

FOR IMMEDIATE RELEASE

REF: 1-2-18-91

CONTACT: Chris Patterson
or Gayle Fulcher,
(806) 742-2352 Ext. 248

LUBBOCK -- Texas Tech University's Division of Continuing Education and Armadillo Camera will host a "Kodak Photographic Seminar" from 7-10 p.m. March 5 in the University Center Ballroom.

The fast-paced, fact-filled program is for people who want to learn to take better pictures with an adjustable 35mm camera. Topics to be discussed include: "Exposure: Letting your camera do it!"; "Film: Which is best for your picture?"; "Composition: What makes pictures good?"; "Lighting: The key to good photographic eye"; "Electronic Flash: Control your own lighting"; "Close-ups: Open a new world of motion!"; "Action: Capture the world of motion"; and "People: Tips on casual pictures of family and friends."

To illustrate techniques, hundreds of first-class slides will be presented by a Kodak photographic specialist. A drawing for door prizes also will be held.

Fee for the seminar is \$15. For more information or to register, telephone the Division of Continuing Education at (806) 745-3300 or (806) 742-2352 Ext. 249. MasterCard or Visa charges will be accepted by telephone. Registration can be made in person at the division's office at the Center of Innovation, 2579 S. Loop 289, or the Continuing Education Building on the corner of 15th Street and Akron Avenue on the Texas Tech campus. Registration also may be completed at Armadillo Camera, 3824 50th St.

TEXAS TECH UNIVERSITY

News & Publications

Lubbock, TX 79409-2022
(806) 742-2136
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FOR IMMEDIATE RELEASE
REF:2-2-18-91
CONTACT: Chris Patterson

LUBBOCK -- The 1991 PeeBee Awards will be presented at 8 p.m. Tuesday (March 5) during the Festival membership and fund-raising telethon for public television station KTXT-TV (Channel 5). Texas Tech University President Robert W. Lawless will make the presentation during a live telecast.

The PeeBee Awards honor individuals and businesses that have made significant contributions to public television on the South Plains. The awards are presented in three categories: individual, business/corporate and advertising/public relations. The selections are based on overall merit, length of service, financial support and other contributions to KTXT-TV.

Ray and Lou Diekemper will be the recipient of the award in the individual category. They will be recognized for their consistent and generous contributions to Channel 5 for the past 10 years. They have shown their dedication to public television through volunteer support, membership contributions and program underwriting.

First National Bank will be recognized in the business/corporation category. Since 1980, the bank has demonstrated through program underwriting its support of public television on the South Plains.

The award in the advertising/public relations category will be given to Phil Price Advertising Inc. The business will be recognized for its donation of professional service to public television. John Ingram and the Phil Price staff contributed their time, talent and resources to assist with the promotion plans for the 1989 and 1990 Festivals.

FOR IMMEDIATE RELEASE
REF: 3-2-18-91
CONTACT: Chris Patterson

LUBBOCK -- "The Civil War," the award-winning documentary of the war between the states by filmmaker Ken Burns, will be the centerpiece of Festival '91, the KTXT-TV membership drive airing March 2-17.

Five years in the making, "The Civil War" portrays the entire sweep of the war -- from the battlefields to the homefronts, from the politicians and generals to the enlisted men and their families, from the causes of the war and the opening guns at Fort Sumter to the stillness at Appomattox.

"The series exemplifies the kind of quality programming Channel 5 makes available year round to public television viewers on the South Plains," said Helen Otkin, development director for the station. "During Festival, we will be reminding viewers that their support is vital if we are to continue providing worthwhile programs."

The series, which made television history by attracting public television's largest audience ever, will air on five consecutive nights at 7 p.m. March 3-7.

Other highlights of Festival '91 include: "A Frank Sinatra Special," "Fred Astaire Songbook," "Going Home to Gospel with Patti LaBelle," "Johnny Mathis -- Chances Are," "Tchaikovsky 150th Birthday Gala From Leningrad," "NOVA: Swimming with Whales," "Nature: Teton Wilderness," "Big Bird's Birthday or Let Me Eat Cake" and "Gardens of the World with Audrey Hepburn."

FOR IMMEDIATE RELEASE

REF: 4-2-18-91

CONTACT: Jennifer LeNoir

LUBBOCK -- A visiting scholar at Texas Tech University came from the Middle East to West Texas to study parachutes -- underwater.

Fulbright Scholar Tahir Yavuz, Ph.D., a mechanical engineering professor from Trabzon, Turkey, is studying the aerodynamics of parachutes by using a new underwater tow tank at Texas Tech University.

Yavuz notes that parachutes have evolved during the past 40 years in their uses beyond the original applications for lifesaving and military purposes, such as dropping cargo and weapons.

Parachutes later were used for decelerating aircraft. The umbrella-shaped devices most recently have been utilized in the landing instrumentation of spacecraft, he said.

"Not only have parachutes been used on a number of occasions to assist re-entry into the Earth's atmosphere, they also have been employed in the essential landing instruments onto other planets as well onto the earth," Yavuz said.

Yavuz is studying parachutes in a tow tank using water rather than in a wind tunnel using air because water allows him to simulate actual atmospheric environments.

A common method of collecting data on parachute systems involves the use of wind tunnels, which normally provide "steady" or constant wind speeds, he said. However, his research project requires the collection of experimental data in "unsteady" conditions, such as those experienced by parachutes in the atmosphere.

"In other words, the tow tank allows researchers to collect data that was not otherwise possible to obtain in a wind tunnel. We may vary the speeds at which the parachute is being pulled through the water, whereas the wind speed in a wind tunnel remains constant," he said.

Yavuz came to Lubbock in January from the University of Minnesota, where during the previous four months he conducted aerodynamics research on parachutes.

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PARACHUTES/PAGE 2

During his visit at Texas Tech, he is studying "bluff body aerodynamics and pressure distributions," or air flow patterns and aerodynamic forces on certain objects, like parachutes.

Yavuz said his parachute research may be applied to the study of wind on various building structures. He particularly is interested in the effects of wind on people and buildings.

Prior to receiving the Fulbright Scholarship, Yavuz was an assistant professor from 1982-85 at Erciyes University in Kayseri, Turkey. He was promoted to associate professor in 1985 and continued teaching at Erciyes until 1988. He began teaching at Kardeniz University in Trabzon in 1988.

"At Erciyes University, all of the aerodynamics research was done theoretically. It was not until I came to Kardeniz that I was able to actually gather data in a wind tunnel," he said.

He received his bachelor's degree in 1974 from Kardeniz Technical University and his doctoral degree in 1982 from Leicester University in Leicester, England, both in mechanical engineering.

TEXAS TECH
UNIVERSITY

News & Publications

Lubbock, TX 79409-2022
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REF: 5-2-19-91
CONTACT: Chris Patterson

LUBBOCK -- South Plains cotton gin co-op managers recently met with Texas Tech University researchers and an Austin businessman to hear about a new procedure for increasing the value of cotton gin trash.

The procedure relies on the use of chemical oxidizers to predigest cotton gin trash for use as cattle feed.

The concept of changing cotton gin trash into livestock feed is not new. But according to Reed Richardson, professor of animal science, past projects proved too costly for most feedlot operations. The new procedure, which relies on the use of mixed oxidants, can be economically feasible, he said.

The procedure, developed by Charles Sweeney of Austin, uses a water solution of various oxidants -- ozone, hydrogen peroxide and other superoxide species. The liquid product is produced in a special electrolytic cell designed by Sweeney. The mixture is blended with the cotton gin trash to chemically alter or pre-digest the burrs. The final product is fed to cattle as the fiber portion of their diet.

Richard Tock, professor of chemical engineering, said approximately 30 gallons of the mixed oxidant are required to treat each ton of gin trash. But, he cautioned, care should be taken to distribute the liquid evenly through the gin trash -- usually a 30-minute process. The projected cost of processing one ton of gin trash is approximately \$10.

The researchers said they were pleased with a 75-day field study at Springlake Feedyard near Earth, Texas, that proved the treated gin trash was an acceptable and safe roughage food source for beef cattle. Left untreated, gin trash is only 36 percent digestible, but the new technology improved digestibility to 56 percent, they said.

"In fact, the treated gin trash seemed to encourage greater consumption by the animals," Richardson said.

Gary Cobb, vice president for marketing of Plains Co-op Oil Mill in Lubbock, said the procedure has merit. He said he thinks that if several mills form an agreement, deliver the cotton burrs to a designated area for processing and transport the finished product to the nearest feedlot, then the product could be marketed to provide additional revenue.

"We all know we have a problem with cotton burrs. Well, now we have a process that will enhance the value of the burrs," he said. "We just need to find the most economical way to treat and distribute the product."

COLLEGE PROMOTES AGRICULTURAL AWARENESS

LUBBOCK -- The Texas Tech University College of Agricultural Sciences will sponsor its first Ag Awareness Week Friday through Wednesday (Feb. 22-27).

According to Marvin Cepica, associate dean for academic and student affairs in the College of Agricultural Sciences, the week will highlight the college and the many career opportunities available in the field of agriculture.

The kickoff of the week will coincide with University Day when more than 2,000 high school students are expected to visit Texas Tech University.

A pot luck supper will be served at 6:30 p.m. Friday at the Meats Lab Building. Agricultural sciences students and prospective students and college faculty, staff and their families will be invited.

On Monday, a representative from the Texas Cattle Feeders Association will make a presentation. Time and place will be announced later.

Ag Career Night is scheduled for 7-9 p.m. Tuesday in the University Center Courtyard. Representatives from more than a dozen agricultural companies will be present to answer students' questions about job opportunities and placement requirements.

The week will conclude Wednesday with a display of information booths from 10 a.m. to 2 p.m. in the University Center Courtyard. Representatives from the various departments and clubs associated with the College of Agricultural Sciences will be on hand to help faculty and students understand the scope of and opportunities available in agricultural sciences.

For more information, contact Cepica at 742-2808.

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FOR IMMEDIATE RELEASE

REF: 7-2-19-91

CONTACT: Myrna Whitehead

LUBBOCK -- Historian and environmentalist Donald E. Worster, Ph.D., will conduct a free lecture on "Cowboy Ecology: A New Look at an Old West" at 7:30 p.m. Friday (Feb. 22) in the Special Collections Room of the Texas Tech University Library.

The lecture is part of the annual Charles L. Wood Agricultural History Lecture Series.

Worster is the Hall Distinguished Professor of American History at the University of Kansas in Lawrence. He is the author of several books including "Dust Bowl: the Southern Plains in the 1930s" and "Rivers of Empire: Water, Aridity and the Growth of the American West," which was nominated in 1987 for the Pulitzer Prize in History.

Worster, recipient of the 1980 Bancroft Prize in American History, has received fellowships from the Guggenheim Foundation, American Council of Learned Societies, Mellon Foundation, National Endowment for the Humanities and the Australian National University.

Worster received his bachelor's degree in history from the University of Kansas in 1963. He received his master's degree in philosophy and doctorate from Yale University in New Haven, Conn., in 1970 and 1971, respectively.

The lecture is sponsored by the International Center for Arid and Semi Arid Land Studies, department of history, Southwest Collection, the College of Arts and Sciences, the College of Agricultural Sciences and the Arts and Sciences honors program.

TEXAS TECH UNIVERSITY

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FOR IMMEDIATE RELEASE
REF: 8-2-20-91
CONTACT: Myrna Whitehead

LUBBOCK -- Soviet experts Barbara Heldt, Ph.D., and Gerald Smith, Ph.D., will conduct a free lecture at 3:30 p.m. Thursday (Feb. 21) in Room 57 in the Business Administration Building on the Texas Tech University campus.

Heldt, professor of Russian literature at the University of British Columbia in Vancouver, British Columbia, is one of the most prominent feminist critics in Russian literature in North America. Heldt, who received her doctorate in Russian literature at Indiana University, will speak on "Glasnost and Soviet Women."

Smith received his doctorate in Russian literature at Oxford University in Oxford, England. He is the chair and professor of Russian literature at Oxford University and a fellow in Mew College at Oxford.

Smith will speak on "Mothers and Sons in Contemporary Soviet Poetry." He also will analyze a poem by the Russian poet Okudzhava.

The lecture is sponsored by Texas Tech's Russian Club, the department of Germanic and Slavic languages and the Office of International Affairs in conjunction with the College of Arts and Sciences and the department of Classical and Romance languages.

News and Publications

Lubbock, TX 79409-2022
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CALENDAR WEEK FEB. 22-MARCH 1

REF: 9-2-21-91

CONTACT: News and Publications

(MEDIA ADVISORY: This Texas Tech calendar is compiled to let you know of upcoming events and releases and to serve as a reminder of releases already sent. If you need more information, call News and Publications at 742-2136.)

FEB 22

Student exhibit -- Carl Gombert, painting and drawing,
Art Building Hall Gallery through Feb. 28

University Day, sponsored by the Office of New Student Relations,
9 a.m., Lubbock Municipal Auditorium and Texas Tech campus

Health Sciences Day programs and tours
1:15-3 p.m., TTHSC 2B elevator lobby

UC film -- "Stand and Deliver," sponsored by UC Activities,
3:30 and 8 p.m., Allen Theater

International Coffee, sponsored by the Office of International Affairs,
4 p.m., Holden Hall Room 75

Charles L. Wood Agricultural History Lecture Series -- "Cowboy
Ecology: A New Look at the Old West," by Donald E. Worster, Hall
distinguished professor of American history at the University of Kansas,
sponsored in part by the colleges of Agricultural Sciences and Arts and
Sciences and the Southwest Collection,
7:30 p.m., University Library Special Collections Room

FEB 23

Conference -- "Refresher Course in Anesthesiology," sponsored by Texas
Tech Health Sciences Center and District I of the Texas Society of
Anesthesiologists,
7:30 a.m., Lubbock Memorial Civic Center through Feb. 24

College of Arts and Sciences distinguished alumni brunch
10 a.m., Lubbock Plaza Hotel Dallas Room

Cheerleader tryout results announced
4 p.m., Women's Gym

Lecture -- Jaime Escalante, sponsored by UC Programs,
8:15 p.m., Allen Theater

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- FEB 24 Exhibit -- Colorprint U.S.A.
Art Building Fine Art Gallery, through March 23
- Senior recital -- Michael Johnson, trombone,
3 p.m., Hemmle Recital Hall
- FEB 25 Exhibit -- Jonathon Reff, photography, ends
Art Building S.R.O. Gallery
- Exhibit -- Susan Dunkerley, photography,
Art Building S.R.O. Gallery through March 18
- Jazz Ensemble I concert
8:15 p.m., Hemmle Recital Hall
- FEB 26 Art Through the Ages seminar, "The Early Taos Eight," by Dan Flores,
sponsored by the Women's Council of the West Texas Museum
Association,
11 a.m., Texas Tech Museum Memorial Room/Taos Gallery
- Senior recital -- Roberta Hinson, clarinet,
8:15 p.m., Hemmle Recital Hall
- FEB 27 Texas Tech Research Foundation Board of Directors meeting
10 a.m., Administration Building Regents Board Room
- Texas Tech Foundation quarterly meeting
10 a.m., Administration Building Board of Regents Suite
- Weekly injury clinic, sponsored by the department of recreational
sports and TTHSC department of orthopedics,
7 p.m., Recreation Center Room 201
- Senior recital -- Lori Marvel, soprano,
8:15 p.m., Hemmle Recital Hall
- FEB 28 Masked Rider transfer of reins
2 p.m., Jones Stadium
- Student Leader Dinner, sponsored by the Ex-Students Association,
6 p.m., Ranching Heritage Center

CALENDAR/PAGE 3

FEB 28 cont. Lecture -- "Contemporary Works in Floral Design," by Ron Rice and Norma Long of Baldwin Flowers
7 p.m., Texas Tech Museum

Tokyo Festival Ballet, sponsored by UC Cultural Events,
8:15 p.m., Allen Theater

MAR 1 Student exhibit -- Angela Heath, painting,
Art Building Hall Gallery through March 7

Workshop -- "Ethics and the Addiction Counselor," sponsored by the Southwest Institute for Addictive Diseases,
1:30-4:30 p.m., Southwest Institute Annex

University Symphony Orchestra concert
8:15 p.m., Hemmle Recital Hall

TEXAS TECH

HEALTH SCIENCES CENTER

News & Publications, HSC Bureau

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FAX (806) 743-2118

FOR IMMEDIATE RELEASE
REF: A-2-22-91
CONTACT: Kim Davis

LUBBOCK -- A clinical update in the management of medical and surgical crises will be conducted at the Texas Tech Health Sciences Center (TTHSC) March 15 for pre-hospital and emergency department personnel.

The one-day course, sponsored by the Continuing Nursing Education Program, will focus on recent innovations in the management of trauma and cardiovascular emergencies. The course is worth seven contact hours.

Enrollment is \$22 by March 1 and \$37 after the deadline. For more information, contact the TTHSC School of Nursing at 743-2734.

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HEALTH TIPSHEET
for
TEXAS TECH HEALTH SCIENCES CENTER
February 22, 1991

ASTHMA ATTACK -- A chronic but reversible obstruction of the bronchial airways, asthma affects more than 8.9 million Americans. Of those, approximately 2 to 3 million are children. And, while respiratory infections are the most common causes of asthma, many external factors are also to blame, says TTHSC allergist Jitra Anuras, M.D. Allergies to house dust, pollens, animal danders, feathers and other substances can lead to asthma and bronchial hyper-reactivity, which occurs when the bronchial airway becomes inflamed. Additionally, Anuras said, recent studies clearly demonstrate a direct relationship between maternal smoking and the prevalence of childhood asthma, the likelihood of taking asthma medication and the age of onset of asthma in children. To arrange an interview on this topic, contact Kim Davis in the TTHSC Office of News and Publications at (806) 743-2143.

INFANT MORTALITY -- Respiratory Distress Syndrome -- often the result of inadequate lung development -- is one of the most common causes of newborn deaths. Yet doctors are able to detect the problem and save infants' lives every day with the help of laboratory chemical evaluations. A child's lungs don't even begin to mature until nearly the 34th week of pregnancy, according to TTHSC pathology professor Charles A. Bradley, Ph.D. If a child is born prematurely -- as is the case with many multiple pregnancies resulting in twins or triplets -- the chances of having fully matured lungs are slim. However, a series of chemical tests of the fetus can predict the probability of underdeveloped lungs. Based on the test results, the doctor may choose to prescribe medication to the mother in order to prolong her pregnancy until the unborn's lungs are fully mature. For more information, contact Bradley at (806) 743-2145.

For assistance on these or other stories,
contact Kim Davis or Preston Lewis at TTHSC
News and Publications, (806) 743-2143.

B-2-22-91

TEXAS TECH UNIVERSITY

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FOR IMMEDIATE RELEASE
REF: 10-2-22-91
CONTACT: Steve Kauffman

LUBBOCK -- Texas Tech University is one of 20 higher education institutions in the nation selected to receive a \$100,000 Mobil Corp. grant to endow scholarships for students returning from active duty in Operation Desert Shield/Desert Storm.

The scholarships, each between \$1,000 and \$5,000, will be available for the veterans or for their surviving dependents.

Texas Tech President Robert W. Lawless, notified this week about the grant, said, "Texas Tech is extremely honored to receive this scholarship money for Desert Storm veterans. We commend Mobil Corporation for making an investment in the futures of the brave men and women serving in the Persian Gulf."

Under the endowment plan, Texas Tech will select undergraduate recipients based on need and academic potential. Each scholarship may be renewed for as many as four years.

"We hope these scholarships will advance the educational aspirations and careers of at least some of the brave young men and women who have already given up much for us," said Mobil President and CEO Allen E. Murray in announcing the grants totaling \$2 million.

According to Texas Tech Dean of Students records to date, 90 students as military reservists have been deployed for Operation Desert Shield/Desert Storm since August. University policy allows the students to re-enter classes with their status remaining as it was when they left the university.

MEDIA ADVISORY

TEXAS TECH
University & Health Sciences Center

News and Publications

Lubbock, TX 79409-2022

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FAX (806) 742-1615

MEDIA ADVISORY

REF: 12-2-22-91

CONTACT: Steve Kauffman

[MEDIA ADVISORY: The 1991-92 Texas Tech University cheerleading squad will be announced at 4 p.m. Saturday (Feb. 23) in the Women's Gym on the Texas Tech campus. The public presentation and performance by the 14-member group will follow a day-long session of tryouts beginning at 9 a.m. with a slate of more than 30 candidates. For more information or to make special interview arrangements, contact Debbie Spencer in the ~~Student Organization Services~~ office at 742-3621.]

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FOR IMMEDIATE RELEASE
REF: 13-2-22-91
CONTACT: Jennifer LeNoir

LUBBOCK -- Texas Tech University's department of civil engineering will host a seminar titled "The Wind as Seen From Downunder" at 3 p.m. Monday (Feb 25) in Room 205 of the Civil and Agricultural Engineering Building.

Visiting researcher Chris Letchford, a lecturer at the University of Queensland in Brisbane, Australia, will discuss the importance of developers conducting wind environment assessments at proposed construction sites. He also will present results from an ongoing investigation about the impact of wind in downtown Brisbane.

According to Letchford, man-made structures change the wind environment in cities. Tall buildings, he maintains, especially deflect strong gusts of wind onto streets, cars and people.

The gusts of wind often may cause serious physical harm or death to downtown pedestrians, who could be blown into the path of traffic, said Letchford.

Also, he said, persistent winds may create an environment that is perceived as unpleasant, often resulting in fewer customers and economic losses for downtown outdoor shopping or eating establishments.

Engineering researchers say wind assessments help developers estimate the significance of wind at the street level and determine measures for the reduction of wind in specific areas.

Currently on sabbatical from Queensland, Letchford is in the United States participating in a cooperative research program between Texas Tech and Colorado State University at Fort Collins. The program is conducted through Texas Tech's Wind Engineering Research Center.

The goal of his research in Lubbock involves gathering full-scale wind loading data using Texas Tech's moveable building. The metal test building is used to study the effects of winds on the walls and the roof of various structures. The building's 160-foot meteorological tower enables researchers to collect data on wind, barometric pressure and temperature.

Letchford received a bachelor's degree in 1980 from the University of Queensland and a doctoral degree 1987 from Oxford University, both in civil engineering.