

Date	Stories and Cutlines	Locals	Reg. Day	Reg. Week	50 M's	Hometowns	Selected	Explanation
1-3-28-77	Jeta / Stratton ? Celine	✓					✓	Ohio
2-3-28-77	PSA "Kennedy's Children"	✓	T.V.					
3-3-28-77	PSA " "	✓	T.V.					
4-3-28-77	PSA " "	✓	Radio					
5-3-28-77	PSA " "	✓	Radio					
6-3-28-77	Case awards	✓	✓					
7-3-28-77	"Kennedy's Children"	✓					✓	adjacent
8-3-29-77	Beginning Photography	✓					✓	adjacent counties
9-3-29-77	Future Law Students							- Beaumont, Raymondville, ^{San} Antonio
10-3-29-77	Chicano Awareness Week	✓	T.V. & Radio	✓				R. Plus
11-3-29-77	Man and the Wilderness							
12-3-29-77	Petroleum Short Course (H. Worth ^{speakers})						✓	H. Worth Star
13-3-29-77	Symphony Orchestra Grad. Solo Concert	✓	T.V.					
14-3-29-77	Trumpet Ensemble Concert	✓	T.V.					
15-3-29-77	Saltbush	✓	✓				✓	Ag. list
16-3-29-77	Jalsa speakers						✓	Jalsa
17-3-29-77	Consumer Advisory Program	✓	T.V.					
18-3-29-77	Trumpet Ensemble Concert	✓	Radio					

Date	Stories and Cutlines	Locals	Reg. Daily	Reg. Week	50 M's	Hometowns	Selected	Explanation
19-3-29-77	Graduate Soloists Concert	✓	Radio					
20-3- ³⁰ 29 -77	Indian Art Show	✓					✓	adjacent counties
21-3-30-77	Cutline							
22-3-30-77								
23-3-30-77	Scenic Beauty						✓	Ad., Colorado. Ag list, below
24-3-30-77								
25-3-30-77	Jones fellows	✓						
26-3-30-77	Mary Catherine Pendleton	✓					✓	adjacent counties
27-3-30-77	Frank W. Elliott - dealership Anthony W. Elliott - dealership	✓	✓	✓	✓			
28-3-30-77	Cathy Crist mezzo-soprano	✓					✓	adjacent counties
29-3-30-77	Saint Elmo's Fire PSA	✓	Radio					
30-3-30-77	PSA " " " (slide spot)							
31-3-30-77								
32-3-30-77	Lufkin speakers						✓	Lufkin
33-3-30-77	PSA Consumer Advisory Program	✓	Radio					
34-3-30-77								
35-3-30-77	PSA Anthony Brittin	✓	TV					
36-3-30-77	PSA " "	✓	Radio					

Date	Stories and Outlines	Locals	Reg. Daily	Reg. Week	50 M's	Hometowns	Selected	Explanation
37-3-30-77								
38-3-30-77								
39-3-31-77	Jessie Stewart - piano recital	✓						
40-3-31-77	Homelore Ensemble	✓					✓	adjacent counties
41-3-31-77	Scorpions	✓	✓					
42-3-31-77								
43-3-31-77	ROTC Cadets commissioned	✓	✓					
44-3-31-77	Children's Theater Outline						✓	AJ, UD, WT Times ^{Museum List} Theatre List
45-3-31-77	Use of Time Workshop	✓	✓					
46-3-31-77	Midland oil - Petroleum Sh. Course						✓	Midland
47-4-1-77	Odessa oil - " " "						✓	Odessa
48-4-1-77	PSA - Petroleum Sh. Course	✓	T.V.					
49-4-1-77	Red Raider	✓	✓	✓	✓			
50-4-1-77	RHC re-opens	✓	T.V.					
51-4-1-77	" " "	✓	Radio					
52-4-1-77	ASAE Conference Ag Engineers meeting	✓	✓	✓	✓		✓	sel. farm mags.
53-4-1-77	Historical Interpretation RHC	✓	Radio					
54-4-1-77	" " "	✓	T.V.					

Date	Stories and Cutlines	Locals	Reg. Day	Reg. Week	50 M's	Hometowns	Selected	Explanation
55-4-1-77	New Hours RHC	✓	T.V.					
56-4-1-77	" " "	✓	Radio					
57-4-1-77	Violinist Virginia Kellogg	✓	Radio					
58-4-1-77	Crosses at Exhibit	✓	Radio					
59-4-1-77	Violinist Virginia Kellogg	✓	T.V.					
60-4-1-77	Crosses Exhibit	✓	T.V.					
61-4-1-77	"Oedipus Rex,"	✓	Radio					
62-4-1-77	Hide Jamming Workshops	✓	T.V.					
63-4-1-77	" " "	✓	Radio					
64-4-1-77	William T. Simmons German scholarship	✓						

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: B. Zeeck

LUBBOCK--A chance meeting at the Texas Tech University swimming pool has developed into a fast friendship for two students from the Cleveland, Ohio, area.

Sarah Stratton's home is Chagrin Falls. Paul Teta's is Lyndhurst, towns 11 miles apart. At Texas Tech on the South Plains of West Texas they discovered their out-of-class lives tend to run parallel.

"We literally bumped into one another and started talking," Teta said. "We had never heard of each other before. At Tech we kept running into one another."

Teta is president and past secretary of the Engineering Student Council. Stratton is president and past secretary of the Education Student Council. Both are members of the Board of College Councils at Texas Tech.

Both are named in "Who's Who in American Colleges and Universities." Both hold scholarships and their names appear repeatedly on deans' lists for academic achievement. Both serve on college and university committees, including the university's Continuing Education Committee.

Both work out at the Texas Tech track in sprinting, taking the hurdles, running one or two miles daily. Both like bicycling and with others helped organize the Summer Baseball Club at Tech.

-more-

To help earn their way they have had jobs as student assistants, working in the Textile Research Center at Texas Tech.

Both like music, and Teta played in Tech's Red Raider band three years.

Stratton's major is elementary education. She was graduated in December but is working on her master's degree this semester. Among honor societies to which she has been elected is Phi Kappa Phi, a national society for students in the upper 10 per cent of their classes.

Teta's major is textile technology and management. Named this year's outstanding student engineer by the South Plains Chapter of the Society of Professional Engineers, he was the first to receive this distinction. He expects to be awarded the bachelor's degree in May and then enroll in the Institute of Textile Technology at Charlottesville, Va.

Then what?

Well, during spring break at Texas Tech, Mr. and Mrs. Harry J. Stratton Jr. of Chagrin Falls announced the engagement of their daughter, Sarah, to Paul Teta, son of Mr. and Mrs. Francis P. Teta of Lyndhurst.

-30-

Editor's Note: The Strattons live at 145 Cleveland St., Chagrin Falls. The Tetas live at 1275 Richmond Road, Lyndhurst.

1-3-28-77

cutline-----

HONOR STUDENTS--Ohio students who met by accident at Texas Tech University in Lubbock found the library, in the background, a good meeting place. But so was the swimming pool, the track field, the Textile Research Center and numerous committee rooms. Paul Teta of Lyndhurst and Sarah Stratton of Chagrin Falls, both university honor students, will find even more in common after Teta's graduation in May. They intend to marry one another.
(Tech Photo)

-30-

1-3-28-77

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot.)

10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? SPECIAL BROWN BAG
PERFORMANCE OF "KENNEDY'S CHILDREN." BRING YOUR
SACK LUNCH AT NOON, APRIL ELEVENTH, TO LAB THEATRE
AND ENJOY THE DRAMA. TICHETS, ONE DOLLAR.

-30-

2-3-28-77

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

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VIDEO

AUDIO

SLIDE #1.....

WHAT'S WHAT AT TEXAS TECH? AN EXPERIMENTAL
PRODUCTION OF ROBERT PATRICK'S DRAMA, "KENNEDY'S
CHILDREN," LAB THEATRE, APRIL ELEVENTH THROUGH
THIRTEENTH, SEVEN AND NINE P.M., TICKETS, ONE
DOLLAR FIFTY CENTS.

-30-

3-3-28-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

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WHAT'S WHAT AT TEXAS TECH? SPECIAL BROWN BAG PERFORMANCE
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ELEVENTH, TO LAB THEATRE AND ENJOY THE DRAMA. TICKETS, ONE DOLLAR.

-30-

4 -3-28-77

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10 seconds

WHAT'S WHAT AT TEXAS TECH? AN EXPERIMENTAL PRODUCTION OF
ROBERT PATRICK'S DRAMA, "KENNEDY'S CHILDREN," LAB THEATRE, APRIL
ELEVENTH THROUGH THIRTEENTH, SEVEN AND NINE P.M., TICKETS, ONE
DOLLAR FIFTY CENTS.

-30-

5-3-28-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Dan Tarpley

LUBBOCK--Texas Tech's University News and Publications staff received three first places, a second, a third and five honorable mentions for a total of 10 awards at the Southwest District meeting of the Council for the Advancement and Support of Education (CASE) in Tulsa.

Thirty-four colleges and universities in a five-state area were accorded 104 awards. Only Texas A&M University received more honors than Texas Tech. A&M received 12 citations.

Elaine Atkinson, artist in Graphics, received first place in the miscellaneous publications division with a calling card designed for Joyce Grimes, director of the Aquatic Center at Texas Tech.

Bea Zeeck, associate director of University News and Publications, was accorded first place in the special events category with the total coverage program for the formal opening of the Ranching Heritage Center. Judges noted that her "total effort shows imagination, creativity for press interest and superb management follow-up."

Pat Broyles of Photography received first place honors with a photo of three children and an instructor in a bakery, which illustrated a story on the university's Speech and Hearing Clinic.

-more-

Atkinson received second and third place commendations in the special events literature category with a poster, card and program for the theatrical presentation of "Royal Hunt of the Sun" and the Bicentennial Souvenir Program prepared for the formal opening of the Ranching Heritage Center and an honorable mention for a poster promoting "Gaslight," a theater production.

Broyles earned an honorable mention for his photo, "Library After Dark," which was used on the Texas Tech University telephone directory.

Broyles also received honorable mentions for his feature photo of the Walpole Windmill at the Ranching Heritage Center and his photographic essay of four photographs used in the Ranching Heritage Center formal opening souvenir program.

Texas Tech University News and Publications' chief photographer Debbie Elkins was accorded honorable mention for her "Gaslight" photo used on a poster.

A total of 666 entries competed in five categories: publications, communications programs, print media, photography and electronic media. Sixty-nine schools entered.

Jane H. Brandenberger, director of University News and Publications, and Zeeck attended from Texas Tech.

"We are proud of our staff at Texas Tech and believe the excellent showing our publications, photographic and news writing personnel made at the Southwest District meeting reflect their professional efforts on behalf of the university," Brandenberger said.

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Nita Gilger

LUBBOCK--"Kennedy's Children," a play by Robert Patrick, will be the final performance of the 1976-77 Texas Tech University Laboratory Theater, April 11-13, 7 p.m. and 9 p.m.

The lives of the late Marilyn Monroe and John F. Kennedy are used to symbolize the quest for beauty and high ideals in the production. Patrick contends that the suicide of Marilyn Monroe and the assassination of former President Kennedy were prophetic statements of the frustration and despair which would infect the Kennedy legacy throughout the decade.

In addition to the regular presentations, a "brown-bag" performance, with the audience bringing sack lunches, is scheduled for Tuesday (April 12), noon-1:30 p.m.

Tickets for "Kennedy's Children" go on sale at the University Theatre ticket office, Friday, (April 1). Cost is \$1.50 per person. The "brown-bag" performance tickets are \$1 per person.

More information can be obtained by calling David Weaver, promotion coordinator, at 742-3601.

-30-

7-3-28-77

TexasTech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Jean Terrell

LUBBOCK--Crosses tracing the history of Christianity and representing many eras and cultures will commemorate the Easter season at The Museum of Texas Tech University, April 5-May 15.

The Treasure of the Month collection includes crosses from 20 countries, including a delicate gold filigree cross given to a servant by the Empress Carlotta as she fled Mexico and a rare, carved wooden cross that was carried in Russian Orthodox religious processions.

The crosses are of silver, steel, jade, chrome, leather, hobnails and straw. And one was made in Vietnam of shrapnel. One is an antique glass candlestick. Many are pieces of jewelry. Some are ornate, some simple. There are even a few designed to disguise the cross itself.

The exhibit is sponsored by the West Texas Museum Association.

The cross has been the major symbol of the Christian religion since the crucifixion of Jesus of Nazareth. Early Christians would trace the "sign of the cross" in sand to identify each other among strangers who might be persecutors. After the conversion of the Roman Emperor Constantine in the 4th century the cross was used openly in churches, in homes and as adornments.

-more-

crosses / add one

Originally of the Roman style, the cross has changed through the growth of Christian denominations and through cultural traditions. The Museum exhibit chronicles these changes.

-30-

8-3-28-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Dan Tarpley

LUBBOCK--A six-session short course in beginning photography with emphasis on fundamentals of camera operation will begin Thursday (March 31.)

Special attention will be given to use of the 35 mm camera during the 6:30-9:30 p.m. sessions for six consecutive Thursday nights, beginning this week, Room 110, Mass Communications Building, at Texas Tech University.

John McKinney, mass communications faculty member, will teach the course. He emphasized that the instruction will concentrate on simple skills of camera operation and will be understandable to all adults interested in learning how to use a camera.

"Camera use will be taught before we get into instruction on how to shoot good pictures," McKinney said. "Common mistakes to avoid in composing, lighting, focusing and timing will be covered. Sessions will explore methods for finding and composing worthy subjects.

"Among subjects will be people, landscapes, animals, flowers, sunsets, farm crops, sports, travelogues, silhouettes, aerials, closeups and night effects.

-more-

beginning photography / add one

Enrollment is limited and persons interested in taking the short course are invited to call (806) 742-3385 and they will be notified if they can be accepted. The calls will be returned.

Tuition, \$25 per person, will primarily cover use of facilities.

Week-end camera trips on location may be organized by groups of students if they so choose. The teacher will be available to participate.

Students in the course will be expected to use their own cameras and process their films commercially.

McKinney, a new member of the Mass Communications staff, has been teaching photo groups for the past 25 years. His photographs have appeared in prestigious publications such as the "New York Times," "Saturday Evening Post," "American Art Review," and "Free-World Educational Exhibits by U.S.A."

The short course is sponsored by the Department of Mass Communications and the Division of Continuing Education. It carries 1.8 units of continuing education and certificates will be awarded to successful participants. There will be no examination.

cutline-----

FUTURE LAW STUDENTS--Attending the Texas Tech University Law School Accepted Students Day were, left to right, Elizabeth Martinez of San Antonio, William Wepfer of Raymondville, and Trey Cousins; Beaumont. They visit in the Law School Forum with Assistant Dean Annette Marple. The students, who will enter the Texas Tech Law School next fall, were among approximately 65 who attended the orientation day March 26. (Tech Photo)

-30-

9-3-29-77

TexasTechNews

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Worth Wren

ATTN: News Directors

CHICANO AWARENESS WEEK BEGINS WEDNESDAY, MARCH THIRTIETH, AT TEXAS TECH UNIVERSITY, WITH A DISCUSSION BY THE REVEREND ANTONIO GONZALEZ OF THE LUBBOCK CHRISTIAN RENEWAL CENTER.

REVEREND GONZALEZ WILL SPEAK ON "WHO IS THE MEXICAN-AMERICAN?" IN THE SENATE ROOM AT SEVEN P.M.

GERALDO RIVERA, HOST OF ABC-TV'S "GOOD NIGHT, AMERICA," WILL HEADLINE THURSDAY'S ACTIVITIES WITH A DISCUSSION ON "BROADCAST JOURNALISM AS A TOOL FOR SOCIAL CHANGE." HIS TALK BEGINS AT EIGHT-FIFTEEN P.M. IN THE UNIVERSITY CENTER THEATRE.

LOTERIA MEXICANA, OR MEXICAN BINGO, IS SET FOR THE U-C BALLROOM FROM EIGHT TO TEN P.M. FRIDAY. THERE IS NO ADMISSION CHARGE FOR THIS EVENT.

ACTIVITIES CONTINUE THROUGH APRIL SIXTH, WITH MEXICAN FOODS AND PASTRIES, DANCES AND BILINGUAL THEATER FEATURED.

-30-

10-3-29-77

cutline-----

MAN AND THE WILDERNESS--A Texas Tech University research team, working with the U.S. Forest Service, is developing guidelines to protect aesthetic values in the Rocky Mountains and southwestern wildlands while, at the same time, people use the areas for recreation. The study takes into consideration a Forest Service view that beauty, along with timber, water, forage, minerals and recreation, is a natural resource. This scene is from the Colorado study area. (Tech Photo)

-30-

11-3-29-77

cutline-----

SCENE CHANGE--Texas Tech University landscape architects work to develop guidelines to protect Rocky Mountain and southwestern wildlands. A slide picture of a site is imposed on a mirror surface of this "work table." On tracing paper placed over the glass top, student assistant Larry Sparks superimposes the outline of a proposed man-made change to determine the visual effect. Principal investigators on the project, Profs. Joe T. Verdoorn, left, and James D. Mertes, use the results to develop the guidelines. Sparks is the son of Mr. and Mrs. R. E. Sparks of Coleman. He is a senior majoring in landscape architecture at Texas Tech. (Tech Photo)

Texas Tech News

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CONTACT: Dan Tarpley

LUBBOCK--Two Fort Worth oilmen, J. C. Wheatley and C. L. Veach with The Western Company of North America, will give the Southwestern Petroleum Short Course participants at Texas Tech University a look at the development of neutron logging.

The 24th annual short course, April 21-22, is sponsored by the petroleum industry of West Texas in cooperation with the Department of Petroleum Engineering at Texas Tech. Approximately petroleum engineers, technicians and management personnel are expected to attend.

Wheatley and Veach report that since the introduction of neutron logging as an indicator of porosity in the early 1940's, "much technological development has been directed toward overcoming the dominating effect of the bore hole on system response."

Simplified models are used to demonstrate the evolution of this measurement technique from the single source and detector configuration to today's complex geometry. The Fort Worth oilmen will discuss the effectiveness of present systems in providing accurate formation porosities.

Their presentation is one of 36 to be delivered during the two-day short course.

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot. Thank you again very much.)

10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? SYMPHONY ORCHESTRA
GRADUATE SOLOISTS CONCERT, EIGHT-FIFTEEN P.M.,
THURSDAY, APRIL SEVENTH, FREE IN UNIVERSITY
CENTER THEATRE.

-30-

13-3-29-77

Texas Tech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot. Thank you very much.)

10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? TROMBONE ENSEMBLE
CONCERT, ROBERT DEAHL DIRECTING, EIGHT-FIFTEEN
P.M., WEDNESDAY, APRIL SIXTH, FREE IN RECITAL
HALL.

-30-

14-3-29-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Prabhu Ponkshe

LUBBOCK--The arid lands in the Middle East may well find a newcomer in forage production--the fourwinged saltbush.

A native U.S. salt-tolerant plant, the saltbush not only thrives under desert conditions but produces high-protein forage for livestock.

Preliminary investigations by Texas Tech University researchers indicate the possibility of transplanting the saltbush in the Egyptian deserts if seed production and entomological problems can be overcome. The biological name of the fourwinged saltbush is "*Atriplex canescens*."

Drs. J. R. Goodin and D. K. Northington of the biological sciences faculty at Texas Tech recently visited Egypt to lay groundwork for future joint research on salt-tolerant plants, or halophytes. The trip was funded by the Smithsonian Institution Foreign Currency Exchange Program and coordinated by the International Center for Arid and Semi-Arid Land Studies (ICASALS) at Texas Tech.

The two biologists have previously investigated halophytes, or salt-tolerant plants, from southwestern United States, the Mediterranean region, South America and Australia.

-more-

The idea of transplanting native American halophytes in Egypt first originated when Dr. M. A. Zahran of Mansoura University in Egypt came to Texas Tech to attend the International Salinity Conference last August. Zahran presented a paper on transplantation of salt-tolerant plants in saline soils in Egypt.

The biologists have identified entomological problems associated with seed production. These will be investigated by Drs. David E. Foster and James K. Wangberg of the entomology faculty at Texas Tech.

Foster and Wangberg will make a detailed study of which insects affect the saltbush, "as it is one of the least studied species."

A number of insect species are known to attack it, but there is not enough documentation, Foster said. In 1970, grasshoppers severely damaged this species in Utah.

"The fourwinged saltbush has one advantage over other halophytes. Salinity does not increase the toxic contents of the bush. In many halophytes, increasing salinity will increase oxalic acid, but in the saltbush it does not," Goodin said.

The nutritive value of several of these species is high. The digestible protein content averages about 12 per cent for certain species, approximately the same for alfalfa. About ten inches of rainfall produces a significant amount of feed, he added.

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Dan Tarpley

LUBBOCK--Six Tulsa men affiliated with the petroleum industry will participate in the program for the Southwestern Petroleum Short Course at Texas Tech University.

The 24th annual short course, April 21-22, is sponsored by the petroleum industry of West Texas in cooperation with the Department of Petroleum Engineering at Texas Tech. Approximately 500 petroleum engineers, technicians and management personnel are expected to attend.

Tulsa speakers include T. J. Griffin Jr. and Peter E. Clark, research chemists with Dowell Division of Dow Chemical Company; Calvin K. Deem, analytical chemist, and W. P. Manning, research leader, gas processing, both with C-E Natco; Dr. William R. Almon, research geologist with Cities Service Oil Company, and O. R. Wagner, senior research scientist with Amoco Production Company.

Griffin's paper will present laboratory studies and field results of a new spacer and a unique chemical wash designed to be conveniently and economically applied ahead of the cement in primary cementing operations.

-more-

Clark will discuss temperature effects on fluids, cool-down in a fracture and prop transport under fracture conditions.

Deem will discuss the use of the Coulter Counter in oil field application. He said the adaption of the Coulter Counter for industrial purposes has enabled "great strides" to be made, particularly in the area of filtration.

Manning will join Gary Sams, also of C-E Natco, in presenting two methods for improving the thermal efficiency of fired equipment.

"High thermal efficiency in fired equipment such as indirect heaters, propane vaporizers, Therma-Paks, and low-pressure steam generators, requires the control of combustion air flow and a low stack gas temperature. C-E Natco has developed two new devices that accomplish both of these requirements," Manning said.

Almon's topic is sandstone diagenesis as a factor in stimulation design and Wagner's is the use of tracers in diagnosing interwell reservoir heterogeneities and field results.

Thirty-six papers, demonstrations and other presentations are scheduled for the short course.

Griffin lives at 4810 Bermuda Ave., Sand Springs; Clark at 6708 E. 73rd, Tulsa; Deem at 303 W. 32nd St. S., Sand Springs; Manning at 4313 E. 51st St., Tulsa; Almon at 8641 E. 30th St., Tulsa; and Wagner at 10554 E. 3rd., Tulsa.

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot. Thanks much.)

10 seconds

VIDEO

AUDIO

SLIDE #1.....

WHAT'S WHAT AT TEXAS TECH? SENIOR CITIZENS HELPING
SENIOR CITIZENS, CONSUMER ADVISORY PROGRAM FOR
SENIOR CITIZENS WITH MONEY MANAGEMENT PROBLEMS,
DEPARTMENT OF HOME AND FAMILY LIFE, 742-3048.

-30-

17-3-29-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

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10 seconds

WHAT'S WHAT AT TEXAS TECH? TROMBONE ENSEMBLE CONCERT,
ROBERT DEAHL DIRECTING, EIGHT-FIFTEEN P.M., WEDNESDAY, APRIL
SIXTH, FREE IN RECITAL HALL.

-30-

18-3-29-77

Texas Tech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot. Thank you again very much.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? SYMPHONY ORCHESTRA GRADUATE
SOLOISTS CONCERT, EIGHT-FIFTEEN P.M., THURSDAY, APRIL SEVENTH,
UNIVERSITY CENTER THEATRE.

-30-

19-3-29-77

TexasTech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: B. Zeeck

LUBBOCK--An exhibition of 2,000 years of North American Indian art, described as the most important collection of its kind ever assembled, will be open to Lubbock area viewers by a special arrangement for a group tour to Kansas City.

The tour will depart Lubbock May 5 and return May 7, traveling by air. The cost is \$265 including transportation, hotel accommodations, a dinner and a luncheon, as well as admission to the exhibit.

Assembly of the 850 objects in "Sacred Circles" took four years and reflects a wide diversity of Indian culture, geographically ranging from Alaska to Florida. It will be on display at the Nelson Gallery in Kansas City. Assistant Director Ralph T. Cole of the Nelson Gallery coordinated the collection with the Arts Council of Great Britain.

The Travel Committee of the West Texas Museum Association arranged the special trip to see the exhibition. Those interested should call the association office, 742-2424.

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20-3-30-77

TexasTech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: B. Zeeck

LUBBOCK -- The Ranching Heritage Center will open to the public for the 1977 season on April 1.

At the same time The Museum of Texas Tech University, with the center, will begin new hours, from noon to 5 p.m. Tuesday through Saturday and from 1 to 5 p.m. Sunday.

Added to the Ranching Heritage Center tour this year is a glimpse into the past of the XIT Ranch. Las Escarbas, dedicated March 27, is furnished for the first time this year. It was originally a division headquarters of the 3,050,000-acre XIT which stretched for about 200 miles, north and south, in western Texas.

Cost for touring the center is \$3 per family, \$1 for individuals and 50 cents for students. Tour fees assist in maintenance of the center, an authentic outdoor exhibit depicting the history of American ranching.

After May 1 hosts and hostesses will be in the buildings on Sundays to assist with interpretation.

At the center are an early log cabin from the Texas coastal plains, a double log cabin from the Hill Country, dugouts, several other ranch dwellings, a meat and milk house, blacksmith shop, office, schoolhouse, granary, barn, bunkhouse, windmills and authentic paraphernalia. One of the most popular buildings for visitors is the picket and sotol house, brought from Cochran County as an example of dwellings often used by early cattle and sheep ranchers in the arid southwest.

Texas Tech News

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CONTACT: B. Zeeck

ATTN: Outdoor and Building Editors

LUBBOCK--Cut, slash and build.

Historically, that has been America's pattern in converting wilderness to resort and recreation areas, but public demand for keeping the nation's scenic beauty is changing old practices.

Texas Tech University landscape architects, with support from the Eisenhower Consortium, are devising site development guidelines to protect aesthetic values in Rocky Mountain and southwestern wildlands. They expect the methodology to be adaptable wherever man may encroach on wilderness areas.

The Eisenhower Consortium for Western Environmental Forestry Research was organized for joint cooperative research between the U.S. Forest Service's Rocky Mountain Forest and Range Experiment Station and nine universities. Consortium research deals with the problems of people and their interaction with the environment.

Profs. James D. Mertes and Joe T. Verdoorn are principal investigators for the guidelines project. Both are Texas Tech faculty members in park administration and landscape architecture.

Working with them is Huberitus Mittmann, regional landscape architect for the U.S. Forest Service Region II, the Rocky Mountain region.

-more-

scenic beauty / add one

The study area is centered in three Colorado counties, Eagle, Summit and Pitkin, west of Denver. The study site is Beaver Creek Valley where Vail Associates, Inc., is considering establishment of a ski resort bordering the White River National Forest five miles west of Vail.

Recognizing intrinsic aesthetic values of a wildland environment, the study is concerned with factors which alter the site's characteristic landscape and undermine scenic resources of the region.

"It is not enough to say that the visual impact of a road or ski run that might be cut through a wildland area harms the view," Verdoorn said. "We must be able to relate the development to the site's landscape character."

Public complaints, researchers said, relate to such things as clearcutting timber, haphazard second home development and resort construction, and the intrusion of power lines and roads.

The study's result should be guidelines to demonstrate planning, design, construction and management procedures lessening adverse visual impacts.

"These will be organized," Verdoorn said, "in graphic and narrative form for design professionals, but they also will be easily understood by the public."

The work will include suggestions for adapting the guidelines to other areas.

The 18-month Colorado study is covering the four seasons so that the view will be compatible with the natural scenery year-round.

"Beauty, along with timber, water, forage, minerals and recreation," Dr. Mertes said, "is recognized as a natural resource by the Forest Service. Our goal is to learn how to manage wildlands to provide a broad range of resources and recreational opportunities, while maintaining scenic values that primarily attract people to wildland environments."

Fundamental to the guidelines is deriving the design from the site's nature, a concept advanced by John Simmonds, Ian McHarg and other leading landscape architects.

To do this they have taken approximately 400 slides in the three-county area, shown on a horizontal screen over which is placed tracing paper. On the paper, landscape architects draw into the slide picture various structural shapes such as roads, buildings or ski runs. In this way they can see how any man-made structure will impact upon the landscape.

"By this technique we can be sure the natural site is kept as the design's dominant feature and that man-made features blend with that site's scenic values," Dr. Mertes said.

The photographic inventory includes a catalogued file of almost all man-made features that now detract from the natural scenery. The catalog's purpose is to identify repeated mistakes and to incorporate in guidelines means to avoid future errors leading to visual pollution.

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CONTACT: Jane H. Brandenberger

FOR IMMEDIATE RELEASE

Frank W. Elliott will assume the deanship of the Texas Tech University School of Law on June 1, President Cecil Mackey announced today.

The Fulbright & Jaworski Professor of Law at The University of Texas School of Law, Elliott has served on that faculty since 1958.

Prior to that time, he was briefing attorney for the Supreme Court of Texas, 1957-'58, assistant attorney general of Texas, 1957, and officer in the U. S. Army, 1951-'53, with Korean service in '52-'53, and again in 1973-'74 as visiting professor of law in the Judge Advocate General's School.

Elliott served as parliamentarian of the Senate for the 61st and 62nd Texas Legislatures and as director of research for the Texas Constitutional Revision Commission in 1973.

Since 1953 he has been on duty in the U. S. Army Reserve, in which he is presently a colonel in the Judge Advocate General's Corps.

He is a graduate of the New Mexico Military Institute (Junior College), 1949, of The University of Texas (B.A. in mathematics), 1951, and of the UT Law School (LL.B.), 1957. He did graduate work in law at Columbia University in 1961-'62.

"We're delighted to have a man of Frank Elliott's ability to assume the responsibilities of the Dean of the Law School. An outstanding scholar, excellent teacher and widely recognized authority on Texas legal procedure, he comes to Texas Tech with the enthusiastic support of the faculty and students of the Law School," President Mackey said today.

Dr. Mackey also expressed appreciation of the "superb job that Richard Amandes has accomplished as the founding dean of the Tech Law School in establishing and guiding the school through its first decade."

Author of numerous publications on Texas law, Elliott is married to the former Winona Trent. They are parents of an 18 year old daughter, Lindsey.

He was born in Cotulla, Tex., on June 25, 1930.

TexasTechNews

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CONTACT: Nita Gilger

LUBBOCK--Eight Texas Tech University students have received Leadership Doctoral Program fellowships for part-time internships to promote professional growth.

The students are Claude V. Bridges of Chattanooga, Tenn., George Peppas of Atlantic City, N.J., Julio Fernando Madrigal of Laredo, Bonnie Fairall and David Caffey of El Paso, Sharon Johnson of Lubbock, Richard Stevik of Lancaster, Pa., and Charles Swift of McAllen.

Mrs. Helen DeVitt Jones has granted these fellowships to Tech for the second consecutive year.

The fellowships are funded at \$7,000 per year, with additional financial support given for other features of the program.

Weekly seminars directed by Dr. Bruce D. Mattson, professor of special education, are presented for the students by nationally known educators, as well as by the Jones Fellows themselves.

The Fellows present seminars on programs with which they have been associated, internships they are conducting, and proposed future emphases.

Dr. Robert H. Anderson, chairman of the fellowship committee and dean of the College of Education, said the Jones fellowships are highly competitive, since few universities offer such generous funds to doctoral students without requiring some work or service in return.

-more-

Ten more fellowships will be granted during the 1977-78 college term and recipients will be announced soon, Anderson said.

The recipients, majors and minors and internships are:

Bridges, majoring in administrative supervision and minoring in educational foundations. His internship with the Plainview Independent School District focuses on the further development and refinement of a clinical supervision model for traditionally organized schools.

Peppas, majoring in educational administration, with a minor in counseling and guidance. His internship is being served at the central office of the Lubbock Independent School District. Peppas, who taught at the American Community Schools of Athens, is on sabbatical leave and plans to return to Greece this summer.

Madrigal, a counselor education major, with a minor in higher education. He is an academic counselor on the extended medical team of the Posey Health Center of the Texas Tech School of Medicine.

Fairall, formerly a consultant in individualized instruction in El Paso Public schools, majoring in curriculum development and minoring in special education. Her internship is with the field-based undergraduate teacher education program.

Caffey, formerly with El Paso Community College, majoring in higher education and minoring in political science. His internship is with Texas Tech Vice President for Administration Kenneth Thompson.

Johnson, an early childhood education major with a minor in reading. Her internship is with the Teacher Training Within Individual Guided Sources program in elementary education.

jones fellows / add two

Stevik, majoring in education foundations and minoring in curriculum and instruction. His internship is in team teaching in undergraduate educational psychology and secondary education and supervising Texas Tech practicum students at Estacado High School.

Swift, majoring in curriculum and instruction and minoring in legal studies. His internship is with Vice President of Academic Affairs Charles S. Hardwick in the area of international education at Texas Tech.

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Texas Tech News

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CONTACT: Gail Molsbee

LUBBOCK--Mary Catherine Pendleton, Texas Tech University part-time instructor and graduate student in music, will present her graduate recital, April 3, 3 p.m., in the Recital Hall.

She has presented solo piano and harpsicord performances for KTXT-TV and has performed with the Lubbock and Amarillo Symphonies.

Pendleton studied with Samuel F. Pendleton, Thomas I. Redcay and currently with Judith Burganger, Texas Tech's Browning Artist in Residence. The Lubbock native received the Bachelor of Music Literature and Master of Applied Music degrees from Texas Tech.

Her recital program includes "French Suite in C Minor" by Bach, "Sonata in A Major" by Beethoven, "Etudes" by Debussy, and "Prelude" and "Barcarolle" by Chopin.

The performance is free and open to the public.

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26-3-30-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Jean Terrell

LUBBOCK--Prof. Marvin J. Dvoracek will assume duties as chairperson of the Department of Agricultural Engineering and Technology in the Texas Tech University College of Agricultural Sciences on April 1. Announcement of the appointment was made today by Agricultural Sciences Dean Anson R. Bertrand.

"I look forward to serving as the new chairperson of the Department of Agricultural Engineering," said Dvoracek. "I feel that much can be done to solve vital problems in today's agriculture by training people to achieve maximum food production with minimum expenditures by combining knowledge of agriculture and sound engineering principles."

Dvoracek joined the faculty at Texas Tech in 1962 after teaching at Texas A&M University and the University of California at Davis. He has conducted research in soil and water engineering, with emphasis on groundwater recharge.

He was named Outstanding Engineering Professor by the Texas Tech chapter of Tau Beta Pi, national engineering honorary, and has been honored for teaching excellence as a recipient of the university's Distinguished Teaching Award.

Dvoracek replaces Dr. J. Wayland Bennett, who has been serving as acting chairman of the department. "I am extremely pleased with the appointment of Marvin Dvoracek," said Bennett. "He is well-known in the area and in the agricultural engineering profession, and this will provide him an opportunity to assist the department in working with agriculture and agribusiness interests."

"After April 1, I will be devoting all my time to teaching and to my position as Director of Industry Relations for the College of Agricultural Sciences. I look forward to working with Professor Dvoracek and other members of the department in the future."

Texas Tech News

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CONTACT: Gail Molsbee

LUBBOCK--Cathy Crist, a mezzo-soprano from Corpus Christi, will present a graduate recital, April 4, 8:15 p.m., in the recital hall at Texas Tech University.

The Texas Tech teaching assistant is working toward the master of music degree. She received the bachelor of music degree in voice at Texas Tech in 1976. A member of the Texas Tech Choir and the Texas Tech Music Theatre, she is a student of John A. Gillas.

She recently played the role of Maddalena in Texas Tech's opera production of "Rigoletto." She will play the role of Zita in Gianni Schicchi in Texas Tech's "Trilogy of Operatic Comedy" in April.

Her recital program includes songs by Mozart, Strauss, Hugo Wolf, Gustav Mahler, Jean Berger, Daniel Johnson (Texas Tech student), and Edward Boatner. One of the featured numbers will be a cycle titled "Five Songs" by Jean Berger.

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28-3-30-77

Texas Tech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot. Thanks.)

10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? NEW ARTIST SERIES,
CONCERT BY SAINT ELMO'S FIRE, EIGHT-FIFTEEN P.M.,
TUESDAY, APRIL FIFTH, UNIVERSITY CENTER THEATRE.

-30-

30-3-30-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
CONTACT: Dan Tarpley

LUBBOCK--Receipt of a grant of \$10,000 this week marks the fourth year of Texas Tech University's participation in the Gulf Student Loan Program.

The grant is the fourth of five in equal amounts to be awarded the university over a five-year period to establish the fund at the institution.

The presentation was made to Texas Tech President Cecil Mackey by W. L. Taylor, Gulf Oil district manager from Dallas, and Paul Howell, Lubbock Gulf Oil representative.

The Gulf Student Loan Fund, believed to be the first such program provided by industry, is a part of the company's Aid to Education Program which will distribute \$3.2 million to various colleges and universities in the U. S. during the year.

Through the program individual loans to student, not exceeding \$1,000 in any one year, are made repayable to the university after the student completes his education. This provides a continuing turnover of the original grants and provides a fund which can be operated in perpetuity by the institution.

Loans are made at the lowest feasible interest rates which are consistent with or below those which students must pay to secure funds from other sources, but in any case not above the prime bank rate at the time of the borrowing.

Gulf believes the program is an important part of the aid package needed to help students at the university meet rising costs of education and promote a sense of responsibility by students concerning payment of the cost of their education.

Cutlines-----

GULF ADDS TO TEXAS TECH LOAN FUND--Texas Tech University President Cecil Mackey, left, receives a \$10,000 grant from the Gulf Student Loan Program, presented by W. L. Taylor of Dallas, district manager for Gulf. The presentation was made to Dr. Mackey by Taylor and the Lubbock Gulf representative, Paul Howell of 5502 28th St. The presentation was made this week in the Texas Tech president's office.

(Tech Photo)

30-3-30-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Dan Tarpley

LUBBOCK--Fred D. Griffin, vice president and director of engineering for Lufkin Industries, Inc., will deliver a paper on maintenance of oilfield pumping units at the Southwestern Petroleum Short Course at Texas Tech University.

The 24th annual short course, April 21-22, is sponsored by the petroleum industry of West Texas in cooperation with the Department of Petroleum Engineering at Texas Tech. Approximately 500 petroleum engineers, technicians and management personnel are expected to attend.

Griffin will present a "down-to-earth" approach to pumping unit maintenance, including proper alignment, recommended lubrication procedures and preventive maintenance suggestions, as well as recommended safety precautions.

Griffin's presentation will be one of 36 to be delivered during the two-day short course.

Griffin lives at 1009 Copeland, Lufkin.

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32-3-30-77

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot. Thank you.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? SENIOR CITIZENS HELPING SENIOR
CITIZENS, CONSUMER ADVISORY PROGRAM FOR SENIOR CITIZENS WITH
MONEY MANAGEMENT PROBLEMS, DEPARTMENT OF HOME AND FAMILY LIFE,
742-3048.

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33-3-30-77

Texas Tech News

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CONTACT: Gail Molsbee

LUBBOCK--"Oedipus the King" by Sophocles will be the Texas Tech University Theatre's final production of the 1976-77 season, April 15-20, 8:15 p.m. nightly.

Choreographing the Greek tragedy will be Richard Waite, Texas Tech theater arts instructor.

The chorus in Greek tragedies served several functions. Members were used as characters with whom the actors could converse. They opened the play giving the audience background for the play. They can describe offstage action or reflect upon the meaning of a situation. Playwrights often used the chorus to interject their own feelings and opinions.

"Our chorus will act, sound and move as an individual unit," says Waite. "They are a chorus of elders. I want them to be dignified, though they will possible be less energetic in movement than choruses in other productions."

Waite directed a production of "Antigone", a Greek tragedy, while at Church College in Hawaii. He directed three different productions of "Electra" and the Lubbock Theatre Center's production of "George M!"

Ticket sales begin April 1 at the University Theatre ticket office. Costs are \$2.50 for the general public, \$1.75 for high school students and \$1 for Texas Tech students.

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot. Thank you very much.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? FACULTY RECITAL WITH ANTHONY
BRITTIN ON HORN, EIGHT-FIFTEEN P.M., TUESDAY, APRIL TWELFTH,
FREE IN RECITAL HALL.

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36-3-30-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Kay Hord

LUBBOCK--The Texas Tech University Symphony Orchestra will present a concert at 8:15 p.m., Thursday (April 7), in the University Center Recital Hall. The program, an annual graduate soloists concert, will feature Texas Tech graduates Barbara Barber, violin, and Nancy Young, piano.

The concert is free to the public.

The Texas Tech Symphony Orchestra, composed of 60 auditioned members, makes an annual spring tour. It is under the direction of Paul R. Ellsworth, professor of music at Texas Tech.

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Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Gail Molsbee

LUBBOCK--Approximately 2,500 area high school students will compete in University Interscholastic League regional events at Texas Tech University on April 20-23 and 27-30.

Dr. Ray Purkerson, Tech assistant professor of education, is director general of the 1977 Region I Conference AAAA and AA competition.

Boys' and girls' teams will compete in literary, speech and drama competition and girls' teams in track and tennis, April 22-23. Girls' golf is scheduled for April 20-21.

Boys' track, tennis and golf are scheduled a week later, April 27-30.

The top three winners in each event from district competition will participate in the regionals. Thirty-one schools from five districts will combine for the 4-A conference, and the remaining 45 schools divide into eight districts for the 2-A conference.

Medals, certificates and trophies will be awarded to first and second place winners in each event. Winners will advance to state competition in Austin, May 5-7 and 12-14.

Contest directors are Dr. John W. Cobb, Dr. Ed Burkhardt, Dr. Mike Bobo, Dr. Danny R. Mason, Jeannine McHaney, Susie Lynch, Col. Albert J. Geraci, E. Ruth Morrow, James F. McNally and Dr. Richard A. Weaver.

Others include Dr. William J. Jordan, Dr. Vernon R. McGuire, Dr. John F. Deethardt, Dr. T. Richard Cheatham, Dr. Margaret L. McLaughlin, Dr. Keith V. Erickson, Nat Williams, Dr. Philip E. Isett, Tommy P. Allen, Dr. Raymond T. Brebach, Dr. Robert A. Moreland, Dr. R. Heyward Ramsey, Dr. Robert A. Holwerda and Dr. William R. Paseward.

TexasTech News

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CONTACT: Kay Hord

LUBBOCK--Terese Stewart, doctoral candidate in the Texas Tech University Department of Music, will present a graduate piano recital at 8:15 p.m., Saturday (April 9), in the University Center Recital Hall.

Stewart, a part-time instructor at Texas Tech, is studying with Judith Burganger, Browning Artist-in-Residence in the Department of Music.

The recital program will include works by Mozart, Schumann, Bartok and Beethoven.

Stewart has performed with the Amarillo, Midland-Odessa and Texas Tech Symphony Orchestras.

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39-3-31-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Kay Hord

LUBBOCK--The Trombone Ensemble of the Texas Tech University Department of Music will present a free concert at 8:45 p.m., Wednesday (April 6), in the University Center Recital Hall.

The ensemble is directed by Robert W. Deahl, professor of trombone at Texas Tech and associate chairman of the Music Department.

The concert is open to the public.

Historical sacred music for trombones will be featured.

Members of the ensemble are David R. Bellows, Dennis P. Biggan, Jon Bohls (Coronado High School faculty member), Jennifer Davis, Alberto DeLeon, Kelvin L. Dobbins, James C. Edwards, J. Mark Etlinger, Richard C. Frazier, John C. Hering, Wayne C. Herrell, John M. Lowe, Donald J. Lucas, Ralph P. Luethy, Richard D. Mitchell, Donald W. Starks, Charles A. Stiefvater, P. Mark Surface, George Thaxton and Tony C. Thomas.

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40-3-31-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Nita Gilger

LUBBOCK--Approximately 1,500 people die each year in Mexico and parts of South America because of scorpion stings...and yet only five of 2,000 scorpion species have fatal stings.

Dr. Oscar Francke, Texas Tech University professor of entomology and biology, says scorpions must first be classified before the harmful aspects of the dangerous minority of scorpions can be effectively understood and controlled.

Classification and experimentation of growth patterns are major reasons for Francke's seven-year study of scorpions. He possesses a collection of 20,000, 20 of them live specimens.

Francke is one of five people in the United States researching scorpion classification.

He has collected specimens in California, Oregon, Nevada, Utah, New Mexico and Texas. He even exchanges native scorpions for foreign species with collectors from other countries.

The dangerous scorpions are found in Mexico, Brazil and Egypt. There also is one dangerous species in Arizona, but few fatal stings are reported.

Francke said 80 per cent of the sting accidents occur in the home, mostly while the victims are sleeping.

-more-

scorpions / add one

Scorpions, or arachnids (relative of the spider), are more beneficial than harmful, according to Francke, because they eat insects such as crickets and roaches. Scorpions have no known diseases.

"More people die from the sting of the honeybee in the U.S. than from scorpions," the biologist commented.

Francke has found 19 kinds of scorpions in Texas, none dangerous. Three kinds live on the High Plains.

The *Centuroides vittatus* grows to two and one-half inches. A slender, brown scorpion with dark colors on its back, it lives in cracks in the Caprock and in wooden frame houses and exists on a diet of roaches and moths.

Vaejovis coahuiae, one and one-fourth inches in length, have fat leglike appendages (pedipalp) and black body markings. Living under rocks and cowchips, they eat termites and beetles.

The three-fourth inch long, light brown *vaejovis waueri* have black appendages and tails. Francke said the *vaejovis waueri*, rarest kind of scorpion on the High Plains, usually live along the Rio Grande.

The average scorpion is one and one-half to three inches long, with the largest growing to eight inches in Africa and India.

Three-foot scorpions lived 400 million years ago before the dinosaurs, Francke added.

Today's average scorpion bears live offspring, about $\frac{3}{8}$ inch long. The mother, which can have a maximum of 95 babies a year, carries the little ones on her back.

scorpions / add two

Male scorpions are smaller than females, but only a microscope can differentiate.

Scorpions, which hibernate in winter, can go for a year without food or water, according to Francke.

He raises scorpions for his own research in classification and general studies. "They are not much trouble," Francke said. "I only have to feed them every couple of months or so."

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41-3-31-77

Texas Tech News

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CONTACT: Nita Gilger

LUBBOCK--Mental, social and health problems of older persons will be discussed at a Texas Tech University workshop, April 29-30.

Topics are "Myths of Aging," "Stress, Aging and Coping," "The Family, Aging and the Health Care Regimen," "Rehabilitating the Elderly," "Mental Health of the Aged," "Attitudes Toward Working With Special Populations and Aged," "Nursing Interventions," and "Aging and the Future."

Guest speakers include Kay Campbell, local occupational therapist; R. Keith Cochran, director of supportive services, Texas Tech's Program for Older Texans; Jeffrey Elias, Texas Tech psychology professor; Gayle McComb, director of nurses, West Texas Home Health Agency; and Mary Williams, coordinator of the Lubbock Meals on Wheels project.

Sessions will be held in the Coronado and Mesa rooms of the University Center, beginning at 8 a.m. both days. Registration, open to the public, is from 8-8:30 a.m., April 29.

Participants who attend all sessions of the workshop will be eligible for .6 Continuing Education units.

Tuition is \$25 per person if paid before April 29. A charge of \$5 will be added to the fee if paid on the first day of the workshop. Refunds must be requested before April 18.

Workshop sponsors are the Texas Tech Health Education Division of the Health, Physical Education and Recreation Department of the College of Arts and Sciences, and the Division of Continuing Education.

More information can be obtained by calling Dr. Micheal Mezack, associate dean, Division of Continuing Education, at (806) 742-3797.

Texas Tech News

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CONTACT: Nita Gilger

LUBBOCK--Twenty-two ROTC cadets from the Aerospace Studies and Military Science Departments will be commissioned second lieutenants in the United States Air Force and Army, May 14, 2 p.m., in the Texas Tech University Theater.

Maj. Gen. James R. Brickel, commandant of the Air Force Reserve Officer's Training Program, will be guest speaker for the ceremony. He also is vice commander of Air University, Maxwell Air Force Base, Ala.

Brickel is a command pilot with more than 3,000 flying hours. His military decorations and awards include the Air Force Cross, Distinguished Service Medal, Silver Star, Legion of Merit, Distinguished Flying Cross, Air Medal with 10 oak leaf clusters, Presidential Unit citation emblem, Air Force Outstanding Unit Award Ribbon with one oak leaf cluster, and the Republic of Vietnam Gallantry Cross with Palm.

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43-3-31-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: B. Zeeck

LUBBOCK--Circle theater, directed by Mona Brooks, entertained children from Mecham School at The Museum of Texas Tech University Thursday, as the youngsters joined Hansel and Gretel in the fairy tale characters' efforts to escape the wicked witch.

Ms. Brooks, a candidate for the doctor of fine arts degree at Texas Tech University, used the play for an experiment in which the young audience is introduced first to theater concepts and then asked to help actors or participate in the action of the show.

"Children learn through involvement and actual experience," she said. "It is basically a meshing of theater and creative dramatics."

Children were introduced Wednesday to concepts of costumes, sets, imagination and acting. On Thursday they sat in a circle on the floor and watched the story of Hansel and Gretel unfold in the circle they had made. As the play developed they were called upon to help with the action, and they willingly did.

Performers included students of Texas Tech University's Department of Speech and Theater Arts: Tommy Culpepper as Hansel; Diane Brown, Gretel; Debbie Bigness, the witch; Franki Hastings, the mother; Michael Roe, father; and Kathy Cox and Steve Tolle as mimes.

Ms. Brooks specialized in children's theater at Northeast Louisiana University where she earned her bachelor's and master's degrees. For four years she directed Masquers, Jr., a children's theater, and taught at Fairmont State College in West Virginia. She is a part-time instructor of theater arts at Texas Tech.

cutline-----

HANSEL AND GRETEL--Tommy Culpepper, who is studying theater arts at Texas Tech University, performs as Hansel in a demonstration of circle theater for children at The Museum of Texas Tech University. The story of Hansel and Gretel was performed by students of Mona Brooks, instructor of theater arts. Museum science students and docents observed the demonstration of child involvement in creative dramatics. (Tech Photo)

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44-3-31-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Nita Gilger

LUBBOCK--"Improving Communication and the Use of Time" is the emphasis of a workshop at Texas Tech University on April 23.

The workshop, open to all interested persons, will focus on needs of attorneys and legal secretaries. Sponsors are the Texas Tech University School of Law, Division of Continuing Education, Lubbock Legal Secretaries Association and Junior Bar of Lubbock.

Sensitivity to communication in interpersonal relationships and techniques to develop ways to use time more effectively in the law office and elsewhere are the sessions' purposes.

Course instruction will be by Edward F. Blehl, Pennsylvania State University psychology professor.

All sessions will be in the Lubbock Room of the University Center. The seminar will meet Saturday (April 23), 9:30 a.m.-noon and 1:30-4 p.m. Registration is 9-9:30 a.m.

Tuition is \$15 per person and refundable until April 15.

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45-3-31-77

Texas Tech News

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CONTACT: Dan Tarpley

LUBBOCK--At least 10 Midland petroleum industry experts will have roles in the program for the Southwestern Petroleum Short Course at Texas Tech University.

The 24th annual short course, April 21-22, is sponsored by the petroleum industry of West Texas in cooperation with the Department of Petroleum Engineering at Texas Tech. Approximately 500 petroleum engineers, technicians and management personnel are expected to attend.

They include:

John F. Barnes, Jr., of 3623 Imperial, and Frank G. Cornish of 4412 Gulf St., both development geologists with Getty Oil Company; Bill A. Kithas of 2400 Haynes, division sales representative for Welex; H. Edward Lindsey Jr. of 1611 Gulf, president-owner of MWL Tool and Supply Company; Robert H. Gault of 4005 Roosevelt, manager of Production Development, Bethlehem Steel Company, Supply Division;

Barry S. Welton of 1803 Hughes, president of End Devices, Inc.,; Jacque P. Stoltz of 3211 W. Dengar, engineering supervisor, Mobil Oil Co.; Jerome Wahalik III of 4903 Thomason, product engineer, Sun Oil Co.; Autry C. Stephens of 4633 Princeton Ave., assistant vice president and petroleum engineer, First National Bank, Midland; and Wesley W. Williams III of 2800 W. Dengar, manager, Main Lafrentz Co.

-more-

midland oil on short course program / add one

Kithas will speak on lithology, gas detection and rock properties from acoustic logging systems and Lindsey on liner cementing equipment and techniques. Barnes and Cornish will report on a "practical comprehensive geological and engineering study" of a carbonate reservoir, North McElroy Unit, Crane County. Gault will discuss a new winch-type pumping unit having a 40-foot-stroke and operating at three strokes per minute. It details mechanical and electrical principles involved.

Welton will report on a method of simplifying analysis of rod pumping problems. Stolts' subject is "Applying Vortex Meters to Waterflood Measurements" and Vahalik's, "Collection of Casing Head Gas with Rotary Compressors.

Stephens' and Williams' presentations are in a "general interest" category. Stephens will discuss bank financing for independent oil and gas producers and Williams will explain provisions directly affecting the oil and gas industry as a result of the Tax Reform Act of 1976.

Their presentations are among 36 to be delivered during the two-day short course.

TexasTech News

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CONTACT: Dan Tarpley

LUBBOCK--At least nine Odessa oil industry engineers, technicians and management personnel will participate in the program for the Southwestern Petroleum Short Course at Texas Tech University.

The 24th annual short course, April 21-22, is sponsored by the petroleum industry of West Texas in cooperation with the Department of Petroleum Engineering at Texas Tech. Approximately 500 oil industry representatives are expected to attend.

Odessans who will have parts in delivering papers and demonstrations include:

From Amoco Productions, Leonard W. Cooper of 828 Oxford, drilling foreman; Roland A. Hook of 2117 Haywood, district drilling supervisor, and David R. Skinner of 2304 Country Club Drive, field foreman; Cardinal Surveys Co., Audie Bates of Route 1, sales representative, and Gary L. Blanks of 1800 E. 49th, sales engineer, and David L. Holcomb of 1432 Englewood Lane, engineer-manager.

From End Devices, Inc., Jack L. Fitts of 2901 Chisum, service manager; Loffland Brothers Company, W. R. Malson of 3807 Brookhaven, division superintendent; and from the Texas Air Control Board, Charles G. Short of Route 1, regional supervisor.

-more-

odessans in short course / add one

Cooper and Hook will present a paper on air, gas and foam drilling techniques; Malson will discuss drilling string designs for deep drilling operations; and Bates and Blanks will report on applications of a tri-functional annular production log in deep wells in West Texas and New Mexico.

Holcomb's subject is fluorochemical surfactants, their current and future applications in oil and gas well stimulation. Fitts will report that "Field Proven Method Simplifies Analysis of Rod Pumping Problems." Skinner's paper will be on lightning protection for an oilfield automation and instrumentation system.

Short's presentation will deal with air pollution control in petroleum production.

Their presentations will be part of 36 to be delivered during the two-day short course.

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47-4-1-77

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot.)

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VIDEO

AUDIO

SLIDE #1.....

WHAT'S WHAT AT TEXAS TECH? THE ANNUAL
SOUTHWESTERN PETROLEUM SHORT COURSE, BY THE WEST
TEXAS PETROLEUM INDUSTRY AND TECH DEPARTMENT OF
PETROLEUM ENGINEERING, APRIL TWENTY-FIRST THROUGH
TWENTY-SECOND (21-22).

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48-4-1-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: B. Zeeck

ATTN: Sports Editors

LUBBOCK--The 1977-78 Red Raider for Texas Tech University will be Larry D. Cade of Sonora.

The announcement was made Friday (April 1) by Dr. A. Max Lennon, chairman of the Red Raider Committee.

Cade is a calf roper and bull rider, high school honor student, champion horseman, former ranch hand, basketball player and now a senior majoring in geology at Texas Tech. He succeeds Jess Wall of Perryton.

He was chosen from 16 applicants to be the masked rider, with scarlet and black cape, who circles the stadium astride a black quarterhorse at football games and represents the university as its mascot throughout the year.

Cade is the son of Mr. and Mrs. Clay Cade of Sonora. Fort Stockton native, he holds an associate degree from South Plains Junior College in Levelland.

"I have a service to offer this university, my horsemanship ability," Cade said, "and I want to give it freely for the spirit of this campus."

Cade has trained his own roping and show horses and has shown them in competition for 10 years. He won the Sonora Horse Show champion horsemanship award in 1966 and reserve champion award in 1967.

-more-

For four years he was a member of the American Junior Rodeo Association (AJRA) and for three years a national finalist in the roping events. He was among the top five in ribbon roping for the world championships in the 1973 AJRA finals and among the top 15 in calf roping that year. He also was among the top 15 in ribbon roping for the world championships in the 1971 AJRA finals.

Cade was team mascot for the South Plains Junior College in 1975. In that college's rodeo team he was a bull rider.

"I have been an active rodeo contestant since the age of five," he said. "That was when I entered my first rodeo."

He worked as a ranch hand for five years, and he has a safety record of having pulled a horse trailer for more than 30,000 miles without an accident.

Cade was graduated from Sonora High School with honors, and he was named to Who's Who among high school students in 1973. He was president of his freshman class, vice president of his senior class, a member of the National Honor Society and for three years a letterman on the varsity basketball squad.

This year he is an applicant for membership to Sigma Gamma Epsilon, national honor society for geologists.

Football fans have been cheering the sensational entrance into the stadium of the Red Raider followed by the Raider football team since 1954. On Jan. 1 of that year the Red Raider tradition began at Texas Tech's first Gator Bowl game.

The Red Raider rides a registered coal-black quarterhorse, Happy V, and he is in full charge of that mascot.

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot. Thank you.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? THE SEASON HAS RE-OPENED FOR THE
RANCHING HERITAGE CENTER. ADMISSION, THREE DOLLARS PER FAMILY,
ONE DOLLAR FOR INDIVIDUAL ADMISSION, FIFTY CENTS FOR STUDENTS.

-30-

51-4-1-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: B. Zeeck

ATTN: Agricultural Editors

LUBBOCK--Texas Tech University will host the annual meeting of the Southwest Region of the American Society of Agricultural Engineers April 6-7 at the Hilton Inn.

Between 150 and 200 persons are expected to attend, including more than 60 students from institutions of higher education in Arkansas, Louisiana, Oklahoma and Texas. Participants include representatives of industry as well as colleges and universities.

Technical sessions will be devoted to soil and water engineering, power and machinery, processing and food engineering and irrigation pumping and evaporation control. The public may attend these sessions.

Major addresses will be presented at morning sessions Thursday (April 7). Dean Anson R. Bertrand of the Texas Tech College of Agricultural Sciences will discuss "Agriculture and World Food Needs" at 8:10 a.m., and W. H. Brown, head of the Agricultural Engineering Department at Louisiana State University, "Energy Use in Agriculture" at 8:40 a.m. Dr. Bertrand is a member of the Board for International Food and Agricultural Development.

The conference banquet will be at 7 p.m., Thursday. On Thursday afternoon participants will tour the Ranching Heritage Center of The Museum of Texas Tech University.

Prof. Marvin J. Dvoracek, chairperson of the Tech Department of Agricultural Engineering, is conference coordinator.

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

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10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? HOSTS AND HOSTESSES
RETURNING FOR HISTORICAL INTERPRETATION, SUNDAYS
AT THE RANCHING HERITAGE CENTER BUILDINGS, BEGINNING
MAY FIRST. THE CENTER RE-OPENED APRIL FIRST.

-30-

53-4-1-77

Texas Tech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot. Thank you much.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? NEW HOURS FOR THE MUSEUM AND THE RANCHING HERITAGE CENTER, NOON TO FIVE P.M., TUESDAY THROUGH SATURDAY; ONE TO FIVE P.M., SUNDAY; FOURTH AND INDIANA AVENUE.

-30-

56-4-1-77

Texas Tech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot. Thanks again.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? VIOLINIST VIRGINIA KELLOGG IN
FACULTY RECITAL, EIGHT-FIFTEEN P.M., WEDNESDAY, APRIL THIRTEENTH,
FREE IN RECITAL HALL.

-30-

57-4-1-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? AN EASTER COMMEMORATIVE AT THE
MUSEUM, AN EXHIBIT OF CHRISTIAN CROSSES FROM TWENTY COUNTRIES,
APRIL FIFTH THROUGH MAY FIFTEENTH.

-30-

58-4-1-77

TexasTech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What radio spot. Thanks ever so much.)

10 seconds

WHAT'S WHAT AT TEXAS TECH? SOPHOCLES' "OEDIPUS REX," APRIL
FIFTEENTH THROUGH TWENTIETH, UNIVERSITY THEATRE. TICKETS ARE
TWO-FIFTY FOR THE PUBLIC, ONE DOLLAR FOR TECH STUDENTS AND
ONE-SEVENTY-FIVE FOR OTHER STUDENTS.

-30-

61-4-1-77

TexasTech News

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot. Thank you.)

10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? HIDE TANNING WORKSHOPS,
NINE A.M. TO FOUR-THIRTY P.M., RANCHING HERITAGE
CENTER AT THE MUSEUM, APRIL SIXTEENTH AND SEVENTEENTH.
FEE IS TWENTY DOLLARS.

-30-

62-4-1-77

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

CONTACT: Kay Hord

LUBBOCK--William T. Simmons, Texas Tech University graduate student from Houston, has received the German Academic Exchange Service scholarship grant for 1977-'78.

The grant will finance a year of full-time graduate work at the University of Hamburg.

Simmons, teaching assistant in German for the Department of Germanic and Slavic Languages, is president of the Texas Tech chapter of Delta Phi Alpha, national German honorary, and was recently elected president of the Texas Association of German Students.

He received the Roscoe Wilson Memorial Scholarship and the Charles B. and Jeanne Qualia Memorial Scholarship in German at Texas Tech. He taught at the AATG German Language Summer Camp in Junction, receiving a teacher's scholarship. He will be a teacher and program director there this summer.

Simmons was graduated from Texas Tech with honors in May, 1976, with the B.A. degree in German and was on the dean's honor list. After returning from Germany, he plans to finish the M.A. degree at Texas Tech and then begin work on the doctorate in comparative Germanic linguistics and literature.

He is the son of W. B. Simmons, Jr., 12223 Wembley, Houston.