birmingham, Ala.

Eighteen samples of milk from eight cows were used in the tests at Tech. Time for collecting the samples was approximately 12 minutes.

Fat, taste and odor tests were made immediately after collection and compositing. Each sample then was divided into three groups.

Group one was tested immediately for free fatty acid. A brine bath cooled the second group to 38 degrees fahrenheit in three minutes. The third was cooled to 38 degrees fahrenheit in approximately 70 minutes.

All samples were re-examined two hours after cooling and again 12 hours after cooling.

Rapid cooling resulted in less rancidity (free fatty acid) in 14 of the 18 samples two hours after cooling, Jarman said. When tested 12 hours after cooling, all samples of the rapidly-cooled milk showed less rancidity than slower-cooled samples.

In another test, the scientists at Tech quick froze 18 samples to 10 degrees fahrenheit. The samples were aged 12 hours at 38 degrees and warmed slowly to 55 degrees.

In 11 samples, the free fatty acid was increased at one hour and 12 hour determinations after the treating of samples, Jarman reported. However, in no sample did the acid sufficiently increase to detect rancidity by taste or odor.

Working with Jarman in the experiments were K.L. Neeley, J.J. Willingham and A.V. Moore. ###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

LUBBOCK, Jan. --Undergraduate science students from 16 junior and senior colleges throughout West Texas will begin registration at Texas Tech today (Wednesday) for a Collegiate Science Research Conference.

An estimated 80 students are expected for the two-day meeting that will begin at 8 a.m. Thursday and continue through Friday, Dr. Joe Adamcik, chairman of the Tech conference said. Registration will be held from 8 to 10 p.m. tonight in Chemistry 101 on campus.

The conference is sponsored by the Texas Academy of Science and supported by the National Science Foundation.

"Purpose of the conference is to encourage outstanding undergraduate science students to consider advanced study," Adamcik said. The students will view senior and graduate research facilities in physics, chemistry, biology and geology.

They will visit laboratories related to their major science interest and discuss various aspects of current research in major natural science fields.

Junior and senior colleges sending students and faculty include: Abilene Christian College, Amarillo College, Cisco Junior College, Frank Phillips Junior College, Howard Payne College, Howard County Junior College, Hardin-Simmons University, Lubbock Christian College, McMurray College, Midwestern University, Odessa Junior College, Sul Ross State College, South Plains Junior College, Texas Western College, West Texas State College, and Wayland Baptist College.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

"A Balanced Curriculum in Grades 1-12" will be discussed today (Wednesday) at a meeting of the West Texas School Study Council in the Texas Tech Union building from 10:30 a.m. to 4:30 p.m.

Approximately 60 superintendents, principals, curriculum directors, teachers and Tech faculty members will hear a panel discussion on the problems and trends in the 18 schools in the Council.

Panel members are Dr. Jess Hudson, curriculum director of the Tulsa public schools; Dr. Ralph Schilling, superintendent of the Littlefield public schools; Tommy Thompson, superintendent of the Kermit public schools; J.B. Youngblood, Underwood Elementary School principal at Andrews; and Virgil Keyes, high school principal at Seminole. Panel director is Dr. Joe Tidrow, curriculum director of the Andrews public schools.

Dr. Hudson will serve as consultant to the group, and will present some of the trends in balancing school programs throughout the country. He will discuss these trends in the light of increasing demands currently being made on schools.

Dr. Berlie J. Fallon, Tech associate professor of education and executive secretary of the Council, made arrangements for the meeting.

For the past 18 months, the Council has directed study in the areas of science and mathematics programs, programs for gifted children, grouping of students according to ability, special education programs for handicapped students, graduation requirements and pupil guidance.

Schools belonging to the Council include Andrews, Hereford, Plainview, Littlefield, Levelland, Hale Center, Abernathy, Slaton, Morton, Lamesa, Denver City, Seminole, Big Spring, Kermit, Monahans, Snyder, Brownfield, and Petersburg.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech's speech department will host a high school speech meet on Saturday, Feb. 6. Nineteen schools in the West Texas area are scheduled to participate in the seven events to be held.

Approximately 150 students will be entered in junior declamation, senior declamation, poetry reading, extemporaneous speaking, original oratory, debate, and one-act play.

Two experimental discussion groups will be featured at this year's meet. The groups composed of one member from each debate team will consider the problem, "What should be the role of government in regulating organized labor?" The 40-minute discussions will be followed by a 10-minute critical evaluation.

Confirmation of registration will begin at 8 a.m. and the first event, the one-act plays, will begin at 9 a.m.

At 10 a.m. contests will begin in all the individual events and the experimental groups will begin the discussion sessions. The first round of debate will start at 11 a.m. and the last round will end at 4:40 p.m.

Jerry Rollins Powell, director of speech activities for the state Interscholastic League in Austin, will speak at the luncheon to be held in the Student Union ballroom at 12:15 p.m. Presentation of individual events awards will be made at the luncheon.

Awards will be presented to the winning debate teams and play entries at 5 p.m.

Interscholastic League rules and provisions will be followed with few exceptions. The regularly scheduled regional Interscholastic League meet will be held at Texas Tech in April.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Two New Zealanders will urge that their nation become part of the United States at a Texas Tech debate today (Wednesday) in the Tech Union ballroom.

W.D. Dent and Ted Thomas will debate the question, "Resolved, that New Zealand should become the 51st state in the United States," with Tech debaters Don Zimmerman and Franz Helbig. The debate will begin at 7:30 p.m. and the public is invited to attend.

Dent and Thomas will be guests of the Rotary Club at its noon meeting today in the Caprock Hotel.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Manufacturing of cottage cheese can be speeded up with no appreciable loss in yield or quality, laboratory tests at Texas Tech reveal.

Speeding up the rate of inoculation with bacteria cuts manufacturing time considerably, Asst. Prof. Ed Jarman has announced.

Dairy industry department tests with 32 vats of cottage cheese show a manufacturing time of seven hours and five minutes for five percent inoculation, five hours and 31 minutes for 10 percent, five hours and six minutes for 15 percent and four hours and 57 minutes for 20 percent.

The 15 percent rate of inoculation gave the highest yield--19.75 pounds per 100 pounds of skim milk.

Jarman reported the results at a Southern Agricultural Workers meeting this week (Feb. 1-3) in Birmingham, Ala.

Working with him on the research at Tech were J. J. Willingham and J. N. Morgan.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

West Texas undergraduate science students will begin studying the nature, requirements and rewards of the sciences, in a two-day meeting today (Thursday) on the Texas Tech campus.

The Collegiate Science Research Conference will include seminars, discussions and personal conferences to give participants a chance to learn more about types of graduate training required for scientific research.

Dr. Joe Adamcik, chairman of the Tech conference said that encouraging outstanding undergraduate science students to consider advanced study is the purpose of the meet.

Students from 16 junior and senior colleges throughout West Texas will also take part in a dinner at 7:30 p.m. today (Thursday) in the dining room of the First Methodist Church.

Guest speaker, Dr. Henry Thomas, will discuss "The Demands of Modern Society on Higher Education".

During the conference, graduate research facilities in physics, chemistry, biology and geology will be viewed by the students, as well as laboratories related to their major science interest. They may also gain information on the scholarships and assistantships in scientific fields available in universities throughout the country.

Students and faculty at the meet will include representatives from: Abilene Christian College, Amarillo College, Cisco Junior College, Frank Phillips Junior College, Howard Payne College, Howard County Junior College, Hardin-Simmons University, Lubbock Christian College, McMurry College, Midwestern University, Odessa Junior College, Sul Ross State College, South Plains Junior College, Texas Western College, West Texas State College, and Wayland Baptist College.

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Department of Public Information
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Problems in balancing academic and extra-curricular activities in public schools received the attention of some 50 school administrators at Texas Tech Wednesday.

Dr. Jess Hudson, curriculum director of Tulsa public schools, was chief resource speaker at the February meeting of West Texas School Study Council.

He outlined challenges school administrators face from critics who want an all-science curriculum and from those who want education goals reappraised with a view about what is ahead in our society.

"Certainly," he noted, "the education provided in the 1940's is not good enough for the '60's. We must be able to sort out the constructive from destructive criticism. Improvements will come about as a result of re-examination."

In other council business, the Post school system was accepted for membership in the school study and research organization. Representing the Post Independent School District was Supt. R. T. Smith.

Other schools belonging to the Council include: Andrews, Hereford, Plainview, Littlefield, Levelland, Hale Center, Abernathy, Slaton, Morton, Lamesa, Denver City, Seminole, Big Spring, Kermit, Monahans, Snyder, Brownfield, and Petersburg.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, ---Former students, students and other friends of Baylor University will have a reunion following the Texas Tech-Baylor basketball game here Feb. 13.

The reunion will be in the home of Dr. and Mrs. O. W. English, 2809 19th. The Red Raiders and the Bears meet in a Southwest Conference game at 8 p.m. Feb. 13 in Lubbock Coliseum.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

A Texas Tech professor of home economics education, Dr. Jessie A. Bateman, will serve as chairman of the Texas Assn. for Supervision and Curriculum Development in Corpus Christi Feb. 9-13.

She will aid in planning a curriculum research institute and will be a leader of a group considering the impacts of a study made by the Commission of Education on Vocational Education.

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Miss Billie F. Williamson, associate professor of home economics education at Texas Tech, will attend and participate in the national meeting of Association for Student Teaching to be held at Chicago, Ill, Feb. 9-14.

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LUBBOCK, -- Texas Tech passed an electronic milestone this week when 240 or more students began attending eight classes via closed-circuit TV.

If the experiment is successful, and indications are that it will be, it could be the beginning of some significant changes in teaching at the big institution -- changes that will improve quality of instruction.

The eight classes scheduled for lectures through electronics are in engineering drawing. The TV will allow a lecturer to teach two classes at one time. About 30 students will be in each class.

A student assistant will be in each classroom to help with individual problems that arise. Students in each class will have access to a telephone so they may talk with the lecturer at any time.

Teaching engineering drawing by TV provides several advantages, according to Dr. Richard Dudek, head of the industrial engineering department which supervises the courses.

"Good engineering drawing teachers are hard to obtain because they can make so much more in industry and because they must have special talents," he said.

"TV allows the talents of a good lecturer to reach more students at a time," he pointed out.

He also explained that one big problem in engineering drawing is giving all students the same perspective of a demonstration. Under ordinary classroom methods, a demonstration must be repeated several times from different angles so that all parts of the class will have the same perspective of it.

(MORE)

2--Tech teaching by TV

With the flat plane of a TV screen aimed directly at each part of the class, the demonstration of an engineering drawing problem may be done only one time.

Other aspects of engineering drawing show up much better on a TV screen than they do on the blackboard or demonstration-size drawings, Dudek explained.

Teaching the first classes by closed-circuit TV this semester are L.C. Lindenmeier, C.C. Perryman, Bill Power, and Robert Reeves.

More than a year and a half has been spent by the lecturers in preparation for teaching the course by TV.

The closed-circuit TV equipment could be adapted for broadcasting later, Dudek said. The only equipment missing is a transmitter.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, -- Texas Tech will begin using closed-circuit television to teach engineering drawing this semester.

Six viewing screens have been installed in two laboratories, allowing one faculty member to lecture to two classes at once. Tech officials expect the \$22,000 investment to be amortized in about four years.

Most of the salary of an instructor will be saved annually after that. If the project is successful, more sets may be installed so one lecturer can teach four or five classes of engineering drawing at once.

##

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- A fund in memory of Dr. C.C. Mansell, long-time Lubbock physician who died last Saturday, has been established to aid worthy pre-medical students at Texas Tech.

Gifts to the Chris Mansell Memorial Fund are being received by the Tech Foundation.

A special committee of Dr. Mansell's friends and associates has been organized to encourage contributions to the fund.

Dr. O.W. English, committee chairman, said aid to worthy students in the pre-medical curriculum at Tech was felt by the committee to be an appropriate use for the fund, since it represents a special interest of Dr. Mansell.

It will be the first fund established at Texas Tech for financial aid to pre-medical students.

Tech officials have assured the committee that such a fund will meet a real need. A number of memorial gifts already have been received by the Texas Tech Foundation, William H. Butterfield, Tech vice-president in charge of development, said.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

FOR SUNDAY

ATTN: FARM EDITORS

LUBBOCK, Feb. -- How farm chemicals can help diversify agriculture in West Texas will be pointed up at Texas Tech's seventh annual Agricultural Chemicals Conference Tuesday, Wednesday and Thursday.

The interrelationship between quality crop production, the livestock industry and range management will be emphasized during the two-day program by some 20 experts from throughout Texas and the South.

Registration will get underway between 5 and 7 p.m. Tuesday in the Caprock Hotel and continue at 8:30 a.m. Wednesday in the Tech Union on campus where all sessions will be held.

Sponsoring organizations are Tech, the Lubbock Chamber of Commerce, the West Texas Chamber of Commerce and the A. & M. College System of Texas.

Setting the tone for the first day's program will be Dr. Gerald W. Thomas, Tech agriculture dean, who will speak on "Chemicals, Cotton and Grain Sorghum" at 9:15 a.m. "Growth, Importance and Problems of Aerial Application" will be told by William Lewis, president of Texas Aerial Applicators Assn., Houston, at 9:30 a.m.

Research in aerial application will be the topic at 10 a.m. by L.P. Nolen of Mercedes.

Dr. Ralph Durham, head of Tech's animal husbandry department, will tell the place of chemicals in producing quality meat at 11:45 a.m. Dr. W.O. Trogdon, Texas A. & M. agronomy head is chairman of the morning session.

(MORE)

2 -- Tech chemicals conference

Dr. W.L. Stangel, dean emeritus of Tech's School of Agriculture will be chairman of the Wednesday afternoon session. "Use of Chemicals in the Production of Quality Pastures" will be the 1:15 p.m. topic of Dr. Wayne McCully, Texas experiment station range specialist at College Station.

"Growth Regulators" will be the topic of Dr. Wayne Hall at 1:45 p.m. He heads Texas A. & M.'s plant physiology department. "Use of Chemicals in Balancing a Grain Sorghum Ration for Poultry" is the title of a talk slated at 2:15 p.m. by Dr. E.L. Stephenson of the University of Arkansas.

S.C. Smith, immediate past president of the Agricultural Ammonia Institute, will relate dealer problems in handling agricultural chemicals at 3 p.m. He is from Uvalde. Final speakers Wednesday will be Ollie Liner, Hale County agricultural agent, who will describe "The Weed Control District," and W.L. Edelman of Friona who will tell how the state herbicide law operates in Parmer County.

The Thursday morning session will open with Dr. Ed Clark of the New Mexico Experiment Station at Artesia in charge. Dr. Luther Bird, T.A.E.S. plant pathologist at College Station, will tell the "Relationship of Farm Chemicals to Cotton Diseases" at 9 a.m.

"New Developments in the Herbicide Field" will be the 9:30 a.m. topic of R.H. Beatty, research director for Amchem Products, Inc., in Pennsylvania. Dr. R.D. Turk, Texas A. & M. parasitology department head, will compare "Chemical Control of Internal Parasites in Livestock: Their Advantages and Disadvantages" at 10 a.m.

Fred Elliott, T.A.E.S. cotton specialist, will describe practical use of defoliants and desiccants at 10:45 a.m.

(MORE)

3 -- Tech chemicals conference

Thursday afternoon will be devoted to a session on soil fertility. Sponsoring the series of lectures is the South Plains Soil Fertility Committee. Conrad Lohoefer, Plains Cotton Growers, Inc., is chairman.

Dr. W.B. Andrews of Mississippi Chemical Corp., Yazoo City, Miss., will discuss "What Should I as a Farmer Know About Using Anhydrous Ammonia" at the 1 p.m. session.

Lohoefer will introduce reports on work supported by the soil fertility committee, the PCG and the National Plant Food Institute at 1:30. Shelby Newman, T.A.E.S. agronomist at Lubbock, will discuss balancing fertilization and irrigation at 1:45 p.m.

"Three Tons of Grain Sorghum Per Acre?" is the question for consideration at 2:15 p.m. by Dr. Tom Longnecker, director of the High Plains Research Foundation near Plainview.

Agronomists Bill Hatchett and Harvey Walker of the T.A.E.S. in Lubbock will discuss "Boosting Profit on Cotton with Fertilizer" at 3 p.m. Capping the program will be a talk by Dr. Clark Harvey, Texas Tech agronomist, on "Indications of Approaching Soil Needs."

Following the last speech, there will be business meeting^(e) of the South Plains Soil Fertility Committee.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: Recreation Editors

ARDMORE, Okla. Feb. -- Large expanses of near-urban land should be spared from the developers bulldozer, some 250 park and recreation leaders were told here Thursday (Feb. 4).

Speaking at the Southwest Park and Recreation Institute being held at Lake Murray State Park and conducted by Texas Tech's horticulture and park management department, John Hewett of Silver Spring, Md., called for establishment of more regional parks throughout the nation.

Hewett, who is parks director of the Maryland National Capitol Park and Planning Commission, said, "Change in our nation's growth has forced a reappraisal of our park program. It has led to the decision that large expanses of our land should be spared from the developers bulldozer and maintained as regional parks."

Only in this way can "we hope to salvage some measure of natural beauty that preceded the dizzy pace of urbanization, and at the same time provide for future park and recreation needs," he declared.

The training institute is sponsored by the American Institute of Park Executives and directed by Prof. Elo Urbanovsky, Tech horticulture and park management head.

Three factors -- the U.S. population "explosion", increased mobility, and urbanization -- have placed a serious strain on the national recreation facilities, Dr. Garrett G. Eppley of Indiana University said.

"The impact of rapidly expanding leisure time is creating a tremendous demand for increased park and recreation facilities," he said. "Highly qualified personnel are in demand to motivate the positive use of leisure time."

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --Ralph L. Sellmeyer, a former Kansas weekly newspaper editor, has been named assistant professor of journalism at Texas Tech.

Prof. W. E. Garets, Tech journalism department head, announced that Sellmeyer will teach reporting, photojournalism and advertising courses. He succeeds Dr. David Bowers who has been appointed executive editor of the Chester, Pa., Times.

Sellmeyer was editor of the Baldwin, Kans., Ledger for two and a half years before joining the Texas Tech journalism faculty.

A native of Osawatomie, Kans., Sellmeyer served three years in the Navy during World War II. He earned a Bachelor of Journalism degree at the University of Missouri in 1949 and a M.A. degree in educational administration at the University of Kansas City in 1950.

After serving another active duty tour with the Navy during the Korean War, Sellmeyer was a reporter for the Independence, Kans., Daily Reporter and later a feature writer for the Daily Drover's Telegram in Kansas City, Mo.

He is married to the former Mildred Dahlston of Kansas City, Mo. They have three daughters, Melissa, 9, Susan, 5, and Sherri, 1.

###

LUBBOCK, ---Three good sports from Texas Tech's physical education department for women shed their coats in a cold north wind Friday (Feb. 5) and poured cement in the first column of a new \$270,000 women's gymnasium.

Officially making a dream of 35 years come true for Tech coeds were Janelle Cormack of Amarillo, Nancy Greer of Sweetwater, and Irma Galindo of Lubbock. All represented the Major-Minor Club for women in physical education.

Ever since 1925, when Tech opened with women's PE classes conducted in a third-floor room of the Ad building Tech students and officials have planned and hoped for a special women's gym like most major colleges and universities have.

From 1927 until 1957, women and men alternated in using a "temporary" gym better known as "the Barn". When the new Tech gymnasium and swimming pool was opened in 1958, the old gym built to warehouse standards was given over completely to women.

Sometime in the next academic year, Tech coeds will move into more than 24,000 square feet of modern facilities for a variety of sports and social activities.

The new gym for women is located adjacent and immediately southwest of the women's dormitories. Main unit inside the structure will be a large play area with markings for a basketball court, 6 badminton courts or three volleyball courts.

The room also can be used for Tech dances. Temporary bleachers seating 180 can be move in for special programs.

Underneath is a basement area large enough for indoor archery and golf practice.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FEATURE EDITORS

American males feel a little uneasy on Valentine's Day this leap year!

However, sources in the Texas Tech library say that male freedom has been in jeopardy on Feb. 14 of any year as early as the seventeenth century.

Throughout history there have been legends that a young girl would marry the first bachelor she met on Valentine's Day. The young ladies wasted no time in trying to identify their lover.

For example a girl who wanted to aid fate a bit, might visit the village graveyard at midnight on Valentine's Eve. There the boy friend would appear, especially if she ran about the church 12 times while a certain chant was sung.

Another custom found in England aided the maiden to gain an advance peek at her future mate in a dream. However, she must sleep on bay leaves sprinkled with rose water and slipped under her pillow.

Young ladies of the Roman times, had no advance notice of their "valentine" or sweetheart for the year. Names of the young people were placed in a receptacle and then the Roman lad would draw for his valentine.

---Merium Jackson

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FARM EDITORS

LUBBOCK, Feb. -- Major aspects of drying and storing grain will be covered in a conference slated at Texas Tech March 2-3.

Tech's agricultural engineering department is sponsoring the sixth annual Grain Drying and Storage Conference to be held in the Tech Union building.

Subjects ranging from construction problems to insects will be covered by 14 principal speakers and six panel discussion groups during the two-day meeting.

Storage facility failures, concrete in storage construction, the USDA's views on grain drying, wet grain, insects and marketing grain abroad are some of the topics to be discussed March 2. Three panel groups will cover grain drying, grain aeration and grain storage structures in the afternoon session.

Speeches on domestic and foreign merchandising of grain, electronic controls and fire prevention in storage facilities will be covered in the March 3 morning session.

Subjects for the three afternoon panel discussions include fans-controls-instruments, fumigation and merchandising.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

For use before March 1.

FOR PRE-EASTER EDITIONS

Shrove or "Pancake" Tuesday -- the last day before the beginning of Lent on Ash Wednesday -- originated in the pre-Reformation times when villagers were called to confession by the church bell.

Sources of the Texas Tech library reveal that the bell which once called parishioners to be "shriven" for their sins has now become the signal for making pancakes, in England.

Since no meat was eaten during Lent, it was customary from early times, to use up all the fat for pancake making. So the Pancake race through the streets of Olney, England and the Pancake Toss of the Westminster school can be found in English traditions as early as the seventeenth century.

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One of the best known Shrove Tuesday customs, the Pancake race which originated in Olney, England, has now spread to Liberal, Kansas. Kansas housewives compete with the women in Olney for a silver skillet trophy. At the sound of the "pancake bell" the housewives in both countries prepare to race the 415 yard course carrying a hot pancake in a skillet.

Contestants must "flip the fritter" three times during the race and attend a short church service following the contest. According to an old custom all the pancakes surviving the race should go to the bell-ringers for their Shrove Tuesday feast, Texas Tech library sources reveal.

---Merium Jackson

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Department of Public Information
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Adrian Vaughan, Director

For use before March 1.
FOR PRE-EASTER EDITIONS

Cock fights and cock throws used to characterize the Tuesday before Ash Wednesday. They originated from the traditional belief that the crowing bird associated with Peter's denial was a cock-- thus all cocks must be punished.

Texas Tech library sources show that supersitition also has it that cocks are punishable because they once betrayed the Saxons at a time when the Danes had invaded Britain. The Saxons had resolved to murder their oppressors on Shrove Tuesday morning. However, the early crowing of the cock woke the Danes and gave them advance warning of the plan.

#####

--Merium Jackson

Wednesday, March 2, will mark the 124th anniversary of the Texas declaration of independence.

On that day in 1836, a convention meeting at Washington-on-the-Brazos adopted a constitution, according to Texas Tech library sources. David G. Burnet was named provisional governor and Sam Houston was again chosen as commander-in-chief of the Army.

This took place while the battle of the Alamo was being fought.

###

--Jennice Marks

LUBBOCK, Feb. -- Dr. Lawrence Cranberg of Los Alamos (N.M.) Scientific Laboratory will be a visiting lecturer at Texas Tech Feb. 18-19.

Dr. Cranberg is well known professionally for his work in nuclear physics, particularly neutron spectroscopy and high voltage breakdown in a vacuum.

He was technical advisor to the U.S. delegation at the Conference on Peaceful Uses of Atomic Energy, held at Geneva, Switzerland, in 1955. He is a member of the Nuclear Cross-Section Advisory Group for the Atomic Energy Commission and is the author of articles in Physical Review, Review of Scientific Instruments and Journal of Applied Physics.

Dr. Henry Thomas, Tech physics department head, said Dr. Cranberg will meet with a graduate seminar at 5 p.m. Feb. 18 in the Science Building.

The visiting physicist will address a joint meeting of Sigma Pi Sigma, physics society, and the American Institute of Physics Club at 7:30 p.m. on that date in the Science Building.

Students and graduate physicists on the South Plains are invited to attend these sessions, Dr. Thomas said.

Dr. Cranberg will also meet with students, faculty and Tech officials. Meetings with the faculty will include discussions of research problems.

Dr. Cranberg will visit Tech under the auspices of the American Institute of Physics and the American Assn. of Physics Teachers as part of a nationwide program to stimulate interest in that science. This program is supported by the National Science Foundation.

Dr. Cranberg has a B.S. degree from City College of New York, M.A. from Harvard, and Ph.D. from the University of Pennsylvania.

Department of Public Information
~~Texas Technological College~~
Adrian Vaughan, Director

CAPTION

NOTCHING A TEXAS TECH HEREFORD'S EAR for identification in livestock feeding experiments are (clockwise from left) Dallas Powell, Plains; Henry Elliott, Rankin; and Jim Neill, Merkel. The three animal husbandry students are helping in Tech livestock feeding experiments aimed at helping Texas ranchers double their annual livestock income. (Texas Tech Photo)

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Department of Public Information
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Adrian Vaughan, Director

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LUBBOCK, --Manufacturing of cottage cheese can be speeded up with no appreciable loss in yield or quality, laboratory tests at Texas Tech reveal.

Speeding up the rate of inoculation with bacteria cuts man manufacturing time considerably, Asst. Prof. Ed Jarman has announced.

Dairy industry department tests with 32 vats of cottage cheese sbbw a manufacturing time of seven hours and five minutes for five percent inoculation, five hours and 31 minutes for 10 percent, five hours and six minutes for 15 percent and four hours and 57 minutes for 20 percent.

The 15 percent rate of inoculation gave the highest yield-- 19.75 pounds per 100 pounds of skim milk.

Jarman reported the results at a Southern Agricultural Workers meeting this week (Feb. 1-3) in Birmingham, Ala.

Working with him on the research at Tech were J. J. Willingham and J. N. Morgan.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

West Texas undergraduate science students will begin studying the nature, requirements and rewards of the sciences, in a two-day meeting today (Thursday) on the Texas Tech campus.

The Collegiate Science Research Conference will include seminars, discussions and personal conferences to give participants a chance to learn more about types of graduate training required for scientific research.

Dr. Joe Adamcik, chairman of the Tech conference said that encouraging outstanding undergraduate science students to consider advanced study is the purpose of the meet.

Students from 16 junior and senior colleges throughout West Texas will also take part in a dinner at 7:30 p.m. today (Thursday) in the dining room of the First Methodist Church.

Guest speaker, Dr. Henry Thomas, will discuss "The Demands of Modern Society on Higher Education".

During the conference, graduate research facilities in physics, chemistry, biology and geology will be viewed by the students, as well as laboratories related to their major science interest. They may also gain information on the scholarships and assistantships in scientific fields available in universities throughout the country.

Students and faculty at the meet will include representatives from: Abilene Christian College, Amarillo College, Cisco Junior College, Frank Phillips Junior College, Howard Payne College, Howard County Junior College, ~~Hardin-Simmons University, Lubbock Christian College, McMurtry College, Midwestern University,~~ Odessa Junior College, Sul Ross State College, South Plains Junior College, Texas Western College, West Texas State College,

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Problems in balancing academic and extra-curricular activities in public schools received the attention of some 50 school administrators at Texas Tech Wednesday.

Dr. Jess Hudson, curriculum director of Tulsa public schools, was chief resource speaker at the February meeting of West Texas School Study Council.

He outlined challenges school administrators face from critics who want an all-science curriculum and from those who want education goals reappraised with a view about what is ahead in our society.

"Certainly," he noted, "the education provided in the 1940's is not good enough for the '60's. We must be able to sort out the constructive from destructive criticism. Improvements will come about as a result of re-examination."

In other council business, the Post school system was accepted for membership in the school study and research organization. Representing the Post Independent School District was Supt. R. T. Smith.

Other schools belonging to the Council include: Andrews, Hereford, Plainview, Littlefield, Levelland, Hale Center, Abernathy, Slaton, Morton, Lamesa, Denver City, Seminole, Big Spring, Kermit, Monahans, Snyder, Brownfield, and Petersburg.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, ---Former students, students and other friends of Baylor University will have a reunion following the Texas Tech-Baylor basketball game here Feb. 13.

The reunion will be in the home of Dr. and Mrs. O. W. English, 2809 19th. The Red Raiders and the Bears meet in a Southwest Conference game at 8 p.m. Feb. 13 in Lubbock Coliseum.

#####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

A Texas Tech professor of home economics education, Dr. Jessie A. Bateman, will serve as chairman of the Texas Assn. for Supervision and Curriculum Development in Corpus Christi Feb. 9-13.

She will aid in planning a curriculum research institute and will be a leader of a group considering the impacts of a study made by the Commission of Education on Vocational Education.

###

Miss Billie F. Williamson, associate professor of home economics education at Texas Tech, will attend and participate in the national meeting of Association for Student Teaching to be held at Chicago, Ill, Feb. 9-14.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, -- Texas Tech will begin using closed-circuit television to teach engineering drawing this semester.

Six viewing screens have been installed in two laboratories, allowing one faculty member to lecture to two classes at once. Tech officials expect the \$22,000 investment to be amortized in about four years.

Most of the salary of an instructor will be saved annually after that. If the project is successful, more sets may be installed so one lecturer can teach four or five classes of engineering drawing at once.

##

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, -- Texas Tech passed an electronic milestone this week when 240 or more students began attending eight classes via closed-circuit TV.

If the experiment is successful, and indications are that it will be, it could be the beginning of some significant changes in teaching at the big institution -- changes that will improve quality of instruction.

The eight classes scheduled for lectures through electronics are in engineering drawing. The TV will allow a lecturer to teach two classes at one time. About 30 students will be in each class.

A student assistant will be in each classroom to help with individual problems that arise. Students in each class will have access to a telephone so they may talk with the lecturer at any time.

Teaching engineering drawing by TV provides several advantages, according to Dr. Richard Dudek, head of the industrial engineering department which supervises the courses.

"Good engineering drawing teachers are hard to obtain because they can make so much more in industry and because they must have special talents," he said.

"TV allows the talents of a good lecturer to reach more students at a time," he pointed out.

He also explained that one big problem in engineering drawing is giving all students the same perspective of a demonstration. Under ordinary classroom methods, a demonstration must be repeated several times from different angles so that all parts of the class will have the same perspective of it.

2--Tech teaching by TV

With the flat plane of a TV screen aimed directly at each part of the class, the demonstration of an engineering drawing problem may be done only one time.

Other aspects of engineering drawing show up much better on a TV screen than they do on the blackboard or demonstration-size drawings, Dudek explained.

Teaching the first classes by closed-circuit TV this semester are L.C. Lindenmeier, C.C. Perryman, Bill Power, and Robert Reeves.

More than a year and a half has been spent by the lecturers in preparation for teaching the course by TV.

The closed-circuit TV equipment could be adapted for broadcasting later, Dudek said. The only equipment missing is a transmitter.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- A fund in memory of Dr. C.C. Mansell, long-time Lubbock physician who died last Saturday, has been established to aid worthy pre-medical students at Texas Tech.

Gifts to the Chris Mansell Memorial Fund are being received by the Tech Foundation.

A special committee of Dr. Mansell's friends and associates has been organized to encourage contributions to the fund.

Dr. O.W. English, committee chairman, said aid to worthy students in the pre-medical curriculum at Tech was felt by the committee to be an appropriate use for the fund, since it represents a special interest of Dr. Mansell.

It will be the first fund established at Texas Tech for financial aid to pre-medical students.

Tech officials have assured the committee that such a fund will meet a real need. A number of memorial gifts already have been received by the Texas Tech Foundation, William H. Butterfield, Tech vice-president in charge of development, said.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

FOR SUNDAY

ATTN: FARM EDITORS

LUBBOCK, Feb. -- How farm chemicals can help diversify agriculture in West Texas will be pointed up at Texas Tech's seventh annual Agricultural Chemicals Conference Tuesday, Wednesday and Thursday.

The interrelationship between quality crop production, the livestock industry and range management will be emphasized during the two-day program by some 20 experts from throughout Texas and the South.

Registration will get underway between 5 and 7 p.m. Tuesday in the Caprock Hotel and continue at 8:30 a.m. Wednesday in the Tech Union on campus where all sessions will be held.

Sponsoring organizations are Tech, the Lubbock Chamber of Commerce, the West Texas Chamber of Commerce and the A. & M. College System of Texas.

Setting the tone for the first day's program will be Dr. Gerald W. Thomas, Tech agriculture dean, who will speak on "Chemicals, Cotton and Grain Sorghum" at 9:15 a.m. "Growth, Importance and Problems of Aerial Application" will be told by William Lewis, president of Texas Aerial Applicators Assn., Houston, at 9:30 a.m.

Research in aerial application will be the topic at 10 a.m. by L.P. Nolen of Mercedes.

Dr. Ralph Durham, head of Tech's animal husbandry department, will tell the place of chemicals in producing quality meat at 11:45 a.m. Dr. W.O. Trogdon, Texas A. & M. agronomy head is chairman of the morning session.

(MORE)

2 -- Tech chemicals conference

Dr. W.L. Stangel, dean emeritus of Tech's School of Agriculture will be chairman of the Wednesday afternoon session. "Use of Chemicals in the Production of Quality Pastures" will be the 1:15 p.m. topic of Dr. Wayne McCully, Texas experiment station range specialist at College Station.

"Growth Regulators" will be the topic of Dr. Wayne Hall at 1:45 p.m. He heads Texas A. & M.'s plant physiology department. "Use of Chemicals in Balancing a Grain Sorghum Ration for Poultry" is the title of a talk slated at 2:15 p.m. by Dr. E.L. Stephenson of the University of Arkansas.

S.C. Smith, immediate past president of the Agricultural Ammonia Institute, will relate dealer problems in handling agricultural chemicals at 3 p.m. He is from Uvalde. Final speakers Wednesday will be Ollie Liner, Hale County agricultural agent, who will describe "The Weed Control District," and W.L. Edelman of Friona who will tell how the state herbicide law operates in Parmer County.

The Thursday morning session will open with Dr. Ed Clark of the New Mexico Experiment Station at Artesia in charge. Dr. Luther Bird, T.A.E.S. plant pathologist at College Station, will tell the "Relationship of Farm Chemicals to Cotton Diseases" at 9 a.m.

"New Developments in the Herbicide Field" will be the 9:30 a.m. topic of R.H. Beatty, research director for Amchem Products, Inc., in Pennsylvania. Dr. R.D. Turk, Texas A. & M. parasitology department head, will compare "Chemical Control of Internal Parasites in Livestock: Their Advantages and Disadvantages," at 10 a.m.

Fred Elliott, T.A.E.S. cotton specialist, will describe practical use of defoliants and desiccants at 10:45 a.m.

3 -- Tech chemicals conference

Thursday afternoon will be devoted to a session on soil fertility. Sponsoring the series of lectures is the South Plains Soil Fertility Committee. Conrad Lohoefer, Plains Cotton Growers, Inc., is chairman.

Dr. W.B. Andrews of Mississippi Chemical Corp., Yazoo City, Miss., will discuss "What Should I as a Farmer Know About Using Anhydrous Ammonia" at the 1 p.m. session.

Lohoefer will introduce reports on work supported by the soil fertility committee, the PCG and the National Plant Food Institute at 1:30. Shelby Newman, T.A.E.S. agronomist at Lubbock, will discuss balancing fertilization and irrigation at 1:45 p.m.

"Three Tons of Grain Sorghum Per Acre?" is the question for consideration at 2:15 p.m. by Dr. Tom Longnecker, director of the High Plains Research Foundation near Plainview.

Agronomists Bill Hatchett and Harvey Walker of the T.A.E.S. in Lubbock will discuss "Boosting Profit on Cotton with Fertilizer" at 3 p.m. Capping the program will be a talk by Dr. Clark Harvey, Texas Tech agronomist, on "Indications of Approaching Soil Needs."

Following the last speech, there will be business meeting of the South Plains Soil Fertility Committee.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: Recreation Editors

--- ARDMORE, Okla., Feb. -- Large expanses of near-urban land should be spared from the developers bulldozer, some 250 park and recreation leaders were told here Thursday (Feb. 4).

Speaking at the Southwest Park and Recreation Institute being held at Lake Murray State Park and conducted by Texas Tech's horticulture and park management department, John Hewett of Silver Spring, Md., called for establishment of more regional parks throughout the nation.

Hewett, who is parks director of the Maryland National Capitol Park and Planning Commission, said, "Change in our nation's growth has forced a reappraisal of our park program. It has led to the decision that large expanses of our land should be spared from the developers bulldozer and maintained as regional parks."

Only in this way can "we hope to salvage some measure of natural beauty that preceded the dizzy pace of urbanization, and at the same time provide for future park and recreation needs," he declared.

The training institute is sponsored by the American Institute of Park Executives and directed by Prof. Elo Urbanovsky, Tech horticulture and park management head.

Three factors -- the U.S. population "explosion", increased mobility, and urbanization -- have placed a serious strain on the national recreation facilities, Dr. Garrett G. Eppley of Indiana University said.

"The impact of rapidly expanding leisure time is creating a tremendous demand for increased park and recreation facilities," he said. "Highly qualified personnel are in demand to motivate the positive use of leisure time."

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --Ralph L. Sellmeyer, a former Kansas weekly newspaper editor, has been named assistant professor of journalism ~~at~~ Texas Tech.

Prof. W. E. Garets, Tech journalism department head, announced that Sellmeyer will teach reporting, photojournalism and advertising courses. He succeeds Dr. David Bowers who has been appointed executive editor of the Chester, Pa., Times.

Sellmeyer was editor of the Baldwin, Kans., Ledger for two and a half years before joining the Texas Tech journalism faculty.

A native of Osawatomie, Kans., Sellmeyer served three years in the Navy during World War II. He earned a Bachelor of Journalism degree at the University of Missouri in 1949 and a M.A. degree in educational administration at the University of Kansas City in 1950.

After serving another active duty tour with the Navy during the Korean War, Sellmeyer was a reporter for the Independence, Kans., Daily Reporter and later a feature writer for the Daily Drover's Telegram in Kansas City, Mo.

He is married to the former Mildred Dahlston of Kansas City, Mo. They have three daughters, Melissa, 9, Susan, 5, and Sherri, 1.

###

LUBBOCK, ---Three good sports from Texas Tech's physical education department for women shed their coats in a cold north wind Friday (Feb. 5) and poured cement in the first column of a new \$270,000 women's gymnasium.

Officially making a dream of 35 years come true for Tech coeds were Janelle Cormack of Amarillo, Nancy Greer of Sweetwater, and Irma Galindo of Lubbock. All represented the Major-Minor Club for women in physical education.

Ever since 1925, when Tech opened with women's PE classes conducted in a third-floor room of the Ad building Tech students and officials have planned and hoped for a special women's gym like most major colleges and universities have.

From 1927 until 1957, women and men alternated in using a "temporary" gym better known as "the Barn". When the new Tech gymnasium and swimming pool was opened in 1958, the old gym built to warehouse standards was given over completely to women.

Sometime in the next academic year, Tech coeds will move into more than 24,000 square feet of modern facilities for a variety of sports and social activities.

The new gym for women is located adjacent and immediately southwest of the women's dormitories. Main unit inside the structure will be a large play area with markings for a basketball court, 6 badminton courts or three volleyball courts.

The room also can be used for Tech dances. Temporary bleachers seating 180 can be move in for special programs.

Underneath is a basement area large enough for indoor archery and golf practice.

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FEATURE EDITORS

American males feel a little uneasy on Valentine's Day this leap year!

However, sources in the Texas Tech library say that male freedom has been in jeopardy on Feb. 14 of any year as early as the seventeenth century.

Throughout history there have been legends that a young girl would marry the first bachelor she met on Valentine's Day. The young ladies wasted no time in trying to identify their lover.

For example a girl who wanted to aid fate a bit, might visit the village graveyard at midnight on Valentine's Eve. There the boy friend would appear, especially if she ran about the church 12 times while a certain chant was sung.

Another custom found in England aided the maiden to gain an advance peek at her future mate in a dream. However, she must sleep on bay leaves sprinkled with rose water and slipped under her pillow.

Young ladies of the Roman times, had no advance notice of their "valentine" or sweetheart for the year. Names of the young people were placed in a receptacle and then the Roman lad would draw for his valentine.

---Merium Jackson

~~###~~

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

For use before March 1.
FOR PRE-EASTER EDITIONS

Cock fights and cock throws used to characterize the Tuesday before Ash Wednesday. They originated from the traditional belief that the crowing bird associated with Peter's denial was a cock-- thus all cocks must be punished.

Texas Tech library sources show that supersitition also has it that cocks are punishable because they once betrayed the Saxons at a time when the Danes had invaded Britain. The Saxons had resolved to murder their oppressors on Shrove Tuesday morning. However, the early crowing of the cock woke the Danes and gave them advance warning of the plan.

#####

--Merium Jackson

Wednesday, March 2, will mark the 124th anniversary of the Texas declaration of independence.

On that day in 1836, a convention meeting at Washington-on-the-Brazos adopted a constitution, according to Texas Tech library sources. David G. Burnet was named provisional governor and Sam Houston was again chosen as commander-in-chief of the Army.

This took place while the battle of the Alamo was being fought.

###

--Jennice Marks

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

For use before March 1.

FOR PRE-EASTER EDITIONS

Shrove of "Pancake" Tuesday -- the last day before the beginning of Lent on Ash Wednesday -- originated in the pre-Reformation times when villagers were called to confession by the church bell.

Sources of the Texas Tech library reveal that the bell which once called parishioners to be "shriven" for their sins has now become the signal for making pancakes, in England.

Since no meat was eaten during Lent, it was customary from early times, to use up all the fat for pancake making. So the Pancake race through the streets of Olney, England and the Pancake Toss of the Westminster school can be found in English traditions as early as the seventeenth century.

#####

One of the best known Shrove Tuesday customs, the Pancake race which originated in Olney, England, has now spread to Liberal, Kansas. Kansas housewives compete with the women in Olney for a silver skillet trophy. At the sound of the "pancake bell" the housewives in both countries prepare to race the 415 yard course carrying a hot pancake in a skillet.

Contestants must "flip the fritter" three times during the race and attend a short church service following the contest. According to an old custom all the pancakes surviving the race should go to the bell-ringers for their Shrove Tuesday feast, Texas Tech library sources reveal.

---Merium Jackson

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- Dr. Lawrence Cranberg of Los Alamos (N.M.) Scientific Laboratory will be a visiting lecturer at Texas Tech Feb. 18-19.

Dr. Cranberg is well known professionally for his work in nuclear physics, particularly neutron spectroscopy and high voltage breakdown in a vacuum.

He was technical advisor to the U.S. delegation at the Conference on Peaceful Uses of Atomic Energy, held at Geneva, Switzerland, in 1955. He is a member of the Nuclear Cross-Section Advisory Group for the Atomic Energy Commission and is the author of articles in Physical Review, Review of Scientific Instruments and Journal of Applied Physics.

Dr. Henry Thomas, Tech physics department head, said Dr. Cranberg will meet with a graduate seminar at 5 p.m. Feb. 18 in the Science Building.

The visiting physicist will address a joint meeting of Sigma Pi Sigma, physics society, and the American Institute of Physics Club at 7:30 p.m. on that date in the Science Building.

Students and graduate physicists on the South Plains are invited to attend these sessions, Dr. Thomas said.

Dr. Cranberg will also meet with students, faculty and Tech officials. Meetings with the faculty will include discussions of research problems.

Dr. Cranberg will visit Tech under the auspices of the American Institute of Physics and the American Assn. of Physics Teachers as part of a nationwide program to stimulate interest in that science. This program is supported by the National Science Foundation.

Dr. Cranberg has a B.S. degree from City College of New York,

Texas Technological College
Adrian Vaughan, Director

SPECIAL TO SAN ANGELO STANDARD TIMES

LUBBOCK, ~~--Texas Tech has launched livestock feeding~~
experiments aimed at helping Texas ranchers double their annual
income from cattle.

"We're going to hit what we're aiming at, too," Dr. Ralph M.
"Bull" Durham, Tech's vigorous new animal husbandry department
head, predicts.

"It's a matter of finding the most economical system of cattle
feeding utilizing plains grown feeds," Dr. Durham said.

"Why, Iowa's annual beef cattle income is twice that of Texas,"
he declared, "and half the gross is from cattle purchased from Texas."

To help Texas ranchers reap that added income in their own
pockets, Tech is conducting feeding experiments with 250 head of
cattle to determine which rations are most effective and which are
most economical.

Feeds under consideration include milo, silage, cottonseed and
cottonseed meal.

One group of cattle is receiving dry feed with different levels
of roughage and concentrate. Another group is receiving silage
feed with different levels of cottonseed and cottonseed meal mixed in.

"We're seeking ways to cut feeding costs rather than increase
beef production," Durham emphasized. "We think this will reveal
the best ways for ranchers to feed out their own cattle on their
own land."

Results of the experiments will be announced at Tech's annual
Feeders Day here April 25.

#####

Texas Tech's speech department will host a high school speech meet on Saturday, Feb. 6. Nineteen schools in the West Texas area are scheduled to participate in the seven events to be held.

Approximately 150 students will be entered in junior declamation, senior declamation, poetry reading, extemporaneous speaking, original oratory, debate, and one-act play.

Two experimental discussion groups will be featured at this year's meet. The groups composed of one member from each debate team will consider the problem, "What should be the role of government in regulating organized labor?" The 40-minute discussions will be followed by a 10-minute critical evaluation.

Confirmation of registration will begin at 8 a.m. and the first event, the one-act plays, will begin at 9 a.m.

At 10 a.m. contests will begin in all the individual events and the experimental groups will begin the discussion sessions. The first round of debate will start at 11 a.m. and the last round will end at 4:40 p.m.

Jerry Rollins Powell, director of speech activities for the state Interscholastic League in Austin, will speak at the luncheon to be held in the Student Union ballroom at 12:15 p.m. Presentation of individual events awards will be made at the luncheon.

Awards will be presented to the winning debate teams and play entries at 5 p.m.

Interscholastic League rules and provisions will be followed with few exceptions. The regularly scheduled regional Interscholastic League meet will be held at Texas Tech in April.

"A Balanced Curriculum in Grades 1-12" will be discussed today
(Wednesday) at a meeting of the West Texas School Study Council in the Texas Tech Union building from 10:30 a.m. to 4:30 p.m.

Approximately 60 superintendents, principals, curriculum directors, teachers and Tech faculty members will hear a panel discussion on the problems and trends in the 18 schools in the Council.

Panel members are Dr. Jess Hudson, curriculum director of the Tulsa public schools; Dr. Ralph Schilling, superintendent of the Littlefield public schools; Tommy Thompson, superintendent of the Kermit public schools; J.B. Youngblood, Underwood Elementary School principal at Andrews; and Virgil Keyes, high school principal at Seminole. Panel director is Dr. Joe Tidrow, curriculum director of the Andrews public schools.

Dr. Hudson will serve as consultant to the group, and will present some of the trends in balancing school programs throughout the country. He will discuss these trends in the light of increasing demands currently being made on schools.

Dr. Berlie J. Fallon, Tech associate professor of education and executive secretary of the Council, made arrangements for the meeting.

For the past 18 months, the Council has directed study in the areas of science and mathematics programs, programs for gifted children, grouping of students according to ability, special education programs for handicapped students, graduation requirements and pupil guidance.

Schools belonging to the Council include Andrews, Hereford, Plainview, Littlefield, Levelland, Hale Center, Abernathy, Slaton, Morton, Lamesa, Denver City, Seminole, Big Spring, Kermit, Monahans, Snyder, Brownfield, and Petersburg.

**Texas Technological College
Adrian Vaughan, Director**

ATTN: SCIENCE EDITORS

~~LUBBOCK, Jan. --Undergraduate science students from 16 junior and senior colleges throughout West Texas will begin registration at Texas Tech today (Wednesday) for a Collegiate Science Research Conference.~~

An estimated 80 students are expected for the two-day meeting that will begin at 8 a.m. Thursday and continue through Friday, Dr. Joe Adamcik, chairman of the Tech conference said. Registration will be held from 8 to 10 p.m. tonight in Chemistry 101 on campus.

The conference is sponsored by the Texas Academy of Science and supported by the National Science Foundation.

"Purpose of the conference is to encourage outstanding undergraduate science students to consider advanced study," Adamcik said. The students will view senior and graduate research facilities in physics, chemistry, biology and geology.

They will visit laboratories related to their major science interest and discuss various aspects of current research in major natural science fields.

Junior and senior colleges sending students and faculty include: Abilene Christian College, Amarillo College, Cisco Junior College, Frank Phillips Junior College, Howard Payne College, Howard County Junior College, Hardin-Simmons University, Lubbock Christian College, McMurray College, Midwestern University, Odessa Junior College, Sul Ross State College, South Plains Junior College, Texas Western College, West Texas State College, and Wayland Baptist College.

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Department of Public Health
Texas Technological College
Adrian Vaughan, Director

Attn: Farm Editors

LUBBOCK, ~~---Rapid cooling of milk can lessen any rancidity,~~
research at Texas Tech proves.

Under laboratory conditions, rapid cooling results in a lower degree of free fatty acid, Asst. Prof. Ed Jarman of Tech reports

Eighteen samples of milk from eight cows were used in the tests at Tech. Time for collecting the samples was approximately 12 minutes

Fat, taste and odor tests were made immediately after collection and compositing. Each sample then was divided into three groups.

Group one was tested immediately for free fatty acid. A brine bath cooled the second group to 38 degrees fahrenheit in three minutes. The third was cooled to 38 degrees fahrenheit in approximately 70 minutes.

All samples were re-examined two hours after cooling and again 12 hours after cooling.

Rapid cooling resulted in less rancidity (free fatty acid) in 14 of the 18 samples two hours after cooling, Jarman said. When tested 12 hours after cooling, all samples of the rapidly-cooled milk showed less rancidity than slower-cooled samples.

In another test, the scientists at Tech quick froze 18 samples to 10 degrees fahrenheit. The samples were aged 12 hours at 38 degrees and warmed slowly to 55 degrees.

In 11 samples, the free fatty acid was increased at one hour and 12 hour determinations after the treating of samples, Jarman reported. However, in no sample did the acid sufficiently increase to detect rancidity by taste or odor.

Working with Jarman in the experiments were K.L. Neeley, J.J. Willingham and A.V. Moore. ###

Clarence F. Simes, a former student at Texas Tech, has been appointed district superintendent for Service Pipeline Co.'s Lovington, N.M. district.

Simes is a former staff engineer at Lubbock, headquarters for the company's West Texas division. He specialized in engineering and mathematics in his studies at Tech.

Active in Lubbock community activities, Simes is a past president of the Will Rogers Toastmasters Club, member of the MacKenzie Masonic Lodge, and a deacon in the Christian Church.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Wayne James of Lubbock has been named new executive secretary of the Texas Tech Ex-Students Assn., effective April 1.

James has been on the association staff since his graduation from Tech in 1957, serving first as field secretary and later as assistant executive secretary.

He succeeds L.C. Walker, who has resigned effective at his convenience in March.

###

MAINTENANCE SCHEDULE FOR

NAME OF STORY

LOCALS
DAILIES
WIRE SERVICE
WEEKLY
REGIONALS
NT'S
BOARD
TELEDS

EXPLANATION (SPECIALS, PHOTOS, ETC.)

MANSELL FUND

✓

TECH (CHEMICALS) CONFERENCE

✓

PARK DEVELOPMENT

✓

Shelburne

✓

Shelburne

✓

Shelburne

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FARM EDITORS

Pub. Insp. Editor & Pub. Insp. of Kansas City
Pub. Insp. Editor & Pub. Insp. of Kansas City
Pub. Insp. Editor & Pub. Insp. of Kansas City

City of Kansas City

City of Kansas City

City of Kansas City

City of Kansas City

MAILING SCHEDULE FOR February 8-13, 1960

NAME OF STORY	LOCALS DAILIES WIRE SERVICE WEEKLY REGIONALS HT'S							EXPLANATION (SPECIALS, PHOTOS, ETC.)
New Classroom & Office Bldg.	X						X 2	w/3 pix 5x7 to AJ w/pix 5x7 to KCBD-TV, w/pix 5x7 to KDUBTV
Grain Drying & Storage Conf. (Participants)							16	
Army ROTC Inspection	X						X	w/pix 4x5 to AJ
Pictures								w/2 pix 4x5 to Family Counseling Service Capitol Bldg., Midland, Texas
Pictures--Fashion show								w/9 pix 4x5 to Carolyn Mimms The Texan
Farm Chemicals Conf.	X						X 4	two each
Dr. Mina Lamb	X						X	
AF ROTC--Generals visit	X						X 4	w/2 pix 5x7 to KCBD-TV w/2 pix 5x7 to KDUB-TV, w/pix 5x7 to AJ
Picture								w/2 pix 2x3 to Miss Ester Sorenson w pix 4x5 Box 768 Plainview, Texas
AF ROTC awards	X						X	
"Sing, Whirl, & Play"--Speech	X				X		X	
Picture--Dr. Earl Koos								2/2x3 to Henry A. Daum, Publ. Chairman Minneapolis Welfare Conf., Minn. 14, Minn
Home Ec. State Meeting, Tinsley & Kinchen	X						X	
Chemical Conference	X	X			X		X	
Grain Drying & Storage Conf.		X						
urs No. & Residence of Tech Students	X	X	2				X	
Farm Chemicals Conf.	X	X			X			Attn: Farm Editors
i. Dallas men in Grain Conf.								Dallas TIMES HERALD Attn: Business Ed.
Baylor reunion reunion	X						X	
Speech play	X						15	
AF ROTC	X						1	w/ 5x7 pix to AJ, KCBD

MAILING SCHEDULE FOR C

[illegible]

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

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The shining, \$1 million edifice will have 145 classes meeting there each Monday, Wednesday and Friday and 110 classes within its walls on the Tuesday, Thursday and Saturday schedule.

An open house will be held sometime this semester so all Tech students and the public may inspect the institution's newest facility, Dr. R.C. Goodwin, Tech acting president, announced.

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All new office and classroom furniture will make the four-story building more comfortable. The office furniture will be shipped from Jasper, Ind., on Feb. 20 and should be in place around March 1, D.M. McElroy, assistant comptroller, said.

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Arthur Vaughan, Director

ATTN: FARM EDITORS

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Registration began Tuesday evening and will continue at 8 to 9 a.m. today (Wednesday) in the Tech Union building where all sessions will be held.

Dr. R.C. Goodwin, Tech acting president, will welcome conference participants at 9 a.m. and Dr. Gerald Thomas, Tech agriculture dean, will set the theme of the conference with his talk on "Chemicals, Cotton and Grain Sorghum" at 9:15 a.m.

Aerial application of chemicals and research in that field will be topics for William Lewis of Houston and L.P. Nolen of Mercedes at 9:30 and 10 a.m. sessions.

Dr. Harry Lane of Lubbock will discuss balancing growth and fruiting of cotton at 10:45 a.m. "The Place of Chemicals in the Production of Quality Meat" will be the topic for Dr. Ralph Durham, Tech animal husbandry department head, at 11:45 a.m.

Afternoon sessions will cover chemicals in producing quality pastures, growth regulators and chemicals in grain sorghum rations for poultry, by Dr. Wayne McCully and Dr. Wayne Hall of College Station and Dr. E.L. Stephenson of the University of Arkansas.

Dealer problems in handling farm chemicals will be told by S.C. Smith of Uvalde at 3 p.m. Ollie Liner, Hale County agricultural agent from Plainview will discuss weed control at 3:30 p.m. Wednesday.

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Texas Technological College
Adrian Vaughan, Director

~~Dr. Mina Lamb, head of the department of food and nutrition~~
at Texas Tech, will serve as chairman of the State Nutrition Council meeting in Fort Worth on Thursday (Feb. 11).

The theme of the one-day seminar, to be held in the Hotel Texas, will be Youths' Nutritional Problems.

Dr. Lamb will hold the morning seminar on the conference subject. "Food As We See It" will be the afternoon topic. Three workshops will conclude the conference program.

Workshop topics are : "Improving the Individual's Nutrition," "Improving the Family's Nutrition" and "Improving the Community's Nutrition."

The State Nutrition Council was organized as a part of the World War II effort. It serves the interest of nutrition through interprofessional participation.

Attending the meeting will be representatives of the fields of food, medicine, education, extension, public health, restaurant service, nutrition and home economics. Parents will also attend.

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Maj. Gen. Lewis S. Griffing, deputy commanding general of the
4th U.S. Army.

Speaking before a group of Distinguished Military Students
the general said, "Judging from the product I've seen here, you
have a good ROTC program at Texas Tech."

During his quick inspection tour of military science facilities
on campus, the general also conferred with Dr. R.C. Goodwin, acting
president of Tech, at a luncheon with other ROTC and college officials.

"The commissioned officer product of ROTC here is a credit
to Texas Tech," Gen. Griffing said.

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Krauss, WAC officer procurement officer, who conferred with Dean
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-more-

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These will go to: Virgil A. Buck; Clarence J. Bryant, junior business administration major from Morton; James R. Langley, Mount Pleasant sophomore majoring in business administration, and William G. McLaughlin, freshman arts and science major from Marble Falls.

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Adrian Vaughan, Director

ATTN: MUSIC/ENTERTAINMENT EDITOR

~~LUBBOCK, Feb.~~ -- All Texas Tech musical organizations will join forces to "Sing, Whirl 'N' Play" in a new musical show to be presented Feb. 27-28 in the Lubbock Municipal Auditorium.

"Sing, Whirl 'N' Play" will feature music for all tastes -- from popular and jazz styles to symphonic and operatic numbers, said Dr. Gene Hemmle, Tech music department head.

The Tech music department production was inspired by the popular success of "Like You Like It," the 1958 show which previewed and financed the Tech Choir's appearance on the Ed Sullivan television show in New York. This production will benefit Tech's Scholarship Fund for talented young musicians.

Act One will be devoted to religious music. Production numbers will be built around spiritual and primitive worship.

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The show will be climaxed by jazz and popular styles presented by the stage band, choral groups, soloists and dancers.

"Sing, Whirl 'N' Play" will feature special musical arrangements by Ronald LoPresti who joined the Tech faculty this year. Dance numbers will be produced by the women's physical education department's Modern Dance Club, directed by instructor Jane Perry.

Directors of the entire production are Dr. Hemmle and Charles Lawrie, music department instructor who produced "Like You Like It."

Ticket sales will begin next week through the music department office

###

Adrian Vaughan, Director

ATTN: Farm Editors

LUBBOCK, Feb. --Diversified use of chemicals in farming and ranching is being stressed at the seventh annual Agricultural Chemicals Conference that opened Wednesday at Texas Tech.

All aspects of chemicals being used in West Texas agriculture will be examined by the time the meeting ends Thursday (Feb. 11). More than 180 farm chemicals dealers and representatives are registered.

Emphasis this year is on farm chemicals and quality production, said Dr. Gerald W. Thomas, Texas Tech agriculture dean, who said that more than 100 chemicals are used in cotton and grain sorghum production in this area alone.

Problems of aerial applicators were outlined by William A. Lewis, president of the Texas Aerial applicators Assn., and L. P. Nolen, vice-president of the National Aviation Trades Assn., Tuesday morning.

Lewis called for the chemical industry to consider flight applicators more when compounding and packaging their product while Nolen described aeronautical research that will make the airplane do more farm jobs efficiently.

Dr. Harry C. Lane, Texas Agricultural Experiment Station plant physiologist here, pointed out that cotton's response to fertilizer will be greater if the rate of the plant's development is considered throughout the season. "The odds of obtaining good response are increased when an attempt to balance growth is made," he said.

Speaking on use of chemicals in meat production, Dr. Ralph Durham, Tech animal husbandry department head, described the important relationship between the cost of chemical additives and the product being produced. -more-

"The general pattern of all of the additives is to increase feed consumption and speed up weight accumulation," he stated. "We did not say 'increased efficiency and rate of gain' for generally, the improved increment of efficiency is far below that of the improved rate of weight accumulation."

Chemicals can only be used profitably if they return a profit increment over cost, he emphasized. What "we need are more efficiency stimulants and less growth stimulants."

Quality pastures may be produced along with better brush control through the effective use of chemicals, Dr. Wayne McCully, T.A.E.S. range management specialist, said at the first Wednesday afternoon session. "Spraying to control unwanted plants releases water and nutrients for grass production," he reminded, adding that "the possibility of controlling with chemicals the kind of plants growing on a range can lead to a number of new management concepts."

"Growth regulators are not magic compounds, but are only vital links in a complicated biological system," Dr. Wayne Hall of Texas A&M told the conference. "The whole spectrum of stimulators and suppressants is now in its scientific infancy. We must continue to think of the overall biological response to plant regulators and not in terms of the regulator alone."

A comparison of chemicals used in balancing grain sorghum rations for poultry was given by Dr. E.L. Stephenson of the University of Arkansas. "At higher protein levels, milo was a satisfactory replacement for corn," he said. "When the diets contained 16 per cent of protein, a statistically significant response was obtained when lysine was added to the milo diets. No significant response was measured when lysine was added to corn."

Capping the Wednesday sessions was a talk by S.C. Smith of Ugalde who discussed dealer problems in handling agricultural chemicals.

###

~~LUBBOCK, -- A Texas Tech student goes to classes with~~
others from 223 of Texas' 254 counties, 43 other states, and 25
foreign countries, fall semester figures from the Registrar's
Office indicate.

Lubbock and Lubbock County, of course, provide the largest
number of students -- 2,427 from the city and 2,545 from within
the county.

Next biggest contributor is Dallas County, with 509,
followed by Tarrant County (Fort Worth), 337; Harris County
(Houston), 306; and Potter County (Amarillo), 208.

Other counties represented by larger numbers include:
Midland, 166; Taylor (Abilene), 130; Hockley (Levelland), 119;
and Wichita (Wichita Falls), 103.

In all, 632 Texas towns and cities are represented.

Neighboring New Mexico supplies the most out-of-state
students -- 156. Oklahoma (22) edges California (19) for second
place. Next in line are Colorado (15), and Illinois (12).
Able to "brag" about their home states now are two from Hawaii
and one from Alaska.

The foreign student population is spread rather evenly,
with Mexico and Paraguay each supplying seven. Five are from
Iran, four from Saudi Arabia, and three each from Germany and
the British West Indies. Foreign students total 52.

According to fall figures, Tech was the second-largest
state-supported college or university in Texas, with an 8,866
enrollment.

###

Adrian Vaughan, Director

ATTN: Farm Editors

~~LUBBOCK, Feb. -- Cotton diseases, herbicides and nitrate~~
fertilizers held the spot light Thursday morning at the seventh annual Agricultural Chemicals Conference at Texas Tech.

More than 230 distributors, dealers and chemical representatives from eight states attended the two-day conference sponsored by Tech, the West Texas and Lubbock Chambers of Commerce, and the Texas Agricultural Extension Service.

The final sessions Thursday afternoon were sponsored by the South Plains Soil Fertility Committee.

Dr. L.S. Bird, T.A.E.S. plant pathologist, told the dealers that control of cotton diseases must be planned in advance -- even two or three years before a field is planted -- control is to be really effective. "A control program must be diligently followed and continued from year to year if farm chemicals are to help increase quality production," he said.

"Herbicides have become an essential tool in American agriculture." R.H Beatty of Amchem Products Inc., declared, "It is ironic that because of misuse by a very few farmers, an entire crop or segment of our agriculture stands to lose important chemicals through fear of hysterical publicity.

"Herbicide labels must be approved by government agencies, before a product is sold. We as dealers must insist that the user follow directions on these government-approved labels. And, we must also insist that there will be responsible government officials who will support farmers using chemicals properly and penalize only the careless users," he said.

(MORE)

He described new developments in the herbicide field that will benefit cotton and grain sorghum production.

Soil tests for nitrate are necessary in the South if nitrogen is to be applied accurately, W.B. Andrews of Mississippi Chemical Corp. said. General recommendations were once useful, but the needs of intensive farming today require that nitrogen needs be related to the crop producing capacity of the land.

Dr. Tom C. Longnecker, director of the High Plains Research Foundation near Plainview, predicted "a whole batch" of new grain sorghum hybrids will replace in a few years those used in this area.

"We've come a long way in the past six or eight years with better hybrids, better use of irrigation water and more information on amounts of fertilizers to use.

"Where 6,000 pounds per acre yield of grain sorghum was once considered unusual on irrigated land, 8,000 pounds per acre was the yield in Hale County and fertilizer tests at the Foundation produced 7,500 pounds to the acre," he noted.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Attn: Business Editor

Three Dallas men employed in engineering, science and management will participate in the Grain Drying and Storage Conference on the Texas Tech campus March 2-3.

DeWayne Adair, entomologist for the American Cyanamid Co., will serve on a panel on fumigation. F.W. Rabe, engineer with F.W. Rabe & Co., is a member of a Fans-Controls-Instruments panel.

Lee R. Wanner, chief of the storage management division of the Commodity Stabilization Service will discuss "Warehouseman's Relations with Commodity Credit Corporation in 1960" in a speech on March 3.

###

TEXAS TECHNOLOGICAL College
Adrian Vaughan, Director

Baylor University exes, students and friends will gather for a reunion immediately after the Texas Tech-Baylor basketball game tonight (Feb. 13).

The reunion will be in the home of Dr. and Mrs. O. W. English, 2809 19th, Bob Moody, president of the Baylor Ex-Students Assn. chapter here, announced.

The Red Raiders and the Bears meet in a Southwest Conference contest at 8 p.m. today, in Lubbock Coliseum.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --- Texas Tech air science students who have attained outstanding achievement during the fall semester have been honored at Air Force ROTC ceremonies on campus.

Cadets receiving recognition include:

BRECKENRIDGE -- Robert N. Alexander, junior engineering major. He received the Chicago Tribune Silver Award for the outstanding third year AFROTC student.

FORT WORTH -- Max M. Gillaspy (1825 Western), freshman engineering major. He received the Chicago Tribune Gold Medal for the outstanding first year AFROTC student.

Robert B. Palmer (3421 Forest Park Blvd.), sophomore arts and sciences major. He received the Douglas Aircraft Award as the outstanding second year AFROTC student.

LAREDO -- Waldemar K. Kerbel, junior business administration major. He was presented letters of commendation on the basis of his leadership in producing the winning AFROTC Homecoming float.

LUBBOCK -- Virgil A. Buck, senior agriculture major. He received a commendation award for his performance as Cadet Wing Comptroller and a ribbon presented to students showing the greatest participation in corps activities for the fall semester.

John K. Cobb, senior engineering major. He received the Professor of Air Science Award for excellent leadership of the Cadet Corps.

MARBLE FALLS -- William G. McLaughlin, freshman arts and sciences major. He received a ribbon presented to students showing the greatest participation in corps activities for the fall semester.

-MORE-

LUBBOCK, Feb. ---Texas Tech engineers looking for that "pot of gold" upon graduation, may find some of it along the road to their diploma in the next few weeks.

More than \$9,000 is available in the form of scholarships for Tech junior and senior engineering majors.

Applications for the scholarships will be accepted through March 10, in the office of the Dean of Engineering. Selection is made on the basis of outstanding scholastic achievement, high moral character and financial need.

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Being offered to students in any branch of engineering is the \$500 scholarship of the South Plains Chapter of American Petroleum Institute and the Western Electric Co. award of \$400.

Electrical, mechanical and petroleum engineers are eligible for \$250 to be given by the Rowan Drilling Co., and the \$500 Schlumberger Collegiate Award.

Juniors majoring in civil, mechanical or chemical engineering may apply for the Cabot Co. award of \$400 plus tuition.

Two electrical engineers of junior or senior standing may receive \$750 each in the Southwestern Public Service Co. award and the Texas Electric Service Co. scholarship.

The Southwestern Public Service Co. will also offer \$750 to a junior and senior in mechanical engineering. A senior mechanical engineer will receive \$750 from the Hughes Tool Co., and the R.C. Baker Foundation award of \$750 will go to a junior or senior in this field.

The largest scholarship in the group will be offered to junior petroleum engineers. It is the Gardner-Denver Co. award of \$1,000.

(MORE)

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Department of Public Information
Texas Technological College
~~Adrian Vaughan, Director~~

LUBBOCK, Feb. -- Texas' only chapter of Phi Epsilon Kappa, national men's physical education fraternity, will be installed at Texas Tech on Feb. 21.

Beta Gamma chapter of Phi Epsilon Kappa will replace the Tech Sports Club, and is made up of students majoring or minoring in men's physical education, health recreation. The Sports Club was founded in 1951 by Dr. R.W. Kireillis, head of the men's physical education department at Tech.

Members of the Sports Club made application for the fourth chapter in the South in October 1959. The Tech club was accepted and will be installed by a team from Northwestern State College, Natchitoches, La.

Members of Phi Epsilon Kappa on the Tech faculty and staff include: Dr. Kireillis, Edsel Buchanan, intramural director, and and Dr. John Cobb, assistant professor and sponsor of the Sports Club.

Charter members will be:

ABERNATHY -- Jimmie Pope, senior physical education major.
BRADY -- Winson Boeker, senior secretarial education major.
BRYSON -- Billy Anderson, junior petroleum engineering major.
CACTUS -- Charles Flanagan, senior physical education major.
COLORADO CITY -- Charles Black, junior physical education major.
COLEMAN -- Marvin Field, senior physical education major.
EMMAUS, PENN. -- Ralph Noll, junior physical education major.
GIRVIN -- Sheldon J. Marsh, junior secretarial education major.
GRUVER -- Alvin Mitts, senior physical education major.
LEVELLAND -- Roy Martin, senior petroleum engineering major.
(More)

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

LUBBOCK, Feb. -- Grants totaling \$82,500 have been awarded by the Robert A. Welch Foundation to Texas Tech scientists for basic research in organic, inorganic and physical chemistry.

The Foundation awarded three of six new grants and one of 24 research grant renewals to Texas Tech chemists. A total of \$746,500 for chemical research has been approved by the Foundation board this year.

Dr. Henry F. Shine, Tech associate professor of chemistry, was awarded a \$22,500 renewal grant. Grants of \$20,000 each were made to Dr. W.W. Wendlandt, associate professor of chemistry, Dr. Arthur L. Draper, and Dr. Joe Adamcik, both assistant professors of chemistry.

Dr. Shine will conduct an 18-month investigation of the oxidation of hydrocarbons by oxygen. "There are general theories that interpret how oxidation takes place. However, some of these theories need to be readjusted in the light of what basic research has revealed in recent years," he said.

Shine holds degrees from London University. He joined the Tech faculty in 1954 and has conducted other research studies under Welch Foundation grants.

"Thermal rearrangement of aquo-ammine chromium complexes" is the two-year study to be conducted by Dr. W.W. Wendlandt, an inorganic chemist.

"This project is specifically concerned with the effect of heat on a class of compounds known as the aquo-ammine chromium III complexes," he said. "When a reaction called thermol rearrangement takes place in a certain compound, we want to study the energy evolved or absorbed and to determine how rapidly this happens at certain temperatures and why."

(MORE)

Wendlandt holds a Ph.D. degree from State University of Iowa and is directing several other basic research studies in inorganic chemistry.

Dr. Arthur L. Draper will conduct a two-year study of the "adsorption of polar compounds on plate-like materials". As a physical chemist, he is interested in learning more why vapor goes on and off solid surfaces in different manners.

"The phenomenon of adsorption in vapor-solid systems--the concentration of vapor on the surface of a solid--is incompletely understood," Draper said. "No complete theory of the phenomenon has been developed. Results of the investigation should help in establishing the theoretical basis of adsorption."

He explained that adsorption controls all types of surfaces on clays, carbons and catalysts. Draper holds degrees from Rice Institute and joined the Tech chemistry faculty in 1959. He has done research for the Atomic Energy Commission and private industry for nine years.

Basic research to develop a synthetic tool for preparing certain types of compounds will be conducted by Dr. Joe Adamcik, an organic chemist at Tech.

He will study a chemical reaction known as cyanoethylation which has proved highly useful in preparing certain types of compounds. This reaction is important in preparing intermediates for pharmaceuticals and other chemical products.

Adamcik joined the Tech chemistry faculty in 1957 after earning bachelor and master degrees at the University of Texas and a Ph D. degree at the University of Illinois.

All of the Tech chemists will employ and direct graduate students in conducting their research.

The new Welch grants and grant renewals this year brought to more than \$4,300,000 the foundation expenditures for chemical research in Texas.

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AP 2/13/60

LUBBOCK, --Texas Tech's Board of Directors awarded ~~contracts~~ ^{a new library} for two new buildings and approved final plans for ~~another~~ in a meeting here Saturday.

~~\$360,000~~
Construction of a ~~new~~ Agricultural Plant Science Building ^{\$299,000} was awarded to W.B. Abbott and Co. of Lubbock. ~~The~~ A ~~new~~ Mechanical Engineering Laboratories ~~Building~~ ^{structure} will be built by Hammock Brothers Construction Co. of Lubbock.

The Board approved ~~final plans for a new library building and~~ preliminary plans for a Meat Laboratories Building.

~~xxxxxxxxxxxxxxxx~~ The Board named Dr. W.M. Pearce, history department head, as associate-dean of the Graduate School, effective July 16.

It also approved the conferring of an honorary LL.D. degree on L.F. McCollum of Houston, Continental Oil Co. president, at May 30 commencement exercises. McCollum will be commencement speaker.

THE
STAFF

MAILING SCHEDULE FOR 2

Feb-8-13

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EXPLANATION / SPECIALS, PHOTOS, ETC.)

TOTALS

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will participate in the sixth annual
Grain Drying and Storage Conference slated March 2-3 at Texas Tech.

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Major aspects of drying and storing grain will be covered
in the two-day meeting that is being sponsored by the Texas Tech
agricultural engineering department.

####

Department of Public Information
Texas Technological College
Adrina Vaughan, Director

Army ROTC cadets at Texas Tech are polishing brass and shoes today (Tuesday) in preparation for an inspection by the 4th U.S. Army's deputy commanding general.

Maj. Gen. Lewis S. Griffing will arrive from Fort Sam Houston at Lubbock Municipal Airport this morning to begin his conference with Tech, Army reserve and National Guard officials.

Col. James B. Carvey, professor of military science at Tech, said the general will inspect an honor guard of Army ROTC cadre and the drill team at 10:15 a.m.

Gen. Griffing will visit with Distinguished Military Students, Lubbock National Guard and Army Reserve unit officers at 10:30 a.m. and then inspect Tech military science facilities.

Between 11 a.m. and noon he will visit two ROTC classes and later have lunch with Dr. R. C. Goodwin, Tech acting president and academic deans.

The general is scheduled to leave Lubbock at 1:30 p.m. from the airport.

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The second set will be a show-case presentation of serious music featuring the Tech Madrigal Singers, Symphony Orchestra, Opera Theater and members of the Tech Band in music for brass choir.

The show will be climaxed by jazz and popular styles presented by the stage band, choral groups, soloists and dancers.

"Sing, Whirl 'N' Play" will feature special musical arrangements by Ronald LoPresti who joined the Tech faculty this year. Dance numbers will be produced by the women's physical education department's Modern Dance Club, directed by instructor Jane Perry.

Directors of the entire production are Dr. Hemmle and Charles Lawrie, music department instructor who produced "Like You Like It."

Ticket sales will begin next week through the music department office.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: Farm Editors

LUBBOCK, Feb. --Diversified use of chemicals in farming and ranching is being stressed at the seventh annual Agricultural Chemicals Conference that opened Wednesday at Texas Tech.

All aspects of chemicals being used in West Texas agriculture will be examined by the time the meeting ends Thursday (Feb. 11). More than 150 farm chemicals dealers and representatives are registered.

Emphasis this year is on farm chemicals and quality production, said Dr. Gerald W. Thomas, Texas Tech agriculture dean, who said that more than 100 chemicals are used in cotton and grain sorghum production in this area alone.

Problems of aerial applicators were outlined by William A. Lewis, president of the Texas Aerial applicators Assn., and L. P. Nolen, vice-president of the National Aviation Trades Assn., Tuesday morning.

Lewis called for the chemical industry to consider flight applicators more when compounding and packaging their product while Nolen described aeronautical research that will make the airplane do more farm jobs efficiently.

Dr. Harry C. Lane, Texas Agricultural Experiment Station plant physiologist here, pointed out that cotton's response to fertilizer will be greater if the rate of the plant's development is considered throughout the season. "The odds of obtaining good response are increased when an attempt to balance growth is made," he said.

Speaking on use of chemicals in meat production, Dr. Ralph Durham, Tech animal husbandry department head, described the important relationship between the cost of chemical additives and the product being produced.

-more-

--Tech chemicals conference

"The general pattern of all of the additives is to increase feed consumption and speed up weight accumulation," he stated. "We did not say 'increased efficiency and rate of gain' for generally, the improved increment of efficiency is far below that of the improved rate of weight accumulation."

Chemicals can only be used profitably if they return a profit increment over cost, he emphasized. What "we need are more efficiency stimulants and less growth stimulants."

Quality pastures may be produced along with better brush control through the effective use of chemicals, Dr. Wayne McCully, T.A.E.S. range management specialist, said at the first Wednesday afternoon session. "Spraying to control unwanted plants releases water and nutrients for grass production," he reminded, adding that "the possibility of controlling with chemicals the kind of plants growing on a range can lead to a number of new management concepts."

"Growth regulators are not magic compounds, but are only vital links in a complicated biological system," Dr. Wayne Hall of Texas A&M told the conference. "The whole spectrum of stimulators and suppressants is now in its scientific infancy. We must continue to think of the overall biological response to plant regulators and not in terms of the regulator alone."

A comparasion of chemicals used in balancing grain sorghum rations for poultry was given by Dr. E.L. Stephenson of the University of Arkansas. "At higher protein levels, milo was a satisfactory replacement for corn," he said. "When the diets contained 16 per cent of protein, a statistically significant response was obtained when lysine was added to the milo diets. No significant response was measured when lysine was added to corn."

Capping the Wednesday sessions was a talk by S.C. Smith of Uvalde who discussed dealer problems in handling agricultural chemicals.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FARM EDITORS

LUBBOCK, Feb. -- Major aspects of drying and storing grain will be covered in a conference slated at Texas Tech March 2-3.

Tech's agricultural engineering department is sponsoring the sixth annual Grain Drying and Storage Conference to be held in the Tech Union building.

Subjects ranging from construction problems to insects will be covered by 14 principal speakers and six panel discussion groups during the two-day meeting.

Storage facility failures, concrete in storage construction, the USDA's views on grain drying, wet grain, insects and marketing grain abroad are some of the topics to be discussed March 2. Three panel groups will cover grain drying, grain aeration and grain storage structures in the afternoon session.

Speeches on domestic and foreign merchandising of grain, electronic controls and fire prevention in storage facilities will be covered in the March 3 morning session.

Subjects for the three afternoon panel discussions include fans-controls-instruments, fumigation and merchandising.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, -- A Texas Tech student goes to classes with others from 223 of Texas' 254 counties, 43 other states, and 25 foreign countries, fall semester figures from the Registrar's Office indicate.

Lubbock and Lubbock County, of course, provide the largest number of students -- 2,427 from the city and 2,545 from within the county.

Next biggest contributor is Dallas County, with 509, followed by Tarrant County (Fort Worth), 337; Harris County (Houston), 306; and Potter County (Amarillo), 208.

Other counties represented by larger numbers include: Midland, 166; Taylor (Abilene), 130; Hockley (Levelland), 119; and Wichita (Wichita Falls), 103.

In all, 632 Texas towns and cities are represented.

Neighboring New Mexico supplies the most out-of-state students -- 156. Oklahoma (22) edges California (19) for second place. Next in line are Colorado (15), and Illinois (12). Able to "brag" about their home states now are two from Hawaii and one from Alaska.

The foreign student population is spread rather evenly, with Mexico and Paraguay each supplying seven. Five are from Iran, four from Saudi Arabia, and three each from Germany and the British West Indies. Foreign students total 52.

According to fall figures, Tech was the second-largest state-supported college or university in Texas, with an 8,866 enrollment.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: Farm Editors

LUBBOCK, Feb. -- Cotton diseases, herbicides and nitrate fertilizers held the spot light Thursday morning at the seventh annual Agricultural Chemicals Conference at Texas Tech.

More than 230 distributors, dealers and chemical representatives from eight states attended the two-day conference sponsored by Tech, the West Texas and Lubbock Chambers of Commerce, and the Texas Agricultural Extension Service.

The final sessions Thursday afternoon were sponsored by the South Plains Soil Fertility Committee.

Dr. L.S. Bird, T.A.E.S. plant pathologist, told the dealers that control of cotton diseases must be planned in advance -- even two or three years before a field is planted -- control is to be really effective. "A control program must be diligently followed and continued from year to year if farm chemicals are to help increase quality production," he said.

"Herbicides have become an essential tool in American agriculture." R.H Beatty of Amchem Products Inc., declared, "It is ironic that because of misuse by a very few farmers, an entire crop or segment of our agriculture stand to lose important chemicals through fear of hysterical publicity.

"Herbicide labels must be approved by government agencies before a product is sold. We as dealers must insist that the user follow directions on these government-approved labels. And, we must also insist that there will be responsible government officials who will support farmers using chemicals properly and penalize only the careless users," he said.

(MORE)

He described new developments in the herbicide field that will benefit cotton and grain sorghum production.

Soil tests for nitrate are necessary in the South if nitrogen is to be applied accurately, W.B. Andrews of Mississippi Chemical Corp. said. General recommendations were once useful, but the needs of intensive farming today require that nitrogen needs be related to the crop producing capacity of the land.

Dr. Tom C. Longnecker, director of the High Plains Research Foundation near Plainview, predicted "a whole batch" of new grain sorghum hybrids will replace in a few years those used in this area.

"We've come a long way in the past six or eight years with better hybrids, better use of irrigation water and more information on amounts of fertilizers to use.

"Where 6,000 pounds per acre yield of grain sorghum was once considered unusual on irrigated land, 8,000 pounds per acre was the yield in Hale County and fertilizer tests at the Foundation produced 7,500 pounds to the acre," he noted.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Baylor University exes, students and friends will gather for a reunion immediately after the Texas Tech-Baylor basketball game tonight (Feb. 13).

The reunion will be in the home of Dr. and Mrs. O. W. English, 2809 19th, Bob Moody, president of the Baylor Ex-Students Assn. chapter here, announced.

The Red Raiders and the Bears meet in a Southwest Conference contest at 8 p.m. today, in Lubbock Coliseum.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- Cast members have been selected for the Texas Tech speech department's production, "A View From the Bridge," by Arthur Miller.

The two-act play will be presented March 14-19 in the Speech Auditorium at Tech. It will be directed by Ronald Schulz, associate professor of speech. Miss Shirley Cadle, speech department staff member, will be the technical director.

The story is a tragedy about a colony of Italian-American longshoremen on the Brooklyn waterfront.

Members of the cast include:

AUSTIN -- Carolyn Calvert (1202 Crestwood Rd.), sophomore speech major.

CLEBURNE -- Theresa Denman, senior math major.

COLEMAN -- Marvin Field, senior physical education major.

DALLAS -- Bill Leonard (3420 Knox), junior speech major.

GRAHAM -- Ronald Butler, sophomore advertising art and design major.

HOUSTON -- Tom Worstell (3416 Sunset), junior industrial engineering major.

LAWTON, OKLA. -- Richard Malone, sophomore electrical engineering major.

LUBBOCK -- Barry Corbin, freshman speech major.

Bob Nelms, sophomore speech major.

R.D. Rowland, freshman liberal arts major.

MIDLAND -- Bill Thornton (Box 3233), freshman math major.

PERRYTON -- Bill Shannon, freshman speech major.

Jo Fields, sophomore speech major.

POST -- Lee Sullenger, senior English major.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- Texas Tech air science students who have attained outstanding achievement during the fall semester have been honored at Air Force ROTC ceremonies on campus.

The 11 cadets receiving recognition include:

BRECKENRIDGE -- Robert N. Alexander, junior engineering major. He received the Chicago Tribune Silver Award for the outstanding third year AFROTC student.

FORT WORTH -- Max M Gillaspay (1825 Western), freshman engineering major. He received the Chicago Tribune Gold Medal for the outstanding first year AFROTC student. Robert B. Palmer (3421 Forest Park Blvd.), sophomore arts and sciences major. He received the Douglas Aircraft Award as the outstanding second year AFROTC student.

LAREDO -- Waldemar K. Kerbel, junior business administration major. He was presented letters of commendation on the basis of his leadership in producing the winning AFROTC Homecoming float.

LUBBOCK -- Virgil A. Buck, senior agriculture major. He received a commendation award for his performance as Cadet Wing Comptroller and a ribbon presented to students showing the greatest participation in corps activities for the fall semester. John K. Cobb, senior engineering major. He received the Professor of Air Science Award for excellent leadership of the Cadet Corps.

MARBLE FALLS -- William G. McLaughlin, freshman arts and sciences major. He received a ribbon presented to students showing the greatest participation in corps activities for the fall semester.

MORTON -- Clarence J. Bryant, junior business administration major. He received a ribbon presented to students showing the greatest participation in corps activities for the fall semester.

MOUNT PLEASANT -- James R. Langley, sophomore business administration major. He received a ribbon presented to students showing the greatest participation in corps activities for the fall semester.

WACO -- Vano T. Wilson (3321 No. 27th), senior engineering major. He received a commendation award for his service as Assistant Wing Personnel Officer.

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Dr. Willa Vaughn Tinsley and Mrs. Lila Kinchen of the Texas Tech home economics school will attend and participate in the Texas Home Economics Assn. state meeting to be held in Fort Worth Feb. 12-13.

Dr. Tinsley, dean of home economics, will serve as panel moderator on the colleges and university sectional meeting program entitled "The College Background Home Economists Should Have to Prepare Them for Work in Research, Business and Industry, Homemaking, Extension Service, and Teaching."

The sectional meetings are scheduled during the breakfast session Saturday, Feb. 13.

Mrs. Kinchen, associate professor of clothing and textiles, will take part in a meeting of the state committee on home economics communication.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. ---Texas Tech engineers looking for that "pot of gold" upon graduation, may find some of it along the road to their diploma in the next few weeks.

More than \$9,000 is available in the form of scholarships for Tech junior and senior engineering majors.

Applications for the scholarships will be accepted through March 10, in the office of the Dean of Engineering. Selection is made on the basis of outstanding scholastic achievement, high moral character and financial need.

Being offered to students in any branch of engineering is the \$500 scholarship of the South Plains Chapter of American Petroleum Institute and the Western Electric Co. award of \$400.

Electrical, mechanical and petroleum engineers are eligible for \$250 to be given by the Rowan Drilling Co., and the \$500 Schlumberger Collegiate Award.

Juniors majoring in civil, mechanical or chemical engineering may apply for the Cabot Co. award of \$400 plus tuition.

Two electrical engineers of junior or senior standing may receive \$750 each in the Southwestern Public Service Co. award and the Texas Electric Service Co. scholarship.

The Southwestern Public Service Co. will also offer \$750 to a junior and senior in mechanical engineering. A senior mechanical engineer will receive \$750 from the Hughes Tool Co., and the R.C. Baker Foundation award of \$750 will go to a junior or senior in this field.

The largest scholarship in the group will be offered to junior petroleum engineers. It is the Gardner-Denver Co. award of \$1,000.

(MORE)

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Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- Texas' only chapter of Phi Epsilon Kappa, national men's physical education fraternity, will be installed at Texas Tech on Feb. 21.

Beta Gamma chapter of Phi Epsilon Kappa will replace the Tech Sports Club, and is made up of students majoring or minoring in men's physical education, health recreation. The Sports Club was founded in 1951 by Dr. R.W. Kireillis, head of the men's physical education department at Tech.

Members of the Sports Club made application for the fourth chapter in the South in October 1959. The Tech club was accepted and will be installed by a team from Northwestern State College, Natchitoches, La.

Members of Phi Epsilon Kappa on the Tech faculty and staff include: Dr. Kireillis, Edsel Buchanan, intramural director, and and Dr. John Cobb, assistant professor and sponsor of the Sports Club.

Charter members will be:

ABERNATHY -- Jimmie Pope, senior physical education major.
BRADY -- Winson Boeker, senior secretarial education major.
BRYSON -- Billy Anderson, junior petroleum engineering major.
CACTUS -- Charles Flanagan, senior physical education major.
COLORADO CITY -- Charles Black, junior physical education major.
COLEMAN -- Marvin Field, senior physical education major.
EMMAUS, PENN. -- Ralph Noll, junior physical education major.
GIRVIN -- Sheldon J. Marsh, junior secretarial education major.
GRUVER -- Alvin Mitts, senior physical education major.
LEVELLAND -- Roy Martin, senior petroleum engineering major.
(More)

2 - Chi Epsilon Kappa

LUBBOCK -- Ralph Atkinson, senior physical education major.

Howard Carlyle, sophomore education major.

Preston Davis, junior liberal arts major.

Bill Lewis, senior physical education major.

James McDonald, senior agronomy major.

Lonnie Phillips, senior physical education major.

POST -- Gary Welch, junior accounting major.

ODESSA -- Zan Miles, senior education major.

ROMA -- Thomas Chapman, junior physical education major.

WESLACO -- William Low, junior education major.

WICHITA FALLS -- Jack Giles, senior physical education major.

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Department of Public ~~Information~~
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WICHITA FALLS -- Jack Giles, senior physical education major.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Attn: Ag Editors

LUBBOCK, --Koy Neeley of Texas Tech will leave Feb. 28 for Verona, Italy, where he will spend several weeks in study and discussions with agricultural leaders about possible markets for grain sorghums.

Leave to attend the 62nd International Fair of Agriculture at Verona has been granted to Neeley by the Tech Board of Directors, Agriculture Dean Gerald Thomas announced.

"This will provide a fine opportunity for Neeley to gather information which will be of help in his teaching and research at Tech," Dr. Thomas pointed out.

Neeley, an associate professor of animal husbandry, will be a feed grain consultant at the fair. He also will participate in university seminars, agricultural education programs, farm youth rallies, and Ministry of Agriculture conferences in several areas of Italy, including Sardinia.

Neeley will discuss the uses of grain sorghum in improved livestock feeding programs. This will be part of the foreign market development work being administered by the Grain Sorghum Producers Assn. in cooperation with the Foreign Agricultural Service.

Expenses of Neeley's trip will be paid by the two agencies.

Increased livestock and poultry production brought about through technical assistance is expected to lead to a greater demand for world feed grains and increase the movement of grain sorghum into export channels, Frank Moore of Plainview, association president, pointed out.

Neeley has had experience in ranching and in agricultural teaching and research. Most of his research has been in animal nutrition and physiology.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: AG EDITORS

LUBBOCK, Feb. -- Retirement of Ray C. Mowery, Texas Tech professor of animal husbandry for 34 years, was announced today (Saturday) at a meeting of the Tech Board of Directors.

He will retire at the end of the academic year.

Mowery came to Tech Sept. 1, 1926. He served as head of the animal husbandry department from 1950-54. He previously taught vocational agriculture in Lubbock High School.

A native of Dongola, Ill., Mowery received his bachelor's degree at Texas A & M in 1921 and his master's degree from Iowa State College in 1926.

The professor is best known for the many livestock shows that he has judged, and for the sheep feeding experiments carried out under his direction.

He has been president and vice-president of the National Block and Bridle Club and holds memberships in the American Society of Animal Production and the Texas Agricultural Workers.

He was president of the Lubbock Kiwanis Club in 1936; Masonic past commander in 1927; First Presbyterian Sunday School superintendent for nine years; deacon for seven years and an elder for two years. He was secretary of the Milam Home organization from 1941-1945.

Professor Mowery served as a first lieutenant in the National Guard from 1928 to 1930.

He has two children, Susan and Ray Clifford, Jr.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

IUBBOCK, Feb. -- Grants totaling \$82,500 have been awarded by the Robert A. Welch Foundation to Texas Tech scientists for basic research in organic, inorganic and physical chemistry.

The Foundation awarded three of six new grants and one of 24 research grant renewals to Texas Tech chemists. A total of \$746,500 for chemical research has been approved by the Foundation board this year.

Dr. Henry F. Shine, Tech associate professor of chemistry, was awarded a \$22,500 renewal grant. Grants of \$20,000 each were made to Dr. W.W. Wendlandt, associate professor of chemistry, Dr. Arthur L. Draper, and Dr. Joe Adamcik, both assistant professors of chemistry.

Dr. Shine will conduct an 18-month investigation of the oxidation of hydrocarbons by oxygen. "There are general theories that interpret how oxidation takes place. However, some of these theories need to be readjusted in the light of what basic research has revealed in recent years," he said.

Shine holds degrees from London University. He joined the Tech faculty in 1954 and has conducted other research studies under Welch Foundation grants.

"Thermal rearrangement of aquo-ammine chromium complexes" is the two-year study to be conducted by Dr. W.W. Wendlandt, an inorganic chemist.

"This project is specifically concerned with the effect of heat on a class of compounds known as the aquo-ammine chromium III complexes," he said. "When a reaction called thermal rearrangement takes place in a certain compound, we want to study the energy evolved or absorbed and to determine how rapidly this happens at certain temperatures and why."

(MORE)

2--Tech chemists...

Wendlandt holds a Ph.D. degree from State University of Iowa and is directing several other basic research studies in inorganic chemistry.

Dr. Arthur L. Draper will conduct a two-year study of the "adsorption of polar compounds on plate-like materials". As a physical chemist, he is interested in learning more why vapor goes on and off solid surfaces in different manners.

"The phenomenon of adsorption in vapor-solid systems--the concentration of vapor on the surface of a solid--is incompletely understood," Draper said. "No complete theory of the phenomenon has been developed. Results of the investigation should help in establishing the theoretical basis of adsorption."

He explained that adsorption controls all types of surfaces on clays, carbons and catalysts. Draper holds degrees from Rice Institute and joined the Tech chemistry faculty in 1959. He has done research for the Atomic Energy Commission and private industry for nine years.

Basic research to develop a synthetic tool for preparing certain types of compounds will be conducted by Dr. Joe Adamcik, an organic chemist at Tech.

He will study a chemical reaction known as cyanoethylation which has proved highly useful in preparing certain types of compounds. This reaction is important in preparing intermediates for pharmaceutical and other chemical products.

Adamcik joined the Tech chemistry faculty in 1957 after earning bachelor and master degrees at the University of Texas and a Ph D. degree at the University of Illinois.

All of the Tech chemists will employ and direct graduate students in conducting their research.

The new Welch grants and grant renewals this year brought to more than \$4,300,000 the foundation expenditures for chemical research in Texas.

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LOCALS DAILIES WIRE SERVICE WEEKLY REGIONALS HT'S BOARD TELORS

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LOCALS DAILIES WIRE SERVICE WEEKLY REGIONAL HT'S BOARD TELORS

DAY	NAME OF STORY	LD	DAN	W	SEA	WL	REC	H	B	TE	EXPLANATION (SPECIALS, PHOTOS, ETC.)
Fri.	Best Dressed Girl Contest	X							X		
Sat. 20	Indust. Engineering Open House	X							X		
	Driver Education	X									Except AJ
	Dr. Henry J. Shine										Iowa State College, Calif. Institute of Technology, U.S. Rubber Co., Robert A. Welsh Foundation
TOTALS		14	2	2			3	16H	13	10	
								5S			

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Sami Hadawi, Arab land expert, will compare Lubbock land and political policies with those in Palestine and Jordan in a lecture Tuesday (Feb. 23) at Texas Tech.

Hadawi, chief of the Public Liaison Section of Arab State delegations office in New York, will visit classes in soil fertility and international politics. He will be the guest of the World Travelers Committee at a luncheon in the Tech Union.

A lecture on "Arab World and Communism" by Hadawi, is also set in the Tech Union Workroom at 7:30 p.m. on Feb. 23.

A Christian Arab, born in Jeruseleum, Hadawi, was in charge of land taxation in the department of Land Settlement in the Palestine government for 11 years. Then, in 1948, with the withdrawal of the British mandate, he left his native country and went into the service of the Jordan government.

In Jordan, Hadawi served as director of land tax assessment, and chief of inland land revenue in the department of finance ministry.

In 1952, he resigned this post to become a land specialist with the United Nations. Later, in 1953, Hadawi helped to establish the Palestine-Arab Refugee office in New York.

Hadawi, who is presently advisor in world land problems, as well as chief of the public liaison section for the Arab State delegations office, is married, father of two, and lives in New York City.

The land expert has traveled extensively through the Middle East and Europe. He speaks English, Arabic and German and is an experienced public speaker.

The World Traveler's Committee is responsible for Hadawi's

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: EDUCATION EDITORS

LUBBOCK, Feb. -- Texas Tech has formally been accepted for membership in the American Assn. of Colleges for Teacher Education, Dr. R.C. Goodwin, Tech acting-president, announced today (Tuesday).

The education association is the highest accrediting organization in the nation for institutions that prepare teachers for public, private, elementary, secondary schools and colleges.

"Attainment of membership in the American Assn. of Colleges for Teacher Education marks another milestone of accomplishments in the progress of Texas Tech," Dr. Goodwin said. "This recognition is evidence that the college has determined that one of its major functions is the preparation of teachers and that it must continue to fulfill its responsibilities in this most important area of education."

Tech was accepted into membership at the accrediting organization's annual meeting Saturday (Feb. 13) in Chicago. Notice of membership was received today from Edward C. Pomeroy, executive secretary of the AACTE.

"Texas Tech's membership in the American Assn. of Colleges for Teacher Education holds great promise for the continued improvement of the total program in teacher education at the institution," Dr. Morris S. Wallace, head of Tech's department of education and philosophy, stated.

"The institution now becomes an active member in the nation-wide research program carried on by the association and links the college with extensive research currently be carried out by the National Committee on Professional Standards in Teacher Education in some 300 institutions," he said.

Tech is also a member of the Southern Assn. of Secondary Schools and Colleges.

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: WOMEN'S EDITOR

LUBBOCK, Feb. --A Paris-trained hat designer will conduct classes in millinery at Texas Tech Feb. 29-March 3.

Sessions will be held daily from 9 to 11:30 a.m., 1:30 to 4 p.m. and 7 to 9:30 p.m.

Lectures and instruction by Mrs. Ann Holloway of San Antonio will feature Spring hats in straws, flowers, and fabrics.

A registration fee of \$15 is required for 10 hours of instruction. Three hats will be made.

Reservations may be made before Feb. 29 by writing to School of Millinery, Home Economics Building, Texas Tech, or by calling Extension 314, Texas Tech.

The millinery school is sponsored by the Home Economics Club and Phi Upsilon Omicron, honorary society for Home Economics.

Mrs. Holloway has organized a home study correspondence course in hat designing which is used throughout the world, studied interior decorating, and studied dress designing.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --William M. Slagle, professor of chemistry at Texas Tech for 34 years, will retire with emeritus rank May 31.

For Slagle, it will be the end of a teaching career which began in 1909 at Center, Texas, where he taught sixth grade subjects and advanced arithmetic in the high school.

The genial professor joined the Texas Tech faculty in 1926 after teaching science at Lubbock High School.

In one respect, Prof. Slagle has spent more time on the Tech campus than any other person. After returning from France in 1919, the young Army veteran farmed a quarter section that extended from what is now Broadway north to 4th Street and extended west almost to Flint Avenue. Tech's stadium, Engineering School and Lubbock Municipal Auditorium-Coliseum occupy the major portion of the area where he once grew cotton and grain sorghum.

Slagle is a native of Kilgore. After graduation from Troup High School, he taught two years at Center before enrolling at Southwestern University in 1912. He received his B.A. degree there in 1916 after breaking his college career with a one-year (1914-15) teaching stint in Lubbock. He served as superintendent of Plains High School in 1917-18 before joining the field artillery. After the war he taught in Lubbock schools, leaving the system one year to teach at Ennis in 1921-22.

As a Lubbock teacher, he joined with local businessmen in a fund raising campaign to get \$150,000 to purchase the present site of Texas Tech which was donated to the state.

Slagle was given leave from his Tech teaching duties in 1927-28 to earn a M.A. degree in chemistry at the University of Texas. While there he was a research assistant for the American Petroleum Institute.

(MORE)

2--Slagle Retirement

Mr. and Mrs. Slagle, who live at 2403 29th, are parents of two sons. William C., of LaJolla, Calif., holds a M.S. degree in electrical engineering from Tech, and James R., of Phillips, has a M.S. degree in chemistry from Tech.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

A two-percent annual dividend after eight months of operation has been declared by the Texas Tech Federal Credit Union, Burl M. Abel, credit union president, has announced.

Tech faculty and staff members purchased \$10,216.14 in shares during the first eight months, he added.

"Based on our proposed budget, we conservatively estimate there will be \$20,000 in shares by December 1960," Abel said. "On the basis of this budget, the expected dividend will be approximately 4½ percent for 1960."

The Tech finance professor was recently re-elected president. Other officers of the credit union are Marshall Nagle, vice-president; Raymond Green, treasurer-manager; Mrs. Virginia Snelling, secretary-assistant treasurer; Dr. J. Wayland Bennett; Dr. Billy C. Lockhart and Prof. Ray Flege.

Members of the credit committee include Hubert L. Burgess, loan officer, Charles F. Libby, Dr. J.J. Willingham, Dr. Berlie J. Fallon and Tom Stenis.

"All shareholders who have had interest credited to a partial share in the credit union," Abel said, "should now complete a full share immediately so their dividend will start earning interest. All pass books should be brought in so they may be posted."

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --Dr. Joe Adamcik, assistant professor of chemistry at Texas Tech, has been awarded a \$20,000 grant by the Robert A. Welch Foundation of Houston for basic research in organic chemistry.

He will do research in developing a synthetic tool for preparing certain types of compounds. Dr. Adamcik will study a chemical reaction known as cyanoethylation which has proved highly useful in preparing certain types of compounds. This reaction is important in preparing intermediates for pharmaceutical and other chemical products.

The organic chemist came to Tech in 1957. He received bachelor and master's degrees in chemistry at the University of Texas and his Ph.D. degree from the University of Illinois in 1958.

He is the son of Mr. and Mrs. J. J. Adamcik, Rt. 7, Austin.

####

LUBBOCK, Feb. -- Dr. W.W. Wendlandt, associate professor of chemistry at Texas Tech, has been awarded a grant of \$20,000 by the Robert A. Welch Foundation of Houston for research in inorganic chemistry.

His two-year study will be conducted on "thermal rearrangement of aquo-ammine chromium complexes."

"This project is specifically concerned with the effect of heat on a class of compounds known as the aquo-ammine chromium III complexes," he said.

"When a reaction called thermal rearrangement takes place in a certain compound, we want to study the energy evolved or absorbed and to determine how rapidly this happens at certain temperatures and why. We will also study these thermal rearrangements with other similar chromium complexes."

A native of La Crosse, Wis., he came to Tech in 1954 as assistant professor of chemistry. He received a bachelor of science degree in chemistry from Wisconsin State College, a M.S. degree in inorganic chemistry and a Ph.D. degree in analytical and inorganic chemistry from the State University of Iowa.

Dr. Wendlandt was a resident research associate for the Argonne National Laboratory. He is the director of National Cooperative Undergraduate research project and an abstractor for chemical abstracts.

Sixty-five scientific papers on various topics have been published by the Tech chemistry professor.

He is a member of the American Chemical Society, Iowa Academy of Science, Texas Academy of Science, American Assn. for the Advancement of Science, Central Assn. of Science and Mathematics Teachers, Sigma Xi, Phi Lambda Upsilon, and Alpha Chi Sigma.

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- Dr. Arthur L. Draper, assistant professor of chemistry at Texas Tech has been awarded a \$20,000 grant by the Robert A. Welch Foundation of Houston for research in physical chemistry.

He will conduct a two-year study of the "adsorption of polar compounds on plate-like materials." His research will reveal more about why vapor goes on and off solid surfaces in different manners.

"The phenomenon of adsorption in vapor-solid systems -- the concentration of vapor on the surface of a solid -- is incompletely understood," Dr. Draper said. "No complete theory of the phenomenon has been developed. Results of the investigation should help in establishing the theoretical basis of adsorption."

He explained that adsorption controls all types of surfaces on clays, carbons and catalysts.

A native of Dallas, he joined the Tech chemistry faculty in 1959. He received his bachelor of science, master of science and Ph.D. degrees from Rice Institute.

He has done research for the Atomic Energy Commission and private industry for nine years.

He is a member of the American Chemical Society; division of colloid chemistry, ACS; division of petroleum chemistry, ACS; local sections, ACS; Phi Lambda Upsilon; and Sigma Xi, national research society.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK -- Dedication of the O.A. St. Clair Seminar Room will highlight an open house of the Texas Tech industrial engineering department, scheduled 2-5 p.m. Sunday.

The department has been relocated in the remodeled Textile Engineering building.

St. Clair, who retired last July, was first head of the department. Under his leadership, it received accreditation from the Engineering Council for Professional Development and became one of the leading industrial engineering departments in the Southwest.

A portrait of St. Clair will be hung at 3 p.m. in the seminar room named in his honor. Prof. C.C. Perryman will preside at the ceremony.

The open house will provide a special opportunity for South Plains people to see Tech's first closed-circuit TV system, which is used to teach engineering drawing, Dr. Richard Dudek, industrial engineering department head, said.

The student chapter of the American Institute of Industrial Engineering will be host for the open house, with members on hand to explain training procedures and answer visitors' questions.

In addition to his many other services for Tech, St. Clair helped establish the AIIE chapter and was its first sponsor.

St. Clair joined the Tech faculty in 1934 after a long career as an engineering executive in industry. He was acting dean of engineering at Tech in 1950. He is expected to be on hand to greet his many friends during the open house Sunday.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Red will be the color of the day on the Texas Tech campus Saturday (Feb. 20).

The occasion is Red Raider Day sponsored by the Saddle Tramps, men's service organization, to boost school spirit.

Techsans are urged to wear red all day and to the Texas University vs. Tech basketball game that night at 8 p.m. in the Lubbock Municipal Coliseum.

The Saddle Tramp Spirit Bell No. 1 will be presented in pre-game ceremonies. The bell is a gift of Santa Fe Railroad and comes from a Santa Fe locomotive.

Spirit Bell No. 1 will go to all athletic events and will be displayed wherever the Red Raider is.

Lubbock Fire Department donated Spirit Bell No. 2 which was on Lubbock's first fire truck. This bell will go to all basketball games.

This is the second year for Red Raider Day. Saddle Tramps hope that it will become an annual event.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. -- The university and the national laboratory are the natural habitats for the basic research which this nation is seeking earnestly to develop, Dr. Lawrence Cranberg declared at Texas Tech Thursday (Feb. 18).

"I think its just as natural that industry is the best habitat for applied research," said Dr. Cranberg, a scientist at Los Alamos (N.M.) National Laboratory.

After all, industry must live in an atmosphere of competition and striving for profit, he explained. The creative processes needed to uncover basic scientific facts thrive best in an atmosphere of learning, without pressures to produce something immediately or else--.

The visiting physicist pointed out that most free-world advances in basic science have come from such environments in Europe. The U.S. has been largely dependent upon them.

There is a double benefit in university research, Dr. Cranberg declared. The researcher is stimulated by working with young minds eager to learn and know. The students are stimulated by observation of projects delving into the unknown and by getting to work on those projects themselves.

Thursday Dr. Cranberg met with a graduate seminar, spoke at a joint meeting of Sigma Pi Sigma physics society and the American Institute of Physics Club, and conferred with Tech faculty members and officials. Other conferences are scheduled Friday at Tech.

His visit is under auspices of the American Institute of Physics and the American Assn. of Physics Teachers.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech's Placement Office will set aside special hours for working with students who are seeking part-time jobs, Director Jean Jenkins has announced.

Beginning Monday, students interested in such work are asked to come by the office in West Engineering 252 between 10 a.m. and 12 noon or between 1 and 3 p.m.

"Observing the special hours will allow us to concentrate on this special part of our work in a way that will save the students' time and provide a more effective service for them and their employers," Mrs. Jenkins said.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --Driver education teachers in South Plains public schools will learn about latest testing devices information at a Driver Education Seminar slated at Texas Tech Feb. 27 from 9 a.m. to 3 p.m.

A proposal for setting up standards for curriculum will be discussed at the seminar which will be held in the Men's Gym, room 206, on the Tech campus.

Five schools have been trying out the pilot curriculum proposal since October. The high schools are in Sundown, Lorenzo, Lockney, Plainview and Lubbock.

Harold O. "Bus" Carlton of Washington, D. C., will be the main speaker. He is educational consultant for the American Automobile Assn.

One of the founders of the driver education movement in the U.S., he serves state education and public departments of safety and industry as a consultant and resource person in conducting safety and driver education clinics and short courses.

Driver education instructors will come from West Texas State College and from within an area encompassing Plainview, Snyder, Seminole, Seagraves, and Muleshoe.

"This is an excellent opportunity for the driver education instructors of this area to avail themselves of the knowledge and techniques of an authority of the caliber of "Bus" Carlton. He is a dynamic leader in the field of safety and driver education. It will be well worth the time of each driver education instructor to attend this meeting," said Dr. John Cobb, Tech associate professor of health physical education and recreation, and seminar coordinator.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK -- A rousing locomotive bell that once gave a quarter-mile warning to folks and livestock to skedaddle off the track will be presented to the Texas Tech Saddle Tramps, campus service organization, tonight (Feb. 20).

Making the presentation in ceremonies just before the Tech-University of Texas basketball game, scheduled at 8 p.m. in Lubbock Coliseum, will be David Tipple on behalf of the Atchison, Topeka and Santa Fe Railway.

Accepting will be Mike Montgomery, Saddle Tramps president.

The gift, to be known as Saddle Tramps Spirit Bell No. 1, will be used primarily at football games.

"It's too loud for much ringing indoors," Montgomery commented. "We may use it some at basketball games, but not much. The bell is mounted on a two-wheel trailer so we can take it to as many out-of-town football games as possible."

The Tramps already have a fire-engine bell donated by the Lubbock Fire Department for use at basketball games.

Montgomery said the locomotive bell will be used to rouse Tech backers as the team approaches the gridiron goal line and after a score or outstanding play of any kind is made.

Nine local businesses contributed materials and other help in building the special trailer for the bell. They include a tire company, wheel company, plumbing concern, sheet metal works, service station, trailer company, paint company, pump service concern, and art reproduction company.

Montgomery said special credit for making arrangements of the gift and the trailer on which it is mounted should go to Marshall Winegar, a Tech staff member.

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FARM EDITORS

LUBBOCK, Feb. -- Problems in grain drying and storage will be discussed at the sixth annual Grain Drying and Storage Conference March 2-3 at Texas Tech.

All sessions will be held in the Tech Union building.

Topics at the March 2 session will include: failures in grain storage facilities; concrete in the construction of grain storages; holding wet grain; man against insect; and foreign marketing of feed grains in Greece.

The meeting on March 3 will be about domestic merchandising; electronic controls and instrumentation; fire prevention in grain driers and elevators; making a stable and dependable grain industry, and Texas grain and warehousing.

Six seminar sessions will discuss grain drying, grain aeration, grain storage-structure, fans-controls-instruments, fumigation, and merchandising.

Tech's agricultural engineering department is sponsor of the conference.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

LUBBOCK, Feb. ---Basic research about behavior of inorganic materials at high temperatures will be conducted at Texas Tech for the Air Force by Dr. W. W. Wendlandt, associate professor of chemistry.

The Air Force Office of Scientific Research has awarded Wendlandt a \$29,079 grant for a two-year study of inorganic coordinate compounds.

"The Air Force has become extremely interested in the behavior of materials at elevated temperatures," the Tech professor said. "One of the problems that has recently been solved is the space missile nose-cone re-entry into the earth's atmosphere. This was made possible by a fundamental understanding of the thermal or heat stability of various inorganic substances used in fabricating the nose-cone.

"It is the objective of this project to study the thermal properties of a large number of inorganic compounds. These will include complex compounds of cobalt, rhodium, iridium, palladium, indium and thallium," he said.

Wendlandt will use such instruments as a thermobalance and the differential thermal analysis. The thermobalance is one built by the Tech chemist which continuously weighs a compound as it is being heated from room temperature to 2500-degrees F. It is the only one of its type in the world.

"The DTA apparatus will enable us to determine the heat absorbed or evolved as the compound is heated to high temperatures. From the results of these two instruments in our fundamental studies, a great amount of information can be obtained about the thermal properties of inorganic compounds," he commented.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

When Dame Fashion decrees style, few females escape, college coeds in particular.

How does the Texas Tech coed's interpretation of "fashion" compare to that of the experts? Saturday, 16 Tech coeds will find out. The girls will compete for the title "best dressed girl on campus", to be judged by buyers in leading department stores.

The contest is sponsored by Theta Sigma Phi, honorary and professional fraternity for women in journalism. It is to be held in conjunction with Glamour Magazine's 1960 "Ten Best Dressed College Girls in America" contest.

Tech contestants will model three outfits from their own wardrobes and each will discuss her use of a clothes budget, and ready-to-wear clothes versus homesewn ones.

Winner of the campus contest will be entered in the Glamour Magazine selection of the "Ten Best Dressed College Girls" and will have her picture on a special page in the school's annual.

Two weeks in New York in June will be the gift of Glamour to the 10 national winners. They will be honored at luncheons, dinners, and balls, and even get a chance to model in the fashion center of the country.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

A portrait of O.A. St. Clair, former head of Texas Tech's industrial engineering department, will be unveiled at 3 p.m. today (Feb. 21) as part of a department open house.

Visitors will be welcome to inspect the new industrial engineering quarters in the remodeled Textile Engineering building from 2-5 p.m.

Prof. C.C. Perryman will preside at the portrait presentation in the O.A. St. Clair seminar room, which will be dedicated during the ceremony.

Speaking briefly will be Dr. Richard Dudek, industrial engineering department head; Dr. John R. Bradford, engineering dean; and W.H. Butterfield, vice-president for development.

A feature of the open house will be a closed circuit television system used for teaching engineering drawing. It is Tech's first equipment for teaching by TV. Visitors will be able to see themselves and their friends on the monitor.

Host for the occasion will be the student chapter of the American Institute of Industrial Engineering. Members will be on hand to explain training and facilities in that field.

St. Clair was first sponsor for the AIIE chapter and led the IE department in gaining accreditation from the Engineering Council for Professional Development.

He joined the Tech faculty in 1934 after a long career as an engineering executive. He was acting dean of engineering at Tech in 1950. St. Clair retired last July.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --Dr. Henry J. Shine, associate professor of chemistry at Texas Tech, has been awarded a \$22,500 grant for basic research by the Robert A. Welch Foundation of Houston.

He will conduct an 18-month investigation of the oxidation of hydrocarbons by oxygen.

"There are general theories that interpret how oxidation takes place. However, some of these theories need to be readjusted in the light of what basic research has revealed in recent years," he said.

A native of London, England, Dr. Shine came to Tech in 1954 as assistant professor of chemistry. He received his bachelor of science degree and Ph.D. degree from London University.

He has worked as a laboratory assistant for the Boots Pharmaceutical Co. and the Unilever Co. in London. He was a research chemist for the Shell Development Co. of London and United States Rubber Co., Passaic, N. J.

The chemist came to the United States in January, 1948. He was a post-doctoral fellow at Iowa State College and at California Institute of Technology.

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MAILING SCHEDULE FOR 2 February 22-27, 1960

DAY	NAME OF STORY	LOCALS	DAILIES	WIRE SERVICE	WEEKLY	REGIONAL	HT'S	BOARD	TELOPS	EXPLANATION (SPECIALS, PHOTOS, ETC.)
Mon. 22	Pix--Baylor Exes Officers									8x10 to Mrs. Frances Provence, Ed., Baylor Line, Baylor U., Waco, Texas
	Sami Hadawi--schedule	X						X		
	Agribusiness Conference	X						X		Big Spring Herald, KBSR, KTXC Big Spring
	Grade-point averages	X						X		
Tues. 23	Sami Hadawi--speech	X	X					X		
	Newman Club Meeting	X						X		
Wed. 24	Foreign Language Lab. Booths	X	X	X				X	2	w/5x7 to AJ & caption w/4x5 to KDUB & KCBD-TV
	Summer Music Schools	X				X		X		Amarillo, El Paso HP & T, Big Spring H & N, Fritch, Hereford, Pampa, Sweetwater
	Story about Tech by A. Vaughan									w/8x10 & caption to Mrs. Bettye Nichols, Ed. Dept. West Texas Today, Box 1561 Abilene
	Phi Delta Kappa Dinner	X						X		w/mat to AJ of Dr. Cornette
	Pi Epsilon Kappa						18			
Thurs. 25	Elliott--Man of Year in Tex. Ag.	X	X					X		Attn: Farm Editor
	Driver Education Seminar	X						X		
	Nutrition meeting	X						X	2	w/pix to AJ, Telops KCBD, KDUB-TV
Fri. 26	Grain Drying Conf. XXXXXXXXXX									special to KGNC (Cotton John) and Amarillo Globe-Times
Sat. 27	Wallace--Comanches	X						X		Sent to AJ w/pix Fri.
	Grad. research in Chemistry	X						X		Sent to AJ w/pix Fri.
	Barbara Garnett	X								w/5x7 to AJ
	USIA Mrs. Friche	X								w/pix to AJ
	TOTALS	15	4	1		1	18 HT 1 S	13	4	

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

CUTLINE:

SOUTH PLAINS BAYLOR CLUB LEADERS--Directing activities for South Plains exes of Baylor University in 1960 are (left to right) Bob Moody, president; Mrs. Ruth Wilkerson, secretary; and Paul Emory, vice-president, all of Lubbock. Moody said plans for the rest of the year will include a mid-summer reunion at a date to be announced later and a fall reunion Oct. 15, when the Bears meet Texas Tech at Lubbock in a Southwest Conference football game.

###

CUTLINE:

BEAR TALK--More than 60 South Plains exes and friends of Baylor gathered in the home of Dr. and Mrs. O.W. English of Lubbock for a reunion following the basketball game between the Bears and Texas Tech Red Raiders in Lubbock. Among those happily "analyzing" the Bear victory were (left to right) Basketball Coach Bill Henderson, Mrs. Jane Emory, Bob Moody, and Basketeer Carrol Dawson.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech students will hear Sami Hadawi, Arab land expert, discuss "The Arab World and Communism" today (Tuesday) at 7:30 p.m. in the Tech Union Workroom.

Hadawi, who is chief of the Arab States' public liaison section, is being sponsored on campus by the Tech Student Union's World Traveler's committee.

As a land utilization specialist, Hadawi will also observe Texas agricultural practices and compare them with those in Palestine, and Jordan during his visit here.

A full schedule of activities has been slated for the Arab representative today. He will lecture before government and agricultural classes this morning before touring the campus at 11 a.m. After being guest of honor at a World Traveler's luncheon in the Tech Union, he will lecture before an international politics class from 1 to 2:30 p.m.

As a guest of the Lubbock Chamber of Commerce, Hadawi will be taken on a tour of the city from 2:30 to 4:30 p.m.

A Christian Arab, born in Jeruseleum, Hadawi, was in charge of land taxation in the department of Land Settlement in the Palestine government for 11 years. Then, in 1948, with the withdrawal of the British mandate, he left his native country and went into the services of the Jordan government.

In Jordan, Hadawi served as director of land tax assessment, and chief of inland land revenue in the department of finance ministry. In 1952, he resigned this post to become a land specialist with the United Nations. Later, in 1955, Hadawi helped to establish the Palestine-Arab Refugee office in New York.

Hadawi is also advisor in world land problems, for the Arab States delegations office. He is married, father of two, and lives in New York.

The land expert has traveled extensively through the Middle East and Europe. He speaks English, Arabic and German.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

An agribusiness conference will be held today (Feb. 23) at Howard County Junior College in Big Spring, with Dr. Gerald Thomas, Texas Tech agriculture dean, presiding.

In the morning session, government programs and the livestock industry will be discussed by HJohn G. McHaney, Texas A&M extension economist from College Station.

Earl Sargent of Wichita Falls, KWFT farm director, will speak on the importance of public relations and communication in agriculture.

Joe Bell, Colorado City Record publisher, will open the afternoon session with a talk on "The Importance of Agriculture to the Economy of Our Area." A look at the future of farm labor will be taken by Henry LeBlanc of the Texas Employment Commission, Austin. Dooley Dawson, vice-president of the Bank of the Southwest, Houston, will speak on the future of agribusiness in West Texas.

The conference will close with a panel discussion on agribusiness, moderated by Dean Thomas.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Pi Beta Phi, social sorority, led the 21 Greek fraternal groups on the Texas Tech campus in scholarship for the fall semester of 1959, with a 1.74 grade-point average.

Second scholastically was Kappa Alpha Theta sorority with a 1.70 and a 1.63 average put Delta Delta Delta sorority third.

Phi Gamma Delta took first honors in fraternity averages with a 1.37. It was followed by Phi Kappa Psi, 1.34, and Sigma Alpha Epsilon with a 1.32.

The 783 sorority women averaged a 1.53 while a 1.28 average was attained by 727 fraternity men. The all women's average at Tech was a 1.46. The all men's average was 1.11.

Other sororities and their averages are;

Alpha Chi Omega, 1.48; Alpha Phi, 1.43; Delta Gamma, 1.461; Gamma Phi Beta, 1.45; Kappa Kappa Gamma, 1.56; Phi Mu, 1.37; Sigma Kappa, 1.40; Zeta Tau Alpha, 1.463.

Fraternity averages are;

Alpha Tau Omega, 1.20; Delta Tau Delta, 1.21; Kappa Sigma, 1.22; Phi Delta Theta, 1.23; Pi Kappa Alpha, 1.26; Sigma Chi, 1.29; Sigma Nu, 1.25.

The 1,510 students in fraternities and sororities averaged a 1.41, while the undergraduate college average of 8,369 students was a 1.21.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Monsignor Leroy Matthiesen, editor of the West Texas Register, will address more than 150 Roman Catholic college students in Lubbock on Feb. 26-28.

A native Texan, Msgr. Matthiesen, will be the main speaker at the annual Texhoma Province Convention, this year hosted by the Texas Tech Newman Club. He will discuss the various aspects of a Catholic student's life while attending a secular college.

Registration for the convention will begin Friday (Feb. 26) at 2 p.m. in the Lubbock Hotel and a dance is scheduled for 10 p.m. that evening.

Keynote speaker for the meet is the Rev. George Salaway, formerly Newman Club chaplain at St. Elizabeth's Church in Lubbock. He currently is in Odessa. He will address a 9 a.m. general session Saturday morning.

The Bishop of the Dioceses of Amarillo, the Most Rev. John Morkovsky, will celebrate Mass and assist in the installation of province officers Saturday afternoon (Feb. 28).

The day's events will close with a banquet and ball beginning at 7:30 p.m. in the Caprock Hotel.

Sunday morning, delegates will attend Mass, meet for breakfast, and close the convention with the final province executive meeting.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, Feb. --Graduate research in physical chemistry has received a boost at Texas Tech with the installation of a basic X-ray Diffraction Unit.

Dr. Arthur Draper, Tech assistant professor of chemistry, said the new unit cost approximately \$6,000 and will be used by graduate students doing research in physical chemistry.

"Such a basic X-ray Diffraction Unit will identify uniquely any solid material in powder form. It will be used to study clays, catalysts and other metal oxides in an effort to find out how changes in structure can change chemical properties," Draper said.

These changes are recorded by the unit when X-rays are diffracted through a camera and exposed on film.

Graduate students working with the diffraction unit this semester include Mei Shu Ho, a chemical engineering major from Tunghai University in Formosa; Jim Tingle, a physical chemistry student from (5416 Mansell) Fort Worth; and Weldon Schaefer, chemistry graduate student from Springlake.

##

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --Texas Tech foreign language students not only can be "deejays" for their own listening sessions, they now have new opportunities to be their own recording "stars."

Microphones and playback units have been installed in all 20 booths of the foreign language laboratory, Prof. A.B. Strehli, foreign language department head, announced.

Previously only nine booths were available for student recording. The other 11 booths were good only for language examples piped in from three different sources.

Installation of the individual microphones and playbacks means that students in a greater variety of courses may use the facilities, Prof. Strehli explained.

Now each individual using a booth may listen to the proper presentation of a language passage, try it himself, by recording on tape, then play back his version immediately for comparative purposes.

Use of the foreign language laboratory has been climbing steadily since its beginning, Prof. Strehli said. In the fall of '58, some 2,080 use permits were filled out. The total climbed to 2,114 last spring, and passed the 3,000 mark last fall.

The new conveniences are expected to make the lab even more popular this spring, Prof. Strehli added.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

CAPTION

ACCENT IN THE MAKING--Texas Tech coed Marilyn Stipp records a passage in German as she strives to improve her accent in Tech's foreign language laboratory. Previously, the senior zoology major may have had to wait some time before getting a recording booth. Now, however, all 20 booths in the lab have ^{recording} ~~XXXXXX~~ and playback equipment so language students can hear themselves as others hear them--and compare the results immediately with a master tape of the correct accent. Although most of the booths were equipped only for piped in examples last fall, more than 3,000 permits to use the lab were filled out.

--(Tech Photo)

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: MUSIC EDITORS

LUBBOCK, Feb. ---Texas Tech's music department will hold three music schools this summer for junior high and high school students.

A choir school will be held May 30 - June 3 and directed by Dr. David Foltz, director of choral organizations, University of Wichita (Kan.). Dr. Foltz is nationally known as a choral conductor and choir clinician.

Dr. John Anderson, music consultant, Lubbock Public Schools, will conduct the junior high school choir.

Choir school fees will include dormitory, \$10.50; meals at the Tech Union, \$10; and tuition, \$10.

The orchestra school, under the direction of Mr. William Harrod, conductor of the Lubbock Symphony Orchestra, will be held June 6 - June 17. Aiding Mr. Harrod will be a talented faculty of specialists. Orchestra school tuition will be \$10.

Dean Killion, conductor of the Tech bands, will be the clinician for the band school and Keith McCarty, director of the summer band school, will co-ordinate the efforts of a large staff of specialists in woodwinds, brass, percussion and twirling.

A minimum of three bands will afford ample opportunity for students of various degrees of advancement. Fees include dormitory room with meals, \$39.50 and tuition, \$20.

For more information write Raymond Elliott, Music Department, Texas Tech, Lubbock.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

CUTLINE:

RISING ON THE TEXAS TECH CAMPUS this year will be a huge new library building, a model of which is shown. Arches and columns fronting a red-tile screen will be used on the five-story center section of the building to express the Spanish Renaissance theme of architecture at Tech. --(Tech Photo)

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Dr. James P. Cornette, president of West Texas State College at Canyon, will address some 80 members of Phi Delta Kappa, men's professional education fraternity, at Texas Tech Saturday.

The dinner meeting will begin at 6 p.m. in the Tech Union workroom.

"Two in One" is the title of Dr. Cornette's speech.

Introductions will be made by Dr. Paige Carruth, director of student housing at West Texas State College, W.P. Clements, assistant dean of admissions at Tech, will give the invocation.

Guests for the occasion will include Dr. Robert C. Goodwin, acting Tech president; Dr. S.M. Kennedy, dean of arts and sciences; Dr. Ivan Little, assistant dean of arts and sciences; and Dr. Floyd Boze, dean of admissions at Tech.

President of Gamma Xi chapter of Phi Delta Kappa, at West Texas College, Dr. McOwan will also attend the meet. Phi Delta Kappa was established at West Texas State College in the fall of 1959.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, --

, Texas Tech

from

has been initiated into Phi Epsilon Kappa, national men's physical education fraternity.

The organization is made up of students majoring or minoring in physical education, health and recreation.

The Tech chapter of Phi Epsilon Kappa is the fourth to be established in the South and is the only one in Texas.

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Adrian Vaughan, Director

ATTN: FARM EDITORS

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He is Fred Elliott, a Texas extension cotton work specialist who is a leader in spreading information on cotton improvements.

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"Much of this almost unbelievable progress in upping Texas cotton yields is a result of the seven-step cotton program spearheaded by Fred Elliott," the magazine declares.

Through his work, seven-step committees were organized in virtually every cotton growing county in Texas, bringing together the persons in each county that influence cotton production--bankers; county agents; vo-ag teachers; grain, feed and seed dealers; and newsmen and farmers.

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The main speaker, Harold O. "Bus" Carlton of Washington,
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Accompanying him from Washington, D.C., are Miss Janet McFadden, home economist, and Hugh Gallagher, administrative officer, both with the school lunch branch.

Attending the planning meeting from the school lunch branch office in Dallas is John Slaughter, field supervisor for the area to be covered by the leadership training conference: Oklahoma, Texas, Louisiana, Arkansas, Kansas, Colorado, and New Mexico.

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Representing the Texas Education Agency are Charles Hicks, school lunch section chief, and Miss Martha Butrill, district school lunch supervisor who has an office on the Tech campus.

The regional conference for school lunch staffs will be held here Aug. 29-Sept. 12 under the direction of Dr. Willa Vaughn Tinsley, Tech home economics dean.

In conjunction with the summer conference, state directors of school lunch programs in the region to be covered, will hold their annual meeting.

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Department of Public Information
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Adrian Vaughan, Director

Special to Jack Sheridan

Participation in Texas Tech speech productions ranging from "Macbeth" to "A View from the Bridge" has earned Barbara Garnett, speech major from Lubbock, membership in Alpha Psi Omega, national honorary dramatic fraternity.

The 20-year-old junior coed has worked in dramatic productions at Tech since the fall semester, 1957.

Her outstanding accomplishments include the design and execution of the make-up for the production of "Dark of the Moon," fall, 1957; work on properties for "Macbeth," spring, 1958; her portrayal of the role of Ismene in the production of "Antigone," fall, 1958.

Also included are her role as Gabriele in the production of "The Madwoman of Chaillot," spring, 1959; and her role as Madge in last month's production of "Picnic."

She is now in charge of properties for the forthcoming production of "A View from the Bridge," by Arthur Miller, to be presented by the Tech speech department March 14-19.

The daughter of Mr. and Mrs. Ralph D. Garnett of Lubbock, she is a ~~member~~ *president* of Sock and Buskin, national professional society, and the Christian Science Organization.

Chartered on the Tech campus in 1926, Alpha Psi Omega recognizes outstanding achievement in dramatic art. There are now eight members in the local chapter, called the Tau Cast.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

A 1,000 persons a day are coming from East Berlin to the Amerikahaus in West Berlin to read free-world newspapers, a U.S. Information Agency official visiting Texas Tech said Saturday (Feb. 27).

She is Mrs. Wera Fricke, a librarian at the Amerikahaus, which provides a cross section of newspapers, magazines, books and other literature.

"We invite anyone who is interested to come read what the American press and other American writers have to say," she explained.

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"We hold these discussions once a month, Mrs. Fricke said, and usually 100 to 150 German youths will show up for the discussion period."

Mrs. Fricke was on campus Saturday to visit the Tech Library and the West Texas Museum.

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Hadawi, who is a Christian of the Anglican faith, noted that Arab Moslems have no place in their religion for intolerance of Christians or Jews.

"We are not against the Jews as a people," he emphasized, "but we are against political Zionism. The Arab nations have no intention of attacking Israel at any time. In fact, the Arab's past record proves this.

"On the other hand, Israel has been condemned by the United Nations at least 25 times for attacks on Arab territory, and four of these times drew censure from the Security Council. The Arab States, not once."

As an ardent advocate of Arab States rights, he quoted Egyptian President Gamal A. Nasser regarding the Suez Canal controversey.

"If we approve Israel's use of the canal, it means Israel should get all its demands and the Arabs would lose all of theirs. As for Israel, the state of war exists and will continue as long as aggression against our Arab land continues," he said.

Hadawi said the Arab States are ready to accept the UN resolutions on Palestine, provided that Israel respects and executes the UN decisions. Quoting Nasser again, he said:

"The only starting point for a solution would be to execute all UN proposals. We are ready to offer every aid to the UN in order that it may execute its resolutions on Palestine and the Suez Canal."

These resolutions include: boundaries of Israel (made in 1947), repatriation or compensation of refugees, according to their choice (1948), internationalization of Jerusalem (1949), safeguarding the properties, rights and interests in Israeli hands (1950), and permitting passage of Israeli ships through the Suez Canal (1951). The first four involve human rights, the last regards merchandise, he noted.

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LUBBOCK, Feb. -- Arabs, because of their Moslem religion, will never accept communism. But they may cooperate with the Communists -- if they are pushed too far, a spokesman for the Arab States declared Tuesday at Texas Tech.

Sami Hadawi, chief of the Arab States public liaison section in New York, outlined the position of the Middle East peoples in the cold war between the East and West in a series of lectures before Tech government and agriculture students. He explained the Arab attitude toward communism.

"Until recently, the Arabs had no contact with communism, and they did not wish to," he stated. "But they have been forced into a position of contact as a result of the creation of Israel."

Hadawi said the communist ideology is unacceptable to the Arab and that most Arab leaders feel the Islam religion is a strong barrier against it, pointing to a verse from the Koran: "Who is more wicked than he who prohibits God's name from being remembered in his houses of worship and he who hastens to destroy them."

"But," he emphasized, "if the Arabs are pushed too far, and their rights are continued to be ignored, they will cooperate with the Soviet Union. Such cooperation, however, will be limited solely to trade without strings attached."

The Arabs generally have three aspirations: emancipation from foreign domination, improvement of social, economic and education problems, and unity, he said.

"They are all agreed on these in substance. They differ on methods of achieving them," he said, adding that "while Nasser is a symbol of Arab nationalism, he did not create it. It existed before he came to power."

(MORE)

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###

February 22-27

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech students will hear Sami Hadawi, Arab land expert, discuss "The Arab World and Communism" today (Tuesday) at 7:30 p.m. in the Tech Union Workroom.

Hadawi, who is chief of the Arab States' public liaison section, is being sponsored on campus by the Tech Student Union's World Traveler's committee.

As a land utilization specialist, Hadawi will also observe Texas agricultural practices and compare them with those in Palestine and Jordan during his visit here.

A full schedule of activities has been slated for the Arab representative today. He will lecture before government and agricultural classes this morning before touring the campus at 11 a.m. After being guest of honor at a World Traveler's luncheon in the Tech Union, he will lecture before an international politics class from 1 to 2:30 p.m.

As a guest of the Lubbock Chamber of Commerce, Hadawi will be taken on a tour of the city from 2:30 to 4:30 p.m.

A Christian Arab, born in Jeruseleum, Hadawi, was in charge of land taxation in the department of Land Settlement in the Palestine government for 11 years. Then, in 1948, with the withdrawal of the British mandate, he left his native country and went into the services of the Jordan government.

In Jordan, Hadawi served as director of land tax assessment, and chief of inland land revenue in the department of finance ministry. In 1952, he resigned this post to become a land specialist with the United Nations. Later, in 1955, Hadawi helped to establish the Palestine-Arab Refugee office in New York.

Hadawi is also advisor in world land problems, for the Arab States delegations office. He is married, father of two, and lives in New York.

The land expert has traveled extensively through the Middle East and Europe. He speaks English, Arabic and German.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

An agribusiness conference will be held today (Feb. 23) at Howard County Junior College in Big Spring, with Dr. Gerald Thomas, Texas Tech agriculture dean, presiding.

In the morning session, government programs and the livestock industry will be discussed by John G. McHaney, Texas A&M extension economist from College Station.

Earl Sargent of Wichita Falls, KWFT farm director, will speak on the importance of public relations and communication in agriculture.

Joe Bell, Colorado City Record publisher, will open the afternoon session with a talk on "The Importance of Agriculture to the Economy of Our Area." A look at the future of farm labor will be taken by Henry LeBlanc of the Texas Employment Commission, Austin. Dooley Dawson, vice-president of the Bank of the Southwest, Houston, will speak on the future of agribusiness in West Texas.

The conference will close with a panel discussion on agribusiness, moderated by Dean Thomas.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Pi Beta Phi, social sorority, led the 21 Greek fraternal groups on the Texas Tech campus in scholarship for the fall semester of 1959 with a 1.74 grade-point average.

Second scholastically was Kappa Alpha Theta sorority with a 1.70 and a 1.63 average put Delta Delta Delta sorority third.

Phi Gamma Delta took first honors in fraternity averages with a 1.37. It was followed by Phi Kappa Psi, 1.34, and Sigma Alpha Epsilon with a 1.32.

The 783 sorority women averaged a 1.53 while a 1.28 average was attained by 727 fraternity men. The all women's average at Tech was a 1.46. The all men's average was 1.11.

Other sororities and their averages are;

Alpha Chi Omega, 1.48; Alpha Phi, 1.43; Delta Gamma, 1.461; Gamma Phi Beta, 1.45; Kappa Kappa Gamma, 1.56; Phi Mu, 1.37; Sigma Kappa, 1.40; Zeta Tau Alpha, 1.463.

Fraternity averages are;

Alpha Tau Omega, 1.20; Delta Tau Delta, 1.21; Kappa Sigma, 1.22; Phi Delta Theta, 1.23; Pi Kappa Alpha, 1.26; Sigma Chi, 1.29; Sigma Nu, 1.25.

The 1,510 students in fraternities and sororities averaged a 1.41, while the undergraduate college average of 8,369 students was a 1.21.

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Monsignor Leroy Matthiesan, editor of the West Texas Register, will address more than 150 Roman Catholic college students in Lubbock on Feb. 26-28.

A native Texan, Msgr. Matthiesan will be the main speaker at the annual Texhoma Province Convention, this year hosted by the Texas Tech Newman Club. He will discuss the various aspects of a Catholic student's life while attending a secular college.

Registration for the convention will begin Friday (Feb. 26) at 2 p.m. in the Lubbock Hotel and a dance is scheduled for 10 p.m. that evening.

Keynote speaker for the meet is the Rev. George Salaway, formerly Newman Club chaplain at St. Elizabeth's Church in Lubbock. He currently is in Odessa. He will address a 9 a.m. general session Saturday morning.

The Bishop of the Dioceses of Amarillo, the Most Rev. John Morkovsky, will celebrate Mass and assist in the installation of province officers Saturday afternoon (Feb. 28).

The day's events will close with a banquet and ball beginning at 7:30 p.m. in the Caprock Hotel.

Sunday morning, delegates will attend Mass, meet for breakfast, and close the convention with the final province executive meeting.

###

Department of Public Information
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Adrian Vaughan, Director

LUBBOCK, --Texas Tech foreign language students not only can be "deejays" for their own listening sessions, they now have new opportunities to be their own recording "stars."

Microphones and playback units have been installed in all 20 booths of the foreign language laboratory, Prof. A.B. Strehli, foreign language department head, announced.

Previously only nine booths were available for student recording. The other 11 booths were good only for language examples piped in from three different sources.

Installation of the individual microphones and playbacks means that students in a greater variety of courses may use the facilities, Prof. Strehli explained.

Now each individual using a booth may listen to the proper presentation of a language passage, try it himself by recording on tape, then play back his version immediately for comparative purposes.

Use of the foreign language laboratory has been climbing steadily since its beginning, Prof. Strehli said. In the fall of '58, some 2,080 use permits were filled out. The total climbed to 2,114 last spring, and passed the 3,000 mark last fall.

The new conveniences are expected to make the lab even more popular this spring, Prof. Strehli added.

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LUBBOCK, Feb. --Graduate research in physical chemistry has received a boost at Texas Tech with the installation of a basic X-ray Diffraction Unit.

Dr. Arthur Draper, Tech assistant professor of chemistry, said the new unit cost approximately \$6,000 and will be used by graduate students doing research in physical chemistry.

"Such a basic X-ray Diffraction Unit will identify uniquely any solid material in powder form. It will be used to study clays, catalysts and other metal oxides in an effort to find out how changes in structure can change chemical properties," Draper said.

These changes are recorded by the unit when X-rays are diffracted through a camera and exposed on film.

Graduate students working with the diffraction unit this semester include Mei Shu Ho, a chemical engineering major from Tunghai University in Formosa; Jim Tingle, a physical chemistry student from (5416 Mansell) Fort Worth; and Weldon Schaefer, chemistry graduate student from Springlake.

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The Air Force ROTC program at Texas Tech will be inspected today (Tuesday) and Wednesday by Lt. Col. Edward W. James and Maj. Frank C. Herron from the Inspector General Department of Air Force ROTC at Maxwell AFB, Ala.

They will be checking into the degree of mission accomplishment and the efficiency of the air science program at Tech. Col. N.B. Wilkerson, professor of air science, said today that he and his detachment personnel are ready for the inspection.

"We are trying to better the excellent regard the Tech AFROTC has earned in the past. Tech's program is recognized as ranking with the best schools in the nation participating in Air Force ROTC. We are proud of our tradition and rating at Texas Tech and intend to do everything in our power to uphold and improve that respect," he said.

Cadet Col. E.L. Coleman, cadet wing commander, and his staff will present a special staff briefing for the inspectors today. Coleman said this will be the first time Tech cadets will use 35mm color slides to illustrate the mission and accomplishments of the cadet wing.

The briefing will follow another first for Tech's Air Force ROTC, a senior cadet luncheon in the ballroom of the Student Union. Student Life Dean James G. Allen and the visiting inspectors will be special guests at the luncheon.

Lt. Col. James and Maj. Herron will conclude their observation of the Air Force ROTC classes, administration, flight instruction program, and Angel Flight by reporting their findings to Dr. Robert C. Goodwin, acting president of Tech.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech professor of home economics education, Dr. Jessie Batemen, will serve as a resource person on the national program for the Association for Supervision and Curriculum Development.

The meet is scheduled in Washington, D. C., March 6-11. Dr. Bateman is a member of the ASCD Evaluation Committee and chairman of the Texas ASCD Research Committee.

#####

Dr. Berlie J. Fallon, associate professor of education at Texas Tech, has accepted two appointments to offices in national organizations.

Phi Delta Kappa, professional fraternity for men in education, has selected Dr. Fallon as coordinator for the West Texas area. Basic objectives of the fraternity include service, research and leadership.

Dr. Fallon will also begin a three-year term on the University Contacts Committee of the Assn. of School Business Officials of the United States and Canada.

The Committee promotes programs and activities in colleges and universities designed for the preparation and in-service improvement of public school business managers.

#####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, FEB. --Fred T. Dines of Amarillo will preside at the sixth annual Grain Drying and Storage Conference at Texas Tech Wednesday and Thursday (March 2-3).

Dines will also participate on a panel about fumigation. There will be five other panels on grain drying, grain aeration, grain storage-structures, fans-controls-instruments and merchandising.

Topics to be discussed at the two-day conference meeting in the Tech Union will include "Failures in Grain Storage Facilities," "Man Against Insect," "Domestic Merchandising," "Electronic Controls and Instrumentation," "Fire Prevention in Grain Driers and Elevators," and "Making a Stable and Dependable Grain Industry."

Dines is president of the Western Grain and Supply Co., Inc., the Western Grain Co. of Amarillo, Inc., and the Amarillo Grain Exchange. He is manager of the Amarillo Grain Co. and the United Grain Co.

The son of a Colorado flour milling family, Dines received his B.S. degree in agronomy at Colorado State College, and his M.S. degree in agronomy and milling industry at Kansas State College.

From 1938 to 1940, he was an agronomist with Oklahoma State College. Then he moved to Texas to head the Texas Wheat Improvement Assn. During World War II, he was a Naval officer in the Civil Affairs program on Agriculture and later served as a gunnery officer on an aircraft carrier.

Following naval service, Dines continued the Texas wheat improvement program through employment by the grain trade and Texas A&M College extension service.

In 1950, he entered private grain business and has since added a wholesale agricultural chemical and grain fumigant business to the Western Grain and Supply Co. in Amarillo.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN. FARM EDITORS

LUBBOCK, --Texas Tech's Agronomy Club will hold its 23rd annual club banquet Saturday, March 12.

Texas Tech graduate Wilmer Smith is guest speaker for the event scheduled at 7 p.m. in the Tech Union.

A nationally-known Lynn County cotton farmer, Smith is a member of the Executive Committee of the Texas Ginners Assn. and is director of the Central Bank for Cooperatives in Washington, D. C.

Smith also serves as president of Plains Cooperative Oil Mill, president of the Board of Directors for the New Home Cooperative Gin and president of the American Cotton Producers Assn.

Members of the 1959 National Champion Intercollegiate Crop Judging team will be honored at the banquet. The team recently won the national crop judging contest at Kansas City, Mo. and set an all-time high score in winning the meet. Tech crop judges have won both the national and international contests for five consecutive years, a feat not accomplished by any other group.

Team members attending the banquet include; Lubbock senior agriculture majors Eugene Coleman, Mike D. McDonald, and Dean Edwards, also senior agriculture major from Hereford, Glenn Robison.

Cecil Ayers, associate professor of agronomy at Tech is coach for the winning group.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTENTION MUSIC EDITORS

FOR SUNDAY

LUBBOCK, --Texas Tech's Red Raider Band will make a three-day tour of the Texas Panhandle March 21-23, then return to Lubbock for a concert March 27.

Director Dean Killion said the 84-member organization will play at least seven concerts during the tour. Each program will range from traditional to contemporary band music and will be played at a high school

Soloists will include Richard Tolley, trumpet; and Keith McCarty, clarinet; both faculty members. A baritone trio of Phil Anthony, Amarillo; and Bob Ray and Clifford Bates, both of Lubbock, also will be featured.

On March 21, the band will play in Littlefield at 9 a.m., Olton at 2 p.m., and Tulia at 8 p.m. March 22 concerts will include Tascosa (Amarillo) at 9:30 a.m., Dumas at 2 p.m., and Hereford at 8 p.m.

March 23 concerts will include appearances at Palo Duro (Amarillo) at 9 a.m., Amarillo High at 10:30 a.m., and Plainview at 3 p.m.

The Lubbock concert will be at 3 p.m. Sunday, March 27, in Municipal Auditorium. A highlight will be the premier of a brass and percussion band. The 38-piece experimental group will play several numbers and will join the regular concert band in the finale.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

CAPTION

GETTING READY FOR THE ROAD is Texas Tech Band sweetheart Deana Kil
GETTING READY FOR THE ROAD is Texas Tech Band sweetheart Deana Ward of
Wilson. She's packing uniforms for a three-day concert tour the Tech
Band will make March 21-23. The trip will include appearances in
Littlefield, Olton, Tulia, Dumas and Amarillo. The band will follow the
tour with a Lubbock appearance March 27 in Municipal Auditorium. (Texas
Tech Photo)

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

CAPTION

GETTING READY FOR THE ROAD is Texas Tech Band sweetheart Deana Ward of
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the tour with a Lubbock appearance March 27 in Municipal Auditorium.
(Texas Tech Photo)

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Some 300 persons are expected for the first session of the sixth annual Grain Drying and Storage Conference today (Wednesday) and Thursday at Texas Tech.

Eight topics will be discussed by guest speakers at today's meeting. Grain drying, aeration and storage-structures will be subjects of three panel discussions at 3 p.m. this afternoon.

The conference will continue Thursday with eight talks and three panel discussions by authorities in the field of grain drying and storage.

At 9:10 a.m., Ray B. Bowden will speak on "Another Mile." Bowden is secretary-treasurer of the Texas Grain and Feed Assn., Fort Worth. "Failures in Grain Storage Facilities" will be presented at 9:40 a.m. by W.F. Weiland, professor of mechanical engineering at the University of Nebraska, Lincoln, Neb.

At 10:40 a.m., Uel A. James, engineer with the James Brothers Construction Co., Oklahoma City, Okla., will speak on "Concrete in the Construction of Grain Storages." "What We Know and Don't Know About Grain Storages" will be told by W.V. Hukill at 11:10 a.m. Hukill is an agricultural engineer from Iowa State College.

Dr. L.E. Loveless, of Monsanto Chemical Co., St. Louis, Mo., will speak at 1 p.m. on "Holding Wet Grain."

The second speaker of the afternoon session, Charles Storey, will discuss "Man Against Insect." Storey is with the Agricultural Marketing Service at Manhattan, Kan.

Dr. Gerald W. Thomas, dean of the School of Agriculture at Tech, will tell about "Marketing Feed Grains in Greece" in a 1:30 p.m. speech.

The concluding speech of the afternoon session will be given at 2 p.m. by Warren LeBourveau, general manager, Mathis Grain and Elevator Corp., Mathis. His topic will be "After Grain Storage -- Then What?"

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech's ROTC rifle team has been selected as one of the teams to represent the Fourth U.S. Army in nation-wide ROTC small-bore matches slated this month.

Fourth Army headquarters announced Thursday that the Tech riflemen placed fourth among 35 ROTC teams from colleges and universities in Texas, Oklahoma, Arkansas, Louisiana and New Mexico.

The Tech sharpshooters outpointed all of the other Southwest Conference teams participating, including Texas A & M, Texas Christian University, Arkansas, Rice and the University of Texas, Capt. R.E. Cavazos, team sponsor, said.

Tech team members are Leon Ward of Lubbock, Tommy Starnes of Brownfield, James McCluer of Dallas, Irby Range of Texico, N.M., Gordon R. Brown of Mathis, Paul Kotter and Charles Alford of Fort Worth, Wesley Coggins of Dallas, Gerald Kirby of San Antonio, and Harry Marsh of El Paso.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

FOR SUNDAY

LUBBOCK, -- Persons who purchased seat options in Texas Tech's expanded Jones Stadium during 1957-58 must make final payment on them by April 1.

In an announcement reminding purchasers of the deadline, Tech's Acting President R.C. Goodwin also emphasized that Tech must have the money to keep the expansion project on schedule.

"Now that the east stand of Jones Stadium has been moved, the press box and Athletic Building completed, and the playing field partially excavated, the end of the stadium project is in sight," he said.

Tech is pledged to expand Jones Stadium from 27,000 seats to 40,000 or more.

"Work is progressing properly for completion of the big job by next September, as agreed when Texas Tech was admitted to the Southwest Conference," Dr. Goodwin continued.

He warned, however, that the stadium project is in serious trouble if pledges on seat options purchased in 1957-58 are not completely paid as agreed.

"We must meet construction costs each month on a pay-as-we-go basis and funds now on hand will carry us only through April 1," he explained. "Beyond that point -- from April through August -- we must meet further costs of \$598,300 to finish the stadium project."

Receipts on options purchased in 1957-58 have lagged behind schedule, Dr. Goodwin said.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, March -- Forty-two Texas Tech students made a 3.00 (A) grade-point average for the 1959 fall semester, the Tech registrar's office has announced.

Those making "straight A's" include:

SAGERTON -- Lynell E. Fouts, junior home economics major.

SLATON -- William E. Clark, freshman arts and sciences major.

STAMPS, ARK. -- James Leon Ward, junior engineering major.

SUDAN -- Carolyn G. Watkins, senior arts and sciences major.

SULPHUR SPRINGS -- Norman S. Morris, junior arts and sciences major.

SWEETWATER -- R. Dell Greer, senior engineering major.

THALIA -- Gaylon Boyd Whitman, senior engineering major.

TYLER -- Frank Marion Burke, junior business administration major.

###

CLAIRETTE -- James D. Marshall, senior agriculture major.

COLEMAN -- Sandra Cox, junior arts and sciences major.

COLORADO CITY -- Jane Merritt, sophomore arts and sciences major.

COTULLA -- Mary Sue M. Black, senior arts and sciences major.

DUMAS -- Dahlia L. Brazell, sophomore arts and sciences major.

EL CAMPO -- Merrill C. Swanson, senior agriculture major.

EL PASO -- Jeanette Duncan (3515 Murray), senior arts and sciences major.

ENNIS -- Gayle E. Emmert, junior arts and sciences major.

FORNEY -- Sarah A. Pinson, senior arts and sciences major.

GROOM -- Jimmie L. Eschle, senior agriculture major.

GUSTINE -- James K. Pettit, senior agriculture major.

JACKSBORO -- Dorcas A. Pettigrew, freshman arts and sciences major.

LUBBOCK -- Charles L. Buchanan, junior engineering major; Don L. Cannon, junior engineering major; Walter Carl Cooley, freshman engineering major; Lenora K. Copeland, senior business administration major; Leona Ford Dale, junior arts and sciences major; Linda J. Dennis, junior arts and sciences major; Dwain G. Fuller, sophomore arts and sciences major; William S. Gill, senior agriculture major; Marjorie Lins, senior arts and sciences major; Michael D. McDonald, senior agriculture major; Alida I. Weathers, junior arts and sciences major; and Evangeline L. Young, freshman arts and sciences major.

MEMPHIS -- Billie S. Smith, senior arts and sciences major.

MULESHOE -- Ray Reed Vinson, Jr., sophomore arts and sciences major.

ODESSA -- Robert W. Gross, sophomore engineering major; Roger G. Sewell, senior arts and sciences major.

PECOS -- Wesley H. McCree, senior business administration major.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: Farm Editors

LUBBOCK, March --Fred W. Rabe, Dallas engineer, was named president of the 1961 Grain Drying and Storage Conference at the closing session of this year's meeting Thursday at Texas Tech.

Other new officers for the seventh annual conference slated next March on the Tech campus are F.N. Robinson, Lubbock engineer, and Jack Brown of Lubbock, first and second vice-presidents respectively; Bill Morrison, Lubbock insurance man, treasurer; and Fred Dines, 1960 conference president, program chairman.

Prof. Ira Williams, Tech agricultural engineering department head, will continue as program consultant, and Paul Furr of Lubbock will remain as finance chairman.

Dr. Earl Collister of the High Plains Foundation near Plainview, was named to the conference board of directors.

More than 250 grain elevator and warehouse storage operators registered for the two-day meeting held in the Texas Tech Union building.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Five Texas Tech engineering students have received scholarships from two Fort Worth business firms amounting to \$2,350, Robert L. Newell, assistant dean of engineering, has announced.

The B. and H. Instrument Company has awarded a \$250 scholarship to each of the following seniors: Gilbert Allen Branchflower, electrical engineering major, Lubbock; Daniel Rowe Dunn, mechanical engineering major, Big Spring; Robert Franklin Gaskill, mechanical engineering major, Wichita Falls; and Gaylon Boyd Whitman, electrical engineering major, Thalia.

Thomas C. Tillotson, sophomore electrical engineering major, Carlsbad, N.M., is the recipient of the Lawrence D. Bell Memorial Scholarship.

This scholarship, awarded by Bell Helicopter Corp., will amount to \$350 for the remainder of the year and will be continued through Tillotson's junior and senior years at \$500 annually if he maintains his scholastic record.

###

CAPTION

TEXAS TECH SCHOLARSHIP WINNERS--Five winners of \$2,350 in Texas Tech engineering scholarships have been announced by Robert Newell, assistant dean of engineering. Winners of \$250 B. and H. Instrument Co. grants for the spring semester are (standing left to right) Robert Gaskill, Wichita Falls; G.A. Branchflower, Lubbock; Daniel Rowe Dunn, Big Spring; and Gaylon Boyd Whitman, Thalia. Seated is Tom Tillotson of Carlsbad, N.M., winner of a Bell Helicopter grant that provides \$350 for the remainder of the academic year plus \$500 annually for two more years. Both Bell and B. and H. are Fort Worth firms. (Texas Tech Photo)

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

LUBBOCK, March -- A library of plant specimens -- known as a herbarium -- is now housed in Texas Tech's biology department for use by student and professional botanists and agronomists.

Chester M. Rowell, Jr., assistant professor of biology, who recently completed recataloging and systematically rearranging the plant library, said the herbarium contains approximately 7,000 mounted specimens.

"It is the only complete collection of flora from the Panhandle-South Plains region," Rowell said. "This includes an estimated 400 specimens of flowering plants native to this area."

The botanist pointed out that herbariums are becoming increasingly important in natural science because of increased urbanization and cultivation of land.

"The livestock, plows and other machinery of modern Americans have so altered the vegetation that in some states, such as those in the corn, wheat and cotton belts, only scattered fragments of the native flora exist today," he noted.

In many cases, these plant libraries have the only specimens of certain species of plants that once existed in a particular area. Often, these plant specimens were collected by early explorers and carefully preserved by natural history museums.

The Tech herbarium is housed in steel lockers with each specimen permanently bound on sheets of rag-content paper with a plastic cement. They include plant material gathered the first year Tech was in operation -- 1925 -- and specimens from recent field trips throughout the area and in surrounding states.

(More)

2--Herbarium

"Herbarium such as this permits research by junior and senior botany students, serves those doing research in natural flora and range management, and is an accurate reference source for identification of plants sent to the biology department for that purpose," Rowell said.

"This collection -- dated and classified -- will also serve as a reference point to help indicate what the trends in vegetation will be over the years," he added.

While Rowell has concentrated on flowering flora of the area, Dr. Paul Prior, associate professor of biology, has been collecting and doing research on the moss and liverwort flora of the Panhandle-South Plains area.

A flora collection has also been set up by Rowell at the State Game and Fish Commission station on the Gene Howe Wildlife Management Area near Canadian. The collection includes approximately 1,000 plant specimens.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

CAPTION

HERBARIUM PRESERVES PLANTS -- Chester Rowell, Texas Tech botanist, compares two specimens of sedge collected 30-years apart by Tech biology faculty. On the left is sedge (similar to bull rushes) collected by Rowell in the Canadian River valley near Canadian in 1955. At right he holds a sedge specimen collected by the late Dr. R.A. Studhalter in 1925 at Floyd's Crossing in Tule Canyon. "Tule" is the Spanish word for sedge and rushes. --(Texas Tech Photo).

###

CAPTION

PLANTS ARE CAREFULLY CATALOGED -- South Plains and Panhandle flora are preserved in the Texas Tech botany herbarium by placing the plants on 16½ x 11½ inch rag-content paper, and permanently binding them with a plastic cement. Completing this tedious procedure is Melvin B. Bippes, junior agronomy student from Pecos, who is a student assistant in the Tech botany lab. --(Texas Tech Photo).

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Dr. E.N. Jones, former president of Texas Tech, is reported to be recovering satisfactorily from minor surgery which he underwent Friday morning (March 4).

The operation was performed in Wichita General Hospital at Wichita Falls. Dr. Jones is staying in Room 338 of the hospital.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FARM EDITORS

LUBBOCK, March ---More than 200 grain warehousemen and storage operators are attending the sixth annual Grain Drying and Storage Conference that opened Wednesday at Texas Tech.

Management and marketing, as well as safety engineering problems held the spotlight in the first sessions of the two-day meeting.

A Mathis grain and elevator manager, Warren LeBourveau, predicted that a combination of conditions are developing which will result in a decrease in the need for grain storage space.

For those who continue in the business, management will become increasingly a more important factor of success or failure, he stated, in relating the varying problems the successful grain storage operator must solve.

An unscheduled speaker on the Wednesday program was Walter Blanton, president of the Texas Grain and Feed Assn., from Carrollton who outlined 25 points of difference between warehousemen and the Commodity Credit Corp.

The very methods used to preserve grain, and conditions that cause deterioration of grain, may also lead to structural collapse of the grain storage facility, W. F. Weiland, consulting engineer from Lincoln, Neb., said in discussing failures in grain storage facilities.

Weiland pointed out that both organic gases from decaying grain and chemical fumigants to hinder bacterial, insect and vermin infestation can contribute to explosive situations.

Weiland advised that "strict observance of a basic principle: keep the concentration of dust below the lower limit of inflammability to minimize the trouble from this source."

Grain storage operators may some day have vacuum drying, infrared radiation or high frequency electric fields, to work with, but until these have a practical application, practically all grain driers will continue operation with the circulation of air through a bulk of grain, W. V. Hukill, agricultural engineer with the U. S. Department of Agriculture at Ames, Ia., said.

Speaking on "What We Don't Know About Grain Drying," Hukill noted that the two classes of grain drying include: (1) in-storage drying where the grain remains in place after drying, and (2) batch drying, in which high temperature air is used.

"Quality of grain after drying may be affected by the way it is dried," he said. "Grain dried in storage may be damaged by mold, when drying is done too slowly. And, batch driers may damage grain by drying it too rapidly or at too high a temperature."

Hukill said research on the process by which the moisture in a kernal is vaporized, moved to the surface and expelled into the air has resulted in a great deal of literature on the subject.

"However, it is still poorly understood and both the drier designer and grain storage operator must depend pretty much on observation to estimate how long it takes for a kernal to dry," he commented. "More aspects of drying are subject to computation, however, and both design and operation are less and less matters for educated guessing." #####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

LUBBOCK, March -- Dr. Wallace R. Brode, science advisor to the Secretary of State, will lecture before Texas Tech chemistry faculty and graduate students at 8 p.m. Tuesday (March 8).

The distinguished scientist is being sponsored at Tech by the Robert A. Welch Foundation of Houston, said Dr. Joe Dennis, chemistry department head at Tech.

Dr. Brode, whose special fields include organic structure, color, optic activity, dyes and spectroscopy, will lecture on "Steric Effects in Dyestuffs." It will be delivered in room two of the Chemistry Building.

As a long-time research scientist, Dr. Brode is personally interested in a national science policy to prevent overlapping expansion and growth of government programs in space, defense, atom energy and medical research.

Brode is a native of Walla Walla, Wash., and earned a B.S. degree at Whitman College in 1921. He received M.S. and Ph.D. degrees from the University of Illinois in 1922 and 1925. He studied in Europe as a Guggenheim Fellow from 1926-28.

He served on the Ohio State University chemistry faculty from 1928-48, during which time he gained recognition as an educator, lecturer, writer, editor and administrator in American and international science.

He is author of Chemical Spectroscopy and co-author of a number of standard reference books. He and his co-workers have published more than 100 papers in American and European scientific journals.

Currently, Brode is on the Board of Directors of the American Chemical Society, Scientific Research Society of America and Optical Society of America. He was the 1959 president of the American Assn. for the Advancement of Science and is now chairman of the association board. He also serves as editor of the Journal of the Optical Society of America.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

TELOP

THE SECRETARY OF STATE'S SCIENCE ADVISOR -- DR. WALLACE R. BRODE --
WILL LECTURE BEFORE TEXAS TECH CHEMISTRY FACULTY AND GRADUATE
STUDENTS TUESDAY. THE TOPIC WILL BE "STERIC EFFECTS IN DYESTUFFS."
AS A LONG*TIME RESEARCH SCIENTIST, DR. BRODE IS INTERESTED IN A
NATIONAL SCIENCE POLICY TO PREVENT OVERLAPPING EXPANSION AND
GROWTH OF GOVERNMENT PROGRAMS IN SPACE, DEFENSE, ATOM ENERGY AND
MEDICAL RESEARCH. -- (TEXAS TECH PHOTO)

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

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AND MEDICAL RESEARCH. -- (TEXAS TECH PHOTO)

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, March -- Two Texas Tech students from Fort Worth have made a 3.00 (A) grade-point averages for the 1959 fall semester, the Tech registrar's office has announced.

A total of 42 Tech students made "straight A's" last semester.

Among them was the son of Mr. and Mrs. H.H. Kinzy, 2036 Wilshire, Fort Worth, Norman Kinzy, a freshman electrical engineering major.

Robert B. Palmer is a sophomore math major and a member of Phi Eta Sigma, scholastic honorary for freshman men. He is the son of Mr. and Mrs. E.B. Palmer, 3421 Forest Park Blvd., Fort Worth.

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Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, March -- Three Texas Tech juniors from Dallas have made a 3.00 (A) grade-point average for the 1959 fall semester, the Tech registrar's office has announced.

A total of 42 Tech students made "straight A's" last semester.

Carol Burrow is a government major and a member of Alpha Lambda Delta, scholastic honorary for freshman women, and Phi Alpha Theta, history department honorary society.

She is secretary-treasurer of Pi Sigma Alpha, government department honorary society, and a member of the Tech Union program council. The Tech coed is legislator and scholarship chairman of Doak Hall.

Miss Burrow is the daughter of Mr. and Mrs. B.C. Burrow, 6915 Kenwell, Dallas.

An international trade major, Franz Helbig (6319 Mimosa Lane) is a member of Phi Eta Sigma, scholastic honorary for freshman men, and the Cosmopolitan Club. He was honored at the All-College Recognition Service. Helbig is the son of Mr. and Mrs. Walter Helbig, Ludwigshafen, Germany.

Anne McElheny is a Spanish education major at Tech. She is vice president of Sigma Delta Pi, Spanish department honorary society, and treasurer of Pi Beta Phi, social sorority.

She is a member of Junior Council, service honorary for junior women, Alpha Lambda Delta, scholastic honorary for freshman women, and the Tech Union Program Council.

Miss McElheny is the daughter of Mr. and Mrs. O.K. McElheny, 3620 Southwestern, Dallas.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, March -- Tony Gibson of Lubbock will represent the Texas Tech chapter of the American Society of Civil Engineers at a national convention in New Orleans March 7-11.

Cliff H. Keho, associate professor of civil engineering at Tech, will also go to the convention as representative for the High Plains branch of the ASCE.

Civil engineers from all over the U.S. will hear some 100 technical papers delivered by professionals in five different fields of civil engineering.

Other activities include field trips in different phases of civil engineering and a chartered yacht tour of the harbor. The ASCE student chapter at Tulane will be host for the convention.

Gibson is the son of Mr. and Mrs. Everett D. Gibson, Farmington, N.M., and is a senior civil engineering major.

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44-29-March 5-1960

[illegible]

MAILING SCHEDULE FOR

DAY	NAME OF STORY	LOCALS	DAILIES	WIRE SERVICE	WEEKLY	REGIONAL	HT'S	BOARD	TELEPS	EXPLANATION (SPECIALS, PHOTOS, ETC.)
1st	Memorial - Biology	✓	✓							These are the only 5x7 to 11x14 and 5x7
2nd	Bad Trip	✓	✓							
3rd	Best of Times	✓	✓							
4th	Memorial Hall	✓	✓							
5th	La. 2-71 from military	✓	✓							
6th	Centennial Seed Machine	✓	✓							At only + 20x20
7th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
8th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
9th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
10th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
11th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
12th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
13th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
14th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
15th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
16th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
17th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
18th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
19th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
20th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
21st	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
22nd	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
23rd	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
24th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
25th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
26th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
27th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
28th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
29th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
30th	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption
31st	La. 2-71 from military	✓	✓							5x7 to 11x14 + caption

TOTALS

15 4 1 1 4 3 4 14 6

ATTN: SCIENCE EDITORS

IUBBOCK, Feb. -- Grants totaling \$82,500 have been awarded by the Robert A. Welch Foundation to Texas Tech scientists for basic research in organic, inorganic and physical chemistry.

The Foundation awarded three of six new grants and one of 24 research grant renewals to Texas Tech chemists. A total of \$746,500 for chemical research has been approved by the Foundation board this year.

Dr. Henry F. Shine, Tech associate professor of chemistry, was awarded a \$22,500 renewal grant. Grants of \$20,000 each were made to Dr. W.W. Wendlandt, associate professor of chemistry, Dr. Arthur L. Draper, and Dr. Joe Adamcik, both assistant professors of chemistry.

Dr. Shine will conduct an 18-month investigation of the oxidation of hydrocarbons by oxygen. "There are general theories that interpret how oxidation takes place. However, some of these theories need to be readjusted in the light of what basic research has revealed in recent years," he said.

Shine holds degrees from London University. He joined the Tech faculty in 1954 and has conducted other research studies under Welch Foundation grants.

"Thermal rearrangement of aquo-ammine chromium complexes" is the two-year study to be conducted by Dr. W.W. Wendlandt, an inorganic chemist.

"This project is specifically concerned with the effect of heat on a class of compounds known as the aquo-ammine chromium III complexes," he said. "When a reaction called thermol rearrangement takes place in a certain compound, we want to study the energy evolved or absorbed and to determine how rapidly this happens at certain temperatures and why."

(MORE)

Q--Tech chemists...

Wendlandt holds a Ph.D. degree from State University of Iowa and is directing several other basic research studies in inorganic chemistry.

Dr. Arthur L. Draper will conduct a two-year study of the "adsorption of polar compounds on plate-like materials". As a physical chemist, he is interested in learning more why vapor goes on and off solid surfaces in different manners.

"The phenomenon of adsorption in vapor-solid systems--the concentration of vapor on the surface of a solid--is incompletely understood," Draper said. "No complete theory of the phenomenon has been developed. Results of the investigation should help in establishing the theoretical basis of adsorption."

He explained that adsorption controls all types of surfaces on clays, carbons and catalysts. Draper holds degrees from Rice Institute and joined the Tech chemistry faculty in 1959. He has done research for the Atomic Energy Commission and private industry for nine years.

Basic research to develop a synthetic tool for preparing certain types of compounds will be conducted by Dr. Joe Adamcik, an organic chemist at Tech.

He will study a chemical reaction known as cyanoethylation which has proved highly useful in preparing certain types of compounds. This reaction is important in preparing intermediates for pharmaceutical and other chemical products.

Adamcik joined the Tech chemistry faculty in 1957 after earning bachelor and master degrees at the University of Texas and a Ph D. degree at the University of Illinois.

All of the Tech chemists will employ and direct graduate students in conducting their research.

The new Welch grants and grant renewals this year brought to more than \$4,300,000 the foundation expenditures for chemical research in Texas.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

The Air Force ROTC program at Texas Tech will be inspected today (Tuesday) and Wednesday by Lt. Col. Edward W. James and Maj. Frank C. Herron from the Inspector General Department of Air Force ROTC at Maxwell AFB, Ala.

They will be checking into the degree of mission accomplishment and the efficiency of the air science program at Tech. Col. N.B. Wilkerson, professor of air science, said today that he and his detachment personnel are ready for the inspection.

"We are trying to better the excellent regard the Tech AFROTC has earned in the past. Tech's program is recognized as ranking with the best schools in the nation participating in Air Force ROTC. We are proud of our tradition and rating at Texas Tech and intend to do everything in our power to uphold and improve that respect," he said.

Cadet Col. E.L. Coleman, cadet wing commander, and his staff will present a special staff briefing for the inspectors today. Coleman said this will be the first time Tech cadets will use 35mm color slides to illustrate the mission and accomplishments of the cadet wing.

The briefing will follow another first for Tech's Air Force ROTC, a senior cadet luncheon in the ballroom of the Student Union. Student Life Dean James G. Allen and the visiting inspectors will be special guests at the luncheon.

Lt. Col. James and Maj. Herron will conclude their observation of the Air Force ROTC classes, administration, flight instruction program, and Angel Flight by reporting their findings to Dr. Robert C. Goodwin, acting president of Tech.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech professor of home economics education, Dr. Jessie Bateman, will serve as a resource person on the national program for the Association for Supervision and Curriculum Development.

The meet is scheduled in Washington, D. C., March 6-11. Dr. Bateman is a member of the ASCD Evaluation Committee and chairman of the Texas ASCD Research Committee.

#####

Dr. Berlie J. Fallon, associate professor of education at Texas Tech, has accepted two appointments to offices in national organizations.

Phi Delta Kappa, professional fraternity for men in education, has selected Dr. Fallon as coordinator for the West Texas area. Basic objectives of the fraternity include service, research and leadership.

Dr. Fallon will also begin a three-year term on the University Contacts Committee of the Assn. of School Business Officials of the United States and Canada.

The Committee promotes programs and activities in colleges and universities designed for the preparation and in-service improvement of public school business managers.

#####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, FEB. --Fred T. Dines of Amarillo will preside at the sixth annual Grain Drying and Storage Conference at Texas Tech Wednesday and Thursday (March 2-3).

Dines will also participate on a panel about fumigation. There will be five other panels on grain drying, grain aeration, grain storage-structures, fans-controls-instruments and merchandising.

Topics to be discussed at the two-day conference meeting in the Tech Union will include "Failures in Grain Storage Facilities," "Man Against Insect," "Domestic Merchandising," "Electronic Controls and Instrumentation," "Fire Prevention in Grain Driers and Elevators," and "Making a Stable and Dependable Grain Industry."

Dines is president of the Western Grain and Supply Co., Inc., the Western Grain Co. of Amarillo, Inc., and the Amarillo Grain Exchange. He is manager of the Amarillo Grain Co. and the United Grain Co.

The son of a Colorado flour milling family, Dines received his B.S. degree in agronomy at Colorado State College, and his M.S. degree in agronomy and milling industry at Kansas State College.

From 1938 to 1940, he was an agronomist with Oklahoma State College. Then he moved to Texas to head the Texas Wheat Improvement Assn. During World War II, he was a Naval officer in the Civil Affairs program on Agriculture and later served as a gunnery officer on an aircraft carrier.

Following naval service, Dines continued the Texas wheat improvement program through employment by the grain trade and Texas A&M College extension service.

In 1950, he entered private grain business and has since added a wholesale agricultural chemical and grain fumigant business to the Western Grain and Supply Co. in Amarillo.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN. FARM EDITORS

LUBBOCK, --Texas Tech's Agronomy Club will hold its 23rd annual club banquet Saturday, March 12.

Texas Tech graduate Wilmer Smith is guest speaker for the event scheduled at 7 p.m. in the Tech Union.

A nationally-known Lynn County cotton farmer, Smith is a member of the Executive Committee of the Texas Ginners Assn. and is director of the Central Bank for Cooperatives in Washington, D. C.

Smith also serves as president of Plains Cooperative Oil Mill, president of the Board of Directors for the New Home Cooperatives Gin and president of the American Cotton Producers Assn.

Members of the 1959 National Champion Intercollegiate Crop Judging team will be honored at the banquet. The team recently won the national crop judging contest at Kansas City, Mo. and set an all-time high score in winning the meet. Tech crop judges have won both the national and international contests for five consecutive years, a feat not accomplished by any other group.

Team members attending the banquet include; Lubbock senior agriculture majors Eugene Coleman, Mike D. McDonald, and Dean Edwards, also senior agriculture major from Hereford, Glenn Robison.

Cecil Ayers, associate professor of agronomy at Tech is coach for the winning group.

####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTENTION MUSIC EDITORS

FOR SUNDAY

LUBBOCK, --Texas Tech's Red Raider Band will make a three-day tour of the Texas Panhandle March 21-23, then return to Lubbock for a concert March 27.

Director Dean Killion said the 84-member organization will play at least seven concerts during the tour. Each program will range from traditional to contemporary band music and will be played at a high school.

Soloists will include Richard Tolley, trumpet; and Keith McCarty, clarinet; both faculty members. A baritone trio of Phil Anthony, Amarillo; and Bob Ray and Clifford Bates, both of Lubbock, also will be featured.

On March 21, the band will play in Littlefield at 9 a.m., Olton at 2 p.m., and Tulia at 8 p.m. March 22 concerts will include Tascosa (Amarillo) at 9:30 a.m., Dumas at 2 p.m., and Hereford at 8 p.m.

March 23 concerts will include appearances at Palo Duro (Amarillo) at 9 a.m., Amarillo High at 10:30 a.m., and Plainview at 3 p.m.

The Lubbock concert will be at 3 p.m. Sunday, March 27, in Municipal Auditorium. A highlight will be the premier of a brass and percussion band. The 38-piece experimental group will play several numbers and will join the regular concert band in the finale.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

CAPTION

GETTING READY FOR THE ROAD is Texas Tech Band sweetheart Deana Ward of Wilson. She's packing uniforms for a three-day concert tour the Tech Band will make March 21-23. The trip will include appearances in Littlefield, Olton, Tulia, Dumas and Amarillo. The band will follow the tour with a Lubbock appearance March 27 in Municipal Auditorium. (Texas Tech Photo)

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###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Some 300 persons are expected for the first session of the sixth annual Grain Drying and Storage Conference today (Wednesday) and Thursday at Texas Tech.

Eight topics will be discussed by guest speakers at today's meeting. Grain drying, aeration and storage-structures will be subjects of three panel discussions at 3 p.m. this afternoon.

The conference will continue Thursday with eight talks and three panel discussions by authorities in the field of grain drying and storage.

At 9:10 a.m., Ray B. Bowden will speak on "Another Mile." Bowden is secretary-treasurer of the Texas Grain and Feed Assn., Fort Worth. "Failures in Grain Storage Facilities" will be presented at 9:40 a.m. by W.F. Weiland, professor of mechanical engineering at the University of Nebraska, Lincoln, Neb.

At 10:40 a.m., Uel A. James, engineer with the James Brothers Construction Co., Oklahoma City, Okla., will speak on "Concrete in the Construction of Grain Storages." "What We Know and Don't Know About Grain Storages" will be told by W.V. Hukill at 11:10 a.m. Hukill is an agricultural engineer from Iowa State College.

Dr. L.E. Loveless, of Monsanto Chemical Co., St. Louis, Mo., will speak at 1 p.m. on "Holding Wet Grain."

The second speaker of the afternoon session, Charles Storey, will discuss "Man Against Insect." Storey is with the Agricultural Marketing Service at Manhattan, Kan.

Dr. Gerald W. Thomas, dean of the School of Agriculture at Tech, will tell about "Marketing Feed Grains in Greece" in a 1:30 p.m. speech.

The concluding speech of the afternoon session will be given at 2 p.m. by Warren LeBourveau, general manager, Mathis Grain and Elevator Corp., Mathis. His topic will be "After Grain Storage -- Then What?"

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Texas Tech's ROTC rifle team has been selected as one of the teams to represent the Fourth U.S. Army in nation-wide ROTC small-bore matches slated this month.

Fourth Army headquarters announced Thursday that the Tech riflemen placed fourth among 35 ROTC teams from colleges and universities in Texas, Oklahoma, Arkansas, Louisiana and New Mexico.

The Tech sharpshooters outpointed all of the other Southwest Conference teams participating, including Texas A & M, Texas Christian University, Arkansas, Rice and the University of Texas, Capt. R.E. Cavazos, team sponsor, said.

Tech team members are Leon Ward of Lubbock, Tommy Starnes of Brownfield, James McCluer of Dallas, Irby Range of Texico, N.M., Gordon R. Brown of Mathis, Paul Kotter and Charles Alford of Fort Worth, Wesley Coggins of Dallas, Gerald Kirby of San Antonio, and Harry Marsh of El Paso.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

FOR SUNDAY

LUBBOCK, -- Persons who purchased seat options in Texas Tech's expanded Jones Stadium during 1957-58 must make final payment on them by April 1.

In an announcement reminding purchasers of the deadline, Tech's Acting President R.C. Goodwin also emphasized that Tech must have the money to keep the expansion project on schedule.

"Now that the east stand of Jones Stadium has been moved, the press box and Athletic Building completed, and the playing field partially excavated, the end of the stadium project is in sight," he said.

Tech is pledged to expand Jones Stadium from 27,000 seats to 40,000 or more.

"Work is progressing properly for completion of the big job by next September, as agreed when Texas Tech was admitted to the Southwest Conference," Dr. Goodwin continued.

He warned, however, that the stadium project is in serious trouble if pledges on seat options purchased in 1957-58 are not completely paid as agreed.

"We must meet construction costs each month on a pay-as-we-go basis and funds now on hand will carry us only through April 1," he explained. "Beyond that point -- from April through August -- we must meet further costs of \$598,300 to finish the stadium project."

Receipts on options purchased in 1957-58 have lagged behind schedule, Dr. Goodwin said.

###

Original

LUBBOCK, March -- Forty-two Texas Tech students made a 3.00 (A) grade-point average for the 1959 fall semester, the Tech registrar's office has announced.

Those making "straight A's" include:

CLAIRETTE -- James D. Marshall, senior agriculture major.

COLEMAN -- Sandra Cox, junior arts and sciences major.

COLORADO CITY -- Jane Merritt, sophomore arts and sciences major.

COTULLA -- Mary Sue M. Black, senior arts and sciences major.

DUMAS -- Dahlia L. Brazell, sophomore arts and sciences major.

EL CAMPO -- Merrill C. Swanson, senior agriculture major.

EL PASO -- Jeanette Duncan (3515 Murray), senior arts and sciences major.

ENNIS -- Gayle E. Emmert, junior arts and sciences major.

FORNEY -- Sarah A. Pinson, senior arts and sciences major.

GROOM -- Jimmie L. Eschle, senior agriculture major.

GUSTINE -- James K. Pettit, senior agriculture major.

JACKSBORO -- Dorcas A. Pettigrew, freshman arts and sciences major.

LUBBOCK -- Charles L. Buchanan, junior engineering major; Don L. Cannon, junior engineering major; Walter Carl Cooley, freshman engineering major; Lenora K. Copeland, senior business administration major; Leona Ford Dale, junior arts and sciences major; Linda J. Dennis, junior arts and sciences major; Dwain G. Fuller, sophomore arts and sciences major; William S. Gill, senior agriculture major; Marjorie Lins, senior arts and sciences major; Michael D. McDonald, senior agriculture major; Alida I. Weathers, junior arts and sciences major; and Evangeline L. Young, freshman arts and sciences major.

MEMPHIS -- Billie S. Smith, senior arts and sciences major.

MULESHOE -- Ray Reed Vinson, Jr., sophomore arts and sciences major.

ODESSA -- Robert W. Gross, sophomore engineering major; Roger G. Sewell, senior arts and sciences major.

PECOS -- Wesley H. McCree, senior business administration major.

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2--Honor Roll

SAGERTON -- Lynell E. Fouts, junior home economics major.

SLATON -- William E. Clark, freshman arts and sciences major.

STAMPS, ARK. -- James Leon Ward, junior engineering major.

SUDAN -- Carolyn G. Watkins, senior arts and sciences major.

SULPHUR SPRINGS -- Norman S. Morris, junior arts and sciences major.

SWEETWATER -- R. Dell Greer, senior engineering major.

THALIA -- Gaylon Boyd Whitman, senior engineering major.

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for HT's

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: Farm Editors

LUBBOCK, March --Fred W. Rabe, Dallas engineer, was named president of the 1961 Grain Drying and Storage Conference at the closing session of this year's meeting Thursday at Texas Tech.

Other new officers for the seventh annual conference slated next March on the Tech campus are F.N. Robinson, Lubbock engineer, and Jack Brown of Lubbock, first and second vice-presidents respectively; Bill Morrison, Lubbock insurance man, treasurer; and Fred Dines, 1960 conference president, program chairman.

Prof. Ira Williams, Tech agricultural engineering department head, will continue as program consultant, and Paul Furr of Lubbock will remain as finance chairman.

Dr. Earl Collister of the High Plains Foundation near Plainview, was named to the conference board of directors.

More than 250 grain elevator and warehouse storage operators registered for the two-day meeting held in the Texas Tech Union building.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

Five Texas Tech engineering students have received scholarships from two Fort Worth business firms amounting to \$2,350, Robert L. Newell, assistant dean of engineering, has announced.

The B. and H. Instrument Company has awarded a \$250 scholarship to each of the following seniors: Gilbert Allen Branchflower, electrical engineering major, Lubbock; Daniel Rowe Dunn, mechanical engineering major, Big Spring; Robert Franklin Gaskill, mechanical engineering major, Wichita Falls; and Gaylon Boyd Whitman, electrical engineering major, Thalia.

Thomas C. Tillotson, sophomore electrical engineering major, Carlsbad, N.M., is the recipient of the Lawrence D. Bell Memorial Scholarship.

This scholarship, awarded by Bell Helicopter Corp., will amount to \$350 for the remainder of the year and will be continued through Tillotson's junior and senior years at \$500 annually if he maintains his scholastic record.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

LUBBOCK, March -- A library of plant specimens -- known as a herbarium -- is now housed in Texas Tech's biology department for use by student and professional botanists and agronomists.

Chester M. Rowell, Jr., assistant professor of biology, who recently completed recataloging and systematically arranging the plant library, said the herbarium contains approximately 7,000 mounted specimens.

"It is the only complete collection of flora from the Panhandle-South Plains region," Rowell said. "This includes an estimated 400 specimens of flowering plants native to this area."

The botanist pointed out that herbariums are becoming increasingly important in natural science because of increased urbanization and cultivation of land.

"The livestock, plows and other machinery of modern Americans have so altered the vegetation that in some states, such as those in the corn, wheat and cotton belts, only scattered fragments of the native flora exist today," he noted.

In many cases, these plant libraries have the only specimens of certain species of plants that once existed in a particular area. Often, these plant specimens were collected by early explorers and carefully preserved by natural history museums.

The Tech herbarium is housed in steel lockers with each specimen permanently bound on sheets of rag-content paper with a plastic cement. They include plant material gathered the first year Tech was in operation -- 1925 -- and specimens from recent field trips throughout the area and in surrounding states.

(More)

"Herbarium such as this permits research by junior and senior botany students, serves those doing research in natural flora and range management, and is an accurate reference source for identification of plants sent to the biology department for that purpose," Rowell said.

"This collection -- dated and classified -- will also serve as a reference point to help indicate what the trends in vegetation will be over the years," he added.

While Rowell has concentrated on flowering flora of the area, Dr. Paul Prior, associate professor of biology, has been collecting and doing research on the moss and liverwort flora of the Panhandle-South Plains area.

A flora collection has also been set up by Rowell at the State Game and Fish Commission station on the Gene Howe Wildlife Management Area near Canadian. The collection includes approximately 1,000 plant specimens.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: FARM EDITORS

LUBBOCK, March ---More than 200 grain warehousemen and storage operators are attending the sixth annual Grain Drying and Storage Conference that opened Wednesday at Texas Tech.

Management and marketing, as well as safety engineering problems held the spotlight in the first sessions of the two-day meeting.

A Mathis grain and elevator manager, Warren LeBourveau, predicted that a combination of conditions are developing which will result in a decrease in the need for grain storage space.

For those who continue in the business, management will become increasingly a more important factor of success or failure, he stated in relating the varying problems the successful grain storage operator must solve.

An unscheduled speaker on the Wednesday program was Walter Blanton, president of the Texas Grain and Feed Assn., from Carrollton who outlined 25 points of difference between warehousemen and the Commodity Credit Corp.

The very methods used to preserve grain, and conditions that cause deterioration of grain, may also lead to structural collapse of the grain storage facility, W. F. Weiland, consulting engineer from Lincoln, Neb., said in discussing failures in grain storage facilities.

Weiland pointed out that both organic gases from decaying grain and chemical fumigants to hinder bacterial, insect and vermin infestation can contribute to explosive situations.

Weiland advised that "strict observance of a basic principle: keep the concentration of dust below the lower limit of inflammability to minimize the trouble from this source."

Grain storage operators may some day have vacuum drying, infrared radiation or high frequency electric fields, to work with, but until these have a practical application, practically all grain driers will continue operation with the circulation of air through a bulk of grain. W. V. Hukill, agricultural engineer with the U. S. Department of Agriculture at Ames, Ia., said:

Speaking on "What We Don't Know About Grain Drying," Hukill noted that the two classes of grain drying include: (1) in-storage drying where the grain remains in place after drying, and (2) batch drying, in which high temperature air is used.

"Quality of grain after drying may be affected by the way it is dried," he said. "Grain dried in storage may be damaged by mold, when drying is done too slowly. And, batch driers may damage grain by drying it too rapidly or at too high a temperature."

Hukill said research on the process by which the moisture in a kernel is vaporized, moved to the surface and expelled into the air has resulted in a great deal of literature on the subject.

"However, it is still poorly understood and both the drier designer and grain storage operator must depend pretty much on observation to estimate how long it takes for a kernel to dry," he commented. "More aspects of drying are subject to computation, however, and both design and operation are less and less matters for educated guessing. #####

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

ATTN: SCIENCE EDITORS

LUBBOCK, March -- Dr. Wallace R. Brode, science advisor to the Secretary of State, will lecture before Texas Tech chemistry faculty and graduate students at 8 p.m. Tuesday (March 8).

The distinguished scientist is being sponsored at Tech by the Robert A. Welch Foundation of Houston, said Dr. Joe Dennis, chemistry department head at Tech.

Dr. Brode, whose special fields include organic structure, color, optic activity, dyes and spectroscopy, will lecture on "Steric Effects in Dyestuffs." It will be delivered in room two of the Chemistry Building.

As a long-time research scientist, Dr. Brode is personally interested in a national science policy to prevent overlapping expansion and growth of government programs in space, defense, atom energy and medical research.

Brode is a native of Walla Walla, Wash., and earned a B.S. degree at Whitman College in 1921. He received M.S. and Ph.D. degrees from the University of Illinois in 1922 and 1925. He studied in Europe as a Guggenheim Fellow from 1926-28.

He served on the Ohio State University chemistry faculty from 1928-48, during which time he gained recognition as an educator, lecturer, writer, editor and administrator in American and international science.

He is author of Chemical Spectroscopy and co-author of a number of standard reference books. He and his co-workers have published more than 100 papers in American and European scientific journals.

Currently, Brode is on the Board of Directors of the American Chemical Society, Scientific Research Society of America and Optical Society of America. He was the 1959 president of the American Assn. for the Advancement of Science and is now chairman of the association board. He also serves as editor of the Journal of the Optical Society of America.

###

Department of Public Information
Texas Technological College
Adrian Vaughan, Director

LUBBOCK, March -- Tony Gibson of Lubbock will represent the Texas Tech chapter of the American Society of Civil Engineers at a national convention in New Orleans March 7-11.

Cliff H. Keho, associate professor of civil engineering at Tech, will also go to the convention as representative for the High Plains branch of the ASCE.

Civil engineers from all over the U.S. will hear some 100 technical papers delivered by professionals in five different fields of civil engineering.

Other activities include field trips in different phases of civil engineering and a chartered yacht tour of the harbor. The ASCE student chapter at Tulane will be host for the convention.

Gibson is the son of Mr. and Mrs. Everett D. Gibson, Farmington, N.M., and is a senior civil engineering major.

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