

June
~~April~~
11-15,
1994

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1-6-11-84

LUBBOCK--The swine industry's move from breeding gilts under the old oak tree to modern confinement buildings has created production problems that can be costly to the producer. One is delayed onset of puberty.

Texas Tech University animal science Professor James R. Clark said that "since the industry has gone to large confinement operations, the onset of puberty in gilts is delayed, costing producers money because the gilts take longer to reach the reproductive stage and make money."

He said a number of factors affect the onset of puberty in gilts, such as age, bodyweight, growth rate, nutrition, genetics, season, photoperiod, temperature, social environment and boar exposure.

"There are no clearcut answers as to why puberty is delayed, even the research is conflicting in determining the factors affecting the onset of puberty," he said.

However, if puberty is delayed, the animal could cost the producer about 50 cents per day in just feed alone.

"If you have to keep her 30 to 60 days before she reaches estrus again, that's \$15 to \$30 added on to the producer's other costs," Clark said. "That's for one animal, but if you have 100 do that the feeding cost may become prohibitive."

He noted that producers usually have a pool of gilts containing three times as many gilts as needed to fit in the estrous cycle and replace culled sows.

"If the whole pool is delayed 30 to 60 days, the entire operation will be disrupted," he said.

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To maximize reproductive efficiency, he said, gilts must attain puberty, be detected in estrus, mated and diagnosed pregnant before they reach 10 months of age because they are non-productive until the beginning of the first pregnancy.

He said the age at which gilts normally reach puberty ranges between 102 days and 350 days, with a body weight at puberty varying between 120 pounds and 260 pounds. Growth rate has a minimal effect on the attainment of puberty in gilts, he said.

Of all the factors influencing the onset of puberty, boar exposure has the most drastic effect and can be the most cost-effective method, he said.

"In the past 20 years, we have seen a significant intensification of the swine industry," Clark said. "It's gone from farrowing under the old oak tree to confinement buildings. Out on the dirt, there was no problem with space for breeding."

For greatest boar exposure, Clark suggests that the gilts or sows be taken to the boar rather than the boar being moved to the gilt's pen.

A change of environment apparently has some effect on the onset of puberty.

"French researchers were the first to discover that transporting gilts in a truck or trailer could induce the early onset of puberty," he said. "Also, producers will find that just moving the gilts from the confinement facilities to outside dirt lots can have the same effect."

Clark will discuss "Breeding and Management of Gilts and Sows" during the 32nd Annual Swine Short Course, sponsored by Texas Tech, College of Agricultural Sciences, Department of Animal Science, Texas Pork Producers Association and Texas Pork Producers Board,

About 100 persons are expected to attend the short course June 21 in the Lubbock Memorial Civic Center. Many of the college's faculty will participate in the programs.

Texas Tech News

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

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2-6-12-84

LUBBOCK--Confirmation of connection between Lubbock Lake and Blackwater Draw archeological sites and the discovery of an unusual paint rock have kicked off 1984 summer research at Lubbock Lake.

A rare obsidian point unearthed at the Lubbock Lake National and State Landmark last summer has been identified as belonging to the same source as a piece of obsidian found in the 1950s excavations of Blackwater Draw site near Clovis.

Dr. Eileen Johnson, Lubbock Lake director and archeology curator for The Museum of Texas Tech reported the match.

"We don't know the source for either of the obsidian pieces, but we know they match," she said. "This is the first find which indicates a connection between Lubbock Lake and the archeological site near Clovis for the period of about 10,000 years ago. The peoples inhabiting the areas at that time may have been the same."

Humans living in the area of 10,000 years ago are identified as Plainview Man. Those living earlier -- 11,000 to 11,500 years ago are designated Clovis Man.

Possible sources for the obsidian include New Mexico, Montana, Wyoming and Mexico.

The first week of 1984 excavation revealed another unusual find for Lubbock Lake at the same geologic level where the obsidian and four other unidentified spear points were previously found.

Dr. John Hawley, a geologist with the New Mexico School of Mines, identified the rock as a metamorphosed micaceous rock with iron staining.

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Dr. Johnson said the rock is not native to this area and may be from Van Horn or the Big Bend.

Dr. Vance T. Holliday, field director and project geologist for Lubbock Lake, said the rock is very unusual. It is being studied by Dan McGrath, a Texas Tech graduate student in soil sciences.

"Metamorphic rocks of this type are delicate and rarely survive in areas where there are river deposits," Holliday said. "Such rocks are generally associated with mountain building, and there are no mountains in this area."

Johnson said the rock and the five points of unusual materials excavated last year make the researchers even more curious about the area they are excavating. A radiocarbon date associated with the obsidian point sets it at approximately 10,000 years ago.

The goal of the summer excavation will be to find more clues to Plainview man of that era, one of the least well-known of the Paleoindian cultures, or a coexistent culture.

Johnson is collaborating with Holliday and Dr. Ruthann Knudson of Woodward, Clyde and Associates, environmental consultants of San Francisco, on research concerning the mystery points. Johnson will also study the field notes of Glen Evans of Austin, geologist-archeologist who worked on the Blackwater Draw project, to make comparisons with Lubbock Lake work.

Johnson said Evans and his partner Dr. Grayson Mead of Nebraska excavated Blackwater Draw for the Texas Memorial Museum at the University of Texas-Austin. Now retired, the two were the pioneer Quaternary and Paleoindian researchers in the South Plains and the ones who discovered the first Plainview points, named for Plainview where they were found.

Holliday will be conducting further geologic studies on another stratigraphic unit of the excavation area and the team will try to obtain more radiocarbon dates for materials found there.

Johnson said the complex stratigraphy of a new level with its cultural material could indicate an earlier culture than that of Clovis Man of 12,000 years ago. Clovis Man has been regarded as the earliest culture represented by Lubbock Lake findings.

The 11th Lubbock Lake summer field season involves 10 college students from throughout the nation, one high school student, an amateur archeologist from Illinois State University, a half dozen community volunteers and museum staff. The research is supported by the West Texas Museum Association and through funds raised by community volunteers.

The Lubbock Lake archeological project is one of the foremost in the nation for the Paleoindian. Few sites in North America have as complete a cultural sequence and well-defined stratigraphy, Johnson said.

Free tours of the site are open to the public, 9 a.m. to noon Saturdays through Aug. 11.

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3-6-12-84

ARCHEOLOGICAL LINKS--Obsidian artifacts from Lubbock Lake and Blackwater Draw shown by Dr. Eileen Johnson, Lubbock Lake director, provide a link between the two archeological sites. Studying the pieces, Johnson has discovered that a small piece of an obsidian tool unearthed at Blackwater, left, and an obsidian point unearthed at Lubbock Lake and dated to 10,000 years ago, center, are from the same source. An obsidian Clovis point from Blackwater, right, is from an unrelated source. (TECH PHOTO)

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4-6-13-84

LUBBOCK--Sketching historic architecture and drawing political cartoons will be projects in a new summer youth class at The Museum of Texas Tech University.

The art class, "Connections," for students in grades 7-10, is one of several still open in The Museum's Summer Youth Class program. Classes in art, cowboy and Indian history and science are offered for students from first grade through high school. Sessions will be June 18-29 and July 16-27.

Classes are sponsored by the Women's Council of the West Texas Museum Association. Fees range from \$10-15. For information and registration call (806) 742-2443.

Participants in the "Connections" class will study The Museum's Art collections, tour and sketch at the Ranching Heritage Center, study the artist as social critic and draw their own political cartoons. Instructor is Denise Newsome.

The same age group may enroll in "How The West Was Won." Taught by Fred Hale, the class will explore the people who settled West Texas and their technology from the Indians' bow and arrow to the farmers' steel plow. Visits are planned to local historical sites.

In another class, youths in grades 1-3 will explore the culture, crafts, history and amusements of Plains Indians. Elizabeth Adamo and Linda Rowntree will teach the class.

"Cowboy Heritage," "Discovery in Textiles" and "Discovering Insects" are other classes still open.

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For students in grades 1-3, "Cowboy Heritage" will study frontier and cowboy life at The Museum and Ranching Heritage Center. Stories, games, songs, crafts and role playing are planned.

"Discovery in Textiles" for grades 4-6 will include off-loom weaving, fabric design, printing and soft sculpture.

"Discovering Insects" for grades 4-7 will deal with classification, collection and mounting procedures for insect specimens.

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5-6-13-84

LUBBOCK--A first place and two second places have been won by three Texas Tech University College of Business Administration students in competition sponsored by the Houston Society of Financial Analysts.

Mark Nurdin, who graduated in May, placed second in the undergraduate competition and won a \$300 award for his analysis of the stock of Southwest Bancshares Inc.

On the graduate level, Chenchuramaiah Bathala of Madras, India, tied for first place and received a \$500 award for an analysis of the equity of Anderson Clayton. Also, John Finco was awarded second place and a \$300 award for his analysis of the stock of U.S. Home Corp., the nation's largest builder of homes.

Finance Professor David E. Upton said this was the first time that Texas Tech has entered the contest. Five students entered the competition which has been sponsored by the society since 1966.

Nurdin is the son of Mr. and Mrs. L.R. Nurdin, 6013 Haden, Waco. Finco is the son of Dr. and Mrs. Aldo Finco, 2111 67th St., Lubbock.

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6-6-13-84

LUBBOCK--Videotapes add flexibility and variety to meat science teaching by introducing students to experts and laboratory or field studies that otherwise may not be available.

Texas Tech University animal science Professor Gordon Davis said, "Meat scientists can save time and be more effective teachers and researchers if they can just show routine experimental procedures on videotape."

Davis and David S. Clark, program manager of Texas Tech television station KTXT, Channel 5, will discuss videotaping for the meat science laboratory and classroom during the 37th annual national Reciprocal Meat Conference June 17-20.

About 350 persons are expected to attend the sessions on the university campus.

"Videotapes let professors draw information in from a number of sources to show continuity and results of research efforts, as well as offer national experts on an area of meat science," Davis said. "Meat scientists just don't have enough time to be productive in the areas of research, teaching and public service and simultaneously provide quality training to each individual student."

He said the medical teaching field has more than 1,000 videotapes available to medical schools, but meat science has produced only 31 tapes so far nationally.

Of the 31 videotapes, Texas Tech and the University of Nebraska have made 17 of them.

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"The key to using videotapes is that they add a new dimension to the classroom," he said. "We have 45 periods of instruction for a typical class, so it is refreshing to the students to hear someone else discuss a subject."

He said videotaping is a time- and cost-efficient means of bringing in experts who cannot come to the university or whose visit would be too costly to a department. Videotaping also is more efficient in showing research that may be successful only "one out of 20 times," he said.

"The expert may not be available or you may not be acquainted enough with something to discuss it intelligently, so a videotape fills the void," Davis said. "Or, the animal in the study may not cooperate or be available that day."

An example of an uncooperative animal is a calving cow that may or may not deliver after four or more hours.

"The students could watch during that time, but it also could be time wasted or could be put to better, more efficient use, he said. "With videotape, four hours of calving could be reduced to a five-minute segment on the tape."

He said videotape also could reduce the number of field trips and canceled trips. A course on animal slaughtering and processing could be supplemented with a videotape made in a packing plant, in case the plant was closed or unavailable for a tour, he said.

A study by a former doctoral student found that students retain more knowledge from videotapes than with slides or written material, Davis said.

"Videotapes are a tremendous research and teaching tool, but we are not utilizing the resource to its fullest extent," he said. "They can be made on the campus, purchased or acquired from other schools on an interlibrary-loan type of basis."

He noted that most universities and colleges have media centers on the campus that can assist in producing a videotape from a professor's idea.

A 20-minute edited tape may come from 50 to 200 minutes of raw footage.

"If you have an idea of what you want to show in the tape, you can get onto video for a reasonable cost on the campus," he said.

But he urged professors to check other sources to make certain the video has not already been produced and is available to other universities.

The running time for a videotape can be five minutes to 60 minutes long and have a purchase price ranging from \$20 to almost \$600. The average purchase cost is about \$200, he said, but the few meat science tapes available run between \$20 and \$125.

"Videotapes can pay for themselves by reducing wasted time and costs," he said, noting that a TV screen shows about 75 percent of the actual scene which is "better than nothing for a class."

Other uses of videotapes include training meat judging teams, which can observe every aspect of a contest; substituting for field trips; reporting research results to the news media; consumer education; faculty and student recruitment; inviting a national organization to have its annual meeting on a university campus; and illustrating career opportunities to students new to the field.

"A high-quality videotape won't replace the teacher, but it does add variety to a classroom and offers flexibility in research and instruction," he said.

7-6-13-84

LUBBOCK--The Executive Committee of the Texas Tech University Foundation Wednesday (June 13) accepted Chairman Charley Pope's final report on the Foundation's first Celebrity Tennis Tournament April 27-29.

"An estimated 8,000 people participated in one way or another in the tournament," Pope reported.

"Nearly \$175,000 in cash revenues have been received so far," said Pope, "and pledges have been and will continue to be coming in every week."

The immediate result is the sum of \$37,000 designated for scholarship support right away, including \$25,000 which will be reserved for a Texas Tech Foundation Endowment to allow continuing scholarships to be offered to outstanding Texas Tech students.

"The university desperately needs money to attract the academically superior student," Pope said, "and this endowment can be enhanced each year in order to address this need for all time."

To help this situation for the fall semester, Pope said, "\$5,000 will be given to the offices of New Student Relations and Financial Aid to attract quality students for the August enrollment."

Pope said 300 volunteers worked on 16 committees to bring about a "highly successful tournament." Gwen and Lee Stafford coordinated the massive undertaking.

More than 8,000 people attended the two-day tournament at the Supreme Court Racquet Club and Tennis Center, and over 650 attended the Friday night VIP reception at the Granada Royale Hometel.

"The reception was made possible by 100 percent donations to the tournament," Pope said.

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Although tournament proceeds are to go primarily to academic support, the Foundation's Executive Committee expressed interest and support for the athletic side of the event. "Since tennis was the vehicle which brought so many people together in behalf of Texas Tech, I am pleased that the Executive Committee chose to award \$1,000 each for scholarships in the men's and women's tennis programs," he said.

The tournament also was successful because of the producers, Ray Noval and Charles Bucks, who brought in 24 stars. Pope noted that Noval and Bucks agreed only to have 12 celebrities attend.

"Noval/Bucks Productions went more than the extra mile in producing the event," said Vice President for Development Dr. John R. Bradford.

Bradford expressed great pleasure when notified that the Foundation had established a Texas Tech Foundation-Noval/Bucks Endowed Scholarship in the Department of Music. Endowed scholarships at Texas Tech require a \$5,000 minimum, and the Music Department was selected because of its essential role in the dinner show which featured dozens of stars and university students.

"The involvement of the community was monumental. For the first time, many Texas Tech supporters in the 25- to 40-year-old range came forward in a unified way to boost the academic quality of our university," Bradford added.

The stars included world-class tennis professional Vijay Amritraj, and master of ceremonies Lee Horsley of Muleshoe, Texas Tech ex-students G.W. Bailey and Barry Corbin, Jackson Bostwick, Eric Braden, Carol Connors, Ralna English, Cynthia Gibb's manager Claudia Crowne, Tom Hallick, Mary Hart, Christopher Holder, Marty Kove and Trini Lopez.

The dinner show at the Lubbock Memorial Civic Center attracted about 1,500 people, and sales of \$100-a-plate dinner tickets totaled more than 700.

"A side benefit to the tournament," Pope said, "was the interest in Texas Tech displayed by so many people who heretofore had not found an avenue for expressing their support. We saw a lot of new faces and new enthusiasm."

"As for the volunteer help, we couldn't have asked for better," the chairman said. "The volunteers really came through for us and made the tournament successful. Every one of them gave us a demonstration of Lubbock at its best."

The chairman also recognized the seven court sponsors, 29 Golden Raiders, six Silver Raiders and the many companies who supported the event through in-kind contributions, including Southwest Airlines, South Plains Chevrolet and Texas Bank and Trust. Court sponsors included Brake King, Ann Parson's Realtors, Lee Lewis, Furr's Supermarkets, Housouer Printing, the Board of Regents and the Texas Tech University Foundation. In-kind gifts amounted to more than \$64,000 and were absolutely "essential" to the success of the event, Pope noted.

Pope said the tournament's key committee chairmen reviewed the tournament and its results last week. "The entire effort was viewed by them as a real triumph of goodwill for the community and Texas Tech, and we waited for their input before reporting to the Foundation's Executive Committee," he said. "And, the great thing about their report is that we know how to convert our first-time experiences into greater revenues should the Foundation choose to sponsor subsequent tournaments."

Also attending the tournament were Barbara McNair, Joseph Mascolo, Judy Norton-Taylor, Markie Post, Marcia Rodd, Richard Roundtree, Martha Smith, Jerry Van Dyke, Patrick Wayne and Cornel Wilde.

"The balance of the tournament's proceeds will be designated at a later date," said Pope, noting that needs arise "all year long" in a dynamic university like Texas Tech.

"Texas Tech and Lubbock are indeed quality places," said Dr. Pat D. Taylor, Director of Special Projects in the Office of Development. "The stars, to the person, left here with glowing assessments of our city, our university and our people."

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8-6-14-84

LUBBOCK--About 350 meat science researchers from across the United States will meet at Texas Tech University for the 37th annual Reciprocal Meat Conference Sunday through Wednesday (June 17-20).

Participants will discuss education of the public concerning meat nutrition, contribution of meat to the diet, robotic applications for the meat industry, developing a new meat product, computers in the meat laboratory, videotaping in meat sciences research and videotape applications in the classroom, and cell culturing techniques.

The conference also will include presentation of undergraduate student awards, American Meat Science Association committee meetings and the association's annual business meeting.

A reception and recognition banquet will conclude the conference at 6 p.m. Wednesday (June 20) in the Lubbock Memorial Civic Center. The association will present awards for distinguished teaching, research, extension/industry service, meat processing and the R.C. Pollock and Signal Service awards.

Co-chairman of conference arrangements are animal science professors Gordon Davis and C. Boyd Ramsey, director of the Texas Tech Meats Laboratory.

Other Texas Tech program participants will include food technology Professor Ronald Galyean and David S. Clark, program manager, Texas Tech television station KTXT.

Davis and Clark will present a session on "Developing a Videotape for Meat Science Projects." Davis also will coordinate a session on growth biology.

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Ramsey and Galyean will speak at a session on "Using Microcomputers in Meat Science Programs."

Dr. H.R. Cross of Texas A&M University, president of the association, will preside at conference activities. L.J. Ernst of the American Can Co. is conference chairman.

Sponsors include Texas Tech, American Meat Science Association, National Live Stock and Meat Board, Texas Cattle Feeders Association, Texas and Southwestern Cattle Raisers Association, National Pork Producers Council, The Upjohn Co., American Cyanamid Co., Hoffman-LaRoche Co., and the Southwestern Meat Packers Association.

For the first time the meeting is sponsored by Texas Tech's Department of Animal Science and College of Agricultural Sciences. Sessions will be in the Business Administration and Agricultural Sciences buildings. For information, contact Dr. Davis, (806) 742-2804.

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9-6-14-84

LUBBOCK--American and European views relating to nuclear war will be voiced during an international, interdisciplinary symposium at Texas Tech University in January.

Cardinal Archbishop Bernardin of Chicago, German political journalist Franz Alt, historian Norman Graebner, and Professor Charles Schwartz, a nuclear physicist with the University of California-Berkeley, will be among key speakers.

The Jan. 24-26 public symposium differs from many nuclear conferences, according to Texas Tech Professor Ulrich Goebel, co-director.

"It is an attempt to bring European and U.S. problems and views together for reciprocal understanding," Goebel said. "The event will also allow outspoken leaders in various disciplines to share ideas with those outside their fields and with the public."

The symposium, "War and Peace: Perspectives in the Nuclear Age," is the 18th annual comparative literature symposium at Texas Tech. It is the first opened to other disciplines, presenting the viewpoints of literature, history, science, technology, philosophy and theology.

The annual symposia are organized by Texas Tech's Interdepartmental Committee on Comparative Literature. Past symposia have often focused on single authors, including Faulkner, Conrad, Camus, Calderon de la Barca, Goethe and Kafka.

Goebel, chairman of the committee, said the group has been interested in broadening the scope of the symposium. They chose the nuclear age topic for that purpose.

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Cardinal Bernardin will speak Jan. 26 on "War and Peace: The Role of Moral Argument on the Policy Debate." Well-known for his political interest in disarmament, Bernardin was instrumental in bringing about the U.S. Bishops' peace document in the spring of 1983. He is represented in the book, "Nuclear Disarmament: Key Statements of Popes, Bishops, Councils and Churches."

Alt is the author of "Peace is Possible," a West German best-seller soon to be translated in English for sale in America. He operates a radio station with nationwide broadcasting in West Germany. He has written several books and is a frequent lecturer.

Graebner, professor of history at the University of Virginia-Charlottesville, is one of the leading national experts on American foreign policy and diplomatic history. He is writing a history of American foreign policy since 1945. His other books include "Empire on the Pacific" and "New Isolationism: A Study in Politics and Foreign Policy since 1950."

Schwartz will speak Jan. 26 on "Science: Villain and Victim in the Military State." During the past year, Schwartz has headed the American Physical Society's Forum on Physics and Society.

In addition to key speakers, 18 scholars and spokesmen from U.S. and German universities and the public sector will present papers, selected by the symposium committee. The committee includes representatives from the community and the various disciplines at the university.

Topics selected include the post-holocaust novel, American war novels, development of the Western peace concept since antiquity, Europe's quest for peace, press coverage of nuclear issues, transatlantic perspectives on the German peace movement, and the impact of mass media films on public reactions to nuclear war possibilities.

The 1985 symposium is sponsored by the Texas Tech Department of Germanic and Slavic Languages and co-directed by Goebel and Dr. Irmgard Hunt, German professor. Support is from the colleges of Arts and Sciences and of Engineering and the Office of Academic Affairs. All events are free, except for a luncheon.

For more information, contact Goebel at (806) 742-3282.

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10-6-14-84

LUBBOCK--Water, the valuable resource which has drawn man to Lubbock Lake for the past 12,000 years, now hinders people interested in the site.

The water hampers archeological research by damaging exposed excavation areas at the nationally important site where archeologists seek artifacts left by earlier cultures.

The City of Lubbock, which owns the land where the archeological project is based, installed a pump June 13, to remove the surface water and channel it into the city's Canyon Lakes. Lubbock Mayor Alan Henry was present.

"The problem is not due to rainwater, but water seeping into the Lubbock Lake National and State Landmark from the rising water table," Henry said. "The city is interested in helping protect the site to preserve local history and because of the site's international importance."

After the surface water is pumped, Henry said, the city will look at drilling wells. He said though that any long-range pumping project will have to be established through cooperative efforts of the city, Texas Tech University which conducts research at the location, and others involved in the historically significant site.

The archeological project is operated by The Museum of Texas Tech University. Dr. Clyde Jones, museum director, said The Museum appreciates the city's action on the water problem."

"This was a critical situation because the areas being excavated in fieldwork this summer were threatened by the water," Jones said.

He said the excess water problem at the site is the same problem Texas Tech is facing with a rising water table under the campus.

The irony of the Lubbock Lake water problem is that water itself is the reason the site is important to archeologists.

Dr. Eileen Johnson, Lubbock Lake project director and curator of archeology for The Museum of Texas Tech, said water has been man's and animal's attraction to the site since 12,000 years ago. Activity can be traced from that time to the present through the well-defined stratigraphy at the site and through artifacts discovered and dated to various eras.

Johnson said the site also has much to reveal about the environmental record of the past. The changing environment has included the transformation of a meandering stream of the Clovis Man era (12,000 years ago) to ponds and marshes of the Folsom period (10,500 years ago) to the dry lands of the Archaic cultures (8,000 to 2,000 years ago).

Water, Johnson said, is the reason Apache Indians congregated in the area and the reason George W. Singer, one of Lubbock's earliest settlers, located his store near the site in the 1880s.

At the turn of the century, Lubbock officials purchased the site as a water reservoir. Its archeological value was discovered in the 1930s when the lake was dredged to rejuvenate the reservoir. Periodic research has followed.

Intensive research has been conducted since 1973 and has been supported by the National Geographic Society, National Science Foundation, Texas Historical Commission, Center for Field Research (Earthwatch), the National Endowment for the Humanities, the Institute for Museum Research, Texas Tech, the West Texas Museum Association, the city of Lubbock and Lubbock County.

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11-6-14-84

SHARED WATER--Lubbock Mayor Alan Henry and Dr. Vance T. Holliday, summer field director for the Lubbock Lake archeological project, watch a new stream created by city pumps transfer unwanted water from the archeological project into the city's Canyon lakes. The water at the archeological site, caused by rising underground water, could hamper archeological research by covering and damaging exposed excavation areas. (TECH PHOTO)

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12-6-14-84

LUBBOCK LAKE--Lubbock Mayor Alan Henry and Lubbock Lake archeological project director Dr. Eileen Johnson look over archeological Lubbock Lake site which has been threatened by a rising water table. The City of Lubbock installed pumps June 13 to remove surface water and channel it into the city's Canyon Lakes. The city owns the lake site land in northwest Lubbock. The archeological project is operated by The Museum of Texas Tech University. (TECH PHOTO)

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13-6-14-84

(EDITOR'S ADVISORY: A hometown release mailed to you this week listed Texas Tech University students who made the Dean's and President's Lists at Texas Tech University for the spring. However, the release inadvertently said the honors were for the 1983 fall semester. The release should have read for the 1984 SPRING SEMESTER. The release is slugged with the number 35-5-24-84. We regret the error and any inconvenience it may have caused you.)

Tip Sheet for the week of
June 17 - 23, 1984
14-6-15-84

Texas Tech University
University News & Publications
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Radio & Television New Service

MEAT CONFERENCE--The 37th Annual Reciprocal Meat Conference begins June 17 at Texas Tech University. The four day meeting features experts in meat production, packing and marketing as well as use of computers and video tape in the industry. Experts in research and nutrition will attend. For more information, contact Gordon Davis, College of Agricultural Sciences, 742-2804.

AND PORK--A one-day Swine Short Course, sponsored by Texas Tech, will be held at the Lubbock Memorial Civic Center June 21. Swine research and the status of the industry will be discussed. Contact Animal Science Professor Leland Tribble, 742-2826.

SOLAR FLARES--Violent Eruptions on the sun can cause power failures on earth, telephone overloads, compass failures. The planetarium show at The Museum of Texas Tech offers additional information for a feature on the sun's earth effects. Contact Ron Johnston, Texas Tech Museum, 742-2456.

NEW STUDENTS--The Office of New Student Relations at Texas Tech is hosting a conference starting June 17, for some 100 Texas and New Mexico high school counselors. Visitors will tour the campus and visit the Tech colleges to learn more about the university. Contact Randy McDonald, 742-1480.

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

CONTACT: Preston Lewis

15-6-15-84

LUBBOCK--Six San Antonio residents are among more than 50 students in the Mass Communications Department at Texas Tech University to receive scholarships for the 1984-85 school year.

Laura L. Tetreault, a freshman journalism major, received the \$200 John B. Anderson Scholarship. Tetreault is the daughter of Mrs. Frances Brooks, 9103 Spring Dawn.

Patricia H. Finley, daughter of Mrs. Patricia W. Hoggard, 4434 Newcome, received a \$1,000 Joe H. and Mary Lee Bryant Scholarship. Finley is a junior telecommunications major.

Junior advertising-public relations major Suzanne Brennan received a \$200 Dick Cook Advertising Scholarship. Brennan is the daughter of Mrs. Nancy Brennan, 454 Pamela.

Freshman mass communications major Gary Glassman received a \$200 Scripps Howard Scholarship. He is the son of Mrs. Betsy Glassman, 1000 Jackson-Keller.

Rebecca Ann Arreaga, daughter of Mr. and Mrs. Johnny R. Arreaga, 6122 Willowridge, received the \$200 Silver Medal Award. Arreaga is a sophomore advertising-public relations major.

Stephanie M. Brown of 706 Kentucky Ave. received a \$200 Eunice C. Mowery Scholarship. Brown is a sophomore journalism major and daughter of Mr. and Mrs. Charles Q. Brown.

More than \$17,000 in scholarships were awarded to Texas Tech mass communications students for 1984-85.

CONTACT: Preston Lewis

16-6-15-84

LUBBOCK--Kristi Lynn Froehlich of Spring has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Froehlich, daughter of Mrs. Donna J. Froehlich, 24902 Wilderness Road, has received a \$200 C.W. Ratliff Scholarship. She is a sophomore journalism major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

17-6-15-84

LUBBOCK--Robin Rynn Chavez of El Paso has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Chavez, the daughter of Mr. and Mrs. Tom Chavez, 1328 Backus, has received a C.W. Ratliff Scholarship for \$200. Chavez is a junior journalism major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

18-6-15-84

LUBBOCK--Steven R. Kauffman of Levelland has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Kauffman, son of Mr. and Mrs. Robert Kauffman, 2111 E. Highway 114, received a \$200 Eunice C. Mowery Scholarship. Kauffman is a senior broadcast journalism major.

He is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

19-6-15-84

LUBBOCK--David V. Alexander of Fort Worth has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department..

Alexander, son of Mr. and Mrs. Edward L. Alexander, 3541 Wedgway Drive, has received a \$200 Eunice C. Mowery Scholarship. Alexander is a sophomore telecommunications major.

He is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

20-6-15-84

LUBBOCK--Kelly Kathleen Knox of Abilene has received a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Knox, daughter of Mr. and Mrs. Kenneth K. Knox of Abilene, received the \$500 Harry Montgomery Scholarship. Knox is a junior journalism major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

21-6-15-84

CONTACT: Preston Lewis

LUBBOCK--Randa Boggus of Corpus Christi has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Boggus, daughter of Mr. and Mrs. Don Boggus, 910 Pyramid, received a \$200 Lubbock Advertising Federation Scholarship. Boggus is a sophomore advertising-public relations major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

22-6-15-84

LUBBOCK--Donna Denise Lamar of Amarillo has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Lamar, daughter of Mr. and Mrs. Donald R. Lamar, 2407 Irene, received the \$200 Bradford Knapp Scholarship. Lamar is a junior telecommunications major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

23-6-15-84

LUBBOCK--Kathryn Leigh Parish of Missouri City has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Parish, daughter of Mr. and Mrs. Robert L. White, 2715 Quail Valley East, received the Houston Area Mass Communications Alumni Scholarship of \$200. Parish is a freshman broadcast journalism major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

24-6-15-84

CONTACT: Preston Lewis

LUBBOCK--James R. Cody of Cedar Hill has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Cody, son of Mr. and Mrs. Marvin Sims of Cedar Hill, received a \$200 Greater Lubbock Press Club Scholarship. Cody is a junior broadcast journalism major.

Cody is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

25-6-15-84

LUBBOCK--Kara Bolding of Stamford has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Bolding, a sophomore telecommunications major, received a \$200 Greater Lubbock Press Club scholarship. Bolding is the daughter of Mr. and Mrs. Dempsey A. Bolding, 1309 Hudson Road, Stamford.

Bolding is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

26-6-15-84

LUBBOCK--Elizabeth Reyna of Weslaco has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Reyna, the daughter of Mrs. Josefina Reyna, 302 S. Tio, received a \$200 Greater Lubbock Press Club Scholarship. Reyna is a sophomore journalism-public relations major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

27-6-15-84

LUBBOCK--Lisa Edwards of Missouri City has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Edwards, daughter of Mr. and Mrs. Gary R. Edwards, 1210 Pecan Glen, Missouri City, received a \$200 Dick Cook Advertising Scholarship. Edwards is a freshman advertising major.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

28-6-15-84

LUBBOCK--Catherine Ann Pawlik of Route 1, George West, has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Pawlik, a sophomore advertising-public relations major, received a \$1,000 Joe H. and Mary Lee Bryant Scholarship. She is the daughter of Mr. and Mrs. George F. Pawlik of Route 1, George West.

Pawlik is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

29-6-15-84

LUBBOCK--Heather McPhaul of Route 1, O'Donnell, has been awarded a scholarship for 1984-85 in the Texas Tech University Mass Communications Department.

McPhaul, a junior advertising-public relations major, received a \$1,000 Joe H. and Mary Lee Bryant Scholarship. She is the daughter of Mr. and Mrs. Jack David McPhaul of Route 1.

McPhaul is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

30-6-15-84

LUBBOCK--Michael James Clarke of Ruidoso, N.M., has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Clarke, a senior journalism major, received a \$1,000 Joe H. and Mary Lee Bryant Scholarship. He is the son of Mr. and Mrs. Robert G. Clarke Sr. of Ruidoso.

Clarke is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

31-6-15-84

LUBBOCK--Jana Lee Knight of Borger has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Knight received a \$200 Amarillo Advertising Club Scholarship. The senior advertising major is the daughter of Mr. and Mrs. J. Charles Knight, 683 Evergreen, Borger.

She was among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

32-6-15-84

LUBBOCK--Denise Darlene Dues of Avon, Conn., has been awarded a scholarship in the Mass Communications Department at Texas Tech University.

She received a \$250 Joe H. Bryant Scholarship. The senior telecommunications major is the daughter of Mr. and Mrs. Leon G. Dues, 204 Stagecoach Road, Avon.

Dues was among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

33-6-15-84

LUBBOCK--Derinda Sue Cruse of Route 1, Flomont, has been awarded a scholarship in the Mass Communications Department at Texas Tech University.

Cruse received a \$200 Amarillo Advertising Club Scholarship. She is a sophomore advertising major and the daughter of Mr. and Mrs. Ray Cruse of Route 1, Flomont.

She was among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

34-6-15-84

LUBBOCK--Four Texas Tech University Mass Communications Department students from Albuquerque, N.M., have been awarded scholarships for the 1984-85 academic year.

Sandra Jeanine Murillo, a freshman mass communications major, has received the Louise C. Allen Scholarship for \$200. Murillo is the daughter of Mr. and Mrs. John T. Murillo, 9802 Denali Road, N.E.

Freshman mass communications major Traci Anne Neal was presented the Marshall and Clint Formby Scholarship of \$300. Neal is the daughter of Mr. and Mrs. Joe Neal, 5613 Brentwood Trail, N.E.

Kirsten Kling, the daughter of Mr. and Mrs. Charles A. Kling, 8223 Pickard Ave., N.E., was awarded a \$200 Eunice C. Mowery Scholarship. Kling is a sophomore journalism major.

Suzanna Doggett, a freshman mass communications major, earned a \$200 Scripps Howard Scholarship. Doggett is the daughter of Mr. and Mrs. James W. Doggett, 2833 Palo Alto Drive, N.E.

The Albuquerque recipients were among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000.

CONTACT: Preston Lewis

35-6-15-84

LUBBOCK--Three Dallas residents are among more than 50 students in the Mass Communications Department at Texas Tech University to receive scholarships for the 1984-85 academic year.

Laurie Jane Cross, a junior journalism-public relations major, received a \$1,000 Joe H. and Mary Lee Bryant Scholarship. Cross is the daughter of Mr. and Mrs. William M. Cross, 7019 Meadowcreek Drive.

Susan B. Bernard, daughter of Mr. and Mrs. Martin L. Bernard, 13694 Perryton, received a \$200 Eunice C. Mowery Scholarship. Bernard is a junior broadcast journalism major.

Debra Kay Hobbs, daughter of Mr. and Mrs. Jerry W. Hobbs, 11069 Swaffar Drive, received a \$250 Joe H. Bryant Scholarship. Hobbs is a junior telecommunications major.

More than \$17,000 in scholarships were awarded to Texas Tech mass communications students for 1984-85.

36-6-15-84

CONTACT: Preston Lewis

LUBBOCK--Seven Lubbock students are among more than 50 to receive scholarships in the Texas Tech University Mass Communications Department for the 1984-85 academic year.

Stephen Neal McCutcheon, son of Mr. and Mrs. David Neal McCutcheon, 7906 Joliet, was named recipient of the \$200 American Advertising Federation Scholarship. He is a junior advertising major.

Junior telecommunications major Barbara Baugh was awarded a \$250 Joe H. Bryant Scholarship. She is the daughter of Dr. and Mrs. Clarence Baugh, 3613 93rd St.

Sharon Denise Ford, a junior journalism-public relations major, has received a \$200 Greater Lubbock Press Club Scholarship. She is the daughter of Reve. and Mrs. J.H. Ford, 1825 Manhattan Drive.

Freshman journalism major Steve Kaye has received the \$200 Lubbock Avalanche-Journal Scholarship. Kaye is the son of Mr. and Mrs. Stanley Kaye, 5419 79th St.

The Mass Communications Faculty Scholarship for \$200 went to Leslie Ann Veloz, daughter of Mrs. Leilani Hartwell. Veloz is a senior telecommunications major.

Lawrence C. Sutherland of 2202 15th St. received a Eunice C. Mowery Scholarship for \$200. He is a journalism major.

Wade Donon Young, son of Mr. and Mrs. William Darrell Young, Route 2, received a \$200 Scripps Howard Scholarship. Young is a freshman mass communications major.

CONTACT: Preston Lewis

37-6-15-84

LUBBOCK--Two Houston residents are among more than 50 students in the Mass Communications Department at Texas Tech University to receive scholarships for the 1984-85 academic year.

Mitzilyn K. Barnett, a sophomore advertising major, received a \$200 Lubbock Advertising Federation Scholarship. Barnett is the daughter of Mr. and Mrs. John R. Barnett, 1802 Hamlin Valley Drive.

Lisa Barrie Morris, a junior broadcast journalism major, received the \$500 Cindy and Mary Lou McCarty Scholarship. Morris is the daughter of Mrs. Rhoda Morris, 8201 Bellfort.

More than \$17,000 in scholarships were awarded to Texas Tech mass communications students for 1984-85.

CONTACT: Preston Lewis

38-6-15-84

LUBBOCK--Rick I. Lee of Whitharral has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Lee, a junior journalism major, received the \$250 West Texas Society of Professional Journalists/Sigma Delta Chi Scholarship.

CONTACT: Preston Lewis

39-6-15-84

LUBBOCK--David M. McClure, son of Mr. and Mrs. Charles M. McClure of Uncasville, Conn., has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

McClure, a senior advertising major, received the \$200 Catharine Louise and James Stephens Ward Scholarship.

CONTACT: Preston Lewis

40-6-15-84

LUBBOCK--Robert L. Pockl Jr of White Plains, N.Y., has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Pockl, son of Mrs. Regina M. Pockl, 126 Davis Ave., White Plains, received a \$200 Greater Lubbock Press Club Scholarship. Pockl is a junior journalism major.

41-6-15-84

CONTACT: Preston Lewis

LUBBOCK--Valerie D. Robertson, daughter of Mrs. JoBeth Walker of Morton, has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Robertson, a freshman mass communications major, received the \$300 Shamrock Texan scholarship.

She is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

42-6-15-84

LUBBOCK--Damon Lee Pearce of Lamesa has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Pearce, son of Mr. and Mrs. Jerry Don Pearce, 105 Hillside Drive, received a \$500 Doc Sellers Scholarship. Pearce is a junior journalism major.

Pearce is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

43-6-15-84

LUBBOCK--Linda Marie Burke of Carrollton has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Burke, daughter of Mrs. Patricia A. Burke, 1953 North Josey Lane, received a \$200 Scripps Howard Scholarship. She is a freshman mass communications major.

Burke is among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

44-6-15-84

CONTACT: Preston Lewis

LUBBOCK--Johnny Austin Locke and Donald Joe May Jr., both of Garland, have been awarded scholarships for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Locke, a junior journalism major, received the Lubbock Area Mass Communications Alumni Scholarship of \$200. He is the son of Mr. and Mrs. Dennis Austin Locke of 118 W. Garland Ave.

May, a junior journalism major, received a \$500 Doc Sellers Scholarship. May is the son of Mr. and Mrs. Donald Joe May Sr. of 401 Willowcrest.

CONTACT: Preston Lewis

45-6-15-84

LUBBOCK--Steve Anthony and Chris J. Ameel, both of Midland, have been awarded scholarships for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Anthony, a junior telecommunications major, received a \$250 Joe H. Bryant Scholarship. He is the son of Mr. and Mrs. Clyde C. Anthony Jr. of 2812 Metz, Midland.

Ameel, son of Mr. and Mrs. James C. Ameel, 2402 Camarie, received the \$300 C.W. Ratliff Society of Professional Journalists-Sigma Delta Chi Scholarship. He is a junior telecommunications major.

Anthony and Ameel are among more than 50 Texas Tech mass communications students receiving scholarships totaling more than \$17,000 for 1984-85.

CONTACT: Preston Lewis

46-6-15-84

LUBBOCK--Wessley Rhoades Dubrisk, son of Mrs. Barbara Simpson of Denver, Col., has been awarded a scholarship for the 1984-85 academic year in the Texas Tech University Mass Communications Department.

Dubrisk, a graduate student in mass communications, received the Billy I. Ross Scholarship for \$500.