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Done  
8-12, 1984

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CONTACT: Preston Lewis

1-10-8-84

LUBBOCK--The varied uses of textiles will be highlighted with a Focus on Fibers production during National Textile Week activities at Texas Tech University Oct. 22-26.

The dual media - live and slide - production is sponsored by the university's Textile Research Center (TRC). Focus on Fibers is something like a style show with a special twist to show how textiles are used not only for fashionable attire but also for protective gear, medical applications, industrial needs and other purposes.

Focus on Fibers will be open free to the public at 7 p.m. Oct. 25 in the University Center Theater. Program participants will include representatives from Hemphill-Wells, Latham's, Levi Strauss and Co., G. Bradford and Co., Ski Lubbock, Lubbock Fire Department, U.S. Air Force and the TRC. Door prizes will be awarded during the presentation.

Kay Caddel, a TRC research associate and Texas area chairman for the American Textile Manufacturers Institute which coordinates Textile Week activities, said the educational program will offer the public a glimpse of the varied and often surprising uses textiles are put to in modern society.

Also scheduled during Textile Week are free tours of the Textile Research Center. Tours will be available 1-3 p.m. Oct. 22-26. The TRC is the only textile research facility of its type west of Alabama. The research emphasis of the center is on improving the understanding and the applications of the natural fibers -- cotton, wool and mohair -- produced in Texas.

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Caddel said 2.4 million people nationally depend on the textile and apparel industry for their jobs, including 151,000 in Texas, seventh highest among the 50 states.

Half of Texas' textile-related jobs -- 76,300 -- result from the state's cotton production. Another 9,000 jobs are accounted for by the wool industry. Texas ranks first among the states in jobs resulting from cotton and second among states for wool-related employment.

Caddel said the textile industry is one of the most productive in the country. From 1973 to 1982 textile industry productivity ranked second nationally -- behind only the electronics industry -- with a compounded growth rate of 3.8 percent a year, according to the U.S. Department of Commerce.

The TRC is a full-fledged textile research facility which can take the textile process all the way from the raw fiber to the finished fabric. The facility assists the textile industry in improving all fiber uses and processes with a special emphasis on increasing the use of the natural fibers produced in Texas.

Texas Tech is one of only seven institutions in the United States that offers bachelor of science degrees in textile technology.



Story ideas for the week  
of Oct. 8-13, 1984  
2-10-8-84

**Texas Tech University**  
University News & Publications  
BOX 4650/LUBBOCK, TEXAS 79409/(806) 742-2136

# Radio & Television New Service

CERS--The Center for Educational Research and Service, part of Texas Tech University's College of Education, is assisting the Lubbock Independent School District and other area school districts in improving the quality of education. The center provides development programs designed to improve teacher effectiveness. Dr. Duane Christian, director of the center, says the majority of the programs deal with using computers for instruction. Contact Christian, 742-2368.

"THE SEARCH IS ON"--Texas Tech plant researchers are making progress in their effort to create a new hybrid grain sorghum plant that will produce a crop that uses water more efficiently. Contact Dr. Dan Kreig, Plant and Soil Professor, 742-1631.

GETTING AHEAD--People who want to "get ahead" or want more than an important title and fatter wallets, are people in service industries. Contact Joseph Yane, Business Professor, 742-2148.

WHAT DO DIETITIANS DO?--The Texas Tech University College of Home Economics has been accredited by the American Dietetic Association to train dietitians. The program includes "hands-on" training to prepare students to become registered dietitians important in today's nutrition conscious society. Contact Dr. Elizabeth Fod, Food and Nutrition Professor, 742-3060.

CONCERT NEWS--The East 13th Street Band will be in concert at 7:30 p.m. Sunday Oct. 14th at The Museum of Texas Tech University. The musicians in the band started playing Jazz music in the 1950s and have earned international reputations in other fields as well. Larry Rivers, tenor sax, is an internationally renowned artist. The band has performed at the Brooklyn Academy with the Duke Ellington Orchestra and the Brooklyn Philharmonic as well as other concerts in New York. The concert is sponsored by the Texas Tech Department of Art and The Museum of Texas Tech University. For more details contact Gary Edson, Art Department Chairman, 742-3825.

For assistance in developing these and other story ideas, contact Christy Bingham/Bill Wideman, UN&P, 742-2136.



**AFTER HOURS CALL:**

Bee Zeeck, Director, (806) 799-8897

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Christy Bingham, Manager, Broadcast Bureau, (806) 795-1865

CONTACT: R. Gary Cates

3-10-8-84

LUBBOCK--Seven nationally known scholars will discuss the extent to which psychiatric illness is produced by environmental factors or biological factors during the Fourth Annual Interfaces in Psychology Symposium Oct. 25-26 at Texas Tech University.

The symposium, titled "Biological and Behavioral Correlates of Psychopathology," will examine whether environmental or biological factors can be identified as the more significant cause of mental disorders.

About 100 psychologists, psychiatrists and persons in related fields are expected to attend the two-day meeting sponsored by the Texas Tech Department of Psychology. Sessions will begin at 8:30 a.m. each day in the University Center Senate Room. Sessions are open to the public free.

Speakers will include Dr. Brendan Maher, of the Department of Psychology and Social Relations at Harvard University, with a keynote address on the historical development of current trends in the diagnosis and treatment of psychological disorders.

Dr. Bonnie Spring, former Harvard professor now on the faculty of Texas Tech, will review research concerning the thought processes of those prone to schizophrenia.

Dr. J. Thomas Hutton, professor of medical and surgical neurology with Texas Tech University Health Sciences Center, will discuss aging and mental health issues. His talk will touch on Alzheimer's Disease and diseases of aging.

Closing the meeting will be Dr. Joseph Zubin of the Veteran's Administration Medical Center in Pittsburgh, Pa. Zubin will present a summary of papers given and the current status of research in psychopathology.

Other speakers will include Dr. Christopher Coe, Department of Psychiatry, Stanford University, with a report on research animals as models of human behavior; Dr. Raymond Crowe, Department of Psychiatry, University of Iowa Hospitals and Clinics, on the questions of genetics and heredity in mental problems; and Dr. Ferris N. Pitts Jr., Department of Psychiatry, University of Southern California School of Medicine, on issues in the study of biological factors influencing psychopathology.

Symposium coordinators Vernon J. Perez and June Chiodo of the Department of Psychology at Texas Tech will publish the proceedings of the symposium in conjunction with Department Chairman John H. Harvey.

For more information, contact Chiodo at 742-3711 or Perez at 742-3729.



CONTACT: Darla Hightower

4-10-8-84

LUBBOCK--New York's East 13th Street Band, combination jazz musicians and artists, will perform in a free concert Sunday (Oct. 14) at The Museum of Texas Tech University.

The Texas Tech performance will follow appearances in Houston and Dallas. The innovative band will perform the "swing" of the 1940s and the "bebop" of the 1950s in a 7:30 p.m. concert.

Artists and band members Larry Rivers and Howard Kanovitz, along with art historian David Levy will also share their art and knowledge with the public in a round-table discussion and slide presentation at 3:30 p.m. in the Department of Art Hall Gallery.

Tenor saxophonist Larry Rivers is an internationally acclaimed painter.

"Both musician and artist remain firmly locked in the same body," said New York Daily News critic Don Nelson.

"The music swings for both young and old with a beat that evokes the pork-pie hat and the zoot suit," said Peter Cunningham of the Southampton Press.

Trombonist Howard Kanovitz is also a painter. Saxophonist and art historian David Levy heads Parsons School of Design.

Pianist Myron Schwartzman, a James Joyce scholar, is a professor of English at Baruch College and teaches at Parsons. Trumpet player Howard Brofsky is a distinguished musicologist whose publications on 18th century Italian music are well known to the scholarly world. Brofsky is also an authority on jazz history.



The East Thirteenth Street Band appears frequently in New York and other East Coast cities. It appears regularly at such night spots as Studio 54, Trax, Danceteria, Number One Fifth Avenue and Area. The band recently performed at the Brooklyn Academy of Music with the Duke Ellington Orchestra and the Brooklyn Philharmonic.

All of the band's arrangements are original as are many of the band's compositions.

The band recently recorded its first album. The album will feature a double cover and poster conceived and executed by Larry Rivers and Howard Kanovitz, with graphic design by Levy, typography by Charlie Toor and program notes by Brofsky.

A September concert at The Museum honoring Buddy Holly week drew a record 2,500 in attendance.



# PLANT SOIL SCIENCE COLLOQUIUM

DEPARTMENT OF PLANT AND SOIL SCIENCE

"PHYSIOLOGICAL AND MOLECULAR ASPECTS OF THE  
HEAT SHOCK (HIGH TEMPERATURE STRESS)  
RESPONSES IN CROP PLANTS"

PRESENTED BY

DR. JOE KEY  
EXECUTIVE VICE-PRESIDENT AND  
CHIEF SCIENTIFIC OFFICER  
AGRI-GENETICS CORP.  
BOULDER, COLORADO

TUESDAY, OCTOBER 9, 1984  
4:00 P.M.  
101 GODDARD  
TEXAS TECH UNIVERSITY

COFFEE HOUR 3:30 - 4:00 P.M.  
ATRIUM AREA  
PLANT SCIENCE BUILDING

DR. JOE KEY, PAST PRESIDENT OF THE AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS, HAS HELD NUMEROUS SCIENTIFIC ADMINISTRATIVE POSITIONS, AS WELL AS BEING AN OUTSTANDING SCIENTIST. HE CURRENTLY IS PROFESSOR OF PLANT PHYSIOLOGY AT THE UNIVERSITY OF GEORGIA, ATHENS, AND IS DIRECTOR OF RESEARCH FOR AGRI-GENETICS, A LEADING GENETIC ENGINEERING COMPANY BASED IN BOULDER, COLORADO.



**AFTER HOURS CALL:**

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Christy Bingham, Manager, Broadcast Bureau, (806) 795-1865

CONTACT: Darla Hightower

6-10-9-84

LUBBOCK--Free guided tours of "The Language of Lace," a major exhibit at The Museum of Texas Tech University, can be arranged for individuals or groups by calling The Museum education office at (806) 742-2456.

The exhibit, open until March 4, includes both antique and machine laces from the 16th century to the present.

Betty Mills, curator of costumes and textiles at The Museum, said The Museum has exquisite examples of handmade laces, including needlepoint and bobbin lace.

The display includes both men's and women's lace fashions from the Golden Age of Lace, the 16th-18th centuries.

Among items in the collection are lace bedcovers, curtains, tablecloths, doilies, parasols, clothes, purses, fans, caps and handkerchiefs.

A 17th century handmade Venetian Rose Point collar is displayed. Also, a mid-19th century lace border for a wedding veil worn by financier Bernard Baruch's mother is on loan for the lace exhibit from McKissack Museum, University of South Carolina.

"Lace was considered more valuable than gold and even made of gold and silver. It was smuggled in and out of most European countries," Mills said.



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CONTACT: Darla Hightower

7-10-9-84

LUBBOCK--Texas Tech University Professor Robert J. Baker has been honored for his service as managing editor of the Journal of Mammalogy in a ceremony at The Museum of Texas Tech University.

Baker is Horn Professor of biology at Texas Tech University and curator of mammals at the museum. He has served as managing editor of the international Journal of Mammalogy for three years.

The award was presented Oct. 1 to Baker by the graduate students in his mammalogy program. The award, made by student Robert Hollander, is a leather framed carving featuring the antelope emblem of the American Society of Mammalogists on one side and a picture of Baker on the other side.

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CONTACT: Darla Hightower

8-10-9-84

LUBBOCK--Early Christian Art will be the topic of a lecture at 11 a.m. Tuesday (Oct. 16) at The Museum of Texas Tech University.

Georgia Chamley-Brevik of the Texas Tech Art Department will discuss the paintings and sculptures from which the early Christian artist received inspiration for content and form.

In later lectures of the series, Chamley-Brevik will discuss "Early Christian Architecture" and "Eastern Byzantine Art (Ravenna)."

The lectures are part of the fall series of art seminars sponsored by the Women's Council of the West Texas Museum Association.

The Tuesday lectures begin at 11 a.m. with registration and coffee at 10:30 a.m. Admission is \$3 per lecture.

The 24th annual art seminar, "Art Through the Ages," will study art and its historical context.



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CONTACT: Darla Hightower

9-10-9-84

LUBBOCK--The growing number of practitioners working in diet and nutrition fields can cause confusion for consumers who want help but who can't distinguish among qualifications.

Texas Tech University Professor Elizabeth Fox of the food and nutrition faculty says the best way to be certain a dietitian or nutritionist has the proper credentials is to check registration by the American Dietetic Association.

In Texas, a dietitian has the right to use the letters R.D. (registered dietitian) and L.D. (licensed dietitian) if the person is registered with the ADA and the State of Texas. The registration assures the consumer that the person is qualified to give advice on nutrition and diet.

The fastest growing area of work for dietitians is private practice, Fox said. Private practitioners either work alone or on referrals from a physician.

Many registered dietitians, however, also provide patient care and education in hospitals and nursing homes. Some provide product research and consumer education for food companies, Fox said. Other registered dietitians are employed by school systems, universities or restaurants.

To become a registered dietitian, a student must complete the course of study at an ADA accredited university, complete an internship and pass the registration exam administered by the ADA.

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Texas Tech University was recently accredited by the ADA and is offering an internship program to educate prospective registered dietitians.

The program includes four years of undergraduate study followed by a one-year internship at the graduate level. After completing the internship, the student can choose to take the registration exam and/or complete a master's degree.

The six students enrolled in the program are receiving practical experience by working at 12 local facilities on a rotating basis, Fox said.

The new program at Texas Tech makes eight internship programs for dietitians available in Texas.

"This is a growing area because more research is being done in nutrition," Fox said.



CONTACT: Preston Lewis

10-10-10-84

LUBBOCK--Texas Tech University history Professor Joseph E. King has been named director of the Center for History of Engineering and Technology at the university.

The announcement was made jointly by Chairpersons Alwyn Barr of the History Department and E.W. Kiesling of the Civil Engineering Department. The center conducts sponsored research in engineering history and historic preservation. Students and faculty from several academic departments on campus participate in public history projects under the center's auspices.

King succeeds Joseph E. Minor, Horn professor of civil engineering, as center director. Minor, a co-founder of the center with then history professor Seymour Connor in 1970, will remain as associate director of the center.

King has been research director of the center since 1981. King joined the Texas Tech faculty in 1970. He holds a bachelor's degree from Fordham University and master's and doctoral degrees from the University of Illinois-Urbana-Champaign. He is the author of "A Mine To Make a Mine," a study of Rocky Mountain mining practices, and numerous reports to sponsoring agencies on his applied research.

The center is recognized nationally for researching and documenting the history and significance of the built environment. Research teams from the center have completed historic surveys in projects funded by the states of Arizona, Colorado, New Mexico and Texas.

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Research scheduled by the center this academic year includes studies of the Texas South Plains, of Eddy County, N.M., of the City of San Angelo, Texas, and of highway and railroad bridges in Central Texas.

In the last three years, public and private agencies have awarded more than \$250,000 in grants and contracts to the center for documenting historic sites, architectural resources and engineering landmarks in the Southwest.

The center's work has resulted in more than 50 nominations of significant structures in the region to the National Register of Historic Places.

Also, the center maintains an archive of historical sites and structures in the West and Southwest.



CONTACT: R. Gary Cates

11-10-10-84

LUBBOCK--A Hereford broadcaster, a Tyler oil man, the vice-president of a textile manufacturing company in Alabama, and a Virginia savings executive have been named 1984 distinguished alumni by the Texas Tech University Ex-Students Association.

The honorees are Clint Formby, Class of 1949, president of Formby Stations, Hereford; J.L. Gulley Jr., Class of 1949, an independent oil producer, Tyler; Charles L. Harris Jr., Class of 1947, vice president, manufacturing, Bed Products Division, WestPoint Pepperell Manufacturing Co., Opelika, Ala.; and Robert J. Lewis, Class of 1949, chairman of the board of United Savings Bank of Vienna, Va.

The four will be honored at the annual distinguished alumni dinner at 6:30 p.m. Nov. 2 in the University Center. Tickets for the dinner are \$10 each, available only by reservation from the Ex-Students Association office. For information contact the association at P.O. Box 4009, Lubbock, Texas 79409, or (806) 742-3641.

Distinguished alumni are chosen on the basis of significant contributions to society through their lives and their professions.

Formby, a nationally known broadcaster, oversees nine regional radio stations. His professional interests have led to positions on the corporate board of directors of Associated Press and BMI, the world's largest music license company. He is currently president-elect of the Associated Press Broadcasters Board.

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He received his bachelor's degree in government in 1949. He is also the recipient of many professional honors and was selected 1980 Man of the Year by the La Ventana, the Texas Tech yearbook, the only non-faculty person so honored.

As a member of the Texas Tech University and Health Sciences Center Boards of Regents, Formby served as chairman from 1977-79. His 12-year tenure on the board, from 1971-83, is the second longest in Texas Tech history.

He is the only person to have been president of the Student Association, president of the Ex-Students Association and chairman of the Board of Regents at his alma mater.

Formby and his wife, Margaret, who was selected "Miss Texas Tech" as a senior, have four children.

Gulley is co-owner of W.R. Hughey Operating Co., an oil exploration and production company that he co-founded with longtime business partner W.R. Hughey. Gulley also served from 1970-80 as president of United Drilling Co. of Tyler and Bell Supply Co. of Kilgore.

After service in both World War II and the Korean War, Gulley put his petroleum geology degree to work when he and Hughey began Rotary Drilling Inc. in 1959. Gulley also maintains business interests in Abilene and San Antonio.

The growth of Texas Tech's enrollment and athletic programs has always been a primary concern of Gulley's. He has been president of the Ex-Students Association and trustee for the Texas Tech Dads Association, Letterman's Association, Red Raider Club and Century Club.



Gulley has received Texas Tech's Distinguished Service Award and has been inducted into the Athletic Hall of Honor for his two years as a football letterman.

Gulley and his wife, Jean, have six children.

Harris oversees the sheet manufacturing operations in five WestPoint Pepperell manufacturing plants in Alabama and Georgia, a finishing plant in Opelika, Ala., a sewing plant in Abbeville, Ala., and a fabricating plant in Biddeford, Maine.

After joining Pepperell in 1953 as a methods engineer, Harris rose through the organizational ranks to his current position as vice president of manufacturing in 1973.

He received his bachelor's degree in textile engineering from Texas Tech in 1947. Since then his associations in the textile industry have led to positions as state chairman of the Textile Manufacturer's Association, general chairman of the Alabama Textile Operating Executives organization, member of the board of directors of the American Textile Manufacturer's Institute, president of the Alabama Textile Education Foundation, and adviser to the national Cotton Council. He has also devoted time to a large number of civic causes.

While serving with the Army Corps of Engineers during World War II, Harris earned the rank of captain and four battle stars.

Harris and his wife, Bobbie, live in Opelika, Ala.

Lewis is currently chairman of the board of directors of the United Savings Bank of Vienna, Va. He also manages investment properties.

He founded Lewis Construction Corp. in Fairfax, Va., in 1961 and developed residential and commercial properties in the Maryland-District of Columbia-Virginia area. As president of Lewis Construction from 1961-70 Lewis developed shopping centers, apartment complexes, and office buildings until he formed a limited partnership for building and maintaining townhouses. He has retired from active construction and development work.

Prior to forming his own company Lewis worked with W.M. Chappell Inc., on general contracts for schools, hospitals, and missile sites. He received his bachelor's degree in civil engineering from Texas Tech in 1949.

As a Texas Tech alumnus Lewis has been a long-time member of the Ex-Students Association and is a donor to the Texas Tech Endowment for Academic Scholarships.

Lewis and his wife, Ann, have one son.



CONTACT: Preston Lewis

12-10-11-84

LUBBOCK--A comprehensive look at the federal Tax Act of 1984 will be offered at the 32nd annual Texas Tech Tax Institute Nov. 1-2 in the Lubbock Memorial Civic Center.

Featured speakers will include Dan M. Guy, vice president for auditing of the American Institute of Certified Public Accountants' Auditing Standards Division, and Frank M. Burke Jr., a partner of Peat, Marwick, Mitchell & Co.

The institute will examine current developments in individual and corporate taxation, oil and gas taxation, pension plans, estate and gift taxation, partnership taxation, alternative minimum taxes, real estate financing and financing college education.

The institute will run 9 a.m. to 5 p.m. each day. Sponsored through the Texas Tech Center for Professional Development, the institute costs \$155. Information on the program or registration is available through the center at P.O. Box 4550, Texas Tech, Lubbock, Texas 79409, (806) 742-3170.

Program participants will include Stephen R. Akers, tax attorney, Jenkins & Gilchrist, Dallas; William Jeff Cole, partner, Cole, Evans & Peterson, certified public accountants; John W. Hamm, tax partner, Arthur Young & Co., Dallas; Sally Morrow Jones, associate professor of accounting (taxation), University of Texas, Austin.

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Also, John P. Klingstedt, national director, oil and gas services, Alexander Grant and Co., Oklahoma City, Okla.; Vance K. Maultsby Jr., national director, petroleum industry practice, Peat, Marwick, Mitchell and Co., Dallas; John H. Mullen, national director, personal financial planning services, Main Hurdman, New York; Gerald W. Padwe, national director, tax practice, Touche Ross and Co., Washington, D.C.; and James Stroud, executive vice president and director, Equity Management, Dallas.

Guy heads the AICPA's Auditing Standards Division. He is also the U.S. technical adviser to the International Auditing Practices Committee of the International Federation of Accountants. Previously he served as director of auditing research for the AICPA. He is a member of the Texas Society of CPAs and the American Accounting Association.

Burke is chairman of Peat Marwick International's energy group and serves as a director on the firm's board. A Texas Tech graduate with bachelor's and master's degrees in business administration, Burke was named the first distinguished accounting alumnus in 1980 and three years later a distinguished university alumnus. An endowed chair in taxation has been named at Texas Tech for Burke.

About 400 participants are expected to attend the tax institute which is designed for certified public accountants, tax preparers and attorneys specializing in tax law.

The Texas Tech Center for Professional Development is a registered sponsor of professional education programs with the Texas State Board of Public Accountancy and other state boards.



# Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS/P.O. BOX 4640/TEXAS TECH UNIVERSITY/LUBBOCK, TEXAS 79409/(806) 742-2136

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EDITOR'S ADVISORY

13-10-10-84

Dr. Lauro F. Cavazos, president of Texas Tech University and the Texas Tech University Health Sciences Center, on October 10, 1984, issued the attached public statement. It is for your information or use as you deem appropriate.

The Faculty Senate of Texas Tech University has announced the results of a vote it conducted to assess the degree of faculty confidence in the president. Although the majority expressed a lack of confidence, others retained confidence in the president and I find that reassuring because I feel they understand that many broad and significant issues affect Texas Tech and its future and they have not been distracted by temporary dissatisfactions or differences of opinion precipitated by a single issue.

Universities by nature abound in vigorous debate and professional differences of opinion. That is to be expected, especially when a new philosophy emerges or a change is proposed in customary operations. This debate can be healthy and productive--or destructive if the debaters wish it to be. As any president, I have accepted the fact that not everyone will always agree with the course I set for the University, but likewise I cannot embark on the hopeless and impossible task of trying to please everyone or obtain popularity at any cost. It is my responsibility, which I willingly accept, to consider the facts and recommendations and then make the decisions. I have acted, and will continue to act, in the best interest of the University, its students, and the public. It is inevitable that occasionally some individuals or groups may not be pleased with these decisions. But my responsibility extends beyond individual aspirations and concerns; therefore, my commitment and action will be directed towards the long-term welfare of the institution. The policies and programs I visualize, and that Tech needs, are bigger and more important than individual or group interests or situations. The common interest transcends that of the individual,



and I as the President have the primary responsibility for ensuring that the common interest is considered.

Although I am disappointed by recent divisive expressions and actions, and inaccurate statements by some, and frequent indications that some critics of the tenure policy did not understand its contents, I am still convinced that Tech has been moving in the right direction. We have a solid University that daily is gaining more recognition and respect because of the talent and efforts of many dedicated professionals working cooperatively. I do not intend to indulge in bickering or regrets, but rather to do my utmost to restore confidence in those who lack faith in what we are doing so that we can get on with the important work we have to do for our students and the citizens of this State. We cannot afford the luxury of pernicious disagreement and squabbling that, if not corrected, would only lead to damage for all and benefit for none.

I intend to follow my convictions, to obey the dictates of my conscience, to exert my best efforts in behalf of the University and, above all, to pursue the goal of a greater Texas Tech. I welcome all of those who truly have the University interest at heart to join me in attaining that goal.

CONTACT: Preston Lewis

15-10-11-84

LUBBOCK--The same aerodynamic phenomenon which can make certain wind turbines self-regulating may one day be used to increase the maneuverability of high-speed aircraft.

For the past four years, "dynamic stall" has been studied by Texas Tech University mechanical engineering Professors James H. Strickland and Walt Oler as part of a project examining the Darrieus turbine.

The Darrieus turbine is a vertical axis wind machine resembling a giant inverted egg beater. During the research, Strickland and Oler have concentrated on the aerodynamics of the turbine by developing a computer program that will predict the effects of dynamic stall and by making experimental measurements to verify that analysis.

Though the aerodynamic study was initiated on the wind turbine to evaluate its energy-producing potential, the results may spill over into aircraft because the aerodynamic principles at work in dynamic stall would be the same for any airfoil, whether a turbine blade or an aircraft wing, Strickland said.

"We originally developed a simplified aerodynamic code for the turbine," Strickland said. "There were some conditions under which this aerodynamic code did not do what it was supposed to and the problem turned out to be dynamic stall."

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Aerodynamic stall occurs when the angle of attack of an airfoil is large and the drag increases suddenly while the lift decreases, Strickland said. In the case of a Darrieus turbine, dynamic stall can regulate power output within design limits despite high wind. In the case of an aircraft, the phenomenon usually causes an unwanted stall in the air.

By understanding dynamic stall, engineers can design Darrieus turbines more efficiently without having to overdesign them or the attached generators for high winds, Strickland said. Proper design means lower capital outlays, maintenance savings and increased power outputs.

But how does this relate to aircraft? Simply stated, if controlled dynamic stall can be generated, a high-speed aircraft can literally stop in mid air and turn around. The faster an aircraft travels, the greater time it takes to change directions, Strickland said. However, using controlled dynamic stall, it is theoretically possible to reduce the time to a fraction. Such a technique could be applied in fighter aircraft, for instance, to give a significant combat advantage to that plane over others.

Though that technology is still in the theoretical stages for aircraft, it is workable for applications in Darrieus turbines.

Oler said, "In the Darrieus turbine you can use dynamic stall to limit the load on the structure. After a certain wind speed, power levels off and you can use it to control power output."

Dynamic stall is a complicated problem receiving the research attention of scientists and engineers around the nation, he said.

"We took an approach to dynamic stall and we resolved the major problems associated with that approach," Oler said. "I feel like we can generate about as good a result for the approach we took as is possible.

"I'm not saying that the results will fully satisfy the needs of design engineers, but they will add to the physical understanding of the phenomenon," Oler said.



Story ideas for the week  
of October 15-20, 1984  
16-10-12-84

**Texas Tech University**  
University News & Publications  
BOX 4650/LUBBOCK, TEXAS 79409/(806) 742-2136

# Radio & Television New Service

WORLD FOOD DAY--The issues concerning world food distribution will be discussed in a live national teleconference 11 a.m.-2 p.m., Tuesday Oct. 16 in the University Center Senate Room. The teleconference is an opportunity for people from around the world to share ideas on how to get food to those that are suffering from starvation. Contact Nancy Hood, 742-2218.

WELCOME SPIDERS--Why should anybody want spiders in the home? Dr. Sherman Phillips, entomology professor, says they help control mosquitoes and other pests that get in the house. Contact Phillips to get more details, 742-2828.

CAREER ROLE MODELS--President, astronaut or business executive are careers open to both men and women today. Children should be encouraged to pursue career choices that are interesting to them without being limited to traditional choices. Contact Barbara Simmons, Education Professor, 742-2784.

READING, WRITING, ARITHMETIC AND COMPUTER LITERACY--Who teaches teachers to teach children about computers so they will be able to function well in the mainstream of future society? Contact Dr. Robert Price, educational computer professor, 742-2362.

For assistance in developing these and other story ideas, contact Christy Bingham/Bill Wideman, UN&P, 742-2136.

CONTACT: B. Zeeck

17-10-12-84

LUBBOCK--There will be a called meeting of the Texas Tech University Board of Regents at 11 a.m. Thursday, Oct. 18, in the board suite of the Administration Building. The purpose of the meeting is to pass a resolution regarding the board's position on the subjects of the tenure policy and the president.



## AFTER HOURS CALL:

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18-10-12-84

LUBBOCK--Without the right personality, a computer tutor in the home can do more harm than good.

The software -- the personality of the computer -- is the most important element, says Texas Tech University education Professor Robert V. Price. And many parents stocking up on educational software to teach their kids may actually be hindering their children's progress.

A recent Gallup poll revealed that 42 percent of home computer owners use their computers as a learning tool for children. The problem comes when a parent must select from over 3,000 educational software programs available commercially -- many of which are poor quality, said Price, director of the Texas Tech Education Computer Center.

"Computers are very dumb!" Price said. "They can't do anything until they receive instructions."

With quality software, a computer can help students with math, spelling or memorizing any facts through drilling. Also, simulation and games on the computer can help take the drudgery out of learning and provide a look at the real world.

Over 400,000 computers are used in schools today and that number is expected to double every year through 1988, Price said. Well-written programs can enhance a student's problem-solving skills, logical thinking, strategy, synthesis of information and creativity, he said.



Unfortunately, not all of the software on the market is high quality, and separating the good from the mediocre is not easy, Price said.

"Some software is unimaginative and doesn't use the full capability of the computer. It's so boring that it will turn kids off to using computers," he said.

Some programs are computer-controlled rather than person-controlled, which does not encourage critical thinking. The problem could be that the program simply does not do anything important.

"Poor programs may not only be a waste of time and money, they may also do more harm than good," Price said.

A poor computer program may contain technical or factual errors, a problem that is much too common, Price said.

In selecting quality software, the most important consideration is whether the program accomplishes its purpose, Price said. The purpose in educational software, of course, is for the student to learn.

"Some software is written by programmers who know programming, but don't understand kids," Price explained.

Checking documentation or instructions is also important in selecting software, Price said. Good instructions will tell the user clearly what the program does and how to use it. Poor documentation may be disorganized, overly technical, poorly written, or lack important information.

Technical quality is another important factor. A high quality program will run smoothly without errors. Also, displays will be professionally done and information will be well organized.



Cost is another important consideration in selecting software. Prices range from free to thousands of dollars each, and both good and poor quality can be found in all prices. Cost should be judged in relation to the task accomplished by the program, Price said.

The influx of inferior software can be partly attributed to a rush to fill the growing demand for educational software, Price said. Also, since anyone with access to a computer can write a program, unqualified people can produce educational programs.

"We have these powerful machines, but selecting the software that makes the computer do what you want is the most important consideration," Price said.

Price recently wrote the education section of "Omni's Complete Catalog of Computer Software." He has also written books and numerous articles on computers in education.

CONTACT: Betty Albers

ATTENTION: Agriculture Editors

20-10-12-84

LUBBOCK--Three men who command widespread respect for their achievements and leadership have been named Distinguished Agricultural Alumni of the Texas Tech University College of Agricultural Sciences.

Malcolm G. Garrett of Clovis, N.M., a farmer and plant breeder; Donald T. Pendleton of Washington, D.C., the chief range conservationist, Soil Conservation Service; and Dr. J. Bryan Stine of Wichita Falls, retired vice-president for Kraft Foods, will be honored at the Distinguished Agricultural Alumni Awards luncheon Oct. 26.

Luncheon will begin at noon in the University Center Coronado Room. Tickets are \$8 and available until Oct. 23 through the dean's office, College of Agricultural Sciences, Box 4169, Texas Tech University, Lubbock, Texas 79409, (806) 742-2808.

Garrett has served as general manager, president, and financial officer for the Garrett family operations, including farming, ranching, oil-gas properties, and terminal grain storage in Clovis, N.M. Through Garrett's plant breeding knowledge, the Garrett farms became recognized as a male-sterile sorghum stocks supplier for the production of hybrid sorghum seed.

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He has served as vice-chairman for the Board of Regents of New Mexico State University (NMSU), president of the New Mexico Seedsmen association, and a member of the Board of Trustees for High Plains Research Foundation. Garrett is chairman of New Mexico's Economic Development Committee and a member of the state's Agricultural Task Force, American Soil Science Society, American Society of Agronomy, International Crop Scientist Society, and the American Quarter Horse Association.

His writings include "The Improved Selection of Tascosa Wheat for New Mexico." He has received state service and honorary awards.

Garrett's civic activities include service as a United Fund board member and as a supporter of 4-H Clubs, Future Farmers of America and the NMSU Foundation.

Pendleton is national range conservationist for the Soil Conservation Service. His leadership in this position affects more than one-half billion acres of range and forest. He works directly with five regional range conservationists, and indirectly with 23 state range conservationists. He has assisted two developing nations in Africa and participated in range/pasture studies in East Germany, Australia and New Zealand.

Pendleton is a member of the National Cattlemen's Association, a member of the National Association of Conservation Districts, Council of Agriculture Science and Technology, Wildlife Society of America and several honorary societies.

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He graduated as the highest ranking student in his class from the school of agriculture at Texas Tech and has received a master's degree from Harvard University. Pendleton has received several awards that distinguish him as a scholar and conservationist. He owns and oversees operation of a ranch in Texas.

Stine was vice-president of Kraft Foods when he retired after 42 years of service. He has served as president and chairman of the Research and Technical Committee of the National Cheese Institute and committee chairman of the Technical Committee of the National Confectioners Association.

He was chairman of the Industry Liaison Committee of the Food Protection Committee for the National Academy of Science and a member of the Technical Committee of the Grocery Manufacturer's Association. Stine has served as a member of the U.S. Delegations for the United Nations food regulation program.

He has been a member of the committee of Government Experts concerning milk and milk products and a United Nations program governing international trade in dairy products.

Stine holds one of only four President's awards given by Kraft Foods in the past 20 years. He has also received the Miles International Cheese award of contributions to the international cheese industry and the National Confectioner Association's Research and Education award for 1973.



# Texas Tech News

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LUBBOCK--Texas Tech students and any others who are concerned about world hunger and food-related problems in the U.S. and abroad can participate Tuesday (Oct. 16) in a three-hour forum at the Texas Tech University Center. There is no charge.

Participants will take part in a one-hour national teleconference question and answer session broadcast in Lubbock by KTXT-TV in cooperation with the national University Teleconference Network.

The event will begin at 11 a.m. and continue until 2 p.m., starting with the satellite broadcast in the Senate Room. This will be followed by a one-hour session with local speakers in the Lubbock Room. The third hour, in the Senate Room, will be devoted to a local question and answer period.

The forum is sponsored by the National Committee for World Food Day, headquartered in Washington, D.C., and about 300 national and international organizations. Local sponsors include the Texas Tech University College of Agricultural Sciences, the Office of International Programs, the International Center for Arid and Semi-Arid Land Studies, and the Office of Research Services.

Among those participating in the national teleconference will be President Ronald Reagan and Food and Agriculture Organization Director-General Edouard Saouma, who will have messages. Eddie Albert will moderate. Panelists include: Secretary of Agriculture John Block; the Lesotho Ambassador, Madame 'M' Alineo Tau; U.S. Rep. Mickey Leland, U.S. House of Representatives Select Committee on Hunger; Dr. Ruth Finney of the FAO; Dr. Clifton Wharton, State University of New York; and Father William Byron, founder, Bread for the World.



Lubbock participants will have the opportunity to call in questions to the national panel, although Tech organizers point out that there will be limited time for questions from each state.

Lubbock panelists will be: Dr. Idris R. Traylor, director of the International Center; Dean Sam E. Curl of the College of Agricultural Sciences; Ray Diekemper, president of the board, South Plains Food Bank; and Margarett L. Harden of Texas Tech's food and nutrition faculty and a representative of Women in Development.

Dr. Robert C. Albin, associate dean of the College of Agricultural Sciences, is chairman of the organizing committee.

Many countries, Albin said, have taken steps to improve the right of all people to be free from hunger. The focus has primarily been on increasing production of food and on reducing price fluctuations in world markets.

"The steps taken have not solved the problem, of course," he said. "There is a great need for new initiatives and for true collaboration among all people of the world. World Food Day 1984 will involve people from throughout our nation. New views will be sought, and we can rethink some of our present positions with the hope of finding better solutions."

A report on the Lubbock World Food Day program will be sent to the Washington organization, and a sifting of ideas from across the nation will, perhaps, provide new approaches to the problem, Albin said.