

DATE	Stories and Cutlines	Locals	Reg. Dai.	Reg. Wee.	50 M's	Reg. Rad.	x-list	Adj. Co.	Hometown	Explanations
1-9-11-78	PSA - Planetarium									Radio Plus, local radio
2-9-11-78	PSA - Kinderschule									local radio
3-9-11-78	PSA - Gene Deitch									
4-9-11-78	Kreig research	✓	✓	✓						Ag list (20)
5-9-11-78	Faculty music concert									AJ, UD
6-9-12-78	US Rep candidates meet	✓								
7-9-12-78	Cutline - ROTC scholarships									AJ
8-9-12-78	McHarg Lecture	✓								Mugs AJ, UD
9-9-12-78	Urban appointment	✓								Water resources list
10-9-12-78	PSA - US Rep. Candidates									local radio & TV
11-9-12-78	ERA - Schoen	✓	✓	✓						12-Bacons
12-9-12-78	PSA - Golden Spur									local <sup>ag</sup> radio, areg ag
13-9-12-78	PSA - Livestock Symp.									" "
14-9-13-78	WTMA membership meet	✓								
15-9-13-78	Tornado Study	✓	✓	✓						Special (4) Civil Engr <sup>(4)</sup>
16-9-14-78	PSA - Vincent Price									local radio, radio +
17-9-14-78	Vincent Price at UC	✓						✓		
18-9-14-78	Fulbright grants									UD, AJ, KTXI-FM
19-9-14-78	Mahon honored	✓								
20-9-14-78	Rhodes Scholarships									UD, AJ, KTXI-FM
21-9-14-78	Kinderschule - cutline	✓								Pix
22-9-14-78	Violin recital	✓						✓		Not AJ

DATE	Stories and Cutlines	Locals	Reg. Dai.	Reg. Wee.	50 M's	Reg. Rad.	x-list	Adj. Co.	Hometown	Explanations
23-9-14-78	Wilson recital	/						/		
24-9-15-78	Deahl Concert	/						/		
25-9-15-78	Yang's research - Cancer	/	/	/						
26-9-15-78	RANCH DAY - PSA									Radio Plus, Local Radio + TV
27-9-15-78	National Golden Spur Symposium	/	/	/						
28-9-15-78	Pest Control Workshop	/	/							

# TexasTech 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: Pat Broyles

ATTN: PSA Directors (Kill Nov. 20)

FOR IMMEDIATE RELEASE

FOR CENTURIES MAN HAS THOUGHT THAT HIS LIFE HAS BEEN INFLUENCED BY THE STARS. NOW A NEW STAR AT TEXAS TECH'S MOODY PLANETARIUM EXPLORES "THE NEW ASTRONOMY OF ASTROLOGY" AND EXPLAINS HOW THE ASTROLOGER USES THE SIGNS OF THE ZODIAC, THE PLANETS AND HOUSES TO MAKE HIS FORECASTS. SEE THE "ASTRONOMY OF ASTROLOGY" EACH SATURDAY AND SUNDAY AT 3 P.M. IN THE PLANETARIUM, FOURTH AND INDIANA.

-30-

1-9-11-78

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LEARNING GERMAN CAN BE CHILD'S PLAY FOR CHILDREN ENROLLED  
(KINDER'SHOOLA)  
IN THE 20TH ANNUAL TEXAS TECH UNIVERSITY KINDERSCHULE. THE  
KINDERSCHULE USES PUPPETS, JINGLES, PICTURES AND GAMES TO TEACH  
BEGINNING GERMAN TO STUDENTS IN GRADES TWO THROUGH SIX. CLASSES  
WILL BEGIN SEPTEMBER 19TH AND MEET TUESDAYS, FROM 4:30 to 5:50  
P.M., FOR A TOTAL OF TWELVE SESSIONS. TOTAL COST OF THE  
KINDERSCHULE IS \$5 AND PARENTS ARE INVITED TO ATTEND WITH THEIR  
CHILDREN. THE PROGRAM IS ENDORSED BY THE LUBBOCK INDEPENDENT  
SCHOOL DISTRICT. FOR ADDITIONAL INFORMATION CONTACT THE TEXAS  
TECH DEPARTMENT OF GERMANIC AND SLAVIC LANGUAGES AT 742-3282.

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CONTACT: Pat Broyles

ATTN: PSA Directors (Kill Sept. 15)

FOR IMMEDIATE RELEASE

(DIGH-CH)

GENE DEITCH, DIRECTOR OF SUCH CARTOONS AS "POPEYE" AND "TOM AND JERRY," WILL BE IN LUBBOCK THIS WEEK TO MEET WITH STUDENTS AT LUBBOCK CHRISTIAN COLLEGE AND TEXAS TECH UNIVERSITY. DURING HIS 30 YEARS AS AN ANIMATOR DEITCH HAS DIRECTED MORE THAN ONE THOUSAND FILMS AND COMMERCIALS AND HAS RECEIVED FIVE OSCAR NOMINATIONS. DEITCH WILL PRESENT A PUBLIC WORKSHOP AT 3 P.M., THURSDAY, SEPTEMBER 14TH, IN THE UNIVERSITY CENTER AT TECH. AN 8:15 P.M. SHOWING OF THE AWARD-WINNING FILM, "THE PICTURE BOOK ANIMATED," AND A LECTURE IN THE UC THEATER WILL BE FOLLOWED BY A RECEPTION FOR THE ARTIST.

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CONTACT: Becky Patterson

ATTN: Fine Arts Editors

LUBBOCK -- Award-winning animator Gene Deitch, director of such cartoon favorites as "Popeye" and "Tom and Jerry," visits Lubbock Sept. 11-15. The Oscar recipient will address audiences Tuesday at Lubbock Christian College and Thursday at Texas Tech University and meet with individuals interested in children's literature.

During his 30 years as an animator Deitch has directed more than one thousand films and commercials. In addition to winning an Oscar for his animation of the children's book "Munro" in 1959, the artist has received five Oscar nominations and awards from national and international juries.

This year "The Picture Book Animated," a Weston Woods Studios production directed by Deitch, won first prize in the cinema and television category at the American Film Festival. The award was given by the Educational Film Library Association. Lubbock audiences will have the opportunity to view the production.

Deitch said in "Horn Book Magazine" that he does not seek to substitute film for the printed word.

"Our aim is to so illuminate each book that a child will find his way back to it," he said. "Our particular films exist only in their relationship to the books from which they have been adapted.

-more-

add one/deitch

The goal of these films is to reinforce the child's interest in the original book."

Among the animator's most recent projects was the bringing-to-life of "Teeny-Tiny and the Witch-Woman," a book by Lubbock author Barbara Walker. Film-strip and feature film adaptations will soon be released to schools, libraries and public television stations.

Walker, a nationally respected author of juvenile and adult literature, said Deitch's adaptation of her story was a "magnificent piece of work," and spoke enthusiastically of the artist.

"He's a wonderfully alive person," Walker said. "He's very aware of the medium he uses. He feels a tremendous responsibility for children. Especially, he's committed to being honest with children and to reaching the child in the adult. I am very grateful for Deitch."

Deitch is affiliated with Weston Woods Productions, which is sponsoring his current speaking tour of the United States. Among his destinations are the Dallas Public Library, the New York Public Library and selected colleges.

Walker was impressed by Deitch's reaction to a standing ovation he received at Western Michigan University.

"He was overwhelmed," she said. "It's so interesting that anyone so respected could be so moved by a display of appreciation."

Deitch will visit Lubbock Christian College Sept. 12 to present a video tape and meet with freshman English students. Thursday appearances at Texas Tech include a meeting with mass communications classes from 10:30 a.m.- noon in room 250 of the Mass Communications building, a 3 p.m. public workshop in the Lubbock Room of the UC, "The Art of Visual Communication," and

' add two/deitch

a film and lecture in the UC Theater at 8:15 p.m., "The Picture Book Animated," the award-winning film which explains Deitch's approach to his work. A reception will follow the lecture.

All events are offered free, and the public is invited to attend. For information call the University Center Activities Office, 742-3621.

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CONTACT: Marcia Lundy

LUBBOCK--Photosynthesis is a term most people only vaguely remember from high school biology, but it is actually one of the most important chemical reactions that takes place on earth, according to Dr. Daniel R. Krieg.

Krieg's research on the photosynthetic process in sorghum and cotton may lead to the development of higher yielding varieties that will be better able to withstand water stress.

Krieg, who is jointly employed as a plant physiologist by Texas Tech University and the Texas Agricultural Experiment Station (TAES), has received a \$40,000 competitive grant from the U.S. Department of Agriculture (USDA). The grant is designated for the study of the photosynthetic process in sorghum and cotton. About five million acres of each were planted last year in Texas alone and produced returns of close to \$1 billion each.

He has also received funding for his research from the Texas Tech Water Resources Center and the College of Agricultural Sciences and from TAES.

Krieg defined photosynthesis as the process in which light energy is converted to chemical energy in the green plant. The physical structure of the plant results from the process, in which carbon dioxide is chemically reduced to organic matter.

-more-

krieg/add one

Krieg's research will be concentrated in three areas. The first step, he said, will be to define the steps of the photosynthetic process in each species and to determine how each step can, under stress, limit the photosynthetic rate.

Krieg said cotton and sorghum were chosen not only because of their economic importance to Texas, but also because they have different photosynthetic mechanisms and growth rates. Sorghum has a faster rate of photosynthesis than does cotton.

After defining the limiting factors in photosynthesis under water stress, Krieg will examine how the stages of growth affect these limiting factors.

"One step in the process may be capable of limiting the photosynthetic process as a result of stress when the plant is young, say three to four weeks old," Krieg said. "But, as the plant matures, this same step may become less sensitive to stress, and another step might become more sensitive."

After defining the relative contributions of each step, Krieg and his associates will look at the degree of genetic variability within species.

"If we find a wide range of variance in the genetic types as far as the rate of photosynthesis is concerned," Krieg said, "we will then be able to incorporate this research into a breeding program in order to develop better strains of each species."

Krieg and his associates have been involved in sorghum photosynthesis-water stress research for almost six years.



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CONTACT: Becky Patterson

LUBBOCK -- Viola, clarinet and piano faculty members at Texas Tech University combine their talents Wednesday (Sept. 13) in the first music faculty recital for the fall of 1978.

Performing will be Susan Schoenfeld, viola; Keith McCarty, clarinet; and Trudi Post, piano.

The musicians will perform Mozart's "Kegelstatt," Schumann's "Fairy Tales" and "Concertpiece for Viola and Piano" by Rumanian composer Georges Enesco.

The concert begins at 8:15 p.m. in the Recital Hall of the University Center and is free of charge.

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5-9-11-78

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CONTACT: Paula Lowe

LUBBOCK--U.S. House of Representatives candidates Kent Hance and George Bush will conduct a question-and-answer session at 7:30 p.m., Thursday, in the Coronado Room of Texas Tech's University Center. The public is invited to the open forum sponsored by Delta Phi Epsilon. A reception is scheduled immediately following the question-and-answer period.

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6-9-12-78

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6-9-12-78

cutline-----

ROTC SCHOLARSHIPS--Dr. Lawrence L. Graves (left), dean of the College of Arts and Sciences at Texas Tech University, presents one two-year and four three-year Army ROTC scholarships. Those receiving honors and involved in the Military Science Program at Tech are from left, William D. Rich, junior from Ft. Worth, two-year scholarship; and three-year scholarship recipients Stephen L. Smith, sophomore from Roscoe; Wayne S. Williams, sophomore from Temple; Martin L. Stratmoen, sophomore from Hurst; and Jefferey B. Reinke, sophomore from Lubbock. (Tech Photo)

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CONTACT: B. Zeeck

LUBBOCK--Landscape architect Ian L. McHarg will discuss "Design with Nature" in a public lecture at 8 p.m. on Thursday in the Business Administration Building auditorium at Texas Tech University.

McHarg is chairperson of the Department of Landscape Architecture and Regional Planning at the University of Pennsylvania.

His lecture is sponsored by the Texas Tech Division of Architecture. On campus Thursday and Friday he will meet with several classes in the Division of Architecture and the Department of Park Administration and Landscape Architecture.

Persons with professional interest in geographic and ecological techniques in planning are invited to participate in a principles of planning class in the Architecture Building from 11:30 a.m. to 12:30 p.m., Friday. For additional information on this class call 742-3136.

McHarg is a partner in the firm of Wallace, McHarg, Roberts and Todd, Architects, Landscape Architects and Regional Planners. The American Institute of Architects has awarded him its Allied Professional Medal, and he has received other honors from the American Society of Landscape Architects, the Wildlife Management

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Association, Brandeis University and the Philadelphia Art Alliance.

He has held lectureships at the University of California at Berkeley and at Los Angeles Brookhaven National Laboratory, University of Washington, University of British Columbia and Texas A&M University.

He has made public appearances on the three major television networks and on public television and is often quoted in magazines of general interest. He has undertaken ecological studies in nine states and is author or co-author of several magazine articles as well as the book, "Design with Nature."

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8-9-12-78



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CONTACT: B. Zeeck

LUBBOCK--Prof. Lloyd V. Urban, who received an AMOCO Foundation Distinguished Teaching Award in 1977, has been named assistant director of the Texas Tech University Water Resources Center.

WRC Director Robert M. Sweazy made the announcement.

Dr. Urban, member of the Texas Tech civil engineering faculty, has broad experience in environmental engineering.

As a consultant he has worked with Research Planning Consultants of Austin, Battelle-Columbus Laboratories, the U.S. Army Construction Engineering Research Laboratory and the South Plains Association of Governments. Working with the U.S. Army and Air Force, he helped develop an Air Force guide for environmental planning and analysis.

Urban earned his degrees at The University of Texas, graduating with the doctoral degree in 1971. While at UT he developed mixing models for Texas bays and estuaries in a Galveston bay study.

He joined the Texas Tech faculty in 1969 and has been active in water resources since that time. A special emphasis in his research has been water quality.

Urban is co-author of a textbook, "Environmental Impact

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Analysis," now in the second printing, and is author of the monograph, "Energy Aspects of Environmental Impact Analysis." He also is co-author of five handbooks and manuals and numerous articles.

He has received special honors from the U.S. Public Health Service, the Texas Section of the American Society of Civil Engineers and the U.S. Army Corps of Engineers. Engineering student members of Tau Beta Phi named him outstanding engineering professor for 1975-76.

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9-9-12-78

# 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: B. Zeeck

LUBBOCK--Prof. Lloyd V. Urban, who received an AMOCO Foundation Distinguished Teaching Award in 1977, has been named assistant director of the Texas Tech University Water Resources Center.

WRC Director Robert M. Sweazy made the announcement.

Dr. Urban, member of the Texas Tech civil engineering faculty, has broad experience in environmental engineering.

As a consultant he has worked with Research Planning Consultants of Austin, Battelle-Columbus Laboratories, the U.S. Army Construction Engineering Research Laboratory and the South Plains Association of Governments. Working with the U.S. Army and Air Force, he helped develop an Air Force guide for environmental planning and analysis.

Urban earned his degrees at The University of Texas, graduating with the doctoral degree in 1971. While at UT he developed mixing models for Texas bays and estuaries in a Galveston bay study.

He joined the Texas Tech faculty in 1969 and has been active in water resources since that time. A special emphasis in his research has been water quality.

Urban is co-author of a textbook, "Environmental Impact

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urban/add one

Analysis," now in the second printing, and is author of the monograph, "Energy Aspects of Environmental Impact Analysis." He also is co-author of five handbooks and manuals and numerous articles.

He has received special honors from the U.S. Public Health Service, the Texas Section of the American Society of Civil Engineers and the U.S. Army Corps of Engineers. Engineering student members of Tau Beta Phi named him outstanding engineering professor for 1975-76.

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CONTACT: Pat Broyles

ATTN: News & PSA Directors (Kill Sept. 15)

FOR IMMEDIATE RELEASE

U.S. HOUSE OF REPRESENTATIVES CANDIDATES GEORGE BUSH AND KENT HANCE WILL MEET AT 7:30 P.M., THURSDAY, SEPTEMBER 14TH, IN THE TEXAS TECH UNIVERSITY CENTER FOR A QUESTION-AND-ANSWER DISCUSSION WITH STUDENTS AND LUBBOCK RESIDENTS. THE PUBLIC IS ALSO INVITED TO A RECEPTION FOR THE TWO CANDIDATES IMMEDIATELY FOLLOWING THE TALKS.

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LUBBOCK--Principles for constitutional interpretation of future cases involving the Texas Equal Rights Amendment, approved in 1872, are proposed by Texas Tech University Law Prof. Rodric B. Schoen in the current issue of the "Houston Law Review."

Schoen reviews 13 appellate court decisions referring to Texas ERA, which, rejects sex stereotyping and guarantees each person the right to be treated on the basis of his or her individual abilities, interests and qualifications, unrestrained by artificial legal and official barriers reflecting stereotyped generalizations of the past.

"If the cases so far decided under the sex equality provision of the Texas ERA have fallen short in full recognition of constitutional objectives," Schoen concludes, "cases arising in the future will provide fresh opportunities for full recognition of both the letter and the spirit of the Texas ERA."

In each of the 13 cases considered by Schoen, sex discrimination was a primary issue.

In six of the cases males petitioned the courts on behalf of their equal rights in a variety of situations ranging from community property to rape, drunk driving, athletic participation and even jury duty.

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In one case Texas Woman's University appealed a trial court decision regarding a university requirement that only female students reside in campus housing. The court upheld a ruling that the requirement was unconstitutional and also held that male students suffered discrimination because the university had not provided substantially equal housing for men.

In the other six cases women sought relief in matters ranging from breach of promise to access to a boys' football league.

"Although several decisions of the courts of civil appeals were appealed, the Texas Supreme Court had delivered no opinion interpreting the sex equality provision of the Texas Equal Rights Amendment during the five-year period ending in November 1977," Schoen explained. His own study of appellate cases covered the period between November 1972 and November 1977.

In his general principle of interpretation for the sex equality provision of the Texas ERA Schoen depends first upon the "plain language" of the amendment that states:

"Equality under the law shall not be defined or abridged because of sex, race, color, national origin."

Schoen's general principle reads: "The defense of countervailing interests, whether rational or compelling, is not recognized when a violation of the Texas ERA is shown."

He modifies this general principle, however, by three other principles.

In the first, he accepts the idea that some statutes or official regulations, which appear not to discriminate against one sex, do in practice discriminate. An example of such "sex-

neutral criteria" was cited in a regulation that required prison guards to be taller than 5 feet 2 inches, which requirement lends employment advantage to men. Such a violation of the intent of the Texas ERA could be accepted, Schoen said, if the sex-neutral disqualifying criteria can be shown to serve some compelling governmental interest unrelated to perpetuation of forbidden sex stereotypes.

For his second modifying principle Schoen considers different treatment for persons of either sex when a unique, gender-specific physical characteristic is offered in defense. He suggests that a unique physical difference be accepted in argument only when such a defense "does not offend or endanger the constitutional guarantee of sex equality." In his discussion of this principle he writes at length on the concept of a disability benefit program which offers assistance to employees in all but pregnancy cases.

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Schoen's third modifying principle refers to segregation of the sexes, for instance in restrooms, athletic locker rooms or in athletics. Here he concludes that, should such segregation be challenged, the proponent show that people of each sex receive equal treatment, that segregation protects a fundamental right and that segregation presents no serious threat to the constitutional guarantee of sex equality.

In his 90-page article, appearing in the Sept. 15 publication of the "Houston Law Review," Schoen argues against combined interscholastic athletic programs for men and women. His argument is based on unique physical differences which in combined programs would in most cases give advantages to men and tend to reduce participation by women in interscholastic competition.

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schoen/add one

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CONTACT: Pat Broyles

ATTN: Farm Editors

FOR IMMEDIATE RELEASE

THE FIRST NATIONAL GOLDEN SPUR AWARD WILL GO TO ALBERT K. MITCHELL AT A CELEBRATION FRIDAY, SEPTEMBER 22ND IN THE LUBBOCK MEMORIAL CIVIC CENTER. MITCHELL OF NEW MEXICO IS BEING HONORED FOR HIS LEADERSHIP AND OUTSTANDING CONTRIBUTIONS TO THE RANCHING AND LIVESTOCK INDUSTRY. THE AWARD WILL BE PRESENTED AMID AN ATMOSPHERE OF 19TH CENTURY PAGEANTRY AND MUSIC AT A PRAIRIE PARTY BEGINNING AT 6:30 P.M. IN THE CIVIC CENTER. FOR INFORMATION CONTACT THE RANCHING HERITAGE ASSOCIATION AT THE MUSEUM OF TEXAS TECH UNIVERSITY, LUBBOCK, (806) 742-2498.

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CONTACT: Pat Broyles

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THE IMPACT OF GOVERNMENT REGULATIONS ON THE LIVESTOCK AND RANCHING INDUSTRY WILL BE THE TOPIC OF THE GOLDEN SPUR SYMPOSIUM ON LIVESTOCK AND MONEY FROM 10 A.M. TO 2 P.M., FRIDAY, SEPTEMBER 22ND, AT THE MUSEUM OF TEXAS TECH UNIVERSITY. ONE OF THE SPEAKERS AT THE SYMPOSIUM WILL BE E. B. HARRIS, PRESIDENT EMERITUS OF THE CHICAGO MERCANTILE EXCHANGE. THE SYMPOSIUM IS SPONSORED BY ALL OF THE MAJOR LIVESTOCK ASSOCIATIONS IN THE NATION. FOR INFORMATION CONTACT THE RANCHING HERITAGE ASSOCIATION AT (806) 742-2498.

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## EDITORS NOTE:

Associations sponsoring the Livestock and Money Symposium are:

The American Quarter Horse  
National Cattleman's  
National Wool Growers  
Ranching Heritage  
The Texas and Southwestern Cattle Raisers  
The Texas Sheep and Goat Raisers  
and The American National Cowbelles

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LUBBOCK--The Women's Council of the West Texas Museum Association (WTMA) will entertain prospective members at its annual membership coffee from 10 to noon on Monday (Sept. 18) in The Museum of Texas Tech University.

The council is a volunteers' organization which assists in Museum activities. Membership is open to every women who is a member of the WTMA. For more information call the association office, 742-2443.

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LUBBOCK--Almost eight years of concentrated study in wind engineering at Texas Tech University have led researchers to conclusions that spell good news for persons fearful of loss of life and property from tornadoes.

"The Tornado: An Engineering-Oriented Perspective" was written by the engineers for the understanding of the public as well as their colleagues. It has been published by the National Severe Storms Laboratory in Norman, Okla.

In the study Profs. Joseph E. Minor, director of Texas Tech's Institute for Disaster Research, James R. McDonald and Kishor C. Mehta conclude that "the performance of buildings in windstorms is related directly to the degree of engineering attention given to the design and construction of a building."

Most building damage is caused by wind speeds in the range of 75 to 125 miles per hour, and most of this damage is the result of anchorage or connection failures in the buildings.

"These conclusions mean that relatively small investments in improving these details can produce significant reductions in the cost of damage caused by the windstorms," the authors report.

The researchers made detailed studies of more than 30

-more-

tornadoes/add one

violent windstorms--tornadoes and hurricanes--before writing their conclusions, and they knock down several commonly reported freak occurrences.

While the engineers agreed tornadoes do cause buildings to "explode," the immediate cause is not atmospheric pressure change but wind. The effect of atmospheric pressure change is limited, they said, in that most houses and many commercial structures have sufficient venting through air conditioning systems, exhaust fans, attic doors and other ordinary means to alleviate this problem.

However, wind entering a building at a point of structural weakness can "explode" the building outward. Engineering analysis reveals often "that the roof was lifted first and the walls, no longer being supported at the top and so restrained from falling inward, toppled outward."

Both tornado and hurricane damaged houses exhibit this kind of failure, they reported.

Although traditional instructions for persons trapped in a building threatened by a tornado instruct them to open a window to relieve pressure, the engineers advise against this.

In a hurricane the direction of the wind likely will be known, but, even if a tornado's direction is known, the direction at which the swirling wind will strike a building cannot be predicted. As a result, opening a window could be hazardous to the individual and detrimental to the building. Rather than opening a window, an individual could better spend the time seeking shelter.

tornadoes/add two

Although reports persist of water being "sucked" from ponds and wells, the engineers found no evidence of this. They cited studies in Xenia, Ohio, Drumright and Tulsa, Okla., and Omaha, Neb., concluding that photographs and eyewitness accounts reveal that water "sprays" upward to great heights when a tornado crosses onto water surfaces, but the water spray acts much as the dust in a dust devil. The passage of the tornado does little to change the level of water in a pool or well.

Another common concept is that tornadoes can drive broom straws through wooden planks or posts. The threshold speeds for driving broom straws into soft wood are only 145 to 165 m.p.h., the report states.

"Texas Tech investigators have looked for examples of straws being driven into planks in the wake of severe tornadoes and have found only a few, mostly field straw impacting on cedar fence posts, with the straw seemingly wedged between fibers on the bark," the report said.

Large missiles are another matter. Houses and mobile homes can be moved relatively easily by winds, according to investigators, because of their relatively large "flight parameters." This is particularly true if anchorages between houses and foundations are poor or non-existent.

Dramatic missile events involve large timbers moved great distances. The researchers cited a timber section which penetrated a residential wall in Plainview, Texas. It was carried 400 feet or more attached to a carport roof.

The same airfoil effect moved large timbers in the Omaha,

-more-

tornadoes/add three

Neb., 1975 tornado. These timbers, attached to a roof section of Westgate Elementary School, had a devastating effect when the airfoil came apart on impact, sending the beams into the ground and causing heavy damage to cars.

The authors insist, however, that these are not freak occurrences but can be explained by current perceptions of tornadic wind speeds, of building failure modes, of missile injection mechanisms and of airfoil phenomena.

The authors said the report should be especially useful for architects, contractors, city building code and planning officials or any other individuals with responsibilities for public safety.

To order the report write the National Technical Information Service, Operations Division, Springfield, Va. 22131 and ask for "NOAA (National Oceanic and Atmospheric Administration) Technical Memorandum ERL NSSL-82."



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ATTN: PSA Directors (Kill Sept. 28)

FOR IMMEDIATE RELEASE

COMBINE VINCENT PRICE, A MASTER OF DRAMATIC PORTRAYALS,  
WITH THE WORDS AND WIT OF OSCAR WILDE AND THE RESULT IS A STUNNING  
NEW PLAY..."DIVERSIONS AND DELIGHTS." VINCENT PRICE, IN WHAT  
HAS BEEN CALLED THE BEST PERFORMANCE OF HIS LONG CAREER, PRESENTS  
A HUMOROUS, YET TOUCHING VIEW OF OSCAR WILDE IN THE LAST YEAR  
OF HIS BRILLIANT BUT TROUBLED LIFE. DIVERSIONS AND DELIGHTS  
WILL BE PRESENTED WEDNESDAY, SEPTEMBER 27TH, AT 8:15 P.M. IN THE  
LUBBOCK MUNICIPAL COLISEUM. RESERVATIONS CAN BE MADE BY CALLING  
THE TEXAS TECH UNIVERSITY TICKETBOOTH AT 742-3610.

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16-9-14-78

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CONTACT: Pat Broyles

ATTN: Fine Arts Editors

LUBBOCK--Take the words and wit of Oscar Wilde, one of the greatest masters of the "Art-of-Conversation" in the English speaking world, combine them with a brilliant personality like Vincent Price and you have John Gay's stunning new play "Diversions and Delights."

Called a tour-de-force for Vincent Price, "Diversions and Delights" will be staged September 7, 8:15 p.m., in the Lubbock Municipal Auditorium.

The beautifully structured play setting is a dingy Parisian concert hall in 1899, the last year in the troubled but brilliant life of Oscar Wilde. Playwright Gay has drawn upon all the wealth of Wilde's plays, poems, novels, stories and essays available to present some insight of how the author viewed his life and Victorian England.

The often humorous observations of Wilde come to life through the skillful interpretations of Vincent Price. Price portrays Wilde in a context that Wilde himself might have set, and his performance is compared to Hal Holbrook as Mark Twain and Julie Harris as Emily Dickenson. Though Price has starred in more than 100 motion pictures and dramatic presentations,

-more-

delights/add one

his portrayal of Wilde may be "the best performance of his long career."

Written by Gay and directed by Tony award winner Joseph Hardy, the Roger Berlind, Franklin R. Levy and Mike Wise production of "Diversions and Delights" presents Oscar Wilde the man, his wit and genius as only Vincent Price could portray him.

---

Locally sponsored by Texas Tech University Cultural Events, tickets for Tech students are \$2, \$2.50 and \$3. Reserved seats for the public are \$4, \$5, \$6. Call the UC Ticketbooth at (806) 742-3610.

17-9-14-78



# Texas Tech News

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

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UNIVERSITY

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CONTACT: B. Zeeck

LUBBOCK--The 1979-80 competition for grants for graduate study abroad offered under the Fulbright Educational Exchange Program and by foreign governments, universities and private donors will accept applications filed before 5 p.m., Oct. 15, on the Texas Tech University campus.

Application forms and additional information for students enrolled in Texas Tech are available from the Fulbright Program adviser, Dr. David M. Vigness, Holden Hall 52.

There are 505 awards available to graduate students.

Most grants provide round-trip transportation, tuition and maintenance for one academic year. A few provide international travel only or a stipend intended as a partial grant-in-aid.

Candidates must be U.S. citizens, hold a bachelor's degree or the equivalent, have language ability commensurate with the demands of the proposed study projects and be in good health.

Study is possible in 52 countries.

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LUBBOCK--Students who are between the ages of 18 and 24 before October 1978 and who will be graduated before October 1979 are invited to apply for Rhodes Scholarships to study at Oxford University in England.

Women as well as men are invited to apply.

Dr. David M. Vigness of the history faculty can furnish a copy of the Memorandum of Regulations and an application blank to interested students.

The applicant must be unmarried and a citizen of the United States. Qualities forming the basis of selection are literary and scholastic ability and attainments; truthfulness, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness and fellowship; exhibition of moral force of character and of instincts to lead and take an interest in one's contemporaries; and physical vigor as shown by fondness for and success in sports. Quality of character and intellect is the most important requirement, according to the selection committee.

The scholarship pays college fees and a maintenance allowance. Students may work toward the Oxford B.A. or, with consent of their colleges and relevant faculty, they may work toward a graduate degree.

Application deadline is Oct. 31.

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CONTACT: Gail Molsbee

## LUBBOCK--Sprechen Sie Deutsch?

Those in the second through sixth grades with no comprehension of the first line are invited to attend Kinderschule at Texas Tech University, Sept. 19-Dec. 5, on Tuesdays, 4:30-5:50 p.m.

The Kinderschule, in its 20th year, is for elementary school students to give them opportunity to become acquainted with a foreign language and to learn German through its use in the classroom.

Texas Tech University professor Dr. Theodor W. Alexander will direct the Kinderschule with help from other foreign language teachers and senior German students as instructors in beginning German classes.

The program, begun in 1955 by the Germanic and Slavic Languages professor, emphasizes oral dialogue using puppets, pictures, songs and games.

There is no registration fee but cost for supplies is \$5. It can be paid at the first class meeting in the Qualia Room of the Foreign Languages and Math Building on campus.

Grades second and third will combine for one class and another will be for children in grades four through six. Alexander said a second class in either level may be formed if needed.

-more-

kinderschule/add one

Registration of youngsters may be made by calling the  
Department of Germanic and Slavic Languages, 742-3282.

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cutline-----

GERMAN PUPPETS--Senior German majors at Texas Tech University will be under the direction of Dr. Theodor W. Alexander of Germanic and Slavic Languages while teaching beginning German for elementary age children. Kinderschule will be Sept. 19-Dec. 5 on Tuesday evenings. Instructors Nancy Gilmore (left) from Richardson and Donna Doyle (standing) from Azle demonstrate for Kinderschule students Holly Bundock and John Bacon the use of puppets in German conversation. Gilmore is the daughter of Mr. and Mrs. H. E. Gilmore, 608 Opal, Richardson. Doyle is the daughter of Mrs. O. H. Doyle, 1040 Idlewood, Azle. Holly Bundock, student at Hutchinson Junior High, is the daughter of Mr. and Mrs. Don Bundock, 2621 25th, Lubbock, and John Bacon, son of Dr. and Mrs. Thomas I. Bacon, 3303 44th St., Lubbock. Information can be obtained by calling 742-3282. (Tech Photo)

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CONTACT: Becky Patterson

LUBBOCK--Husband-and-wife violinists, Dr. James J. Barber and Barbara Barber, will present a free dual faculty recital on Friday, Sept. 22, at 8:15 p.m. in the Recital Hall of the Texas Tech University Music Building.

Dr. Barber is a professor of violin and chairperson of the string division of the Texas Tech Department of Music. Mrs. Barber is director of the Suzuki string program at Texas Tech.

The couple will perform duets which span 200 years of composition for violin, including Bach's "Concerto in C Minor," "Sonata for Two Violins" by Prokofiev, "Four Etudes" by Wieniawski and "Navarra" by Sarasate.

The violinists will be assisted in the performance by Dr. Thomas Redcay, piano; Ruth Ann Truncale and Susan Pickett, violin; Lanny Field, viola; Janis Miller, cello; William Perkins, bass; and Mary Pendleton, harpsichord.

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CONTACT: Becky Patterson

LUBBOCK--Lubbock organists Roy and Jane Ann Wilson will present their talents to audiences in Canyon on Sept. 17 and in Lubbock on Sept. 21.

The Wilsons will be accompanied by instrumentalists playing viola, trumpet and trombone.

Wilson is the organist-choir master for the Forrest Heights Methodist Church in Lubbock and orchestra director at Monterey High School in Lubbock. Mrs. Wilson is an assistant professor of music at Texas Tech University.

The program includes a Soler concerto for two organs, a concerto for organ and viola composed by Michael Hayden, Dupre's "Ballade" for piano and organ and "Normand Lockwood Concerto" for organ and brasses.

The Wilsons will be accompanied by musicians from the Lubbock community and Texas Tech, including Coronado High School orchestra director George Robinson, viola; Richard E. Tolley, chairperson of the brass and percussion division of the Texas Tech Music Department, trumpet; Robert B. Mayes, assistant band director at Texas Tech, trumpet; Robert W. Deahl, associate chairperson of the Texas Tech Music Department, trombone; and Texas Tech music majors, also playing trombone.

-more-

wilsons/add one

The free recital will be presented in the West Texas State University College of Fine Arts Recital Hall at 8 p.m., Sunday, Sept. 17. Lubbock audiences may hear the performance at 8:15 p.m., Thursday, Sept. 21, in the recital hall of the Music Building at Texas Tech.

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CONTACT: Becky Patterson

LUBBOCK--Lora G. Deahl, assistant professor of music at Texas Tech University, will present a free piano recital on Thursday, Oct. 12, at 8:15 p.m. in the Recital Hall in the Music Building at Texas Tech.

The musician will open her program with two contrasting Bach preludes and fugues, which will be followed by a Beethoven sonata and a George Crumb composition. "Image pour Piano" by Debussy opens the second half of the program. Deahl will complete her performance with Chopin's "Scherzo #4 in E Major, Op. 54."

Deahl was born in Hawaii and made her musical debut with the Honolulu Symphony Orchestra. She received the Bachelor of Music degree from Oberlin Conservatory of Music and Master of Music degree from the University of Indiana.

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CONTACT: Heinrich H. Steiner

LUBBOCK--It is popular to associate the development of cancer with smoking, polluted air and chemicals. Scientists believe, however, that the intake of fat and other food ingredients has to be taken into consideration as a possible environmental factor.

Dr. S. P. Yang, professor of food and nutrition at Texas Tech University, is trying to elucidate the possible relationship between the development of cancer and the intake of various types of fat in combination with a cancer-causing substance, acetylaminofluorene (AAF).

This combination is the key element in Yang's research. The chemical represents potentially dangerous substances similar to some to which persons are exposed every day, such as nitrites added as food preservatives, compounds in cigarette smoke and from incomplete combustion of fossil fuels.

Researchers have known that certain substances, while they themselves are not cancer-causing, do promote the potency of known cancer-causing agents. Fats in daily diets are suspected of developing situations in the body favorable for action of cancer-causing chemicals.

Explaining his work, Yang refers to statistics showing that an increasing death rate by cancer since the turn of the

-more-

fat and cancer/add one

century parallels constantly increasing fat consumption over the years. In 1910 about 75 per 100,000 persons died of cancer in the United States, compared to more than 150 deaths due to the disease in 1975. In the same period fat consumption per day per individual increased from 125 to 157 grams, accompanied by a large-scale switch from animal fats to vegetable oils. In 1970 the average American consumed about 180 percent more vegetable oils than in 1910.

According to Yang, there are various sources of vegetable oils with varying degrees of unsaturation (so-called polyunsaturated). Corn oil and coconut oil are chosen for the study because they represent the opposite scales of unsaturation.

Male rats will be fed a special diet, supplemented with a fixed amount of AAF and different controlled amounts of corn oil or coconut oil. After a feeding period of 26 weeks Yang and his team will examine the animals' liver, stomach and other organs for the incidence of cancer.

The one-year research project will start in October. It is sponsored by a national food enterprise with a grant of \$10,000.

Depending on the results and findings, the project may be extended for another year. The second year would be concentrated on breast cancer development in female rats.

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CONTACT: Pat Broyles

ATTN: PSA Directors (kill September 24)

MAKE PLANS NOW TO ATTEND THE NINTH ANNUAL RANCH DAY BEGINNING AT 9 A.M., SATURDAY, SEPTEMBER 23rd, AT THE RANCHING HERITAGE CENTER OF THE MUSEUM OF TEXAS TECH. CELEBRATE OVER 70 YEARS OF RANCHING HISTORY AND EXPERIENCE THE SIMPLER LIFESTYLE PRESERVED IN THE HISTORIC RANCHING HERITAGE CENTER. VISITORS TO RANCH DAY CAN SAMPLE THE OPEN-RANGE COOKING OF SOURDOUGH PANCAKES, AND A CHUCKWAGON-STYLE BARBECUE LUNCH WILL BE SERVED. FOR RESERVATIONS TO RANCH DAY ACTIVITIES CONTACT THE RANCHING HERITAGE ASSOCIATION AT (806) 742-2498.

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26-9-15-78

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CONTACT: B. Zeeck

LUBBOCK--W. D. Farr, former National Cattlemen's Association president and head of NCA's Feeder Grader Subcommittee, and Gene Edwards, board chairman and president of Amarillo's First National Bank, will address the Sept. 22 National Golden Spur Symposium.

The symposium on Livestock and Money will be held from 10 a.m.-2:30 p.m. in The Museum of Texas Tech University. The registration fee, including a barbecue luncheon at the Ranching Heritage Center, is \$15.

Emphasis will be on impact of government regulations on the ranching and livestock industry. The eight sponsors, including all American major livestock associations, have invited five speakers.

Edwards, who heads a bank that historically built much of its reputation through financing of ranching and other livestock operations, is past president of Texas Bankers Association and former member of the Governing Council of American Bankers Association and of ABA's Administrative Committee of Government Relations Council.

Farr is president of Farr Farms Co., Greeley, Colo. The company has diversified agricultural interests, with the main business cattle feeding and cattle ranching.

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## Livestock & Money/Add One

Farr is a member of NCA's Beef Grading Committee and HEW's Food and Drug Administration Committee. He has served as a member of the Food Advisory Committee of the Cost of Living Council, Department of the Interior Water Pollution Control Advisory Board, National Livestock and Meat Board, USDA National Cattle Industry Advisory Committee and U.S. Chamber of Commerce Agriculture Committee.

Edwards, who will lead off the symposium, will speak on "What the Future Holds for Financing Livestock Production." Farr's presentation is the "Impact of Regulations on Livestock Production."

Other speakers include Everette Harris, president emeritus, Chicago Mercantile Exchange, and Robert Jensen, head, Department of Nutrition, University of Connecticut.

Luncheon speaker will be President Barbara Keating of Consumer Alert, who will talk on "Regulation of Any Industry Is Really Regulation of All Consumers."

Sponsors are Texas Tech College of Agricultural Sciences, American Quarter Horse, National Cattlemen's, National Wool Growers, Ranching Heritage, Texas and Southwestern Cattle Raisers, Texas Cattle Feeders and the Texas Sheep & Goat Raisers associations.

The symposium precedes the first National Golden Spur Award and Prairie Party honoring Albert K. Mitchell of Albert, N.M., as recipient. The Prairie Party begins at 6:30 p.m. in Lubbock Memorial Civic Center.

The ninth annual Ranch Day of the Ranching Heritage Association will be held Saturday, Sept. 23, at the 12-acre outdoor exhibit

at The Museum of Texas Tech University. The center depicts the history of ranching in America.

All events are open to the public. Ticket information is available by calling the Ranching Heritage Center, 742-2498 in Lubbock.

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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: B. Zeeck

LUBBOCK--W. D. Farr, former National Cattlemen's Association president and head of NCA's Feeder Grader Subcommittee, and Gene Edwards, board chairman and president of Amarillo's First National Bank, will address the Sept. 22 National Golden Spur Symposium.

The symposium on Livestock and Money will be held from 10 a.m.-2:30 p.m. in The Museum of Texas Tech University. The registration fee, including a barbecue luncheon at the Ranching Heritage Center, is \$15.

Emphasis will be on impact of government regulations on the ranching and livestock industry. The eight sponsors, including all American major livestock associations, have invited five speakers.

Edwards, who heads a bank that historically built much of its reputation through financing of ranching and other livestock operations, is past president of Texas Bankers Association and former member of the Governing Council of American Bankers Association and of ABA's Administrative Committee of Government Relations Council.

Farr is president of Farr Farms Co., Greeley, Colo. The company has diversified agricultural interests, with the main business cattle feeding and cattle ranching.

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Farr is a member of NCA's Beef Grading Committee and HEW's Food and Drug Administration Committee. He has served as a member of the Food Advisory Committee of the Cost of Living Council, Department of the Interior Water Pollution Control Advisory Board, National Livestock and Meat Board, USDA National Cattle Industry Advisory Committee and U.S. Chamber of Commerce Agriculture Committee.

Edwards, who will lead off the symposium, will speak on "What the Future Holds for Financing Livestock Production." Farr's presentation is the "Impact of Regulations on Livestock Production."

Other speakers include Everette Harris, president emeritus, Chicago Mercantile Exchange, and Robert Jensen, head, Department of Nutrition, University of Connecticut.

Luncheon speaker will be President Barbara Keating of Consumer Alert, who will talk on "Regulation of Any Industry Is Really Regulation of All Consumers."

Sponsors are Texas Tech College of Agricultural Sciences, American Quarter Horse, National Cattlemen's, National Wool Growers, Ranching Heritage, Texas and Southwestern Cattle Raisers, Texas Cattle Feeders and the Texas Sheep & Goat Raisers associations.

The symposium precedes the first National Golden Spur Award and Prairie Party honoring Albert K. Mitchell of Albert, N.M., as recipient. The Prairie Party begins at 6:30 p.m. in Lubbock Memorial Civic Center.

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CONTACT: Marcia Lundy

LUBBOCK--Methods of pest control in businesses and homes, as well as a "Stump the Pros" panel discussion, will highlight the annual Texas Tech Pest Control Workshop, Sept. 17-19, at Lubbock's South Park Inn.

More than 150 are expected to attend the workshop, sponsored by the Texas Pest Control Association (TPCA).

The workshop will be opened by interim Dean William F. Bennett of Tech's College of Agricultural Sciences. Don R. McCullough, TPCA executive director, and Riley Turner, TPCA president, will then present a brief overview of TPCA.

Following the TPCA presentation, two \$500 Fannie Glasse Redwood Chemical Pest Control scholarships will be awarded to Texas Tech senior Ken McMeans, Gail, and sophomore Joel Derington, Pampa, both entomology majors.

The scholarships, initiated to encourage students to enter the pest control industry, are presented by Buddy Glasse, president of Redwood Chemical, Houston, in honor of his mother.

Alan M. Leopold of the National Pest Control Association and Charlie Chapman, executive director of the Structural Pest Control Board, will close out the Monday morning session.

Monday afternoon Ray Ashley, Texas State Department of Health, will discuss "Food Handling Establishments: Problems with Insects and General Sanitation," followed by Rick Rogers, The Burnett Company, Dallas, who will present "Drift and Run-off When Using a

Compressed Air Sprayer."

Tom Proctor, Velsicol Chemical Corp., Dallas, will present "Techniques of Application in Food Handling Establishments," and Glasse will discuss "Miscellaneous Tools of the Trade" to cover some industrial problems in pest control.

Control of such household pests as spiders, ticks, mites and scorpions will be discussed by Dr. Darryl P. Sanders, chairperson of Tech's Department of Entomology and workshop coordinator, and Dr. Oscar F. Francke, Tech entomology professor. Dr. Donald Ashdown, also of the Tech entomology department, will discuss "Lawn and Ornamental Problems."

The "Stump the Pros" question-and-answer session will end the Tuesday morning session. Panel participants include Noad Corley, Corley Pest Control, Dallas; Dr. Phil Hamman, Texas A & M University Department of Entomology; Rogers, Glasse and Ashdown.

The workshop will end Tuesday afternoon with "Pest Control Operators Problem Solving," directed by Hamman. The format will be group participation.

Following the workshop will be an insurance seminar for members of the TPCA group insurance program only.

Sunday's meetings will involve TPCA's Executive Committee and Board of Directors.

The public is invited and participants not pre-registered may register Monday at 8 a.m. for an \$18 fee.

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distribution: locals  
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Judy Hunter  
morgue: The Museum  
Politicians-Mahon

1 for Thursday

CONTACT: B. Zeeck

LUBBOCK -- Congressman George Mahon and his wife <sup>(Sept. 14)</sup> Helen will be honored Thursday evening by 91 members of the West Texas Museum Association who are in Washington ~~for that occasion, and to tour the Smithsonian and visit historic Virginia houses~~

Rep. Mahon is a member of the Smithsonian Institution Board of Regents, and the WTMA is sponsoring its dinner at the Smithsonian Castle. At the dinner the congressman will be presented a pair of Jack Drake birds to express the association's appreciation for Mahon's years of service to the 19th Congressional District.

Drake, a West Texas wood carver, has had his birds displayed at the Smithsonian, New York's Metropolitan Museum of Art and other prestigious museums. The gift to the Mahons will be two cardinals.

The WTMA group will tour the Smithsonian <sup>on</sup> Friday (Sept. 15) under the guidance of curators to learn about the exhibits, collections and methods used in several areas of the national museum. In the evening the group will be entertained at a reception in Decatur House, located across Lafayette Square from the White House.

Saturday will be spent visiting the Carlyle House, Woodlawn Plantation, Gunston Hall and Mt. Vernon in Virginia.

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