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CONTACT: Beverly Taylor

1-11-18-85

LUBBOCK--Fifteenth century sculpting will be highlighted by art librarian Georgia Chamley-Brevik at 11 a.m. Nov. 26 at The Museum of Texas Tech University.

The works of the artist Verrocchio will be the main topic of the discussion which is part of the fall series of Tuesday art seminars sponsored by the Women's Council of the West Texas Museum Association. Verrocchio was an important influence during the second half of the century in Renaissance Italy, according to Chamley-Brevik of the Art Department.

The session is part of "Art Through the Ages," the 25th year of art seminars for the organization. This fall, 15th century Italian Renaissance art is being reviewed.

Admission is \$3 per lecture.



# Texas Tech News

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TEXAS TECH UNIVERSITY/ TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER

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

CONTACT: Sally Logue Post

2-11-18-85

LUBBOCK--Determining who should receive welfare will be the topic of the third and final Lubbock National Issues Forum from 5:30-8:30 p.m. Thursday (Nov. 21) in The Museum of Texas Tech University Conference Room.

"Welfare: Who Should Be Entitled to Public Help?" is sponsored by the Texas Tech University Department of Speech Communication and the Division of Continuing Education.

The free public forum is affiliated with the Domestic Policy Association, a national network of community organizations which hold nonpartisan national issues forums.

A \$3 nonpartisan booklet on the discussion topic is available through the Texas Tech Division of Continuing Education, Box 4110, Texas Tech, Lubbock, Texas 79409, (806) 742-2354.

Participants are asked to read the discussion booklet before attending the forum. The booklets also contain opinion questionnaires which participants will be asked to complete at the conclusion of the discussion. The questionnaires will be sent back to the Domestic Policy Association

Speech communication Professor John F. Deethardt will convene the forum.

"The goal of the Domestic Policy Association is to hold open discussions among all interested citizens to reach a common ground, a civil understanding about complex problems," he said. "From that understanding, public policy can be created and supported."

For more information about the forum, contact Deethardt at (806) 742-3911 or the Division of Continuing Education.



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CONTACT: Sally Logue Post

4-11-18-85

LUBBOCK--Waste management is one of the most difficult problems for traditional feedlots to solve. But Texas Tech University's newest feedlot is not a traditional facility.

Unique in the High Plains area, the facility in northern Lubbock County has a special waste management system that will keep the feedlot free of the normal odor and mud associated with dirt floor cattle pens.

The \$1.6 million feedlot, which can hold 1,168 head of cattle, was designed and built by Cattlemen's Construction Co.

Thornton Professor Rodney L. Preston of animal science said researchers will have total control over the disposal of animal waste in this facility.

The 114 cattle pens are designed with an underground concrete channel, measuring 24 inches deep by 8 feet wide running the length of the two rows of pens. Steel scrapers are set to go into operation several times each day.

Preston, who will direct research efforts at the facility, said the feed bunks, which measure 24 inches deep on the feeding side and 32 inches on the outside, are located on one side of the pens with water troughs on the opposite side. In the center of the pens are 8-foot-wide slat sections with one- and one-half-inch slots.

"Because the cattle have to cross the pens to eat and drink, they will work the manure to the center slat sections," Preston said.

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Once the waste falls through the slats, it is scraped into a concrete surge tank, Preston said.

"We can pump the waste directly from the surge tank into a pivot sprinkler system, or we can run the waste directly into a tanker for field fertilization," Preston said. "We can also run the waste over a solids separator or build a methane gas generator unit on the surge tank. Right now we are using the tank-field fertilization system, but we can use any of the other options at any time."



CONTACT: Debbi Whitney

4-11-18-85

LUBBOCK--Drug addiction might be both a chemical and psychological reaction that could be controlled with chemicals already found in the body.

That theory is being studied by Dr. William H. Lyness, pharmacology professor at Texas Tech University Health Sciences Center.

"Addiction to the stimulant drugs like cocaine and amphetamines is a serious international concern and extremely difficult to treat medically," Lyness said.

He is conducting research on rats to determine which parts of the brain are affected by drug addiction, why addiction occurs and how to treat it.

"Once we understand what actually occurs, we can use this information to treat the condition," he said.

The rats learn to inject themselves with drugs by hitting a lever which triggers the injection of intravenous drugs.

"Once they feel the effects of the drugs by accidentally hitting the lever, they continue to hit it," Lyness said.

Some trigger the release of small amounts of amphetamine up to 70 to 90 times a day. The rats' reaction to the drugs are believed to be similar to that in humans, and Lyness feels they may provide for an accurate study of what occurs in humans.

After injections of amphetamine, chemical changes occur in the brain that appear to make rats want more of the drugs, Lyness said.

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"It's been said, in human studies, that some people have addictive personalities. But in rats, just about all the animals we test learn to abuse amphetamines," Lyness said.

The drugs release a substance called dopamine, which produces a euphoric state in the animals and continues the desire for drugs. Dopamine is a neurotransmitter, or chemical messenger between certain types of nerves in the brain. Lyness said, however, that another neurotransmitter, the chemical serotonin present in some brain nerve cells, also appears to control the desire for drugs.

Lyness said serotonin can be removed chemically from the brain to study its effects on the body. When serotonin-containing nerves were removed from the rats' systems, they wanted the amphetamine even more. In fact, the animals self-administered almost twice as much of the drug.

When brain serotonin was increased, though, the rats lost the desire and some even stopped wanting the drug, Lyness said.

"If you increase brain serotonin using a diet high in the amino acid tryptophan (a precursor to serotonin) or by the administration of one of the new antidepressant drugs which affect serotonin-containing nerves, animals reduce their drug abuse habits," Lyness said.

He has not yet determined what the effect is that turns animals away from drugs, but said serotonin changes appear to dramatically alter continued drug usage.

Lyness originally started the testing with cocaine -- which proved to be one of the worst addictive stimulant drugs to use in rats.

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"Animals like it so much they tend to overdose themselves easily," Lyness said. "Even with amphetamines, the animals are only tested for eight hours a day because they tend to stop eating, drinking and eventually die if they are given access to the drug for very long periods each day.

"These drugs are capable of that much control over the body," he said.

Lyness next intends to study the effects of stimulant abuse on the cardiovascular system and hopes to find out why "cocaine coronaries," fatal heart attacks in chronic cocaine users, occur.

He also plans to study behavioral patterns in rehabilitated drug users to determine if their brain functions have been impaired by previous drug habits.

"All the available evidence points to permanent changes in brain chemistry as a result of chronic stimulant abuse in rats," he said.

CONTACT: Preston Lewis

5-11-18-85

LUBBOCK--The Texas State Securities Board, the three-member policy-making body which promulgates regulations and oversees enforcement of the Texas Securities Act, will meet in Lubbock for the first time Friday (Nov. 22).

The board will meet at 9:30 a.m. Friday in the Courtroom of the Texas Tech University School of Law. The meeting is open to the public.

State Securities Board members are Texas Tech law Professor Hal M. Bateman, Robert K. Utley III of Temple and Alan D. Feld of Dallas. Utley is board chairman.

The board at its Nov. 22 meeting will consider several proposals for changes in rules under the Texas Securities Act and will receive reports from the Texas Securities Commissioner and his staff. The board oversees securities regulation under the Texas statute and coordinates its efforts with federal securities law.



CONTACT: Sally Logue Post

6-11-18-85

LUBBOCK--Lytle H. Blankenship, professor of wildlife science, Texas Agricultural Experiment Station in Uvalde, will speak on big game management at 7:30 p.m. Wednesday (Nov. 20) on the Texas Tech University campus.

The speech, open free to the public, will be presented in the Goddard Range and Wildlife Building, Room 101.

Blankenship is president-elect of The Wildlife Society, the international professional organization for wildlife biologists.

He will speak on his work with African wildlife. Blankenship's research interests in Texas are centered on nutritional interactions among big game animals and domestic livestock.

The speech is sponsored by the Texas Tech Department of Range and Wildlife Management.

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CONTACT: B. Zeeck

7-11-18-85

(EDITOR'S ADVISORY: There will be a news conference at 9 a.m. Thursday (Nov. 21) in the Texas Tech University Center Anniversary Room for Dr. Milton Friend, director of the National Wildlife Health Laboratory, Madison, Wis. Dr. Friend will be attending a two-day meeting of the Interagency Playa Lakes Disease Council in Lubbock. Members of the council, associated with the U.S. Department of the Interior Fish and Wildlife Service, will spend Wednesday visiting various playa lakes in West Texas where diseased waterfowl have been located. Dr. Friend will discuss with media representatives what has been learned regarding waterfowl disease in West Texas.)



CONTACT: B. Zeeck

8-11-18-85

LUBBOCK--Texas Tech University regents will meet in regular session at 10 a.m. Friday in the university Administration Building. Committee sessions for the regents will be held Thursday from 1:30 to 5 p.m. and Friday from 8:30 to 10 a.m.

In addition to regular business, regents will hear special reports on medical education and studies relating to a research park and educational center.

Members of the board also will participate in ceremonies dedicating new feedmill/feedlot facilities at the Texas Tech University Agricultural Field Laboratories, Lubbock County, and a 25,000-square-foot Advanced Technology Learning Center in the Tech Library.

They will consider a proposed degree option for a doctor of philosophy with a major in education, in addition to the presently offered doctor of education degree.

Regents will also consider conveyance of land to the Interfraternity Housing Corp. and building projects related to a cotton classing facility at the East Campus; a College of Business Administration computer facility; renovations for the Civil Engineering Building, residence halls, library, and the East campus research facility; and an addition to the Texas Tech Press building.

CONTACT: Preston Lewis

9-11-18-85

LUBBOCK--A team of Texas Tech University law students has qualified for the finals in the National Moot Court Competition next January in New York.

The Texas Tech team finished second in the regional competition Saturday (Nov. 16) in San Antonio and earned the right to advance to the national finals. The Texas Tech team was edged out by the University of Oklahoma Law School in the 14-team regional competition drawing squads from Texas, Arkansas and Oklahoma.

Team members are third-year law students Elvin L. Caraway of Lubbock, Larry Jordan of Lubbock, Sherry Rasmus of El Paso and alternate Kevin Parker of Lubbock.

The team is the ninth from Texas Tech to qualify for a finals competition in oral advocacy.

Moot court competitions are modeled after appellate court procedures. Students present appellate arguments on a hypothetical question, this year focusing on constitutional issues of free speech and taking of property between a cable television company and a municipal government.

Students prepare briefs on the legal questions at issue and present their case as if it were before an appellate court. Students are judged on both their brief and their oral argument.

The New York Bar Association sponsors the national competition.

Coaches for the Texas Tech team are Lubbock attorneys and adjunct law professors Donald M. Hunt and D. Murray Hensley.

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Caraway of 105-D S. Troy, Lubbock, is formerly of Spur and is the son of Mrs. Emma Caraway of Lubbock. Jordan, a native of Cleburne, lives at 4711 78th St., Lubbock. Rasmus is the daughter of Mr. and Mrs. Robert Gray of 5201 Juliandra, El Paso. Parker is the son of Dr. and Mrs. Harry Parker, 8606 Vicksburg, Lubbock.

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CONTACT: B. Zeeck

10-11-19-85

LUBBOCK--The second American citizen to fly on the space shuttle under NASA's Space Flight Participant Program will be a journalist, and Texas Tech President Lauro F. Cavazos has been named to a national selection panel which will choose the five finalists competing for the opportunity.

The Association of Schools of Journalism and Mass Communication (ASJMC) has been chosen by the National Aeronautics and Space Administration to handle selection of the first journalist in space.

Preliminary judging will be regional, and judging in each of the five regions will begin under the direction of a coordinating school of journalism.

Forty finalists chosen in regional competition will be sent to NASA headquarters in Washington, D.C., where they will be interviewed by the national selection panel of nationally known journalists who are retired, deans of leading schools of journalism, broadcasters, and public members, including prominent Americans.

Included in this panel, in addition to Dr. Cavazos, are Osborne Elliott, dean, Columbia University School of Journalism and former editor in chief of Newsweek magazine; James D. Atwater, dean, University of Missouri School of Journalism and former senior editor, Time magazine; Vermont Royster, professor emeritus, University of North Carolina, former editor of the Wall Street Journal and Pulitzer Prize winner.

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Ken McDonald, former editorial page editor, Des Moines Register-Tribune; James B. Holderman, president, University of South Carolina System; T.J. Hart, former astronaut; William Arthur, former editor, Look magazine; Elmer Lower, former president, ABC News; Faye Gillis Wells, aviator and member, The Ninety-Nine; Marilyn Yarbrough, professor of law and associate vice chancellor, University of Kansas; Willie D. Davis, president, All-Pro Broadcasting, Los Angeles; and Wilbur E. Garrett, editor, National Geographic magazine.

Cavazos is president of both Texas Tech University and the Texas Tech University Health Sciences Center. He was nominated for the panel by Dr. Billy I. Ross who heads Texas Tech's Department of Mass Communications.

Applications for the Journalist in Space Program should be available at ASJMC headquarters by Dec. 1. Deadline for returning completed applications is Jan. 15. To obtain an application write NASA Journalist in Space Project, ASJMC Headquarters, College of Journalism, University of South Carolina, Columbia, S.C. 29208.

Among qualifications for applicants is the requirement that the journalist have five or more years of professional experience as a working journalist. Applicants must be employed full-time at the time of application and at the time of selection.

CONTACT: Debbi Whitney

11-11-19-85

LUBBOCK--If left unprotected, heart muscle and tiny blood vessels can be damaged when blood flow must be stopped temporarily during cardiac surgery.

To minimize that damage, a Texas Tech University Health Sciences Center researcher is studying the best ingredients for a protective solution to insert in the vessels leading to an arrested heart. Dr. Paul F. McDonagh, a professor in the Department of Physiology, hopes his work will benefit not only cardiac surgery patients but also organ transplant recipients as well.

Part of McDonagh's study involves the effects of ischemia, or deficiency of blood to the heart, that can result when the heart must be stopped.

McDonagh explained that in cardiac surgery, the functions of the heart and lungs must be performed by a heart-lung machine.

During the time blood flow is halted in that process, red blood cells can aggregate and plug the smallest coronary blood vessels (the microcirculation). These minuscule vessels are so small that 10,000 of them could fit on the head of a pin. When the blood flow to the heart is started again, a "no-reflow" phenomenon may result, blocking blood flow to the heart and causing cardiac pump failure.

"Protection of the coronary microcirculation is important in the study of cardiac preservation because these microscopic blood vessels perform the most important function of the cardiovascular system -- exchange of nutrients and waste products," McDonagh said.

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Blocking the capillaries robs the heart and other organs of their necessary blood supply, he said.

McDonagh hopes to determine the best blood replacement to inject into the vessels to ease circulation once blood flow is resumed after surgery.

"Surgeons require a clean, motionless operating field during cardiac surgery," McDonagh said. "But the period of interrupted blood flow can be devastating to the heart and blood vessels if the heart is not protected."

McDonagh, who began his research on cardiac protection while a professor at Yale University Medical School, said the no-reflow phenomenon also occurs in hearts for transplant because no blood is supplied to the organ between the donor's death and the time the heart is removed and transplanted. McDonagh is studying methods to preserve transplantable organs.

The laboratory in which McDonagh and research colleagues Dr. James M. Reynolds and Juanita B. Larsen perform their work is the only one in the country in which coronary microcirculation can be viewed directly, he said.

To see the coronary microvessels in research on animals, a fluorescent protein is added to the solution used to perfuse the donor animal's vessels. A special microscope and closed-circuit television are used to illuminate the protein as it travels through the vessels. The process allows researchers to see how red blood vessels travel through coronary capillaries and to determine their permeability.

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McDonagh's overall research is aimed at understanding the role played by microcirculation in cardiac function. His studies include short-term cardiac protection, the long-term effect of ischemia on the heart and the ability of the heart to work as a pump.

McDonagh and his associates at Texas Tech and Yale University also are conducting experiments on the effects of diabetes on the coronary microcirculation and the role of the hepatic microcirculation in liver preservation for transplantation.

His research is being conducted through grants from the National Institutes of Health (the Heart, Lung and Blood Institute); the Richard C. Black Grant-In-Aid from the Texas Heart Association; and Miles Laboratories.



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CONTACT: Debbi Whitney

12-11-19-85

(MEDIA ADVISORY: Interviews with Michel Monnot may be set up by contacting Susan C. Imke at the Parkinson's Disease Information and Referral Center at 743-2647. Monnot will be available from 2-5 p.m. Friday (Nov. 22) and from 8:30-9:30 a.m. and 10:45-11:30 a.m. Saturday (Nov. 23). You also are invited to attend the reception at the Lubbock Hilton Inn.)

LUBBOCK--Michel Monnot had to surrender his job to the debilitating effects of Parkinson's disease. But his efforts to fight the illness have not faltered as he completes a 2,000-mile trek from Minneapolis to Los Angeles to publicize the need for a cure.

Monnot will be in Lubbock Friday and Saturday (Nov. 22-23) and in Roswell, N.M., Saturday and Sunday (Nov. 23-24) as part of his Road to Dignity Walk.

He will arrive in Lubbock at 11 a.m. Friday and will speak at a reception from 7-9 p.m. at the Lubbock Hilton Inn, Heritage Ballroom. The reception is sponsored by the West Texas Parkinsonism Society and the Texas Tech University Health Sciences Center Department of Neurology.

Monnot will walk 15 miles per day on the road to the West Coast.

The public is invited to join him on a one-mile segment of his Lubbock walk beginning at 10 a.m. Saturday at the south end of Jones Stadium and ending at the Student Recreation Center.

Groups already scheduled to join him are the Lubbock Lions Club, Lubbock Rotary Club and the Senior Citizens Lodge No. 2001.

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Once a professor of French literature at Carlton College in Northfield, Minn., Monnot learned in 1978 that he has Parkinson's disease. He suffers many of the classic symptoms -- tremor in the hands, stiffness of joints and slow, effortful walking.

Monnot is 45 years old, and a cure for the disease would allow him several more productive years. Before retiring from his professorship this year, the college's administration allowed his wife, Janice, to assist him in the classroom.

Monnot's mission is to put the disease out of his life and the lives of others by raising \$1 million for research. Symptoms can be controlled by drugs, but the body builds a resistance and their effectiveness wears off after several years.

Monnot started his journey on Sept. 15 from the American Parkinson Disease Association Information and Referral Center at Methodist Hospital in Minneapolis. His first stop was in his hometown of Northfield.

From there, he continued south through Iowa, Missouri and Oklahoma before reaching Texas. From Texas, he will travel to New Mexico, Arizona and on to California.

The American Parkinson Disease Institute is sponsoring the walk and will receive money from contributors and award grants to promising research projects, all affiliated with major hospitals or universities.

The organization has sponsored Parkinson's disease research for 25 years. Monnot stresses that without the medicine he now takes, he would be an invalid and the walk would be impossible.

An estimated 1.5 million Americans suffer from the disease.



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CONTACT: Debbi Whitney

13-11-19-85

LUBBOCK--A bone bank soon to be established at Texas Tech University Health Sciences Center (TTUHSC) will supply School of Medicine physicians and area orthopedic surgeons with bones they have had difficulty finding in the past for transplants.

The bank will provide bones for orthopedic surgery being performed on the South Plains, particularly at the health sciences center where specialized physicians are making new techniques available to West Texans.

Gerhard E. Maale, M.D., a TTUHSC specialist in bone cancer and joint reconstruction, said more than 200,000 bone transplants are performed in the United States each year. The majority of them are done with bone from the same person and use bone grafting procedures.

But the past 10 years have brought a renewed interest in transplants using bones from deceased persons.

"This bone and cartilage is being used in surgical procedures with improved success. The success rate used to be much poorer, probably because of the way the bone was processed," Maale said.

Maale and Royce C. Lewis Jr., M.D., have been doing reconstructive surgery on arthritic joints and on tissue damaged by injury or musculoskeletal tumors. Maale believes they may be the only ones in the country performing such specialized surgery on the hand.

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Bone used from other persons must be purchased from outside sources and brought to Lubbock. The bones, though, are not easy to find, and the process can be expensive.

Maale and TTUHSC organ transplant surgeon Neal R. Glass, M.D., plan in the future to travel as a team to retrieve bones and organs from the same donor. The search for potential bone donors is expected to start within the next few weeks.

The bone then will be placed in a "super-freezer" that will store it at a minus 100 degrees Fahrenheit. The freezer will enable physicians to call for the bone when they need it and allow them to easier match bone sizes with patients.

Individual hospitals around the country have tried to do their own bone storage in the past, Maale said, but storage methods are rigid and quality control was difficult.

The TTUHSC doctor will focus on retrieving bone most used at the medical school and by area orthopedic surgeons. The bank eventually will serve as a storage house from which area surgeons can purchase bones.

Earlier this year, Maale and Lewis performed a bone transplant on a man whose finger had been injured to the point where he could not bend it. He now can bend it, and the pain he had experienced is gone, Maale said.

Other patients are candidates for such surgery once bone becomes available.

"Our major limitation now is the supply of bones and cartilage," Maale said.

The specialized hand surgery is still in the experimental process, but Maale said it is showing promising results, particularly as a replacement to using prosthetic devices.



"We would much rather put in living tissue than a prosthetic part that deteriorates from fatigue," Maale said. "Living tissue replaces itself over time because of stress on the tissue."

Financial support for the bone bank is being provided by the Erschel Franklin Fund of the TTUHSC School of Medicine, according to J. Ted Hartman, M.D., medical school dean. Franklin was a Post business and oil man.

CONTACT: Beverly Taylor

14-11-19-85

LUBBOCK--A Texas Tech University architecture professor and the general manager of the Ranching Heritage Association have written sections for "Built in the U.S.A." which details why American buildings, from airports to zoos, look the way they do.

Architecture Professor Willard B. Robinson wrote the section on forts and Alvin G. Davis, executive vice president and general manager of the Ranching Heritage Association, contributed a section on ranch architecture.

The book was published by the National Trust for Historic Preservation, which was chartered by Congress to encourage public participation in preserving sites and buildings significant to American history and culture.

The book includes sections on amusement parks, apartments, banks, barns, breweries, bridges, capitols, city halls, universities, diners, drive-ins, estates, farms, fences, firehouses, gas stations, hospitals, houses, industrial structures, libraries, main streets, markets, prisons, railroad stations, religious buildings, schools, skyscrapers, suburbs and theaters.

Robinson discusses forts built in the United States over the years, pointing out that their architectural style depended on the culture of the people building them. The design of forts also evolved as more destructive weapons were developed.

Ranching began in North America in the late 1500s, wrote Davis, after the Spanish brought horses and cattle into their newly conquered land. The new industry required buildings for housing people and livestock. The architecture reflected functional needs for defense and protection from the elements.

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The section includes photos of the Barton House, the Box-and-strip House and the Picket-and-sotol House from Texas Tech's Ranching Heritage Center of The Museum of Texas Tech.

Robinson, named one of the university's outstanding researchers for 1984-85, has studied the architecture of Texas public buildings, courthouses, city halls, jails, military buildings and structures lost to history.

Davis has been executive vice-president and general manager of the Ranching Heritage Association for five years.

CONTACT: Sally Logue Post

15-11-19-85

LUBBOCK--Eleven members of the West Texas area Electric Cooperatives are establishing a Gold Award Dean's Scholar scholarship in the Texas Tech University College of Agricultural Sciences.

The \$22,000 endowment was announced Tuesday (Nov. 19) at a luncheon meeting of the group in the Ranching Heritage Center, Pioneer Room.

Contributing to the endowment are: Swisher Electric Cooperative; Lamb County Electric Cooperative; Dickens Electric Cooperative; South Plains Electric Cooperative; North Plains Electric Cooperative; Rita Blanca Electric Cooperative; Lighthouse Electric Cooperative; Deaf Smith Electric Cooperative; Lyntegar Electric Cooperative; Bailey County Electric Cooperative Association; and Cap Rock Electric Cooperative.

A Gold Award Dean's Scholar scholarship provides \$2,000 per year to the recipient. To be eligible for the scholarship a student must have scored 1300 or above on the SAT or 30 or above on the ACT college entrance examinations. To retain the scholarship for a second and subsequent years, the recipient must maintain a 3.4 grade point average.

This Gold Award will be presented to a student from the area served by the West Texas cooperatives. The recipient must major in the area of agribusiness or production in the Departments of Agricultural Economics; Agricultural Education; Animal Science; Entomology; Plant and Soil Science; and Range and Wildlife Management.

This is the third Gold Award scholarship established in the college.



CONTACT: Sally Logue Post

16-11-20-85

LUBBOCK--A rare fourth century version of the Gospels will soon give scholars a look at one of the oldest versions of the Bible known to man.

The work, called Codex Syriacus, was photographed this summer by an expedition led by Texas Tech University historian Idris R. Traylor and J.H. Charlesworth of the Princeton Theological Seminary. Charlesworth is also an adjunct professor of anthropology at Texas Tech and an associate of International Center for Arid and Semi-Arid Land Studies (ICASALS).

Dr. Traylor, ICASALS director, said, "The Codex is the most important and prized volume in the library of the Monastery of St. Catherine which is located at the foot of Mount Sinai at the traditional location of the burning bush of the Old Testament."

The Codex is a palimpsest -- a manuscript with at least two writings on the same piece of parchment, Traylor said.

"You have to remember that parchment was very expensive in those days," Traylor said. "Sometimes the paper was much more valuable than what was written on it."

In the 8th century, a monk at St. Catherine's tried to remove the original handwriting and wrote the "The Lives of the Female Saints" on the same parchment.

"Because the ink was scraped away, much of the original writing is still visible," Traylor said. "The second work was primarily copied between the original lines, so we are lucky that much of the writing could be brought out with the photography."

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Traylor said some 2,000 photographs of the book were taken and are now being developed. The photographs will then be fed into a computer so the upper writing can be distinguished from the lower.

Traylor said Dr. Charlesworth, who is a leading expert in ancient biblical literature, had seen the Codex twice before, but this is the first time the monastery has allowed it to be photographed.

The project was made possible primarily by a grant to ICASALS from the Moody Foundation of Galveston. Additional support was provided by the Princeton Theological Seminary, the West Semitic Research Project and the Foundation on Christian Origins.

"We shot each page with many different films and lights, and found that when we used an ultraviolet light and yellow filter, the lower writing popped into view," he said.

Once the photographs of the writings have been computer separated, the long process of translating the document will begin.

"A book of photographs displaying the beautiful Estrangela script will be published soon, but it will be years before there is a full translation, with commentary, of the document," Traylor said.

The manuscript is one of the oldest versions of the Gospels ever found. Another manuscript, Codex Sinaiticus, which was written about the second century, was taken from St. Catherine's library in the last century. The book, which has never been translated, is now on display in the British Museum.



Though severely damaged by the dry atmosphere of the Sinai desert, the manuscript will be a significant part of understanding the earliest traditions about Jesus of Nazareth, including his healing miracles, Traylor said.

The differences in how Jews practiced their religion became apparent in 1948 when the Dead Sea Scrolls were uncovered at Qumran, at the northern end of the Dead Sea, Traylor said.

Before that discovery, Traylor said scholars had the impression from the Bible that Jewish religion was uniform in practice, closely controlled and strictly regulated by the priests of Jerusalem.

The Scrolls showed a religion that, among other differences, kept a different calendar of religious festivals than that of the Jerusalem Temple, he said.

"On a whole, the writings found at Qumran showed a religion different in many ways from the one authorized by the main Jewish authorities," Traylor said.

The translation of the Codex Syriacus will provide scholars with another document showing how the Gospels may have differed over the years, he said.

"We truly are entering a new period in the study of the Gospels text, especially in it Syriac form," Traylor said.

# TexasTech News

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

CONTACT: Beverly Taylor

17-11-20-85

LUBBOCK--Another aspect of the life and lore of cowboy days will be displayed at Texas Tech University's Ranching Heritage Center with the donation of a collection of more than 900 pairs of spurs and bits.

Mr. and Mrs. James J. Wheat of Mentone have donated the collection which he acquired during 10 years of attending collectors' shows and corresponding with other buffs.

Spurs were introduced in the southeastern part of the United States in the 1500s when the Spanish brought them, along with horses and cattle, into the territory they had conquered.

The collection includes more than 800 pairs of spurs, some single spurs and bridle bits.

The collection is expected to be shown in the gallery of the Ranching Heritage Center (RHC) of The Museum of Texas Tech during the 1986 exhibit year. Alvin Davis, executive vice president and general manager of the Ranching Heritage Association said the items must first be cleaned and catalogued.

"The story would be incomplete if we didn't tell something about spurs as a piece of equipment," Davis said. "Spurs and bits are another part of the whole picture of ranching heritage."

Wheat, a Loving County commissioner, will help the RHC in preparing interpretative material for the collection by recalling the details about individual spurs. Along with the equipment, he donated books, magazines and brochures about bits and spurs.

The most valuable pair, according to an appraiser who surveyed the collection is a Winnemucca set. The brand was made for a short time in Winnemucca, Nev., and is valuable because of the limited production.



A matching set of spurs and bits from the 101 Ranch Miller Brothers Wild West Show in Oklahoma and a pair of spurs worn by Gene Autry are also included in the collection.

Wheat has been featured on CBS newsman Charles Kuralt's program "On The Road."

CONTACT: R. Gary Cates

18-11-20-85

LUBBOCK--Texas Tech University Safety Officer Robert Morris has been awarded the Individual Safety Award by Texas Attorney General Jim Mattox.

The award is presented by the state of Texas in recognition of state employees who have made significant contributions to occupational health and safety at state agencies. The award was issued for the first time this year.

Morris was the unanimous choice of the Attorney General's selection committee and the only award recipient on the college and university level.

Since 1977 when Morris joined the staff of Texas Tech's Environmental Health and Safety Department he has worked to improve of the university's safety record. Morris developed the University Health and Safety Program which has streamlined efforts to reduce occupation-related accidents and injuries.

His efforts have also led to the formation of effective safety training courses and accident data analysis that have contributed to reduced injury and illness on campus.

He has also promoted occupational safety through speaking engagements and writing articles on the subject.



CONTACT: B. Zeeck

19-11-20-85

(EDITORS' ADVISORY: Please note the following change in schedule for the Texas Tech Boards of Regents for Friday Nov. 22.)

The times of the committee meetings have been changed on Friday, November 22, 1985 as follow:

8:00 a.m. Public Affairs and University Relations

8:30 a.m. Academic and Student Affairs

9:15 a.m. Board of Regents meeting.



CONTACT: R. Gary Cates

20-11-21-85

LUBBOCK--The spirit of Christmas will fill the air as Texas Tech University is dressed in music and lights for the 27th Carol of Lights Dec. 6.

This year's display will include the lighting of the Science Quadrangle and all campus buildings bordering the Broadway entrance to Texas Tech.

A 6:30 p.m. carillon concert by Texas Tech music Professor Dr. Judson D. Maynard will precede the Carol of Lights ceremony.

The program will begin at 7 p.m. when the Saddle Tramps lead a torchlight procession from the university's Broadway entrance to the Science Quadrangle. Music by the Texas Tech Trombone Ensemble, led by music Professor Robert Deahl, will accompany the procession along the luminaria-lit route to the Science Quadrangle.

Following an invocation by Texas Tech President Lauro F. Cavazos, Residence Hall Association (RHA) President Cathy Peterson will welcome visitors. The RHA sponsors the Carol of Lights each year.

A choir with members from residence halls and student organizations will begin the music with several traditional carols. Then music Professor William G. Hartwell III will sing "Oh Holy Night" and the University Singers, led by graduate student Elizabeth White, will offer the carols "Oh Come, Oh Come Emmanuel" and "Ding Dong! Merrily on High."

Ardith Hill, RHA chairperson for the Carol of Lights, will deliver pre-lighting comments before a trombone fanfare heralds the illumination of the lights. Then the more than 15,000 decorative lights adorning 10 central campus buildings will be turned on.

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CONTACT: Preston Lewis

21-11-21-85

LUBBOCK--A full decade before the mountain man entered his milieu in the Rockies, another frontier entrepreneur -- the Indian trader -- entered the Southwest.

In many instances, these traders offered the first American contact with the Indians of Texas, but their influence has long been overlooked because they left so few documents behind. About a dozen trading expeditions are documented, but only one trader -- Anthony Glass -- left a journal.

Now that journal, long lost to historians, has been edited and placed in its historical context by Texas Tech University history Professor Dan L. Flores. "Journal of an Indian Trader: Anthony Glass and the Texas Trading Frontier, 1790-1810" has been published this fall by Texas A&M University Press.

"The Indian traders were important," Dr. Flores said, "because they were being used by the U.S. government to influence the Indians away from the Spanish and to solidify President Jefferson's claim to Texas."

Flores said Phillip Nolan, long regarded as the first Anglo-American involved in Texas exploration, was followed by more than a score of other U.S. citizens into the Spanish lands that would eventually become Texas.

"Because of Indian traders, the involvement of Anglo-Americans in Texas history can be pushed back two decades prior to Stephen F. Austin's arrival and establishment of his colony," Flores said.

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Glass and 10 men left Natchitoches, La., in July 1808, following the Red River to the Wichita villages near present-day Wichita Falls. From there the Glass party made a circle south around the site of present-day Abilene, trading for horses and trying to catch mustangs. They then returned to the Red River and began the home journey to Natchitoches where they arrived in May 1809.

Flores said the journal reflects the wonder of the frontiersmen as well as the attitude and habits of the Indians.

For instance, the journal shows Glass's concern about his safety when he and two other frontiersmen accompanied a contingent of nearly a thousand Wichitas and Comanches. He wrote on Oct. 18, 1808, "Here I found myself at the distance of many hundred miles from any white settlement surrounded by thousands of Indians with nearly two thousand dollars worth of merchandise and a large drove of horses and mules fattening away in flesh and no assistance but Young and Lucas. But all the Indians appear very friendly and say they will not leave me as long as they can be of service to me."

His time with the Wichita Indians led to numerous observations about their lifestyle. "Men who want wives," Glass wrote of the Wichitas on Sept. 9, 1808, "generally purchase them of the uncle or brother of the woman. The general price is one or two horses. But if a stranger buys a wife, he must pay for her in straw, blankets, vermilion and beads. The husband always dresses the wife as he pleases. But they are great libertines, both men and women, not addicted to jealousy."

Such observations of the tribe, particularly the sexual habits, are not covered by most other chroniclers of the Wichita Indians, making Glass's straightforward account historically valuable, Flores said.



Glass was also the first white man to see what became known as the Red River meteorite. The meteorite, the largest known to the world during the 19th century, was found near present-day Abilene. The meteorite was revered by the Indians as a virtual god because of its odd metallic properties.

Flores said that meteorite, because of the stories the Indians told about it, may have prompted the greed which played a major role in the exploration of Texas by the Spanish and later by the Americans.

"That meteorite, I am convinced, emerges as the real source of all those gold and silver stories which so animated many Spanish and Anglo, especially Jim Bowie's, expeditions into Texas," Flores said.

The meteorite ultimately wound up at Yale University along with Glass's journal which was rediscovered about 1964. The journal, Flores said, is an important document in Texas history and helps place Glass and other Indian traders in a better historical perspective.

"His importance transcends trading because of his observations and because of his role as a semi-official emissary of the U.S. government," Flores said. "He traveled through land under Spanish influence and, along with other traders, first cracked the door which would lead to Texas independence and later expansion by the United States."



Story ideas for the week of  
November 25-December 6, 1985  
22-11-22-85

**Texas Tech University**  
University News & Publications  
BOX 4640/LUBBOCK, TEXAS 79409/(806) 742-2136

# Radio & Television New Service

(EDITORS PLEASE NOTE: The Tip Sheet will be taking a Thanksgiving holiday along with most business offices at Texas Tech University Nov. 28-29. The next Tip Sheet will be sent out Dec. 6.)

**CARDIAC CARE**--The period of interrupted blood flow during cardiac surgery can be devastating to the heart muscle and blood vessels if the heart is not protected. Dr. Paul McDonagh of the Texas Tech University Health Sciences Center Physiology Department is studying the possibilities of developing a protective solution that could be injected into the vessels leading to an arrested heart. Contact Dr. McDonagh, 742-2520.

**HISTORICAL PERSPECTIVE**--Few Indian traders ever documented their encounters with the Indians of the Southwest, but one, Anthony Glass, did leave a journal. Texas Tech University history Professor Dan Flores has edited the frontiersman's chronicle into book form in "Journal of an Indian Trader: Anthony Glass and the Texas Trading Frontier, 1790-1810." Flores says Glass's straightforward account of his experiences is historically valuable for many reasons. Call Dr. Flores, 742-2581.

**AG CREDIT CONFERENCE**--U.S. Representative Larry Combest will discuss farm legislation at the close of the 13th Annual Bankers Agricultural Credit Conference Dec. 6-7 at the Holiday Inn Civic Center. The Texas Tech University College of Agricultural Sciences coordinates the conference. The conference will begin at 7 p.m. Dec. 6 with dinner and presentation of a distinguished service award to an area banker. The conference closes with a luncheon Dec. 7 featuring Congressman Combest. Call J. Wayland Bennett, 742-2876.

**CAROL OF LIGHTS**--Friday, Dec. 6, lights outlining Tech's central campus buildings will be lit during the annual Carol of Lights. A carillon concert at 6:30 p.m. and a torchlight procession beginning at 7 p.m. will precede the lighting of lights. Residence hall and service organization choirs as well as the University Singers choir will be featured. The lights will shine from dusk until midnight Dec. 7-Jan. 1. Contact Carol of Lights Chairperson Ardith Hill, 742-5720.

For assistance in developing these  
and other story ideas, contact  
Mark Davidson/Kay Boren,  
News & Publications, 742-2136.



# TexasTech News

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CONTACT: Debbi Whitney

23-11-22-85

LUBBOCK--A few precautions when it comes time to cover the table with the traditional holiday feast can prevent digestive disasters.

Dr. Lynn Huffman, a professor in the Department of Restaurant, Hotel and Institution Management at Texas Tech University, said that although food-borne illness from mishandling holiday food is not the fatal variety, it can make for a miserable day for its victims.

"People get away with improperly preparing and storing food all the time," Huffman said. "But the time it will get you is usually when you have a house full of company."

Proper handling starts from the very beginning -- with the thawing of that festive bird. Huffman recommends allowing three days for turkey to thaw by putting it in a paper bag in the refrigerator. The bag helps keep the turkey and the refrigerator clean.

"Plan far enough ahead to do the thawing in the refrigerator because it's the safest method," Huffman said. "Don't expect to go out the night before and buy a frozen turkey to cook on Thanksgiving or Christmas morning."

Huffman said that even putting the turkey in a sink full of cold water to thaw is preferable to letting it thaw at room temperature.

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The poultry industry is extremely careful in cleaning and handling its product, Huffman said, but poultry has naturally-occurring bacteria. The outside of a turkey, the first part to thaw, would be the prime area to contract salmonella, and cross-contamination from the cook's hands or kitchen utensils can carry the bacteria to other foods or places.

At cooking time, Huffman said dressing should be baked separately from the turkey.

"Don't stuff the turkey. It takes a long time for the inside of the dressing to get hot enough to kill harmful bacteria," she said.

Huffman said rubber gloves should be used if dressing is going to be mixed by hand because even a small cut on someone's hands can contaminate the food.

"One bacteria in 24 hours can multiply to 281 trillion bacteria on the average," she said.

When the meal is finished and everyone is retiring to the living room, Huffman warned against leaving food out for people to graze on all day.

"Put the food away just as soon as you can clear the table," she said. "The best advice overall is to keep hot foods hot and cold foods cold and to refrigerate them if they're going to reach room temperature."

The only exception is pies, excluding the cream variety, which can be left out safely because their high sugar content is not conducive to bacterial growth, she said.

Leftovers should be used within two to three days.

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"Cooked turkey can be refrozen and kept for about three months, but dressing and gravy, because of the egg whites in them, can suffer a texture change and be of lower quality," Huffman said.

Huffman advises freezing in small packages because they are easier to freeze and thaw and they allow control on portions to use.

Cooked food should not be frozen more than once from a quality and safety standpoint, Huffman said.

"Freezing just slows bacterial growth, it doesn't kill it," she said.

Symptoms that holiday food has caused illness include a sudden onset of vomiting and diarrhea. The reaction is different from just feeling a stomach upset from overeating, Huffman said.

Unless the symptoms are extreme, Huffman recommends not taking a remedy. The uncomfortable reactions are ways to rid the body of the bacteria, she said.

If the illness does appear severe or is accompanied by fever, a doctor should be consulted. But usually only botulism, poisoning from improperly canned food, is fatal unless a person's resistance to disease is weakened from some other illness or condition, Huffman said.

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CONTACT: B. Zeeck/Sally L. Post

24-11-22-85

ATTENTION: Farm and Ranch Editors

LUBBOCK--Contributions of Samuel Burk Burnett and succeeding Burnett generations to the livestock industry were recognized Friday (Nov. 22) by Texas Tech regents who named a new \$4.3 million research facility The Burnett Center for Beef Cattle Research and Instruction.

The center has a computer-controlled feedmill and state-of-the-art feedlot that, together, provide the university with the nation's premier facility for studying livestock nutrition. The latest computer, feed processing, nutrition, endocrine and stress physiology technology will be applied to research projects to improve the economic status of beef production and to develop basic knowledge for application by producers.

The center carries the Burnett family name in recognition of contributions made by four generations to the beef cattle, horse and ranching industries.

Mrs. Anne W. Sowell, great-granddaughter of Burk Burnett, is vice chairman of the Board of Regents for Texas Tech University and the Texas Tech University Health Sciences Center, and it was through her interest and support that the university was able to turn its initial interest in feed manufacturing into the premier research facility.

Her own interest in ranching and the livestock industry comes from the Burnett heritage: her mother, the late Anne Burnett Tandy, her grandfather, Thomas Loyd Burnett, and her great grandfather.

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Mrs. Sowell now operates the Burnett ranches -- the Four Sixes Ranch at Guthrie, the Dixon Creek Ranch in the Panhandle and the Triangle Ranches.

It was in 1870 that Burk Burnett bought his own herd of cattle and the famous 6666 brand. It was in this year also that he married Ruth Loyd, daughter of Capt. M.B. Loyd of Fort Worth. The L brand, acquired by Burnett from his father-in-law, is the Burnett horse brand.

Burnett, throughout his life, was noted for many strong pioneer qualities and among them that of loyalty. Throughout his adult life he maintained a close friendship with the Comanche Chief Quanah Parker and also with President Theodore Roosevelt.

One tradition he established early was that of family management of the Burnett ranching operations. Tom Burnett at the age of 4 was riding with his father, learning the business from childhood on. Mrs. Tandy also took a personal interest in directing ranch operations and her daughter, Mrs. Sowell, follows in the same tradition.

# Texas Tech News

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CONTACT: B. Zeeck

25-11-22-85

LUBBOCK--Texas Tech regents Chairman John E. Birdwell Friday (Nov. 22) named an ad hoc committee to conduct an overall examination of the Texas Tech University Health Sciences Center "in keeping with the practice of the board to review selected units...at routine intervals."

The chairman pointed out that the health sciences center is 15 years old and said this "is an appropriate time" for the review.

He asked the committee, to be headed by Regent Wm. Gordon McGee, M.D., El Paso, to work closely with health sciences center President Lauro F. Cavazos and to gather data that will include information helpful in the work of the state Select Committee on Higher Education.

Also appointed to the committee were regents J. Fred Bucy, Dallas, and Wesley Masters, Amarillo.

Earlier regents heard a report on sponsored project funding for the university, indicating it reached \$18.85 million in 1984-85, \$4.64 million more than the previous funding record -- \$14.2 million in 1982-83.

The board approved appointment of Prof. Murl A. Larkin as Jack Maddox Professor of Law, a professorship established by the J. F. Maddox Foundation of Hobbs, N.M. Larkin was appointed to the law faculty at Texas Tech in 1968.

Regents approved granting a doctor of philosophy degree in education, as well as the presently offered doctor of education degree. The Coordinating Board, Texas College and University System, also must approve the Ph.D. option before it can be offered by the university.

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REGENTS/ADD ONE

Regents accepted the gift of \$130,000 in computer equipment given by Apple Computer Corp. for use in the university's Advanced Technology Learning Center.

(cq)

They appointed Fanning Fanning And Agnew Inc. as project engineer for Phase II of campus fire alarms renovation. They approved contracts for: renovation of the Texas Tech University Research Center, East Campus, \$2,859,031 to Mike Klein General Contractors; demolition of the interior of the Civil-Mechanical Engineering Building, \$96,619, to Knox, Gailey & Meador General Contractors; and construction of an addition to Tech Press, \$591,700, to Lee Lewis General Contractors.

They also designated acceptance dates for three major building projects: Oct. 7 for the Industrial Engineering Building renovation; Sept. 16, Art Building sub basement renovation; and Oct. 18, Lab Theatre addition to the University Theatre.

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26-11-22-85

PREMIER RESEARCH FACILITY--Texas Tech University dedicated the new \$4.3 million Burnett Center for Beef Cattle Research and Instruction Thursday (Nov. 21). The center will give Texas Tech a research and teaching facility unmatched by any in the U.S. with respect to beef cattle nutrition, feed manufacturing and feedlot management. The center was named in honor of the contributions of Samuel Burk Burnett and succeeding Burnett generations to the cattle, horse and ranching industries. (TECH PHOTO)