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CONTACT: Marcia Lundy

LUBBOCK--Dr. Darryl P. Sanders, chairperson of Texas Tech
University's Department of Entomology, has been elected to chair
the Finance Committee of the Entomological Society of America(ESA).

The committee handles the approximately \$1 million budget of the ESA each year. It is also responsible for publishing the three professional journals of the society.

Sanders' election was announced Thursday (Nov. 30), the final day of the five-day meeting. More than 3,500 of the 8,000 registered society members attended the meeting in Houston.

Sanders has served as chairman of the society's awards committee.

The national meeting of the American Registry of Professional Entomologists (ARPE) was held in conjunction with the ESA meeting. Sanders chairs the Professional Standards and Continuing Education Committee of the ARPE. This committee governs membership requirements for the registry.

Eleven graduate and undergraduate entomology students accompanied Sanders and other faculty members to the meetings. Sanders said this experience helps students understand the operation of their professional organization and provides contacts with potential employers.

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CONTACT: Pat Broyles

ATTN: PSA Directors (Kill Dec. 31)

For Immediate Release

REDISCOVER THE TRUE MEANING OF THE HOLIDAY SEASON AS THE TEXAS TECH PLANETARIUM PROBES THE MYSTERY AND THE SIGNIFICANCE OF THE STAR OF BETHLEHEM. EACH SATURDAY AND SUNDAY AT 3 P.M. YOU CAN JOURNEY WITH THE THREE WISE MEN AND VIEW THE HEAVENS AS THEY MIGHT HAVE APPEARED AT THE TIME OF THE BIRTH OF CHRIST. SPECIAL HOLIDAY SHOWINGS OF THIS NEW STAR SHOW WILL BE PRESENTED DECEMBER 26TH THROUGH 29TH AT 3 P.M. IN THE PLANETARIUM AT THE MUSEUM OF TEXAS TECH, FOURTH AND INDIANA.

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CONTACT: B. Zeeck

LUBBOCK--A new, but really old, kind of Christmas celebration will be held at the Ranching Heritage Center on Dec. 14. It's called "Candlelight Christmas 1978," but instead of candles pathways will be lighted by lanterns for visitor touring from 7-8:30 p.m.

The Ranching Heritage Center is a 12-acre outdoor exhibit of The Museum of Texas Tech University. It authentically depicts the history of ranching in the American West.

While buildings on the site will not be open to visitors, there will be Christmas activities in several of the historic homes. Visitors can peer through the windows and watch holiday preparations and hear the music, to be provided by persons from the Lubbock area and Texas Tech University.

The David M. DeVitt and Mallet Ranch Building will open at 6:30 p.m., Dec 14, for browsing in Cogdell's General Store and the Edith Whatley McKanna Parlor.

Cost is \$2 per family with hot chocolate, cold cider, popcorn balls and cookies being sold on the Richard T. Campbell Patio. A portion of the proceeds will go to the Ranching Heritage Association. The event is sponsored by the Docent Guild of The Museum.

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CONTACT: B. Zeeck

LUBBOCK--Nineteen hundred and seventy-eight years ago on Dec. 25 a child was born, Christians will be saying this year, and Wise Men in the East saw the star which heralded the birth and traveled west to Judea.

The exact year and the exact date of birth for Jesus of
Nazareth is not known, but the possible date and year and the
possible "star" the Magi saw will be explored this season in
the Moody Planetarium shows in The Museum of Texas Tech University.

The program, "For Unto Us . . . " will be shown at 3 p.m. each Saturday and Sunday through Dec. 31 with additional programs at 3 p.m. on Dec. 26-29. Cost is \$1 for adults, 50 cents for students. Preschoolers are not encouraged to attend because of the level of programming.

Whether the Wise Men saw a comet, meteor, nova, supernova or the conjunction of planets in the constellation Pisces still mystifies all men, even astronomers.

But the possibilities of what they might have seen, from the clues left in recorded history and in astronomers' knowledge of patterns in the sky, can be explored.

Each of these possibilities is explored, leaving visitors to the show with enough information to decide for themselves

what they believe the Wise Men saw, whatever it was in the heavens that led the three to Bethlehem, to incur the wrath of King Herod and to worship at the manger cradle of the infant Christains call the Christ Child.

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5-11-27-78

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CONTACT: Pat Broyles

ATTN: PSA Directors (Kill Dec 6)

GOVERNMENT CAREER DAY AT TEXAS TECH UNIVERSITY IS AN OPPORTUNITY TO FIND OUT WHAT TYPE OF JOBS ARE AVAILABLE FROM FEDERAL AGENCIES. REPRESENTATIVES FROM STATE, FEDERAL AND CITY AGENCIES WILL EXPLAIN THE REQUIREMENTS NECESSARY FOR EMPLOYMENT IN THE GOVERNMENT SECTOR. GOVERNMENT CAREER DAY WILL BE HELD DECEMBER 5TH, 9 A.M. TO 3 P.M., IN THE TEXAS TECH UNIVERSITY CENTER. FOR INFORMATION CALL 742-2210.

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6-11-27-78

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

ATTN: Agricultural Editors

LUBBOCK--Does removal or killing of mesquite trees or a combination increase soil moisture in the High Plains?

Donald J. Bedunah of Fort Worth, a doctoral student in range science at Texas Tech University, is investigating these questions in an attempt to find means of increasing soil moisture levels. Prof. Ronald E. Sosebee of the range and wildlife management faculty is supervising the study.

Bedunah said two obstacles face High Plains ranchers in maintaining or increasing soil moisture--runoff erosion and soil water depletion by mesquite.

Mesquite tree removal will help increase soil moisture by decreasing competition for available water, and the particular method used for removal may increase soil moisture levels even more, Bedunah said. Because the land is so hard and flat, it resists absorbing rainwater, he said. Mechanically breaking up the soil just enough to roughen the surface may provide enough catches for rain to be absorbed.

Bedunah set up six treatments on mesquite rangeland plots for examination of mesquite removal methods and resulting increases in soil moisture.

soil moisture/add one

The control plot was left untouched to compare with experimental plots. One plot was completely cleared to leave bare ground and to determine water infiltration rates during rain. A third was chemically sprayed to kill mesquite trees, which were left standing. The trees in another area were shredded and left on the ground to form blocks against water runoff.

Mesquite trees were grubbed out with a tractor and small blade in a fourth plot, with pits left to serve as rainwater collection points. The last plot was grubbed between trees, which were untouched, and ditches about three feet wide by six inches deep were created.

Bedunah said these last two methods may prove most effective in increasing soil moisture. Both methods disturb the soil surface just enough so water cannot completely run off. Whether disturbing the soil mechanically increases soil moisture levels significantly enough for widespread use among ranchers remains a question, Bedunah warned.

The pits left when trees were removed have growths of various native weeds on the edges, he said, which indicates increased soil moisture. Where the land was grubbed without removing or killing the trees, the resulting pits have no new growth surrounding them.

Bedunah said this circumstantial evidence indicates that mesquite is still very water-competitive and should probably be removed before water levels could be increased.

Bedunah and Sosebee are still collecting data for analysis of the different methods.

soil moisture/add two

They hope to try root plowing the mesquite trees as another alternative. Sosebee said there might not be any runoff at all with this method, since the entire ground surface would be broken up enough to hold rainwater until it could be absorbed.

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CONTACT: Jane H. Brandenberger

FOR IMMEDIATE RELEASE

LUBBOCK--The Boards of Regents of Texas Tech University and School of Medicine will consider several contracts with various medical institutions and awarding of other contracts to construction firms in their regular meeting Friday (Dec. 1) in the Regents' conference room of the Administration Building.

Meeting at 9 a.m., the Regents will convene first as the board for the School of Medicine.

They will discuss an addendum to the affiliation agreement with the Medical Center Hospital in Odessa, an affiliation agreement with the Amarillo Center for Human Development and a general policy to govern granting of tuition scholarships.

The Finance Committee will ask consideration of contracts with the Amarillo Hospital District, El Paso County Hospital District and Shallowater Clinic, Inc., and of a policy concerning receipt of audits by Regents.

In mid-morning the Regents will convene as the board for the University.

Establishment of the Jessie Lee Thornton Chair in Animal Science and one in Plant and Soil Science, with authorization to utilize funds from the Thornton Estate, will be discussed.

Finance Committee action will include proposals for delegation of board authority to authorize and approve expenditures from appropriated and other funds and from the Financial Aids Cashier's Account; an increase in the amount of the Revolving Fund; and of awards of oil and gas leases previously advertised.

As the Committee of the Whole, the Regents will consider a new board policy manual.

The Campus and Building Committee is slated to ask for approval to proceed with contract documents and receipt of bids for renovation of Sneed Hall, Phase II, and of West Hall; awarding of contracts for construction of storage for hazardous materials, of the Electrical Engineering Building addition and of a utility tunnel for that addition; approval of authority to proceed with Campus Fire Alarm Systems, Phase II; and of acceptance dates for the Lubbock County Agricultural Field Laboratories, Phase II, and Sneed Hall renovation, Phase I.

Reports to be heard by the Regents include Southwest

Conference radio coverage of football games, workload of

professors, small classes on the University campus, public affairs

and on The Museum complex.

An executive committee meeting is scheduled from 9:05-9:35.

At 2 p.m. on Thursday (Nov. 30) the Regents will tour the Lubbock County Agricultural Field Laboratories near New Deal.

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CONTACT: Gail Molsbee

LUBBOCK--Erin E. Erskine of Dallas has been selected "Miss Texas Tech" for 1978-79.

The university senior competed in poise and control and clothing with 28 finalists in the annual Sigma Delta Chi-sponsored pagaent. Sigma Delta Chi is the society of professional journalists.

"I was really surprised, especially after the competition question," Erskine said. "I was just enjoying myself and then to my surprise I won."

She was sponsored by Alpha Phi, a social sorority of which she is a member and chaplain. She is also little sister to Sigma Alpha Epsilon fraternity.

Her first duty as "Miss Texas Tech" was her appearance in the 1978 homecoming parade early in November. She will be featured in the 1978-79 "La Ventana," Texas Tech's yearbook, and appear at city and university organizations' meetings throughout the year.

Member of the Public Relations Student Society of America and American Marketing Association, she is interning with Southwestern Bell Telephone Company as student manager of public relations. She also works with a Lubbock photographer.

She attends the university on an advertising scholarship from the Houston Advertising Association.

erskine/add one

While at Texas Tech she has been involved with the Greek newsletter, "The Windmill," and the "University Daily," campus newspaper. She has been on the dean's honor roll since her freshman year.

The public relations major was graduated from Richardson
High School, where she was president of Distributive Education
(DE) for two years. She was among the state DE's top 10 in public speaking in 1975.

She has modeled for Dallas department stores and was voted Miss Photogenic at Richardson High School.

She is the daughter of Mr. and Mrs. Robert Erskine, 7110 Tophill Circle in Dallas.

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CONTACT: B. Zeeck

ATTN: Business and Agriculture Editors

LUBBOCK--The light entertainment of humorist Bob Murphy and pop singers Joe and Joy Roper will precede business sessions of the sixth annual Bankers Agricultural Credit Conference Dec. 1-2 at Texas Tech University.

Registration will begin at 6 p.m., Friday (Dec. 1), in the courtyard of the University Center. The entertainment will follow a 7 p.m. dinner in the ballroom. Saturday sessions, lasting from 8 a.m. to noon, will be for business only. A buffet luncheon will conclude the meeting.

President B. E. "Bill" Loyd of the conference will open the sessions. Loyd is president of the Muleshoe State Bank.

Leadoff speakers are Sac City, Ia., bankers Larry Reding, vice president, and Neil Stadlman, assistant vice president and agricultural representative, Sac City State Bank. "Merchandising Your Bank Services for Profit" is their topic.

The Sac City bank has various loan and management programs for production agriculture centered around computerized record systems and budget planning. The bank has mini-computer programs to aid in loan decisions covering break-even projections from livestock to investment analysis. It also has a farm management

bankers/add one

and real estate agency.

L. Buel Berry, Farmers Home Administration county supervisor from Sulpher Springs, Texas, will discuss the FHA as it is today.

The "Outlook" for 1979--Cotton, Grains, Livestock and 1979
Estimated Cost of Production Budgets" will be discussed by a
panel of Texas Tech agricultural economics faculty. Moderator
will be Dr. Gene A. Mathia, chairperson of the Department of
Agricultural Economics at Texas Tech.

Bankers' spouses are invited to the Friday banquet, and there will be a special breakfast for them at the University City Club, beginning at 9 a.m. on Saturday.

Dr. J. Wayland Bennett, associate dean of the Texas Tech College of Agricultural Sciences, is conference coordinator. Registration fee for the conference business sessions is \$35 and the banquet cost is \$12.50 per person.

CONTACT: B. Zeeck

ATTN: Fine Arts Editors

LUBBOCK--The early 20th century brought a series of creative explosions, and Cubism is called by some art critics "the most influential movement" of all. Georges Braque (1882-1963) shared with Pablo Picasso in Cubism's creation.

Braque will be the subject of a 10 a.m. art seminar at The Museum of Texas Tech University Tuesday. The lecturer is Rabbi Alexander Kline and the sponsor the Women's Council of the West Texas Museum Association. The public may attend for a nominal fee.

Braque, with Picasso, sought to define the permanent properties of objects in a closed space without perspective or light during the short-lived Cubist period, begun in about 1907 and gone after the first World War. While the movement died, it greatly influenced later sculpture, architecture and other art forms.

Severely wounded in the war, Braque resumed painting after the armistice but turned to a freer, quieter style. In the 1920s he achieved a mastery of still life and figure composition, with a balance and harmony of color and design seldom matched by other artists.

His paintings grew brighter and in the mid-1930s, critics sensed a new harmony of feeling and intellect, expression and technique.

braque/add one

Braque is noted for his sculpture and his graphic illustrations of poetry as well as his painting. He also worked in ceramics and some of his paintings were transferred to tapestry.

Among Braque's masterpieces are "The Portuguese," painted in 1911 at the height of his interest in Cubism, "Houses at L'Estaque," 1908; "The Musician's Table," 1913; "The Black Pedestal Table," 1919; "The Salon," 1944; and his bronze sculpture, "Horse's Head," 1943.



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CONTACT: Gail Molsbee

LUBBOCK--During 1979 a \$500 scholarship will be awarded to the winner of a Texas Tech University band uniform design contest.

Full-time students at Texas Tech and at Lubbock County high schools may enter an original design before the deadline, Dec. 31.

Marilu Grace, contest coordinator and Texas Tech instructor in clothing and textiles, said, "Members of local civic clubs talked with band members and decided to donate money for new uniforms, which hopefully will be on the backs of the band members during the fall of 1979."

Designs must be original, in color and on $8\frac{1}{2}$ x ll-inch paper. They should include front and back views and head dress, predominantly in Texas Tech colors of black and red. Jackets need to be slenderizing, preferably covering the derriere, and long pants must be included in the design.

"Flexibility of uniforms is also important because of the marching formations of the band," Grace said. "Detachable items are good."

Tech bands director M. Dean Killion, representatives of the Tech faculty and civic leaders of Lubbock will judge the entries. The winner will be notified by March 1, 1979.

band uniforms/add one

Designs will be judged on originality, suitability for a band uniform, comfort for marching, adaptability to group formations on the field and esthetic appeal.

If the winner is a high school student, the scholarship money will be held at Tech until the fall semester following the student's high school graduation. If not activated within a year after the student's graduation, the scholarship will automatically be forfeited. If a Tech student wins, the scholarship must be activated by fall 1980.

A student may submit as many designs as desired by attaching entries to the official form which will be published in the "Lubbock Avalanche-Journal" and the "University Daily." Entries should be mailed to Marilu Grace, Contest Chairperson, Department of Clothing and Textiles, Box 4170, Texas Tech University, Lubbock, 79409.

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CONTACT: Jane Brandenberger

FOR IMMEDIATE RELEASE

Texas Tech telephone directories for 1978-'79 will be issued free this year to students on a first-come, first-served basis in the foyers of the Tech Bookstore and University Center.

The directories will be available beginning tomorrow (Thursday, Nov. 30) according to Jane H. Brandenberger, director of University News & Publications.

There usually is a charge for the directories. Because of poor quality, numerous inaccuracies and occasional deletions by the printing company, the directories will be free this year. Brandenberger urged that students who have a directory from last year retain it for purposes of cross-reference with this year's book.

"Normally the University would have rejected this year's directory, but because of the tardiness of its delivery the decision was made to distribute the book at no charge to faculty, staff and students," the UN&P Director explained.

Faculty and staff may obtain directories through the Office of Communications Services.

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CONTACT: B. Zeeck

ATTN: Agriculture Editors

LUBBOCK--The Houston Livestock Show and Rodeo, committed to funding scholarships amounting to \$1.24 million for 248 college and university students, has made an endowment of \$100,000 to support new scholarships in the Texas Tech University College of Agricultural Sciences.

Allan H. Carruth, president, came to Lubbock to made the presentation at a banquet sponsored by the Lubbock Ag Club on Monday (Nov. 27) at Texas Tech University.

Financial need is a prime requisite for students receiving scholarships from the fund.

"We want this money to be used to get kids over the hump when they might otherwise have to drop out of school," Carruth said.

The scholarships will be awarded usually in the amount of \$500 annually, and some of the funding will be held for emergency situations for students who start a year with financial stability but later face unexpected reversals, according to Interim Dean William F. Bennett of the college.

The Houston Livestock Show and Rodeo, operated annually by 3,000 volunteers, currently is funding \$22,000 in research at

scholarships/add one

Texas Tech. The research is related to ruminant nutrition, swine reproduction and development of new materials for vocational agriculture teachers.

In addition the organization fudns 22 scholarships, established prior to creation of the \$100,000 endowment.

Attending the presentation with Carruth were Vice President Freeman Dunn and General Manager E. D. "Dick" Weekly of the 10,000-member Houston organization. Both Carruth, the managing partner in John L. Wortham & Son Insurance, and Dunn, president of four manufacturing and distributing firms, are engaged in ranching. Each raises Santa Gertrudis cattle.

Weekly pointed out that it is the volunteer aspect of the Houston Livestock Show and Rodeo that permits it to fund such substantial support to agricultural education and research throughout Texas.

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CONTACT: Becky Patterson

LUBBOCK--The Christmas spirit will officially be kindled anew on the Texas Tech University campus on Friday (Dec. 1), as the 1978 Carol of Lights blazes forth with a fanfare of music, candlelight, torch procession and sudden illumination of 15,000 colored lights outlining seven campus buildings.

The lights will burn until Dec. 26 from 6-11 p.m. nightly.

Illuminated buildings will include Holden Hall and the Chemistry,

Science, Social Sciences, Mass Communications, Home Economics

and Administration Buildings.

The inaugural ceremony, to take place in the Science Quadrangle parking lot, will be preceded by Music by Dr. Judson D. Maynard, Texas Tech organ professor performing on the Ruth Baird Larabee Memorial Carillon in the Ad Building's west tower.

The 30-minute ceremony will begin at 6:55 p.m. when a procession of Texas Tech Saddle Tramps bearing lighted torches move from the Broadway entrance of the campus to the Science Quadrangle. Processional music will be provided by a trombone ensemble performing Christmas carols. The ensemble will be directed by Robert W. Deahl, professor of music at Texas Tech.

Following the welcoming address by Kathy Cox, president of the Residence Halls Association, the invocation will be given by Robert L. Pfluger, chairman of the Texas Tech Board of Regents.

The Texas Tech Choir directed by Gene Kenney, will perform "The First Noel." Dr. Moses Turner, dean of student life and former member of the Metropolitan Opera Company, will sing "O Holy Night." He will be accompanied by the brass ensemble.

Turner and the brass ensemble will then lead the audience in singing "O Come All Ye Faithful," and the choir will perform "I Saw Three Ships Go Sailing."

Carla Neely, student coordinator for the Carol of Lights, will deliver a brief commentary, followed by the sudden blazing of the 15,000 lights outlining campus buildings.

The audience will be led by Turner, the brass ensemble and the choir in singing Christmas carols.

As spectators disperse to view the lights, the tower victory bells will ring and Maynard will perform on the carillon.

Additional lighting for the ceremony will be provided by the Texas Tech men's and women's service organizations, which will outline grounds around the Broadway entrance to the campus with candle-lit luminaries.

The Carol of Lights, sponsored by the Residence Halls
Association, originated some 20 years ago when coeds from Horn
and Knapp Halls and young men from around campus gathered at
Memorial Circle to sing Christmas carols. In 1958 the first
5,000 lights were donated by Harold Hinn of Dallas, former member
of the Board of Regents.

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CONTACT: Paula Lowe

LUBBOCK--An original German puppet play, "The Imprisoned Princess" ("Die gefangere Prinzessin"), will highlight graduation ceremonies for young German students in the Texas Tech Kinderschule at 4:30 p.m. on Tuesday (Dec. 5) in the Qualia Room of the Foreign Language and Math Building.

The same play will be presented in public performances at 8 p.m., Wednesday and Thursday (Dec. 6-7), in the Qualia Room. Admission charge is 25 cents.

Family and friends of Kinderschule pupils are invited at no charge to the Tuesday graduation program. Having begun on Sept. 19, students have attended weekly afternoon classes for a total of 12 sessions. Approximately 70-75 elementary students in grades two through six will be awarded certificates of completion signed by Dr. Thomas I. Bacon, chairperson of the Foreign Language Department.

The play will be presented by advanced German students, including some seeking certification as teachers in public schools.

The play is about a beautiful German princess who is captured by the devil. The cast includes Sheryl Dwyer of Port Arthur as the clown (Kasperl); Bryan Dunn of Lubbock as the king (Der Konig); Willie Tubach of Lubbock as the princess (Prinzessin);

kinderschule/add one

Clifford Gilley of Littlefield as the devil (Der Teufel); Janet
Whitlock of Odessa as the crocodile (Das Krokodil); and Nancy
Gilmore of Dallas as the policeman (Der Schutzmann). Stephen
von Phul of Lubbock is the technical director (Technische
Ausfuhrung); Donna Doyle of Azle, assistant director (Regieassistenz);
and Theodor W. Alexander, professor of Germanic and Slavic
languages, director (Regie).

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16-11-29-78

| cutline |
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GERMAN PLAY--Practicing for the Texas Tech University Kinderschule graduation presentation of "The Imprisoned Princess" are Nancy Gilmore of Richardson and Sheryl Dwyer of Port Arthur. The seniors are German majors. The puppet play will be presented during the German class ceremonies, Dec. 5, for the 75 graduating youngsters of the Kinderschule program and for the public at 8 p.m., Dec. 6 and 7. (Tech Photo)

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CONTACT: B. Zeeck

LUBBOCK--Dr. Eileen Johnson, principal investigator of the Lubbock Lake Site research project of The Museum of Texas Tech University, has been elected editor of publications for the Texas Archeological Society. The term of office is three years.

Dr. Johnson's "reputation as editor of museum publications at Tech is exemplary," according to Nominations Committee

Chairperson Pat Wheat of the Houston public school system.

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18-11-29-78

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CONTACT: Becky Patterson

LUBBOCK--Ballet students of Peggy Willis, associate professor of dance at Texas Tech University, will perform at the 55th annual convention of the Texas Association for Health, Physical Education and Recreation (TAHPER) Nov. 30 at the Hyatt Regency Hotel in Houston.

Tech dancers performing at the convention are Paula Hunter, Linda Kay Williams, Brent McArthur and Ray Foster. They will be joined in Houston by Cathy MacCurdy, a former pupil of Willis at Texas Tech and now a student of balletmaster John Barker in New York.

The students will perform "Becot," a ballet choreographed by Willis, who has been nominated as chairperson of the dance section of TAHPER.

cutline-----

BALLET--Ballet students at Texas Tech University will perform at the 55th annual convention of the Texas Association for Health, Physical Education and Recreation on Nov. 30 at the Hyatt Regency Hotel in Houston. Pictured from left are dancers, Linda Kay Williams, Brent McArthur, Paula Hunter and Ray Foster. The students will perform "Becot," a ballet choreographed by Peggy Willis, associate professor of dance at Texas Tech. (Tech Photo)

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CONTACT: Marcia Lundy

ATTN: Agriculture & Horticulture Editors

LUBBOCK--Electric radiant energy panels may help save greenhouse owners both time and money in getting plants from seed to maturity.

Preliminary research at Texas Tech University indicates that the panels, which radiate heat, speed the sprouting and maturation process in hothouse plants and, at the same time, save energy.

Dr. Ronald C. Smith, assistant professor of plant and soil science, said normally the entire greenhouse must be kept at high temperatures in order to protect the plants. The panels however can be placed as close as 18 inches above the plants. This way, the plants are kept warm and the rest of the greenhouse area only has be be kept above freezing.

Smith is being assisted by Cynthia Bilyea, Fort Worth, senior plant and soil science major.

In the experiment Smith used tomato and pepper seeds. One group of each was grown under normal greenhouse conditions and another group of each was nourished under the panels. He said those plants which sprouted and matured under the panels did so more rapidly than those under normal conditions.

Smith explained that the panels also seem to require less energy than other forms of electric heat. Electric portable heaters consume approximately 1,300-1,600 watts per hour, compared to only 200-300 watts per hour used by the panels. The researchers will also make comparisons of other heating methods normally used by greenhouses.

The panels might eliminate the need for glass greenhouses,

Smith said. In the future, a greenhouse could be built of concrete

and utilize low energy lights, as well as the energy panels, all of

which would further reduce energy consumption.

The panels are made of 24-gauge galvanized steel, backed by a one-inch thickness of one-pound density, high temperature fiberglass insulation. The electric heating element consists of powdered graphite, sandwiched between sheets of asbestos insulation which can be cut to fit any size panel. This type of element allows for even heat distribution, with no hot or cold spots. The entire panel is painted and sprinkled with desert sand to spread heat more evenly and increase the panel's surface area for more efficient radiation. The panels operate from any AC outlet.

Smith and his associates plan to examine next the economics of the panels versus other heating methods.

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CONTACT: Dan Tarpley

ADVISORY

U.S. Attorney General Griffin B. Bell will be at Texas
Tech University Friday (Dec. 1) to address law students and
members of the legal community of Lubbock and vicinity. He
will speak at 10 a.m. in the Lecture Hall of the Business
Administration Building.

A news conference will be held at 9:15 a.m. at the University City Club. Representatives of all news media are cordially invited.

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23-11-29-78

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CONTACT: Gail Molsbee

LUBBOCK--James R. Donaldson, staff member of Minnesota's Control Data TECHNOTEC, a technology transfer service, will speak on Wednesday (Dec. 6), 8 p.m., at Texas Tech University.

Donaldson's subject is "Who Are We and Why Are We Here?" according to Dr. Leonard H. Weiner, professor of math and computer science at the university.

The Texas Tech chapter of the Association for Computing Machinery is sponsoring the lecture and question session in the Business Administration Building, room 358.

At Control Data Donaldson has participated in development of a computer family and in managing system programming and marketing support organizations for large-scale computer systems. He also has taught at the U.S. Navy computer systems school.

He received the Bachelor of Arts degree magna cum laude in American studies from the University of Minnesota.

The lecture is intended to provide insight into the nature of computing and place in perspective computer professionals with relation to other professionals.

Weiner said the lecture is open to the public and the association encourages computer professionals and students to attend.

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CONTACT: B. Zeeck

LUBBOCK--Two special events, an exhibit called "A Kid's Christmas" and a special Christmas program for children, will be offered in December at The Museum of Texas Tech University.

The exhibit, for "kids" of all ages, will be on display from Dec. 3 to Jan. 2. It features Santa's workshop, with elves preparing toys for Christmas delivery.

The toys are from The Museum's historical and doll collections.

The West Texas Museum Association (WTMA) will sponsor a special afternoon opening of the exhibit. Featured will be the Bell Choir of the First Baptist Church, performing at 2:30 and 3:30 p.m. in the main gallery, and the William H. Evans Junior High Ensemble.

The public is invited, according to Special Events Committee Chairperson Mrs. John Bowen. There is no charge.

The Junior Program Committee, headed by Mrs. David
Northington, is in charge of the special Christmas program at
10 a.m., Dec. 9, sponsored by the WTMA.

After a tour of the Christmas exhibit, the Tech Teen
Theater will perform "Peter and the Wolf" for the children.

christmas at museum/add one

Santa Claus will arrive to lead the singing of Christmas carols.

There is no charge for children to WTMA members. Other children may attend for a charge of 25 cents.

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25-11-30-78

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CONTACT: Paula Lowe

LUBBOCK--The Texas Tech Women's Swing Choir directed by William G. Hartwell III will perform on Monday (Dec. 4) at 8:15 p.m. in the Recital Hall at the University Center.

The fifty-voice choir, now in its third year, will present a program of popular and classical songs. The popular sequence will include a medley from the Broadway musical "Annie," John Denver's "Fly Away," "I'm Leavin' It All Up To You," made popular by the Osmonds, "The Girl From Impanema," "Happy Heart," "California Dreamin'," and the Roger Miller tune, "Open Up Your Heart." Two Spanish Christmas pieces set in the contemporary idiom by Paul Csonka will make up the classical set.

Alice Kindle, Miss Tech Playmate 1977-78, will be featured in a selection from Saint-Saens' Piano Concerto in G minor, Op. 22.

Musical accompaniement will be provided by pianists Marilee
Hall and Rebecca Melendez, Skip Skinner on bass and string
synthesizer, Jim Clark, guitar, and Alan Shimm, percussion.
Choreography is by Diana Wheeler, sophomore dance major.

The public is invited at no charge.

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CONTACT: Becky Patterson

LUBBOCK--Excitement, color and competition--welded together by spirit--abound at Texas Tech University basketball games. And Texas Tech's official basketball spirit squad, the Pom Pon Girls, contribute to that atmosphere.

The ten-member organization, which combines talents of a cheerleading squad and drill team, cooperates with the Texas Tech cheerleaders and the Court Jesters musical group in promoting spirit at the games. They perform regularly during fight songs and time-outs and entertain during halftimes.

The squad was conceived four years ago by basketball coach Gerald Myers, who wanted to add color and excitement to basketball games and possibly increase the home-court advantage.

The squad was selected during tryouts in October, which attracted almost 50 Pom-Pon hopefuls. Six women selected are returnees from last year's squad, including Tamara Start of Amarillo, Kathy Williams, Plano, Sherri Chapman, Richardson, Toya Fikes, Lubbock, Ann Marguerite Moody, Longview, and Patti Rountree, Richardson.

New members include Vicki Beth Williams, Conroe, Margie
Toso and Susan O'Quinn, El Paso and Janice Hodge, Mount Pleasant.

pom-pon squad/add one

All members have experience in dance and choreograph their own material. They have a repertoire of approximately 15 dance routines which they perfect in three weekly practice sessions, each lasting from two to three hours.

Head pom pon girl Tamara Start said the group's dance repertoire consists of a variety of routines. "We do straight dancing, disco and jazz, novelty routines and some drill team arrangements," she said. "We also use props, including basketballs and pom pons."

The squad is sponsored by Dr. David K. Northington and his wife Pat. Northington is an associate professor of biological sciences and also sponsor of the Saddle Tramp spirit organization.

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CONTACT: Heinrich H. Steiner

LUBBOCK--When sailing gets rough for small businessmen of Lubbock and vicinity, when they cannot see the forest for the trees, or when they just need some complementary advice, they may count on a rescue organization which has proven its effectiveness for years.

Since 1970 business administration student teams under the guidance of faculty members at Texas Tech University, in cooperation with the district office of the Small Business Administration (SBA), have formed a Small Business Institute to assist local entrepreneurs.

The program, originally established on a pilot basis, has matured into an operation involving "some several hundred students counseling and aiding about 100 clients annually," according to Charles V. Neil, professor of business administration and program director.

Today more than 450 universities across the nation provide similar facilities. Objectives are to facilitate the administration of small businesses and to give students actual experience in dealing with actual management problems.

At Texas Tech both tasks are met. Students get the opportunity to apply their knowledge while earning academic credit, and small

businessmen, often unable to afford commercial counseling, receive free service, improving their enterprises.

One of the first successes occurred when a team of three students turned a faltering Lubbock restaurant, run by an inexperienced owner, into a profitable well regarded establishment within weeks, more than doubling its business volume.

"The student-management team helped me re-do my accounting set-up for taxes and set up a new bookkeeping system. They helped me to improve my accounting procedures and they continue to meet with me weekly to discuss and work out problems," the owner of the restaurant then said.

The students were also successful in aiding dry cleaning operators, independent craftsmen and other business people. One of the latest achievements involves a local businessman who was able to increase his monthly revenues by more than \$3,000, according to Dr. Bruce E. Collier, associate professor of business administration, who coordinates student teams specialized in solving accounting systems problems.

Currently one of his teams is working with a small enterprise to improve the settling of accounts receivable totaling about a quarter million dollars.

One of the major problems the junior, senior and graduate students face is communicating with their clients, who for the most part have no academic background.

"Many small businessmen are emotionally tied to their enterprises, lacking sometimes objective views necessary to survive, or are hesitant to disclose pertinent information," Neil said.

small business counseling/add two

However, these are isolated cases and do not limit the overall effectiveness of the institute. The positive results have encouraged government and university officials to consider expansion of the program.

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28-11-30-78

CHRISTMAS WISHES--Five-year-old Jesse Tello gets a behind-the-scenes peek at "A Kid's Christmas" exhibit to open on Dec. 3 at The Museum of Texas Tech University. An exhibit for kids of all ages, he is joined by, left, Mrs. Pearl Thompson, 2018 16th, and museum science student Sarah Foote of Sierra Madre, Calif. Elves in Santa's Workshop were made by members of the exhibit staff at The Museum. Jesse is the son of Mr. and Mrs. Pete Tello, 3002 31st Street. (Tech Photo)

29-11-30-78

TEXAS TECH POM PON GIRLS--Color, excitement and spirit are added to Texas Tech University basketball games by the Pom Pom Girls spirit squad, a group which performs during halftimes and time-outs. Pictured from left to right: front row--Ann Moody, Janice Hodge, Vicki Williams and Toya Fikes; back row--Patti Rountree, Kathy Williams, Tamera Stark, Susan O'Quinn and Sherri Chapman. Not pictured is Margie Toso. (Tech Photo)

SPIRIT ROUSER--Ann Marguerite Moody of Longview, sophomore public relations-advertising major at Texas Tech University, was selected as a member of the Pom Pon spirit squad at tryouts in October. The ten-member squad performs dance routines at Texas Tech basketball games and for Lubbock organizations.

Moody, a second-year member of the squad, is the daughter of Mr. and Mrs. J. C. Moody of 1905 Smallwood in Longview, and is a graduate of Longview Senior High School. (Tech Photo)

SPIRIT ROUSER--Tamara Stark of Amarillo, junior real estate major at Texas Tech University, was selected as head Pom Pon girl during tryouts in October. The ten-member Pom Pon squad performs dance routines at Texas Tech basketball games and for Lubbock organizations. Stark, a third-year member of the squad, is the daughter of Mr. and Mrs. F. Dee Stark of 3318 Otsego in Amarillo. She is a graduate of Amarillo High School, where she was a member of the Sandie Stepper drill team for three years, a student council representative and a member of the homecoming queen's court. (Tech Photo)

SPIRIT ROUSERS--Susan O'Quinn and Margie Toso, not shown, of El Paso, freshmen at Texas Tech University, were selected as members of the Pom Pon spirit squad at tryouts in October. The ten-member squad performs dance routines at Texas Tech basketball games and for civic organizations in Lubbock.

O'Quinn is the daughter of Mr. and Mrs. Bentley O'Quinn of 9909 Trinidad, and majors in dance. Toso, a recreation major, is the daughter of Mr. and Mrs. Kenneth Toso, formerly of El Paso and now living in Kuwait. Both O'Quinn and Toso are graduates of Eastwood High School on El Paso. (Tech Photo)

SPIRIT ROUSER--Kathy Williams of Plano, junior elementary education major at Texas Tech University, was selected as a member of the Pom Pon spirit squad at tryouts in October. The ten-member squad performs dance routines at Texas Tech basketball games and for Lubbock organizations. Williams, second-year Pom Pon girl and dance coordinator for the group, is the daughter of Mr. and Mrs. Bill H. Williams of 2724 Grandview in Plano. She is a graduate of Plano Senior High School, where she was a member of the drill team, student senate and cheerleading squad. She is an instructor for the National Cheerleading Association and traveled in the Midwest this summer teaching and judging high school pom pon squads. (Tech Photo)

SPIRIT ROUSER--Vicki Beth Williams of Conroe, junior fashion merchandizing major at Texas Tech, was selected as a member of the Pom Pon spirit squad at tryouts in October. The ten-member squad performs dance routines at Texas Tech basketball games and for civic organizations in Lubbock. Williams is the daughter of Mr. and Mrs. C. O. Williams of 28722 Enchanted Drive in Conroe. She is a graduate of Conroe High School, where she was homecoming queen, student council representative, and a member of the Golden Girls drill team and national honor society. (Tech Photo)

SPIRIT ROUSERS—Patti Rountree (left) and Sherri Chapman of Richardson, students at Texas Tech University, were selected as members of the Pom Pon spirit squad at tryouts in October. The tem—member squad performs dance routines at Texas Tech basketball games and for Lubbock organizations. Chapman, a second—year member of the squad, is the daughter of Mr. and Mrs. Harvie Chapman of 7647 Rolling Acres in Dallas. She is a sophomore elementary education major. Patti Rountree, in her third year as Pom Pon girl, is a junior physical education and mathematics major. She is the duaghter of Mr. and Mrs. Richard L. Rountree of 1302 Chippewa. Both women are graduates of Richardson High School and are members of the Delta Delta Delta sorority at Texas Tech. (Tech Photo)

SPIRIT ROUSER--Toya Fikes, graduate of Monterey High School in Lubbock, was selected as a member of the Texas Tech University Pom Pon spirit squad during tryouts in October. The ten-member squad performs dance routines at basketball games and for Lubbock organizations. Fikes, a third-year member of the squad, is the daughter of Mrs. Phyllis Fikes and Mr. Jay Fikes of 6105 Knoxville Drive. Fikes is a junior fashion merchandising major at Texas Tech, where she is a member of the Delta Delta Delta Sorority. (Tech Photo)

SPIRIT ROUSER--Janice Hodge of Mount Pleasant, a freshman finance major at Texas Tech University, was selected as a member of the Pom Pon spirit squad at tryouts in October. The tenmember squad performs dance routines at Texas Tech basketball games and for Lubbock organizations. Hodge is the daughter of Dr. and Mrs. D. R. Hodge of 508 Dellwood Drive in Mount Pleasant. She is a graduate of Mount Pleasant High School, where she was a member of the Tiger Dolls drill team. She was named Miss Mount Pleasant of 1978. (Tech Photo)

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LUBBOCK--Dudley Riggs' Brave New Workshop, a Minneapolis based theater group, will perform at the Texas Tech University Center Theater, Dec. 7, 8:15 p.m.

Audiences of the workshop must use their imagination in envisioning the action and setting because the presentation uses only lights, sound effects and pantomimed props.

The cast, performing nine shows a week, use improvisational sessions held after performances to sharpen their skills in pressure situations.

Riggs' group is a product of 16 years of continuous production and experimentation with the art of improvisation.

Riggs, a former circus performer, said he "ran away from the circus to join a family." His experience in juggling, vaudeville and television has helped the development of the group.

The workshop also produces satirical radio sketches for Earplay, a regular highlight of All Things Considered, broadcast weekly across the country by National Public Radio stations.

They also have a comedy album, "Radio Comics," on the ASI labels.

Tickets are available at the University Center Ticket Booth at \$2.50 for students and \$5 for the public.

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CONTACT: Gail Molsbee

LUBBOCK--Trumpet fanfares and medieval singers and the smell of wassail and plum pudding will fill the Texas Tech University Center (UC) Ballroom with the yuletide spirit, Dec. 7-9.

The Department of Music and the UC will have the second annual madrigal dinner nightly at 6:30.

"Last year two nights sold out, so this year we will try
to fill demands by having a dinner for three consecutive nights,"
said Cheryl A. Shubert, UC coordinator of student activities.

Lead singers for the madrigal choir are students Mike

Medley, John Priddy, Terry Cook, Mark Moeller, Helen D. Rickofski,

Candy McComb, Shanon Campbell and Sarah Watkins.

Gene Kenney, music coordinator for the evenings, said,
"Trumpets and singers played an important part in the 15th
century castle dining halls. They announced courses as well as
entertained."

Kenney added that the music for the event will help create an atmosphere of "a great dining hall."

Candles will shine over Christmas evergreen, colorful banners and other decorations. The dinner will be served family style and each person at a table will have "an enjoyable duty"

madrigal dinner/add one

during the dinner, according to Shubert.

"Because of these duties and the schedule of music and meal, reservations must be kept timely," Shubert said. "We will open the doors at 6:30 p.m. and close promptly at 6:50 p.m. so the dinner schedule is not disrupted."

"Tickets are selling rapidly but we still have good ones left," Shubert said. Tickets are available at the UC ticket booth at \$7.50.

Servers and cooks are part of the UC staff. They will be attired in the traditional medieval dress during the dinner.

\$100,000 ENDOWMENT FOR SCHOLARSHIPS -- Allan H. Carruth, second from right, hands a check for \$100,000 to Dr. Charles S. Hardwick, Texas Tech University vice president for academic affairs. The money from the Houston Livestock Show and Rodeo will endow agricultural sciences scholarships, awarded in large part on the basis of financial need. Coming from Houston for the presentation were Carruth, president of the Livestock Show and Rodeo, its general manager, E. C. "Dick" Weekly, left, and its vice president, Freeman Dunn, right. (TECH PHOTO)