

Sept. 24-28, 1979

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# Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136  
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Carole Machol

LUBBOCK--The Hill family of 3642 Hunters Hill, Abilene, has a reputation for standing out in the crowd. Charlie Hill, a Texas Tech sophomore, doesn't intend to be an exception.

As a freshman, Hill was vice president of Freshman Council, a member of the Business Administration Council, Murdough Hall Council, a Senate aide and a member of Phi Eta Sigma, honorary freshmen who make above a 3.5 grade point average.

In June, Hill was named recipient of the James G. Allen Award for outstanding achievement during his freshman year. In order to retain his scholarship, Hill is expected to take 15 hours with no pass-fail credits and maintain at least a 3.0 G.P.A.

Already this semester, Hill is vice president of Murdough Hall, Freshman Council supervisor, BA Senator, co-chairman of the Administration Council for Phi Eta Sigma, chairman of Student Life Committee of Residence Halls Association, vice-chairman of University Life Committee and is vying for a position with Texas Tech's Good Sportsman League.

As a freshman, Hill was a third generation Texas Tech student. Hill's grandfather, Volney Hill, played football for the Raiders when the University fielded its first team in 1925 and played through 1928. Volney was installed in the Texas Tech Hall-of-Fame for both football and baseball.

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Hill's father, Buddy, was a Raider quarterback from 1953-57. Buddy was the first son of a Texas Tech letterman to letter in a varsity sport. Hill's mother also was graduated from Texas Tech in 1958.

Hill's decision to come to Tech was not because his parents were graduated here, but to get away from home. When Hill was deciding on a college, he was still living in Beaumont and thought the University of Houston was too close to home. The University of Texas was too big and Texas A&M University was "just A&M."

When Hill is not busy going to his meetings and committees, he finds time in his schedule to run or jog. "I'm an avid jogger. I run five miles every night. It's a nice run."

Besides running, Hill enjoys drawing and snow skiing. He would like to know more about art. He says, "I can do it but I haven't taken the opportunity to learn it better. It's like a gift and if you don't use it, you'll lose it. I've always wanted to learn things I never knew I could do."

With that concept in mind, Charlie Hill should have a great future in store for himself.

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CONTACT: B. Zeeck

LUBBOCK--"Inner Dimensions of the Sea Shell," an exhibit on view at The Museum of Texas Tech University on Sept. 29-Nov. 11, is an unusual collection of 50 pairs of photographs which practically turns sea shells inside out.

A color photo of an actual shell is juxtaposed to an X-ray photo of the same shell. Shells usually admired for the beauty of their exterior surfaces are shown to have exquisite interior structures with architectural and topological subtlety.

Radiologist William A. Conklin has combined professional training, his hobby of shell collecting and his photographer's eye in this collection.

He has photographed shells discovered on Florida's Sanibel Island, a special haunt of collectors, and those found at other locations.

His photographic work has been displayed at the Smithsonian Institution and at other museums and galleries, but this is his first traveling exhibition. It is circulated to museums by the Association of Science-Technology Centers. In Lubbock it is sponsored by the West Texas Museum Association.

The hidden architecture of sea shells has been compared to the forms of multi-level parking garages, spiral staircases and highway interchanges, but it is nature's artistry hidden from man until Conklin's photographic expertise could turn the shells inside out.

The Museum's exhibits are free. Hours are 8:30 a.m. to 4:30 p.m., Monday through Friday, and 1 to 4:30 p.m., Saturday and Sunday.

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CONTACT: B. Zeeck

LUBBOCK--A lecture on the authentic and lively record George Catlin (1796-1872) painted of early America will open the fall series of art seminars at The Museum of Texas Tech University. The lecture will take place at 10 a.m. on Tuesday (Oct. 2) in The Museum.

Rabbi Alexander Kline is in his nineteenth year of presenting the seminars. The fall series of 10 lectures will be on "Nineteenth Century America."

The seminars are sponsored by the Women's Council of the West Texas Museum Association. The cost is \$10 for the series for council members, \$12.50 for non-members and \$5 for Texas Tech students. Dr. Kline has made a lifelong study of art, and his lectures are illustrated by prints from his collection of more than 100,000.

In addition to Catlin, considered the dean of American Indian painters, the 1979 fall series will include lectures on Eastman Johnson, George Inness, Currier & Ives prints, James A. M. Whistler, Winslow Homer, Mary Cassatt, William M. Harnett, American architecture and American sculpture.

All lectures take place at 10 a.m. on successive Tuesdays, Oct. 2-Dec. 4. Registration will take place and coffee will be served at 9:30 a.m.

The Museum has displayed several Catlin prints. While many artists went west to paint the life of the Indians, none left a more authentic record. Catlin saw his first Indians when a delegation of chiefs visited Philadelphia en route to Washington. They made a deep impression on him.

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catlin/add one

"The history and customs of such a people," he wrote, "preserved by pictorial illustrations, are themes worthy of the lifetime of one man, and nothing short of the loss of my life shall prevent me from visiting their country, and of becoming their historian."

He lived eight years with the Indians of the Great Plains, recording in hundreds of drawings and paintings the customs and habits of various tribes.

The Museum collection includes "Buffalo Hunt (No. 12), Chasing Back." It was purchased by the West Texas Museum Association. The Lubbock Chamber of Commerce owns other Catlin prints which have been exhibited at The Museum.

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CONTACT: B. Zeeck

LUBBOCK--The linsey-woolsey described in history books, a goffering iron like the one the first Queen Elizabeth's dressmakers must have used for her neck ruffs, and patterns for the elegant dresses of an earlier America are on display at The Museum of Texas Tech University.

"Pins, Patterns and People" is an exhibit of early dressmaking tools, materials and patterns, but the exhibit also demonstrates dressmaking methods. A progression of sewing machines, showing one of the earliest models along with a modern computer model, is on display.

Early handmade pins, treasured by seamstresses because of their cost, are included in the exhibit. The half-muslins in the exhibit were constructed by students of clothing and textiles in Texas Tech University's College of Home Economics. Half-muslins are half of a garment made of cheap muslin fabric. Before patterns were standardized, women cut patterns from old garments and constructed half a garment of cheap fabric to be sure the pattern would fit. Once sure that the pattern was correct, it would be used on the silk or other finer fabric that the woman intended to wear.

The history of the sewing machine also is chronicled in the exhibit. It was invented by Barthelemy Thimonier of France in 1830, but workers who feared it would steal jobs destroyed his equipment. The American, Elias Howe, improved on Thimonier's design in 1846.

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Issac Singer patented refinements on their inventions, and his machine became famous. It was not common for home use, however, until after the American Civil War.

Patterns for men's garments came before patterns for women's wear. Betty Mills, curator of costumes and textiles at The Museum, explained that so many men served in the military and sizing was necessary for supplying uniforms, so men's sizes were standardized early. Women's dimensions were less well known.

Ebenezer Butterick, however, is credited with developing the first sized patterns for women, and these were introduced in 1863. (cq)  
The idea caught on and magazines, like "Harper's Bazar," published pattern supplements in each issue. These were large pages of intermingled lines. The dressmaker would have to decide on one of the numbered lines, trace the pattern and then construct the garment.

The exhibit ends with a 1979 disco dress made especially for the show.

Admission to Museum exhibits are free. Hours are 8:30 a.m. to 4:30 p.m., Monday through Friday, and 1 to 4:30 p.m., Saturday and Sunday.

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CONTACT: B. Zeeck

LUBBOCK--The "one small step for man; one giant leap for mankind" that Neil Armstrong took on the surface of the moon was possible only because of events that began billions of years ago.

"Footsteps" is a Moody Planetarium presentation explaining the origins of the solar system, the development of the earth and the moon's history. Included are fact and myth, superstition, history and discovery.

The first moonwalk lasted only two hours and 31 minutes, the narrator explains.

"Neil Armstrong and Edwin Aldrin collected the first samples of lunar rock and soil -- a precious legacy of information that had been waiting billions of years to help man understand the turbulent early days of the solar system, a record that erosion long ago erased from earth."

The walk was, the narrator says, a reflection of the ingenuity and teamwork of earth people.

"For ages the moon has been the generous beacon of the night, an inspiration to the mind of man, the great natural museum of the solar system. And in the future the moon may give of herself again from the more than the 843 pounds of samples that the astronauts brought home. The moon may give to men from earth the materials to build new worlds -- new human settlements in space."

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planetarium/add one

The show at the planetarium was made possible by a grant from Rockwell International Corp. It will be shown at 2:30 p.m. weekdays and at 2:30 and 3:30 p.m. on Saturday and Sunday at The Museum of Texas University. Tickets are \$1 for adults and 50 cents for students. Planetarium shows are considered too advanced for preschool children.

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6-9-26-79

# Texas Tech News

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CONTACT: Chino Chapa

For suggested release Friday, Sept. 28, 1979

LUBBOCK--Harry Montgomery, editor of Texas Tech's first student newspaper, "The Toreador," will be posthumously inducted into the Texas Tech Mass Communications Hall of Fame as a major highlight of Mass Communications Week in February of next year.

Mass Communications Chairman Billy I. Ross announced Montgomery's selection Thursday.

Pauline Montgomery, his widow, will be invited to attend the induction ceremony at a noon luncheon on Feb. 22, 1980.

Montgomery was associate publisher of "The Arizona Republic" and "The Phoenix Gazette," newspapers he served for 24 years. The two newspapers are the largest in Arizona. When he retired in June 1971, he ended a journalistic career that lasted almost half a century. Montgomery died Jan. 19, 1979, at the age of 76.

Before he settled in Arizona, his journalistic work included stints with the Associated Press in Texas, Minnesota, North and South Dakota and the Arizona Newspaper Association.

Montgomery received awards from the University of Arizona, Northern Arizona University and the Arizona Newspaper Association. He also was one of the few journalists selected to cover the first atomic explosion at Alamogordo, N.M.

When Texas Technological College opened in 1925, Montgomery made an agreement with Paul Horn, the president, to publish the official newspaper, the "Toreador." He became editor of what is

now "The University Daily." Montgomery also became Texas Tech's first public relations director.

To qualify for induction into the Mass Communications Hall of Fame, nominees must be alumni who have distinguished themselves in the field of mass communications or persons who have distinguished themselves in mass communications and have specifically aided the educational programs in mass communications at the university.

Montgomery was selected to receive the honor by the Mass Communications faculty, Mass Communications Student Advisory Committee and the Mass Communications Advisory Committee.

Past inductees include: Don Belding, 1973, national advertising agency executive; Joe H. Bryant, 1973, Lubbock radio and television broadcaster; Wallace E. Garets, 1974, former chairman of the Journalism Department at Texas Tech; C.W. Ratliff, 1975, Lubbock newspaper and television news editor and director; L.U. Kaiser, 1976, Houston direct mail and advertising executive; J. Culver Hill, 1977, Lubbock department store advertising director and marketing specialist; Wendell Mayes Jr., 1978, Austin radio broadcasting executive; and Wayne Sellers, 1979, Palestine "Herald-Press" publisher and editor and former president of the Texas Daily Newspaper Association.

Cutline-----

SEA SHELL--Thatcheria Mirabilis appears to have different dimensions outside and inside. The inner dimensions are revealed by X-ray photography. An exhibit, "Inner Dimensions of the Sea Shell," is on display at The Museum of Texas Tech University through Nov. 11. It includes 50 pairs of photographs in which a color photo is juxtaposed to an X-ray of the same shell, revealing inner structure.

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9-9-26-79

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For Distribution to University Daily Only

Contact: Jane Brandenberger

LUBBOCK--Texas Tech kicks off the 1979 United Way campaign at noon today in the University Coronado Room in an effort to meet their goal for the first time in six years.

This year's goal of \$50,000 will be discussed at today's luncheon honoring the 175 Tech faculty and staff volunteer workers. Joe L. Price, Lubbock United Way campaign chairman, and Dr. Lawrence L. Graves, Tech campaign chairman, will address the group.

Dr. Graves today announced his campaign cabinet, which includes:

Clyde E. Kelsey Jr., campaign vice chairman; Dr. Richard A. Lockwood, George S. Tyner and Teddy Langford, vice chairmen for the Health Sciences Center; Jane H. Brandenberger, W.B. Harris Jr., Betty V. Massey and James Melton, support services staff.

Coordinators and their goals are Dr. Jerry D. Ramsey, Academic Affairs, \$28,275; Bill G. Daniels, Finance and Administration, \$5,305; Dr. Moses Turner, Student Affairs, \$2,615; George M. Fielding, President's Office/Development Office, \$1,255; Robert L. Bray, Planning, \$485; Dr. Thomas A. Langford, Research and Graduate Studies, \$580; W.B. Harris Jr., Health Sciences Center, \$11,485; Gary Hanson, Student Activities, \$1,000; and J. Roy Wells, Retired Faculty & Staff, \$1,000.

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In a letter distributed to faculty and staff earlier this month Chairman Graves commented, "In recent years the financial contributions of Texas Tech and the Health Sciences Center to United Way campaigns have not matched our professional contributions. Many of us have served on UW committees and have worked closely with UW agencies. But when campaign reports of contributions are made, Texas Tech is always far below those of comparable institutions. I'm sure this is a record we do not wish to hold."

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CONTACT: B. Zeeck

LUBBOCK--Happy VI, black quarter horse mount of Texas Tech's Red Raider, will not make it to the game against Baylor in Waco Saturday (Sept. 29).

"He showed up lame after the last game, and we're just not satisfied that the leg has completely healed," said Dr. Robert C. Albin, chairman of the Red Raider Committee.

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11-9-26-79

Cutline-----

FIRE ANT RESEARCH--The fire ant research program at Texas Tech University employs five graduate students in entomology to conduct the investigations. Picture shows Carla Pinson and Dr. James Wangberg, entomology professor, working on separation of soil samples. Carla is the daughter of Mr. and Mrs. David Pinson, 702 15th Street, Abernathy. (TECH PHOTO).

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12-9-27-79

Cutline-----

FIRE ANT--The fire ant research program at Texas Tech University employs five graduate students to conduct a part of the investigations. Picture shows James V. Moody, right, and Michael L. Bishop of Floydada discussing research methodologies. James is the son of Mr. and Mrs. James G. Moody, 407 Kaufman, Forney. (TECH PHOTO).

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13-9-27-79

Cutline-----

FIRE ANT--The fire ant research program at Texas Tech University employs five graduate students to conduct a part of the investigations. Picture shows Michael L. Bishop, left, and James V. Moody of Forney discussing research methodologies. Michael is the son of Mr. and Mrs. Howard G. Bishop, Route 2, Floydada. (TECH PHOTO)

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14-9-27-79

Cutline-----

FIRE ANT--The fire ant research program at Texas Tech University employs five graduate students in entomology to conduct the investigations. Picture shows Rick Beckham, sitting, and Dr. Daniel P. Bartell, entomology professor, getting ready to examine ant tissues for identifying possible diseases that could be used to control the ant. Rick is the son of Mr. and Mrs. A.B. Beckham, Gaithersburg, Md. (TECH PHOTO).

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15-9-27-79

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CONTACT: Carole Machol

LUBBOCK--Dean K. Whitla, visiting lecturer from Harvard University, will discuss the topic, "Texas Tech versus Harvard: Personal Growth, Intellectual Mastery, Football -- Who is the Winner?"

Sponsored by the College of Education at Texas Tech University, the lecture is open to all interested students, faculty and public on Oct. 4 at 2 p.m. in the Coronado Room of the University Center.

"His presentation will be interesting, informative and entertaining," said Texas Tech's Education Dean Robert H. Anderson, who announced plans for the Harvard professor's visit. "It is our hope that as many city and area school people as possible will be able to hear him." Anderson described Whitla as one of the nation's greatest educators.

In addition to his lecture, Whitla will meet with the Jones Fellows in a seminar. The Jones Fellows are doctoral candidates in the College of Education who are supported by a grant from Lubbock benefactor Helen DeVitt Jones. Following the seminar Whitla will confer with college faculty on the "Value Added Project," which consists of a comparative study of freshmen and senior students. Tests will be given to both groups to ascertain which aspects of the undergraduate experience contribute to young people's development in intellect, problem-solving, morals and social skills, as well as creative imagination.

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At Harvard Whitla is director of the Office of Instructional Research and Evaluation, lecturer on education and psychology and social relations, associate director of Admissions at Harvard and Radcliffe College and director of the Harvard-Danforth Center for Teaching and Learning.

Whitla received the Bachelor of Science degree in 1949, Master of Arts in 1950 and Ph.D. in 1957, all from the University of Nebraska.

Whitla has written numerous papers on education, including effects of tests on students, admissions to colleges and encounters with learning.

He also has written handbooks dealing with introducing, improving and maintaining innovative science activities at the elementary level, social studies tests, and the role of the college board.

Cutlines-----

STAINED GLASS--Prof. Robert G. Venn of the Texas Tech University architecture faculty works on a stained glass window which eventually will be installed in the First Presbyterian Church, Plainview. Two of the windows have been commissioned as a memorial to the late H.M. Gebo of Plainview, a member of the church. They will be installed over exterior doors leading to the narthex.  
(TECH PHOTO)

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20-9-27-79

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CONTACT: Claire Brewer

LUBBOCK--With government's rapid growth and increasing indebtedness, Dr. Robert J. Freeman foresees a "career explosion" in the expanding new area of governmental accounting.

"Governmental accounting is clearly one of the fastest growing fields and is just now being recognized," said Freeman, distinguished Professor of Accounting at Texas Tech University.

"There is a push for government to be more efficient and economical, to be managed in a more business-like manner."

Recently named Distinguished Professor, Freeman is internationally known for his work in governmental accounting.

This field encompasses financial management, accounting, reporting and auditing of the non-business sector, which includes both governmental and non-profit organizations.

Working primarily with state and local governments in an advisory capacity, Freeman assists clients in reporting and auditing financial records.

The professor served as consultant to the mayor and deputy mayor of New York City when it was experiencing severe financial difficulties.

At Texas Tech Freeman teaches an undergraduate course, "Public Sector Accounting." He is co-author of the leading text in that field. He also teaches a graduate seminar on that subject.

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"My role is to establish Texas Tech, both in fact and in reputation, as a center of excellence in governmental accounting," the Distinguished Professor said. He plans to accomplish this through teaching and research.

Freeman enjoys volunteer work, he says, especially his work on the National Council on Governmental Accounting (NCGA). Consisting of 21 members from across the nation, NCGA sets standards for how state and local governments should do their reporting.

Freeman received the B.S. degree from Louisiana Tech University and MBA and Ph.D. from the University of Arkansas.

Prior to coming to Texas Tech, he taught at the University of Alabama.

In 1976 Freeman resigned his position there to become a national partner of Arthur Young and Company in Chicago. Because of the time it took from his family and other interests, he decided to return to teaching.

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CONTACT: Prabhu Ponkshe

ATTN: Agriculture Editors

LUBBOCK--Collecting ants is not everyone's hobby, but for researchers at Texas Tech University, who have one of the world's largest collection of ant specimens, it is an extremely important exercise.

Entomologists at the Lubbock institution are studying the imported red fire ant, an agricultural and health threat, and the ant collection serves as a resource base for knowledge.

The collection, according to the researchers, will help in understanding the adaptive powers of all ants in West Texas. Then researchers can focus on the possibility of future establishment of one specific variety, the red imported fire ant.

The fire ant mounds are as hard as cement, and farm equipment, being driven against them unexpectedly, can be damaged. The health problem is serious for people who are sensitive to the ant's venom, as bites could be fatal.

The ant is moving westward at a rate of about 20 to 30 miles per year along a front from Dallas to Uvalde. Dr. Darryl P. Sanders, Texas Tech entomologist, is concerned that it could reach West Texas in the next decade.

But that depends on how well the ant can adapt to the dry and cold environment in West Texas and the Panhandle. Sub-zero temperatures have prevented the northward movement of the ant, and research during the next 12 months will attempt to determine the effect of hot and dry environments.

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Dr. James K. Wangberg, also a Texas Tech entomologist, said, "Soil types do not seem to affect the ant as it can adapt to a wide variety of soils. The ant has already infested more than 40 million acres in Texas."

Sanders and other researchers in entomology and biology are working on a continuing project to control the spread of the fire ant. The Texas Department of Agriculture (TDA) provided \$200,000 to Texas Tech in 1977 to begin a fire ant research program, and TDA Commissioner Reagan Brown recently announced an additional \$200,000 for the 1979-81 period.

Brown met with Tech researchers Tuesday (Sept. 18) and reviewed progress made during the last two years.

The research team, headed by Sanders, includes Drs. Wangberg, Donald Ashdown, Daniel P. Bartell, and Oscar P. Francke, all from the Department of Entomology. Dr. Stuart L. Pimm, Department of Biological Sciences, is also a principal investigator.

The ant collection, made by Bartell and Francke, represents ants from 8,000 nests and includes 140 species. The collection provides information on biology, habitat, food habits and behavior.

"Parasites, predators and diseases can be identified from the base knowledge to control ant populations," Bartell explained.

This red fire ant was unknown in the United States 40 years ago, but since its introduction near Mobile, Ala., in the 1930's, it has moved westward.

Density surveys conducted by Ashdown indicate that the fire ant is concentrated along highways and that areas five to 10 feet from the paved edge have particularly high populations and colony density.

"The fact that the ants are close to the highways is obviously important because the ant could move faster if it gets an accidental lift on commercial or other vehicles," Ashdown said.

A computer model is being developed to predict where the ant is going and how fast it will get there. Pimm, who is developing the model, continuously feeds new data from the other researchers into the model to improve its accuracy.

During the next two years the researchers will complete the collection of ant species; refine computer models; evaluate temperature, humidity and soil types as influencing factors; and screen the efficiency of biological and chemical control.

A virus specialist, Dr. Shanti Bilimoria, will be associated with the project in the second phase. He will grow pathogens (diseases) and innoculum to test on the ants. Dr. Robert Marlett, a park administration specialist, and Lawrence B. Zuercher, a landscape architect, will provide land use systems that will discourage fire ant establishment or at least concentrate ants in areas that could easily be treated.

Dr. Donald R. Haragan, an atmospheric scientist, will develop techniques for measuring and analyzing soil moisture and temperature regimes to predict future ant establishments.

Cutlines-----

ABERNATHY SPEAKER AT TEXAS TECH--Fred Kveton, left, of Abernathy spoke to a beginning class in Czech at Texas Tech University last week and answered questions from class members about his European heritage. For the special occasion in Dr. George Kent's class were three granddaughters of Kveton, all students at Texas Tech. They are, from left, Sandra, Jane and Julia Kveton, daughters of Mr. and Mrs. John Kveton of Abernathy. (Tech Photo)

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21-9-27-79

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CONTACT: Pete McNabb

LUBBOCK--Abernathy's own Fred Kveton was the visiting speaker at a beginning Czech class at Texas Tech last week. The 82 year old great grandfather spoke on his Czech heritage to students learning his native language.

Among those in attendance were three of Kveton's granddaughters; one is enrolled in the course.

Kveton first came to Texas in 1908 at the age of 11, after a three week trip that started in Bremen, Germany, and ended in San Angelo, Texas. He has since become a widely known West Texas who has assumed leadership roles in agricultural and civic activities and organizations throughout the area.

He served in both World Wars and received the Purple Heart for being wounded in action in France.

He has six children, 20 grandchildren, and two great-grandchildren.

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CONTACT: Pat Broyles

ATTN: Public Service Directors (Kill Dec. 1) AND REPLACE PSA DATED  
13/9/11/79.

ATTENTION, TECH STUDENTS! IF THOSE "D's" AND "F's" ARE STARTING TO ADD UP, IT MIGHT BE TIME TO CONSIDER HELP. THE OFFICE OF STUDENT LIFE IS OFFERING TUTORING PROGRAMS THAT JUST MIGHT MAKE THIS SEMESTER A SUCCESS! A FEW HOURS A WEEK COULD BE ALL YOU NEED TO TURN THOSE "D's" INTO "A's". SO CONTACT THE OFFICE OF STUDENT LIFE AT 742-2192 OR COME BY ROOM 163 OF THE ADMINISTRATION BUILDING. TUTORING COULD BE THE ANSWER FOR YOU.

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23-9-27-79

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CONTACT: Prabhu Ponkshe

ATTN: Agriculture Editors

LUBBOCK--For the 900 million people of mainland China, food may not be a problem today, but the country's ability to feed the population in the future will greatly depend on modernization of agricultural production.

That is the impression of a group of Texas Tech University administrators and faculty members who recently returned from a fact-finding trip to China. The visit, sponsored and paid for by the Chinese Association of Agricultural Sciences, was aimed at assisting the Chinese in identifying "technological gaps" in agricultural production.

China has followed an isolationist policy during the last 30 years, but the present government is attempting to make up the valuable time lost during the three decades.

Texas Tech staff and faculty who visited China during September were Drs. Charles S. Hardwick, vice president for Academic Affairs; J. Knox Jones Jr., vice president for Research and Graduate Studies; Samuel E. Curl, dean of the College of Agricultural Sciences; A. Max Lennon, associate dean for research of the College of Agricultural Sciences; Harold E. Dregne, director of the International Center for Arid and Semi-Arid Land Studies (ICASALS); and Robert M. Sweazy, director of the Water Resources Center.

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Dregne commented, "Current agricultural production in China is largely dependent on manual operations, and, although that provides enough food, the future can only be guaranteed through mechanization and modernization."

He added, however, that his comments were based on limited observations during the brief visit.

Dregne said that China will have to increase yields in the future, but it will not be possible with current resources.

"There is no new land to be developed, little if any unexploited water, and limited scope for expansion of irrigation, except in the remote areas of the far west."

A soil scientist, he also expressed concern about soil and water erosion problems.

"Sand dunes were once limited to the area north of the Great Wall, but today they can be found in regions south of the Wall. Wind erosion controls are mainly restricted to oases."

Water erosion, he explained, threatens productivity in the north-central region, especially in the loessial soils. Those soils, also found in Illinois and Indiana in this country, are high in productive capacity but equally susceptible to water erosion.

Sweazy, a water resources expert, emphasized that China needs to gather baseline data on the country's water resources, especially those underground.

"The Chinese are not aware of the potential life spans or recharge rates of underground water sources, and without such information it is practically impossible to plan for the future," Sweazy said.

The ground water sources in China, according to Sweazy, are polluted with industrial waste and there is an obvious need to upgrade the waste water treatments.

Ditch irrigation was the most common system of watering plants. He said that the local farmers could adapt sprinkler or gated pipes.

Lennon, who supervises agricultural research at Texas Tech, was concerned about lack of coordination between research and teaching at Chinese educational institutions.

"The research and teaching efforts at the universities we visited were separate entities with little interaction between the two," he said.

The Chinese also lack in research equipment and methodology.

Curl said that more than 80 percent of the Chinese labor force works on the farms and only 11 percent of the land is under cultivation.

"Manual operations cover every aspect of production, including planting, transplanting (for rice), harvesting, storage and land preparation for the next crop," he said.

In some cases machinery for land preparation is available, but those cases are limited.

Storage facilities need to be improved in China, as grain is currently stacked by the farm and dried and used upon demand.

Jones, who supervises overall research at Texas Tech, identified several needs in agricultural research.

"Local research is needed on improved varieties of drought and disease resistant crops, cropping sequences (for multiple cropping), short season crop varieties, and fertilizer and water use," he observed.

Hardwick noted that China needs extension programs to train farmers and students.

"Students from China could attend American universities but the language barrier will present a problem. Local dialects and Russian are the commonly spoken languages in China," he said.

During their two week trip, the Texas Tech officials visited with representatives of more than 80 universities and agricultural research stations at Peking, Xian, Wugung, Lanzhou, Shanghai, Canton and Suchow.

# Texas Tech News

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Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Dan Tarpley

LUBBOCK--Texas Tech University's Department of Health, Physical Education and Recreation (HPER) and Division of Continuing Education will conduct a workshop on "Rational Self Counseling" beginning Tuesday (Oct. 2).

Classes will meet from 7-8:30 p.m. on Tuesdays through Nov. 6 in Building X-15 on the Texas Tech campus.

Designed to help persons better cope with problems of everyday life, it is a non-credit course and there are no academic prerequisites. Enrollment is open to all interested persons. Fee is \$30.

According to instructor Paul A. Knipping, interim director of the Center for the Study on Aging and professor in the HPER department, rational self-counseling can minimize unpleasant emotions, reduce tensions, facilitate stress-management, aid in avoiding heart attacks and increase an individual's state of happiness.

The method can help persons become more productive, enjoy life to a greater degree and "it can measurably help those experiencing difficulties in marriage, divorce, drinking, smoking and in interrelationships with others," Knipping said.

Knipping will provide an understanding of the origin, maintenance and extinction of emotions, attitudes and beliefs. He will encourage participants to channel undesirable behavior into a supportive and useful direction.

For more course information contact Division of Continuing Education, 104 Administration Building, Texas Tech University, Lubbock, Texas 79409, telephone (806) 742-3797.

Oct. 5, 1979

DATE	Stories and Cutlines	Local	Reg. D	Reg. W	50 M's	Reg. R	x-lis	Adj.	Home to	Explanations
1-10-1-79	landscape Architecture	/	/							Pix. AT & UD, Bus. Editors in Dallas & Garland, Copy - Mertz & Zuercher
2-10-1-79	" "Cutline									AT & UD
3-10-1-79	Cutlines ROTC Scholarship Recipient									Send to hometown
4-10-1-79	" "									San Antonio
5-10-1-79	" "									Send to hometown
6-10-1-79	" "									Send to hometown
7-10-1-79	" "									San Bonito
8-10-1-79	" "									Austin
9-10-1-79	ROTC Scholarship Recipient Cutline									AT & UD
10-10-1-79	ROTC Scholarships									copies - AT, UD, military sci. files
11-10-1-79	Wheels on Wheels	/	/							Copy - MacCall, our files - Home Ec. & Food + Nutrition
12-10-1-79	Board of Regents Meeting	/	/							our files
13-10-1-79	PSA - Oct. 12									Copy - Carol Prior - UC, Cul. Events
14-10-1-79	PSA - Nov. 11									Local Radio, File - UC
15-10-2-79	Mummerschanz	/	/							Copy - Ron Johnson
16-10-2-79	Architect Exhibit	/	/							Local Radio, File - Planetarium
17-10-2-79	Centro to Controlled Thermonuclear Fusion	/	/							except AT, copies - UC, cultural events & major files the same
18-10-2-79	Ag. Engineer meeting	/	/							merque - Architecture
19-10-2-79	Bankers Conference	/	/							Copy - Elizabeth Sarsness
20-10-3-79	H.C. Harjes	/	/							Copy - Kristiansen, Hogler Engineering dist
21-10-3-79	Dr. Ulrich Koebel	/	/							Copy - Otto Schacht - Ag. Eng.
22-10-3-79		/	/							Copy - Wayland Bennett & N.Y. Bankers World & Bankers
		/	/							Copy - Kristiansen, IEEE Spectrum
		/	/							Copies - Zyla, Germanic & S. Lang & our files Mugs/local
		/	/							& Virginia Polytechnic & our files. Also story & mug w/ unit of Oregon

Oct. 1-5-79

DATE	Stories and Outlines	Local	Reg.	Reg.	50 M's	Reg.	x-lin	Adj.	Home	Explanations
22-10-3-79	Jean Wallace	/	/							our files - Jean Wallace Copy - Student Life Dept & Criminal Copy - J. Henderson & W. Higgins Bill Kerns of AJ only, <sup>museum</sup>
23-10-3-79	Eastman Johnson	/	/							
24-10-3-79	Dean K. Whitla	/	/							
25-10-4-79	Fingerprints	/	/							10 copies Sam, Menzel, Physics, Dr. J. G. Harty, our files Physics.
26-10-4-79	Ed + Laraine Warren	/	/							Copy - UC Activities & our files
27-10-4-79	Wesley W. Williams	/	/							Stamford American
28-10-4-79	H. B. Harkins	/	/							<del>Atte, Rising Star, Midland, Odessa,</del> <del>amarillo, Berger, San Angelo</del> Copy <del>Dean John R. Bradford</del>
29-10-4-79	Phillips Petroleum Gift	/	/							berger, Panhandle, Tampa, Amarillo, Perryton, Dumas, Midland, Odessa, San Angelo, Copy Dean John R. Bradford.
30-10-4-79	Cotton	/	/							Selected Ap. List
31-10-4-79	Tax Institute	/	/							our files - sample & TT Tax Institute Copy - Haskell Taylor, BA
32-10-4-79	Debate Tournament	/	/							Copy - Motuina & our files
32-10-5-79	Dairy Short Course	/	/							Copy Geymon, OK, Layne, Hobart, Hollis & Altus. Copy - Prof. W. Brian Gilmore

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CONTACT: B. Zeeck

LUBBOCK--If one test of a new teaching tool is in student approval, a new idea in teaching landscape architecture at Texas Tech University is passing with flying colors.

Manufacturers have been asked this year to bring samples to the campus and demonstrate the use of their equipment. One of the first demonstrations, for Weather-matic irrigation equipment, attracted more than 60 students the first day. Weather-matic is a division of Telsco Industries. Students are not required to visit the exhibit or talk to demonstrators. Their exploration of the possibilities available in irrigation equipment was voluntary.

The program was initiated by Dr. James D. Mertes, chairman of the Department of Park Administration and Landscape Architecture, and Instructor Lawrence B. Zuercher.

Zuercher said that they hoped 24 manufacturers would come to the campus this year to serve not only landscape architecture students but others in park administration, architecture and engineering. The interested public also is invited.

"This concept began with our class in construction," he explained. "We discovered that the students could have difficulty with construction projects simply because they didn't know enough about the kinds of equipment available. By asking manufacturers to come and demonstrate their wares, the students can do a more effective job of planning."

-more-

He said that this semester manufacturers will show and demonstrate graphic reproduction systems, recreation equipment, playground equipment and large playground toy systems for edging and other containment needs, a brick company, lighting equipment and techniques and equipment for handicapped people.

Some companies which will not send displays or representatives have offered to send valuable materials for the reference library.

We want the people who come, Zuercher said, to interact with our students, encouraging their creativity and the originality of their designs.

"We encourage the students to design creatively within the constraints of economic reality," Zuercher explained, "but they need to keep up with what is available in the market places. The manufacturers send current price lists with the demonstrations, and this helps students in making sound decisions."

He said that the student response has been better than expected and some manufacturers who could not send displays this year have indicated an interest in participating in the future.

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CONTACT: Jane Brandenberger

LUBBOCK--Several construction contracts and related items will be considered by the Texas Tech University Boards of Regents at the regular meeting on Friday (Oct. 5), 9 a.m., in the Board Room second floor, Administration Building.

Meeting first as the board for the Texas Tech University Health Sciences Center, the regents will consider two development policies, one concerning procedures for acceptance, evaluation and acknowledgment of gifts and the other for coordination of programs dealing with private sector support. These policies will also apply to the university.

The Campus and Building Committee will ask for authority to proceed with contract documents and receipt of bids for Phase III of the Regional Academic Health Center (RAHC) at El Paso and to proceed with planning for Phase II of the RAHC at Amarillo.

The Finance Committee will seek delegation of board authority for authorization and approval of expenditures from appropriated funds. This action will apply to the university, as well. The committee will also present a contract with the Amarillo Hospital District, which will provide for ten residency stipends, other costs related to the housestaff program and library support costs for services provided by the HSC library to the Amarillo Hospital District's School of Nursing.

Meeting as the board for the university, the regents will consider readoption of an academic workload policy, first approved in 1978 but inadvertently omitted from the newly formed Board Policy Manual. They will then discuss granting of emeritus appointments to distinguished professors.

The Public Affairs Committee will recommend acceptance of an anonymous donor's gift establishing the endowed Charles Sanders Peirce Professorship in Philosophy.

The Finance Committee will ask consideration of specification of officers or employees to sign checks and of a policy on selection of primary and secondary bank depositories.

In campus and building matters the board will be asked to award construction contracts for Women's Athletics dressing rooms in the Coliseum and for the final phase of the Goddard Range and Wildlife Management Building. Authority to proceed with planning for expansion of Jones Stadium offices for use by Women's Athletics will be sought. Selection of an engineer for Jones Stadium structure renovation and for approval of schematics and authority to proceed with contract documents for the Music Building addition will be discussed, as will be approval to proceed with renovation and improvement of the utility distribution system's north loop.

An executive session is planned for approximately 9:05-9:45 a.m.

Cutlines-----

NEW IDEA--Manufacturers are visiting the Texas Tech University campus this year, demonstrating their products for students who may one day want to incorporate them in a landscape design. The exhibits and demonstrations take place in landscape architecture classrooms, but students in other disciplines are invited to visit. Demonstrating irrigation equipment are, left, Donald L. Cooper and Alex Garza of Weather-matic Division, Telsco Industries. Dr. James D. Mertes, right, chairman of the Department of Park Administration and Landscape Architecture, worked with Instructor Lawrence B. Zuercher in developing the industry instruction program. (TECH PHOTO)

Cutlines-----

ROTC SCHOLARSHIP RECIPIENT--David S. Reid, a sophomore political science major at Texas Tech, is presented an Army ROTC scholarship by Col. Clayton Roberson. Reid is the son of Mr. and Mrs. Charles Reid of Richardson. The scholarship will cover tuition, fees, textbooks, and a living allowance of up to \$1,000 a year. (TECH PHOTO)

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3-1-10-79

Cutlines-----

ROTC SCHOLARSHIP RECIPIENT--Linda L. Stukey, a freshman horticulture major at Texas Tech, is presented an Army ROTC scholarship by Col. Clayton Roberson. Stukey is the daughter of Mr. and Mrs. Lloyd S. Stukey of 4211 Tallulah in San Antonio. The scholarship will cover tuition, fees, textbooks, and a living allowance of up to \$1,000 a year. (TECH PHOTO)

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4-10-1-79

Cutlines-----

ROTC SCHOLARSHIP RECIPIENT--Russell H. Williams, sophomore sociology major at Texas Tech, is presented an Army ROTC scholarship by Col. Clayton Roberson. Williams is the son of Mr. and Mrs. Hoyett D. Williams of Copperas Cove. The scholarship will cover tuition, fees, textbooks, and a living allowance of up to \$1,000 a year. (TECH PHOTO)

-30-

5-1-10-79

Cutlines-----

ROTC SCHOLARSHIP RECIPIENT--Diana M. Rainey, junior marketing major at Texas Tech, is presented an Army ROTC scholarship by Col. Clayton Roberson. Rainey is the daughter of Mr. and Mrs. James G. Rainey of Sheboygan, Wis. The scholarship will cover tuition, fees, textbooks, and a living allowance of up to \$1,000 a year. (TECH PHOTO)

-30-

6-10-1-79

Cutline-----

ROTC SCHOLARSHIP RECIPIENT--Robert H. Ebert Jr., junior pre-law major at Texas Tech, is presented an Army ROTC scholarship by Col. Clayton Roberson. Ebert is the son of Mr. and Mrs. Robert H. Ebert of San Benito. The scholarship will cover tuition, fees, textbooks, and a living allowance of up to \$1,000 a year. (TECH PHOTO)

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7-10-1-79

Cutlines-----

ROTC SCHOLARSHIP RECIPIENT--Robert R. Rummell, sophomore political science major at Texas Tech, is presented an Army ROTC scholarship by Col. Clayton Roberson. Rummell is the son of Mr. and Mrs. Robert L. Rummell of 920 Rocky Springs Rd., Austin. The scholarship will cover tuition, fees, textbooks, and a living allowance of up to \$1,000 a year. (TECH PHOTO)

Cutlines-----

ROTC SCHOLARSHIP RECIPIENTS--Six Texas Tech University ROTC cadets have been chosen from national competition for Army ROTC scholarships this year. From left are recipients Robert L. Rummell, sophomore, Austin; Linda L. Stukey, freshman, San Antonio; Diana Rainey, junior, Sheboygan, Wis.; Military Science Prof. Col. Clayton S. Roberson; and Russell H. Williams, sophomore, Copperas Cove; Robert H. Ebert II, junior, San Benito, and David S. Reid, sophomore, Richardson. Scholarships cover tuition and fees and a living allowance of \$1,000 a year. (TECH PHOTO)

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CONTACT: Pete McNabb

LUBBOCK--Six Texas Tech University cadets have been chosen from national competition for Army ROTC scholarships this year, which brings the total ROTC scholarship students at the university to 16.

Recipients were chosen on the basis of academic test scores, high school or college academic standings, extra-curricular leadership, athletic activities and personal interviews.

Scholarships will pay for college tuition, fees, textbooks and other academic expenses. Recipients also will receive a tax-free allowance of up to \$1,000 a year.

New recipients are Linda L. Stukekey, freshman, San Antonio; David S. Reid, sophomore, Richardson; Robert L. Rummell, sophomore, Austin; Russell H. Williams, sophomore, Copperas Cove; Diana Rainey, junior, Sheboygan, Wis.; Robert H. Ebert II, junior, San Benito.

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CONTACT: Carole Machol

LUBBOCK--People helping people. A concept most people support.  
But how many actually do it?

Several students from Mrs. Audrey C. McCool's community nutrition class at Texas Tech University are giving of their free time to help those less fortunate.

Working through the Lubbock Meals on Wheels program, students help deliver meals every weekday at noon. Meals on Wheels is designed for those senior citizens who are homebound physically and are unable to prepare meals for themselves.

In connection with this program, Horace Mitchell restaurant prepares the noon meals for the recipients. There are 20 routes in which students deliver hot meals and each route has 12 to 15 persons.

Two students travel each route, deliver the meals and visit with recipients. To better find the houses on the route, participants place a flower emblem in the window signifying they are part of the Meals on Wheels program.

Federal funding pays for 70 percent of the cost of the meal while local funding pays for the remainder and administrative costs.

For many of the students the program is a new and rewarding experience. "The people are glad to see us. It makes them happy that we take the time to come out and help them," volunteer student Cheryl Riddle said.

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Another student, Sandi Brow, said she probably would not have known about the program had she not enrolled in the nutrition class. But now that she works with the program, she may continue after she is graduated.

Director Mary Williams works closely with each of the student volunteers. The workers are put through an orientation program which demonstrates how Meals on Wheels works.

After completion of the introductory course each student travels one of the routes with a veteran volunteer.

Hindering the progress of Meals on Wheels is the shortage of volunteers. Without voluntary help meals could not be delivered to those who really need them.

According to McCool, Meals on Wheels gives students a chance to become involved in a community service program without investing a number of hours in a day.

"Some students rarely ever get the opportunity to visit with people off campus. This program gives them a broader perspective and acquaints them with community nutrition problems," McCool said.

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CONTACT: Pat Broyles

ATTN: Public Service Directors (Kill Oct. 12, 1979)

THEY EXCITE THE IMAGINATION...THEIR APPEAL IS TO AUDIENCES OF  
(MUH-MEHN-SHAHNZ)  
ALL AGES...THEY ARE "MUMMENSCHANZ"...THE INCREDIBLE MASKED MIME  
THEATRE THAT WILL MAKE ITS LUBBOCK DEBUT THURSDAY, OCTOBER 11, AT  
8:15 P.M. IN THE TEXAS TECH UNIVERSITY CENTER. FOR AN EVENING OF  
JOY, FANTASY AND FUN YOU MUST SEE MUMMENSCHANZ. CALL THE UC TICKET  
BOOTH AT 742-3610 AND RESERVE YOUR SEATS TO AN EVENT YOU WON'T SOON  
FORGET.

\*\*\*

(MUH-MEHN-SHAHNZ)

YOU MAY HAVE SEEN "MUMMENSCHANZ" ON THE "TONIGHT SHOW," "SESAME  
STREET" OR EVEN ON BROADWAY. IF YOU HAVE SEEN MUMMENSCHANZ, YOU'LL  
WANT TO SEE THEM AGAIN...IF YOU HAVEN'T SEEN THEM, YOU DON'T WANT TO  
MISS THE FUN AND FANTASY THAT THIS INCREDIBLE TROUPE OF MASKED MIMES  
BRINGS TO THE STAGE. PLAN TO SEE MUMMENSCHANZ, THURSDAY, OCTOBER 11,  
8:15 P.M. IN THE TEXAS TECH UNIVERSITY CENTER. CALL 742-3610 TODAY  
AND RESERVE YOUR SEAT FOR ONE OF THE MOST EXCITING PERFORMANCES YOU'LL  
SEE THIS YEAR.

\*\*\*

FOR AN INCREDIBLE EVENING OF FUN AND FANTASY PLAN TO SEE  
(MUH-MEHN-SHAHNZ)  
MUMMENSCHANZ"...THE ACCLAIMED MASKED MIME THEATRE...THURSDAY, OCTOBER  
11, 8:15 P.M. IN THE TEXAS TECH UNIVERSITY CENTER. CALL 742-3610 TO  
ORDER YOUR RESERVED SEATS.

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13-10-1-79

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CONTACT: Pat Broyles

ATTN: Public Service Directors (Kill Nov. 11, 1979)

DISCOVER THE FACTS AND MYTHS OF THE ORIGINS OF THE SOLAR SYSTEM AND THE FORMATION OF THE EARTH AND THE MOON...NOW AT TEXAS TECH'S MOODY PLANETARIUM. THE PROGRAM TAKES YOU BACK INTO THE PAST TO VIEW EVENTS THAT BEGAN BILLIONS OF YEARS AGO...AND BRINGS YOU TO THE PRESENT AND MAN'S CONQUEST OF THE MOON. THIS EXCITING NEW PROGRAM WILL BE SHOWN AT 2:30 P.M. WEEKDAYS AND AT 2:30 AND 3:30 P.M. ON SATURDAYS AND SUNDAYS AT THE PLANETARIUM IN THE MUSEUM OF TEXAS TECH.

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14-10-1-79

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CONTACT: Claire Brewer

LUBBOCK--Mummenschanz. Hard to pronounce and even harder to describe.

A Swiss mime group, Mummenschanz is nothing like the classic white-faced clown of silence that the word pantomime brings to mind. Rather, it is an inventive and zany show in which performers assume unusual forms and become strange beings.

Mummenschanz, whose name comes from the Swiss masked players of medieval times, always encases its performers in shapes of stretch jersey or masks.

Acrobats as well as mimes, the actors show superb body control as they work inside their costumes, conveying the wit that goes with each strange form.

The program is in two parts. The first half tells the story of evolution. Fantasy figures, combined with an inventive collection of abstract forms, create a uniquely different story.

During an extended intermission the mimes mingle with and entertain the audience.

Mummenschanz comments on human relationships in the second half of the program. The dialogue is done in symbols that are whimsical and yet thought-provoking at the same time.

Always masked and silent, the ingenious trio that make up Mummenschanz provide an evening of fun, entertainment and a bit of philosophy for all ages.

Mummenschanz will be at the Texas Tech University Center Theatre on Oct. 11. The program will begin at 8:15 p.m.

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CONTACT: B. Zeeck

LUBBOCK--Two Texas Tech University faculty members have been advised that a textbook they co-authored is to be translated and published in Russian and in Japanese.

Dr. Marion O. Hagler and Horn Prof. Magne Kristiansen, both of the electrical engineering faculty, are co-authors of "An Introduction to Controlled Thermonuclear Fusion," a book used as a supplementary text in several universities in the United States, although not at Texas Tech.

The authors explained that the book was not intended to transform its users into experts on controlled fusion but to provide a simple introduction accessible to workers with diverse backgrounds. It could be useful for students taking an introductory plasma course, engineers and physical scientists recently moving into the fusion field to work in a particular problem area and who want to see how that area might fit into the overall effort, or those who have been in the field but have been unable to survey a wide scope of activity to see ideas behind what others are doing.

The book should help them gain an overall perspective in a relatively painless way, they said.

It was published first in 1976 by Lexington Books, D.C. Heath & Co., Lexington, Mass., and Toronto.

-more-

thermo-fusion/add one

The editors are Vladlen V. Korobkin for Mir publishers in the USSR and Prof. Susuma Takeda of Nagoya University in Japan.

"The book has received uniformly kind reviews in professional journals," Hagler said, "and so we can guess it has served its purpose."

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17-10-2-79

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CONTACT: Prabhu Ponkshe

ATTN: Agriculture Editors

LUBBOCK--More than 100 agricultural engineers will meet in Lubbock Thursday and Friday (Oct. 4-5) to discuss the latest engineering aspects of food production and distribution.

Delegates attending the 15th annual meeting of the Texas Section of the American Society of Agricultural Engineers (ASAE) will represent federal and state agencies, universities and private industry.

The meetings will be held at the South Park Inn. Registration fee is \$8 and delegates can register at 10 a.m. on Thursday (Oct. 4). Students will be admitted at no charge.

A wide variety of topics covering energy and structural disasters through fires, explosions and tornadoes will be featured during the two-day event.

Several banks, agricultural equipment companies, utility services, irrigation companies and agricultural processing industries are sponsoring the meeting.

Federal officials, private engineering consultants, university researchers and representatives of industrial associations will speak to delegates.

Topics discussed will be wind energy generators for irrigation power; causes and prevention of tornado wind damage; ways to establish and develop a consulting engineering practice; land treatment of municipal waste water; ground water injection of cold water for energy

-more-

15th annual meeting/add one

recovery; development of equipment for low-cost, low-energy brush control and rangeland seeding; use of cotton gin trash for energy generation; agriculture and the energy production system (gasohol); grain elevator fires and explosions; and "how to stay alive in the agricultural engineering profession."

-30-

18-10-2-79

# Texas Tech News

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CONTACT: B. Zeeck

ATTENTION: Agriculture, Business Editors

LUBBOCK--"Agricultural Credit Needs for 1980" will be the general topic for the 1979 Banker's Agricultural Conference Dec. 7-8 at Texas Tech University.

U.S. Rep. Kent Hance of the 19th Congressional District will be the banquet speaker Friday night. Leadoff speaker Saturday will be Jim Winningham, president of the Arthur (Ill.) State Bank, which is located in a commercial farming area. Winningham's topic is "Your Bank -- Your Community."

Registration on Friday will begin at 6 p.m. in the Texas Tech University Center. For latecomers to the conference, registration will continue on Saturday, starting at 7:30 p.m. in the University Center Courtyard.

A panel of West Texas area bankers will discuss "Innovative Banking for Service and Profit" following Winningham's address. Panel moderator will be John Wright, chairman of the board, First State Bank, Abilene. Other panelists include: President Gene Adams, First National Bank, Seymour; President Norman Wright, City National Bank, Plainview; and Lowell Smith Jr., chairman of the board, First State Bank, Rio Vista.

Dr. Gene A. Mathia, chairman of the Texas Tech Department of Agricultural Economics, will moderate another panel which will present the general economic outlook for 1980, with special consideration of both the general and the agricultural outlook for West Texas, eastern New Mexico and western Oklahoma.

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Participating in this panel will be four faculty members in the agricultural economics department. They are Drs. Calvin Brints, Billy G. Freeman, Rex P. Kennedy and Horn Prof. Willard F. Williams.

The department also is expected to present estimated cost of production budgets for 1980 for each of the major crops of the area.

Coordinating the conference is Dr. J. Wayland Bennett, associate dean of the College of Agricultural Sciences. For additional information write or call him: Box 4190, Texas Tech University, Lubbock, Texas 79409, (806) 742-2876.

President of the 1979 conference is B.A. Donelson, senior vice president, First State Bank, Stratford. Vice president is George Sell, senior vice president, First National Bank, Lubbock.

Directors are: President B.E. Loyd, Muleshoe State Bank; President Glen Lemon, First Bank and Trust, Booker; Vice President John Hegi, Lamesa National Bank; President Joe Cargile, Citizens National Bank, Crosbyton; Senior Vice President Deryl Bennett, Security State Bank, Littlefield; Vice President Jim Mead, First National Bank, Amarillo; and President Frank Barrow, First National Bank, Tahoka.

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CONTACT: B. Zeeck

LUBBOCK--H.C. "Chuck" Harjes, a first year graduate student in electrical engineering at Texas Tech University, has been granted a prestigious scholarship by the Nuclear and Plasma Sciences Society of the Institute of Electrical and Electronics Engineers.

The IEEE society awards only about three such scholarships nationwide per year, according to faculty who nominated Harjes for the \$500 award.

Harjes, the son of Mrs. Joyce Raines and H.C. Harjes Sr. of Lubbock, is a graduate of Lubbock High School. He is described as the top student in his graduating senior class of about 65 electrical engineering students.

Horn Prof. Magne Kristiansen, who nominated Harjes, said that the student's work has resulted in two international conference proceedings papers and another article is in preparation.

"The method he has developed for laser triggering of spark gaps using fiber optics transmission is unique," Kristiansen said.

In his graduate work on laser triggered spark gaps, Harjes has been working with Prof. Lynn L. Hatfield of the physics department, but the work is done in the Plasma and Switching Laboratory in Electrical Engineering. Hatfield described Harjes' work as "outstanding."

"I think he shows promise of a much above average career as an engineer," Hatfield said.

Harjes is working on the master's degree but said he intends to continue his graduate studies to earn the doctoral degree.

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harjes/add one

Harjes previously has held the C.C. Perryman Award, a Texas Tech University Scholarship, an Alcoa Scholarship and an ARCS (Achievement Rewards for College Scientists) Award. He is a member of three honor societies, Phi Eta Sigma, Eta Kappa Nu and Phi Kappa Phi.

He also is a four-year veteran of intramural basketball at Texas Tech and plays forward on the electrical engineering team.

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20-10-3-79

# Texas Tech News

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CONTACT: Claire Brewer

LUBBOCK--Teaching German to university students is by no means Dr. Ulrich Goebel's only interest in the language. Professor of German in Texas Tech University's Department of Germanic and Slavic Languages, he is deeply involved in research concerning history of the German Language.

The literary periods between the 12th and 16th centuries are the focus of his research interests and publications.

In the past few years he has been involved in lexicographical application of the computer to historical language studies and in compilation of various reference tools. Lexicography is the writing and compiling of dictionaries.

To make philological studies more available to scholars, Goebel was instrumental in starting a periodical called "Semasia", for which he is currently American editor.

Goebel is also one of the editors of a series of volumes containing word indices to documents from the Middle High German and Early New High German periods. A number of volumes of the series "Indices Verborum zum altdutschen Schrifttum" (Word Indices of early German Literature) have already been published and the next one is being prepared in Regensburg, Germany, by Dr. Margot Schmidt.

Goebel's work has been supported by a grant from National Endowment for the Humanities.

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"From the word 'indices' came a project which is much bigger and will involve a number of scholars from Europe and America," said Goebel. A comprehensive dictionary of the Early New High German period, 1300-1600, is being compiled from materials with which Goebel has been working, most of which have been computerized.

"No comprehensive dictionary for this period exists," he explained.

Goebel is one of three editors working on the dictionary. Another is at Virginia Tech and the third at the University of Heidelberg, Germany.

Computerization has made the material readily available to both the American and German editors.

The dictionary will ultimately be composed of at least five volumes. The first part of volume one will be published in 1980 or 1981.

"Already there are more than a million references to words, comprising 25 thousand pages of material."

Originally from Bremen, Germany, Goebel came to the United States when he was 10 years old. His family settled in Oregon.

He received B.A. and M.A. degrees in German literature from the University of Oregon and the Ph.D in Germanic philology and medieval literature from Ohio State University.

Before coming to Texas Tech, Goebel taught at Virginia Polytechnic Institute and State University. One of his interests there was a study abroad program for undergraduate students which he organized and administered in Austria and Germany.

Goebel found that "students enjoyed the program tremendously and learned much from the experience."

Study abroad programs "provide a fine way to learn a language and to study the culture of a people." The Texas Tech Department of Germanic and Slavic Languages sponsors a similar program.

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CONTACT: B. Zeeck

ATTENTION: Fine Arts Editors

LUBBOCK--Eastman Johnson (1824-1906), described by critics as the nation's best painter of the American lifestyle of his time, will be the subject of an art seminar at 10 a.m. Tuesday in The Museum of Texas Tech University.

The seminar is one of 10 in a series on 19th century American art sponsored by the Women's Council of the West Texas Museum Association this fall. They are open to the public for a small fee. Seminars take place at 10 a.m. each Tuesday through Dec. 4.

The lecturer is Rabbi Alexander Kline, who has been presenting the art seminars for the past 19 years and illustrates each with prints chosen from his collection of more than 100,000.

Johnson's work specialized in genre, a category of art concerned especially with depicting scenes and subjects of common everyday life. The superiority of his work is based on its honesty in sentiment, its vigor and compositional strength.

The artist was born in Maine, studied with a lithographer in Boston and at 18 was professionally sketching crayon portraits that were well received.

He went to Europe for several years and was influenced particularly by 17th century Dutch painters. He adopted their preference for dignified compositional effects and for warm brown and tan color harmonies.

eastman johnson/add one

"The Hatch Family," an oil with dimensions of about 4 by 6 feet, is typical of his work and hangs in the New York Metropolitan Museum of Art. This richly detailed painting of an elegant American family was done in 1871. Another, just as true to American life of Johnson's period, is "Corn Husking," an 1860 oil depicting rural workers. It hangs in the Everson Museum of Art in Syracuse.

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23-10-3-79

# Texas Tech News

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CONTACT: Carole Machol

LUBBOCK--Advising students on car problems, traffic tickets and landlord-tenant problems fill the weeks of the Texas Tech Student Legal Counsel.

In only her first week as the university's new Legal Counsel, Jean Wallace has faced a number of these situations. She assumed her position and busy schedule on Sept. 24 and has seen an average of seven to 10 students a day.

Wallace's job at Texas Tech is to advise students when they have a legal problem. The legal counsel does no actual litigation.

The majority of problems handled by Wallace deal with students and their automobiles. She has talked with students who have purchased used automobiles and have had trouble with them in getting them repaired and students who receive parking and traffic violation tickets.

As Texas Tech's Student Legal Counsel, Wallace will speak to different campus organizations on how to use the legal system, what the counsel has to offer, and try to alert students to problems before they happen.

Wallace comes to Lubbock from Midland where she was assistant county attorney for Midland County. As a member of the county prosecuting staff, she often tried misdemeanor cases.

After nearly three years in the courtroom, Wallace decided to move on, citing "I wanted to get out of the courtroom, but I don't regret the three years in Midland."

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A native of Lubbock, Wallace graduated from Monterey High School in 1969. She received the Bachelor of Arts degree in history from Texas Tech in 1973. In 1976 Wallace received the Doctor of Jurisprudence degree from Texas Tech University.

But being a lawyer has not always been Wallace's lifetime ambition. It wasn't until her junior year in college that she actually thought about her future.

"I was a history major and I did not think I wanted to teach history. Going into law was something I got into and liked well enough to stay with," Wallace said.

Before graduation from the Tech Law School, she spent her summers working at law-related jobs. The summer before graduation she worked as a law clerk for Benson and Benson, a Lubbock law firm. Wallace's job consisted of observing the attorneys while in court, conducting research in law and helping out in the office.

Wallace's main goal for this year is to continue to offer quality legal services to Texas Tech students.

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CONTACT: Claire Brewer

LUBBOCK--Dean K. Whitla, visiting lecturer from Harvard University will speak at Texas Tech University at 2 p.m. Thursday (Oct. 4) in the Coronado Room of the University Center.

He will discuss the topic, "Texas Tech versus Harvard: Personal Growth, Intellectual Mastery, Football -- Who is the Winner?"

His presentation will be "interesting, informative and entertaining," said Robert H. Anderson, Texas Tech's dean of education.

Sponsored by the College of Education at Texas Tech University, the lecture is open to all interested students, faculty and public.

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24-10-3-79

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CONTACT: Pete McNabb

LUBBOCK--A suspect in a hypothetical two-year-old murder case, smug in the belief that time has eroded the evidence, may soon find himself confronted with his fingerprints on the murder weapon.

The handgun had not been found for several days after the crime had been committed and all traces of fingerprints had escaped recapture by conventional methods.

But a Texas Tech University physics professor is researching -- and successfully -- the use of lasers in detection of latent fingerprints.

Prof. E. Roland Menzel, new to the Texas Tech faculty this fall, has been experimenting with laser detectors as a sideline since 1976 when he was working as a physicist for the Xerox Corporation in Ontario, Canada. Since that time, his research has been used by the FBI, the Army Criminal Investigations Division, and Ontario law enforcement agencies to find prints on articles.

The conventional fingerprint detection method involves dusting an article and photographing revealed prints. However, if prints are not dusted within a few days, prints will "fade away." In reality, according to Menzel, they just dry out to the extent that the dusting powder will not stick to them. There are conventional methods that do reveal old prints, but they suffer limitations.

In his research Menzel shot a singular bluish-green argon laser beam through a lens and onto a previously handled article. He then viewed the article through a filter and observed the fluorescent prints. The filter and lens are used for protective reasons.

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Purpose of the laser detector, however, is not to simplify the detection process but to detect prints in instances when police have no hope of finding a fingerprint, Menzel said.

The oldest prints Menzel has been able to photograph so far are off some books that he is positive have not been touched since he was an undergraduate 10 years ago.

The Texas Tech professor is currently awaiting a research grant from the federal government. Upon receiving the grant, he hopes to begin a research program that will enable him to find a relationship between the fluorescent colors of the fingerprints and their age. If there is a relationship, it will add a "whole new dimension to detective work," said Menzel.

The professor sees some problems. Certain factors, such as temperature and humidity, could have an effect on the success of his research.

If the research, which will take approximately one-and-a half years to complete, proves successful, Menzel said he will give his findings to law enforcement agencies and the general public.

He has already written several articles about his findings and has written a book, "Fingerprint Detection with Laser," soon to be off the press.

Since Menzel began his new job as a Texas Tech professor, he has not had time to move his laboratory to Lubbock, but when he does, it could even become a training ground for detectives working with laser detectors to find fingerprints.

Menzel received the Ph.D. degree from Washington State University. He is an instructor in general physics and quantum mechanics.

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CONTACT: Carole Machol

LUBBOCK--Ed and Lorraine Warren, noted investigators of the supernatural and often referred to as "America's top ghost hunters," will speak on "The Amityville Horror" at 8:15 p.m. on Oct. 18 at the Texas Tech University Center Theatre.

One of seven leading demonologists in the United States, Ed Warren is head consultant for the Psychic Research Institute for Paranormalogy and Demonology in Handen, Conn.

Lorraine Warren is a widely known clairvoyant and her help as a medium has been essential to a number of their investigations. Together they have traveled the U.S. and Europe and have worked with other scientists, clergymen and mediums investigating reports of "haunting" or demonic possession.

The Amityville horror is the Warren's most famous case, but they have also investigated the phenomena of "Bigfoot" in America and the "Loch Ness Monster" in Scotland. Seen weekly in syndication is their column, "The Tattler," as are their TV shows, "Ghost Hunting With Ed and Lorraine Warren" and "Seekers of the Supernatural."

These programs revolve around actual cases of exorcisms and possessions, haunted houses and ghosts, and witchcraft and demonology in which the Warrens have been involved for the last 31 years. Some of their experiences have been chronicled by Dan Greenburg in "Something Is There" and J.F. Sawyer in "Deliver Us From Evil."

People became aware of the Amityville horror because of the best-selling book with that title.

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The book deals with the disturbing story of George and Kathy Lutz and their three children. They bought an old house at a seemingly low price in Amityville with no qualms about its bloody past.

The Lutz's left with only the clothes on their backs after a short time and never returned. They claimed the house was haunted and that they saw and heard unexplainable phenomena such as footsteps when no one was there, voices, ghostly manifestations and levitation of people and objects.

The Warrens were called in to investigate, along with many other noted clergymen and scientists, but no one could stand to stay in the house.

The house was the site of a bloody mass murder several years ago when Ronald DeFeo killed his parents, two brothers and two sisters. He claimed to have been "possessed by demons." An ironic parallel is that in colonial times the Indians would not go near that land because they claimed it was inhabited by devils.

The Warrens' lecture will include a discussion of their cases, as well as pictures of "ghosts" and people "possessed" by demons. Their well known comment is, "There has never been a scientist past or present who could disprove the fact that haunted houses, ghosts, apparitions, and demonic spirits exist." In lectures on campuses across the U.S. the Warrens have spoken to capacity crowds.

Tickets are available at the UC Ticket Booth. They are \$2.00 with Tech ID, \$2.50 with Tech faculty or staff identification and \$3.00 for the general public.

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CONTACT: Chino Chapa

LUBBOCK--Wesley W. Williams, III, president of the 1979 Texas Tech Tax Institute held at Texas Tech University this week, is the son of Mr. and Mrs. Wesley W. Williams of Stamford.

The institute president is the head tax partner in the Denver office of Main, Hurdman and Cranstoun Certified Public Accountants.

The institute, Texas Tech's 27th annual meeting, attracted more than 450 tax attorneys, accountants and tax practitioners. Williams has spoken previously at the Texas Tech Institute as well as at the New York Institute.

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27-10-4-79

# Texas Tech News

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CONTACT: B. Zeeck

ATTENTION: Oil and Energy Editors

LUBBOCK--A challenge grant of \$50,000 has been made to initiate a \$150,000 endowment establishing the Ray Butler Professorship in the Texas Tech University College of Engineering.

The professorship is to be within the Department of Petroleum Engineering, according to the donor, H.B. Harkins of Harkins & Co., driller and producer of oil and gas. It honors Ray Butler, president of Harkins, who was named "Distinguished Engineer" by the college in 1975.

In providing the grant Harkins said he would add to the fund over the next five years, until his contributions reach a total of \$75,000 to be matched by other funds raised by the university.

"This professorship has been selected," Harkins said, "because the course of instruction and the manner of teaching in Texas Tech's Department of Petroleum Engineering is in accord with principles endorsed by Harkins & Company."

Dean John R. Bradford said that funds will be invested and that the professorship will be activated in the early 1980s. He said that the college will be seeking an outstanding teacher and researcher to fill the post. The Ray Butler Professor will have responsibilities in both undergraduate and graduate teaching as well as in public service and research.

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"We are particularly pleased," Bradford said, "that Mr. Harkins chose to name the professorship for one of Texas Tech's finest engineering graduates. The name should serve as a challenge to future students."

Both Ray Butler and his twin brother, Roy, have been named Distinguished Engineers by the college. Both were graduated with degrees in petroleum engineering in 1949.

Butler, a native of Rising Star, lives in Alice. He served in World War II as a naval officer and began his engineering career with Conoco Oil Company. He was a district engineer for Conoco for five years and then became superintendent of the H.R. Smith Company in Alice. He has been with Harkins about 25 years.

Butler has been a director of the American Institute of Mining, Metallurgical and Petroleum Engineers and of the International Association of Drilling Contractors. He also served the latter organization as vice president of its Gulf Coast District. In civic affairs he has been a director of the Alice Boys' Club and a trustee of the Mary Dinn Reynolds Foundation.

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CONTACT: B. Zeeck

ATTENTION: Oil and Energy Editors

LUBBOCK--The Phillips Petroleum Co. has made a gift of \$7,500 for professional development in three Texas Tech University colleges, and at the same time the Phillips Petroleum Foundation Inc. gave \$5,500 for a graduate fellowship in chemical engineering and \$2,000 for petroleum engineering education.

The presentation marked the 10th year that Phillips has contributed to a fellowship in the Department of Chemical Engineering and the 14th year that the company has designated a sizeable gift for the College of Engineering.

The professional development funds were earmarked for that college (\$4,700) and the colleges of Arts and Sciences (\$1,400) and Business Administration (\$900). The university's Career Planning and Placement Center also is to receive \$500 from the grant.

A.M.L. Kube, Panhandle area manager for Phillips and named a "Distinguished Engineer" by Texas Tech, made the presentation.

"It is our hope," he said, "that this money will be used for such things as student and faculty awards, traveling expenses and fees for off-campus professional society meetings, expenses for visiting speakers and programs and the purchase of reference books and professional publications for departmental use."

Dr. John R. Bradford, dean of the College of Engineering, said that the 14-year span of support from Phillips has produced "demonstrable results" in the area of faculty development.

-more-

phillips/add one

"The Phillips Co. has contributed significantly to the quality of engineering education at Texas Tech," he said. "The long-term support makes it possible for us to look back and see results."

He said the faculty has been able to attend technical meetings, short courses and other professional meetings that would not have been possible without private giving.

"What they bring back to students and what visiting speakers bring are just a part of the advantages students reap from such gifts."

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29-10-4-79

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CONTACT: Prabhu Ponkshe

ATTENTION: Agriculture Editors

LUBBOCK--The economics of the dress shirt begins on the cotton farm and goes through a variety of production, processing and marketing steps that translate into dollars for industry and the consumer.

Government regulations, natural elements, consumer attitudes and technology affect every step along the way and introduce diverse factors that complicate the economics of cotton.

For West Texas, one of the most intensive cotton growing areas in the nation, cotton costs and returns are obviously significant. More than four-and-a-half million acres in a 120-mile radius around Lubbock are planted in cotton.

Solving some of the economic complexities of the cotton industry is one of the research priorities at the Texas Tech University Department of Agricultural Economics.

Research projects in the department will help in assigning dollar values to government health standards, to alternate processing techniques and to marketing procedures. Gin sizes, numbers and distribution are also being studied to develop forecasting ability.

There are a total of five projects related to the economics of cotton. They are: 1) economics of textile mill processing; 2) simulating cottonseed oil mills for estimating cost and return; 3) simulating gin handling systems; 4) evaluating marketing impacts of new cotton grading procedures; and 5) dynamics of gin sizes, numbers and distribution.

-more-

cotton/add one

Dr. Don E. Ethridge, adjunct professor of agricultural economics, heads the cotton research program. Dr. Thomas R. "Dick" Owens, Dale Shaw, Randy Hise, Jess Robinson and other members of the agricultural economics department work with Ethridge. The projects also employ graduate students.

They are funded by the Economics, Statistics and Cooperatives Service (ESCS) and the Science and Education Administration (SEA) of the United States Department of Agriculture (USDA). Texas Tech and private groups also fund the research effort. Total funding is approximately \$200,000 each year.

"The textile mill model," Ethridge said, "will be used to evaluate the cost of alternate technological solutions for meeting cotton dust standards in textile mills."

Shaw, also an adjunct professor of agricultural economics, is in charge of the work on the textile mill model. He said that there is no conclusive data on how much the textile mills will have to pay for meeting the dust standards.

"Cost estimates for complying with cotton dust standards range from \$60 million to \$800 million for the entire industry. The estimates are based on limited analyses by government and industry," Shaw explained.

There are many potential ways in which textile mills could control cotton dust. One is to introduce engineering controls that will pull the dust away from the working area. Another might be to isolate the production system and thereby isolate the dust from workers. Still another way might be to change the harvesting system to reduce organic matter and other sources of dust in cotton.

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Shaw and Ethridge are working with SEA scientists to evaluate the costs of the various approaches to determine the most inexpensive method.

Once the computer model is developed, it could be used for answering other questions regarding the economics of a textile mill operation, Shaw said.

The second project covers the comparative economics of different technological processes in cotton seed oil mills. Randy Hise, a research associate, is in charge of that project.

There are four basic products that are isolated in cotton seed oil mills. The linters, short fibers from the seed, are isolated and used in products such as auto oil filters, rocket fuels and stuffing for furniture. The hulls are used for producing livestock feed and packing material for oil wells. The meal is isolated for livestock feed, while the oil is used in domestic cooking and in other food-related substances, Hise explained.

The project will ultimately simulate the production costs for cottonseed oil mills.

"Based on the simulation model, costs and returns for each product can then be estimated," Hise said.

The various approaches for handling cotton in the gin form the third cotton project at the Texas Tech Department of Agricultural Economics.

Ethridge said that there are three ways in which gins handle cotton. A suction method is traditionally used to remove cotton from the trailers. More recent methods include removing the cotton by suction from modules, or using a gin-module feeder.

cotton/add three

The economics of the three cotton handling procedures are being compared for five gin sizes and two durations of ginning seasons. Gin sizes are based on number of bales processed per hour. The study is using gins with processing capacities of seven, 14, 21, 28 and 35 bales per hour. The two ginning season durations are approximately three and six months.

The study began in March 1979 and will be completed early next year. Jess Robinson, a graduate research assistant, will write his master's thesis on that project.

The fourth project involves a market impact analysis of an experimental system of mechanized grading of cotton.

Traditionally the USDA has relied on human inspection to determine fiber lengths and grades. The agriculture department employs expert cotton classers who grade anywhere between 10 to 15 million bales of cotton each year.

"The present system works, but there is a possibility that machines would do the job faster and do it more accurately, and thus provide more fiber quality information," Ethridge said.

The answer to that question is not yet available, although preliminary results indicate that the average accuracy of man and machine is the same.

"But that could be misleading. While the averages are the same, the machines detect more variation in fiber quality than do humans," Ethridge said.

If the experimental machine is employed, there may be some changes in the system of marketing cotton.

The Agricultural Marketing Service (AMS) of the USDA is cooperating with the Texas Tech researchers on the grading study.

Ethridge and Shaw have been working on the project for three years and estimate that the work will continue for at least three more. Adoption of the new grading system, if it is found to be feasible, would take at least ten years to implement.

The fifth project is aimed at identifying forces which cause adjustments in the number, size and distribution of cotton gins. The research team for that project is headed by Owens.

"Using the cotton growing area of the High Plains, we are trying to develop a computer model that will have the ability to forecast changes in the ginning industry, given a set of influencing factors," Owens said.

The model can only be used for predicting changes in the ginning industry under a "if this happens, then that can be expected" procedure.

At present the researchers are identifying and estimating external factors that influence number, size and distribution of gins. The project will continue for several years.

Owens' study is funded by Cotton Inc., an organization financed by cotton producers. A doctoral student in economics, Edna Seidmann, is employed by Owens for the project.

There are several other projects in agricultural economics, but they affect production and processing of cotton in an indirect way.

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CONTACT: Pete McNabb

LUBBOCK--Some of the country's most eloquent student speakers, debaters and oral interpreters will converge on Lubbock the weekend of Oct. 12-14 for the Texas Tech Fall Forensic Tournament.

More than 350 participants from more than 40 colleges and universities are expected to attend the 28th annual tournament. Among institutions expected to participate are the University of Kansas, Southwest Missouri State University, The University of Texas at Austin, University of Houston, Baylor University, University of Denver, and The University of Texas at Arlington.

Events will include: persuasive speaking, extemporaneous speaking, debate, and oral interpretation.

The competition again this year has been designated a state qualifying tournament for the National Forensic League (NFL).

Persuasive and extemporaneous speaking will be from 10:15 a.m.-4:45 p.m. Friday in the Well of the University Center. Oral interpretation will be from 3:00-8:30 p.m. Friday and from 8:00 a.m.-3:00 p.m. Saturday. Special discussions on oral interpretation will be from 3:00-5:00 p.m. Saturday and a workshop will be offered from 9:00-12:00 noon Sunday. Junior and senior level debates will be held throughout the weekend in Holden Hall, with final elimination rounds Sunday at 9:15 a.m. in the Mass Communications Building.

Awards will be presented at a banquet Saturday night in all categories of competition. Sweepstakes trophies also will be presented.

-more-

debate tournament/add one

Tournament director is Texas Tech debate coach and forensic director Vernon McGuire. Vera Simpson will direct oral interpretation.

In other forensic competition Tech will have participants in two tournaments this weekend (Oct. 5-7). The team of Jay Kirkman and Mack Thornberry will travel to Laramie for the University of Wyoming tournament. Teams of Erik Lindstrom and Jeff Alley and Lezlie Roberson and Bob Hicks will participate in the Oklahoma Christian College tournament in Oklahoma City.

Other members of the 30-man squad will participate in tournaments throughout the year.

# Texas Tech News

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Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

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LUBBOCK--New York certified public accountant Dominic A. Tarantino brought more than 450 income tax practitioners up to date on current judicial and administrative developments related to income taxes at Texas Tech University Thursday.

He listed some 47 pages of typewritten reports on taxing developments for the 27th annual Texas Tech Tax Institute in the University Center.

Partner in charge of tax services for the New York office of Price Waterhouse & Co., Tarantino explained legal and administrative rulings affecting individuals, business- and nonbusiness-related deductions, shareholders and their corporations, partnerships, accounting methods, sales and exchanges of property and others.

He cited as an example a tenured professor who was released by his university employer and who was held to have received gross income in terms of a lump sum settlement received in consideration of dropping a suit. Another of his examples was a taxpayer with a rare blood type who received compensation for the blood and associated discomfort but could not exclude any portion of the compensation as damages received for personal injuries or sickness.

He said in one case a tax court determined that a taxpayer's horse-breeding activities were operated at a level of activity which was never capable of generating a profit; therefore, the associated losses were disallowed.

-more-

tax institute/add two

Jack M. Vaughan of Houston, with Deloitte Haskins & Sells, at 3 p.m.;  
and "Incorporation of an Agribusiness"; by Roy G. Shrode of Midland,  
with Elmer Fox, Westheimer & Co., at 4 p.m.

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ATTENTION: Agriculture Editors

LUBBOCK--Approximately 100 are expected to participate in the 31st annual Dairy Short Course Oct. 14-15 in Lubbock. It is sponsored by the Department of Food Technology and Animal Science at Texas Tech University.

The meeting, which usually attracts producers, processors and dairy marketing representatives from Texas, Oklahoma and New Mexico, will be held in the Hilton Inn. Registration will take place from 2-6 p.m. Sunday, Oct. 14, and continue from 8-8:45 a.m. Monday.

Discussions will deal with such topics as economic conditions in the dairy industry, quality control, the Texas Uniform Milk Inspection Program and legislative action regarding the industry.

Speakers will represent the Texas Department of Health, the Dairy Products Institute of Texas (DPIT) and Superior Dairies, Austin; Southland Corp., Dallas; Bell Dairy Products and Southwestern Public Service Co., Lubbock; the Texas-New Mexico Dairy Technology Society, and Texas Tech University.

Dr. Sam E. Curl, dean of the Texas Tech College of Agricultural Sciences, will welcome guests. Dr. J. Wayland Bennett, associate dean, will be the guest speaker for a 6:30 banquet Oct. 15. Bennett, an agricultural economist, is a member of the Board of Directors, Federal Reserve Bank, Dallas, and he will discuss "Producers and Consumers in an Inflationary Economy."

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Speaking at the dinner on behalf of the Texas-New Mexico Dairy Technology Society, which helped found the short course, will be the society's president, Fred Browning, Green Spot Company, San Antonio.

Short course topics and speakers scheduled are: "The Dairy Industry in 1979," M.J. "Jim" Adamson, president of DPIT and executive vice president, Superior Dairies, Austin; "A Report of the 1979 Texas Legislature," Glenn R. Brown, DPIT executive vice president; "Research and Development in the Food Industry," Dr. Howard Zimmerman, director of research, Development and Quality Assurance, Southland Corp., Dallas; "Quality Control in the Dairy Industry," Donna E. Huffington, quality control director, Bell Dairy Products, Lubbock; "Texas Uniform Milk Inspection Program," Hugh Rundle, director, Milk and Dairy Product Division, Texas Department of Health; and "A Question of Balance," Irwin Glover, power sales engineer, Southern Division, Southwestern Public Service Co., Lubbock.

The registration fee for the short course is \$30, and that fee includes the banquet.