

[illegible]

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Gail Molsbee

LUBBOCK--Three members of the Texas Tech University Department of History will participate in the program of the annual meeting of the American Historical Association in San Francisco on Dec. 28-30.

They are professors James E. Brink, John R. Wunder and Allan J. Kuethe.

Brink, a specialist in Renaissance history, will present a paper on "Languedoc: The Crown and the Provincial Estates, 1515-60" in a session on "New Monarchs and Their Parliaments."

Wunder will comment on papers at a session on "The Evolution of Family Law in England and America." He specializes in western United States history.

Kuethe, a Latin American historian, will discuss "Bourbon Reforms: Colonial Economics Policy, 1759-1808."

-30-

1-12-11-78

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Becky Patterson

LUBBOCK--Dr. Camille G. Bell, chairperson of the Department of Home Economics Education at Texas Tech University, received a double honor when the American Vocational Association (AVA) announced establishment of a fellowship in her honor and the Governor's office designated her an official "Yellow Rose of Texas."

The "Yellow Rose" recognition was accompanied by the presentation of nine yellow silk roses from representatives of organizations with which Bell has worked during her association with AVA. All presentations were made at a luncheon at AVA's annual convention in Dallas this week.

AVA presented Bell with a certificate acknowledging establishment of the \$2,000 fellowship to be presented annually to a home economics doctoral student. The scholarship may be applied to any school the recipient wishes to attend.

Bell's nomination was submitted by the Vocational Homemaking Teachers Association of Texas and the Home Economics Education faculty of Texas Tech. The semi-annual honor is named for selected members of AVA's home economics division. Bell has been division vice president for three years.

AVA is a national 55,000-member professional organization

-more-

bell/add one

promoting vocational education to prepare youths and adults for employment in home economics-related fields.

The "Yellow Rose" designation came in the form of a certificate signed by Gov. Dolph Briscoe and was accompanied by presentations of yellow silk roses from AVA-related organizations on the national, state and local levels in recognition of Bell's contributions to the groups.

National recognition was accorded by Dean Griffin of the national AVA office and Dr. Aleene Cros, past president of AVA and chairperson of home economics education at the University of Georgia.

Elizabeth Smith, state director of the vocational home economics division of the Texas State Education Agency, and Betty Penny, president of the Vocational Home Economics Teachers Association of Texas, presented roses on behalf of state organizations.

Bell also was honored by representatives of the faculty and students of Texas Tech. She received roses for her efforts in establishing the Home Economics Instructional Materials Center at Texas Tech and for her work with home economics faculty and students.

Erie Etta Williams, coordinator of vocational home economics for Lubbock public schools, saluted Bell for her efforts in secondary school education.

Bell's daughter, Caroline, a teacher in Fort Worth public schools, honored her mother for contributions to the Bell family.

The professor also was given a bound book of letters praising her efforts. The title page is inscribed with a drawing of a yellow rose.

-more-

bell/add two

Bell joined the Home Economics Education Department faculty at Texas Tech in 1963 and five years later was selected chairperson by the department's faculty. She is a pioneer in the field of microteaching, and her monograph on that subject has been requested by university graduate students and professors in the U.S. and 17 foreign countries.

She also served as consultant to the Institute for Development of Educational Activities, a company which developed individual learning packets in the early 1970's. She is author or co-author of seven articles in juried journals and has assisted in writing 22 publications produced at the Texas Tech Instructional Materials Center.

From 1969 to 1977 she received research grants amounting to \$827,000. She has presented professional research papers at five national conferences.

Bell was graduated from Crowell (Texas) High School and was awarded bachelor, master and doctoral degrees from Texas Tech. She also has studied at Baylor University, The University of Texas at Austin and has done graduate work at Michigan State University and postdoctoral work at Colorado State University. She holds memberships in six home economics and related professional organizations and four honor societies.

She was recognized as "Home Economist of the Year" by the Texas Home Economics Association in February of 1978.

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Dan Tarpley

LUBBOCK--The Lubbock Board of Realtors and the board's Women's Council will present scholarships to four Texas Tech University students at a noon luncheon on Friday (Dec. 15).

Recipient of the \$300 scholarship from the Board of Realtors will be Paul W. Kelly, senior finance student. Women's Council \$250 scholarships will go to Cynthia S. Allen, home economics major, and Willis B. Pierce and Alfred Allen Benson, junior real estate majors in the College of Business Administration.

-30-

3-12-11-78

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: B. Zeeck

ATTN: Building and Real Estate Editors

LUBBOCK--People who live in glass houses or occupy glass office buildings need to have either a lot of luck or the benefits of current engineering.

The reason is that some window glass used in the 1970s is designed with 1950s technology. Construction, economics and human factors, meanwhile, have changed over the past 20 years.

Texas Tech University engineers explain that in the 1950s, plate glass usually was used for relatively small windows inset into walls. Today's bolder designs call for glass cladding of entire buildings--even tinted walls of glass to reflect the passing scene.

Problems arise because this expanse of glass is more susceptible to damage in severe windstorms. Portions can fall off and endanger passersby. In addition to human injury, new building designs using more glass increase possible hazards for costly, sophisticated office equipment.

In the 1950s a window could break and windswept water could damage typewriters, desks, even copying machines. But this office equipment cost less and depended more on mechanical operation than today's highly sophisticated electric typewriters, photocopiers, electronic calculators and computers.

-more-

glass/add one

Dr. Joseph E. Minor, director of Texas Tech's Institute for Disaster Research, is confident, however, that architects and builders can "have their glass and sleep well, too."

With other Texas Tech civil engineers he has been working to define the strength of glass and causes for breakage. In the past eight years they have broken hundreds of glass panes. They have shot steel pellets, representing wind-blown gravel and hail, at the panes. They have exerted pressure to simulate the effects of high winds on glass.

There is nothing haphazard in their efforts. Each tested pane carries a precise record of testing method and performance. They have published their findings on the relationships between the weight of wind-borne missiles like gravel, the degree of temper in glass and glass thickness.

The research in the Institute for Disaster Research relates primarily to wind engineering problems. Minor originated the studies. His research associate is W. Lynn Beason, civil engineering doctoral candidate.

"New interest in glass breakage," Minor said, "reflects two considerations. The public is endangered when glass in a tall building fails and falls to the street or is blown into offices.

"The second consideration is economic. It costs a great deal to repair or replace sophisticated office equipment, and there is unfortunate damage, as well, to the reputations of architects, builders and suppliers when windows fail."

Major interests are glass failures caused by wind alone; glass destruction attributed to wind-borne missiles, gravel and

-more-

glass/add two

hail; and hail damage to solar collectors and reflectors. Work is supported by a new three-year \$344,000 National Science Foundation grant, by Department of Energy contracts and by industry.

To assist in application of findings an advisory committee of engineers, architects and glass designers is counseling the researchers on ways of transferring results into professional practice.

Already the engineers have discovered that use of thicker glass makes less difference in breakage than use of tempered or heat-strengthened glass. The critical thickness varies with the glassmaking method. Annealed glass is the weakest, heat-treated stronger and fully tempered strongest.

What Minor and Beason seek is a process for defining the strength of glass. They expect the process to take into account three factors: time, geometric properties and physical properties of glass.

Glass windows can break in winds of only 50 miles per hour, and the gustiness of wind can affect breaking quality, Minor explained. In cities winds surge through corridors formed by high buildings. Changing wind speeds in these corridors could be an important factor in glass durability.

Minor said the full effects of wind on glass probably can be determined by reviewing and analyzing earlier studies. Stress analysis should solve geometric problems. Whether a pane is square or rectangular affects strength. Dimensions of a rectangular piece also have some bearing on strength.

Beason is especially interested in time problems. The

-more-

glass/add three

chemical composition of glass surfaces change with age, he said, and degradation apparently begins as soon as panes leave the assembly line. The most important factor, however, probably is weathering.

While Beason is sure glass weakens as it is exposed to weather, the downward strength curve is not an even line. His study of old and new glass may tell him why.

The public can help, Minor said, by donating old panes in quantities of 40 or more units of the same size and age. Such contributions can be tax-deductible.

cutline-----

CAUSE OF GLASS BREAKAGE--W. Lynn Beason, left, and Dr. Joseph E. Minor, Texas Tech University civil engineers, examine the flaw in a 5 by 8-foot glass panel they caused to break with pressure. In every instance, all cracks and breaks emanate from one flaw in the panels, the researchers have found. The engineers' research is aimed at defining the strength of glass and causes for breakage in severe windstorms. (Tech Photo)

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeack, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Becky Patterson

LUBBOCK--A campus-wide leadership conference designed to promote personal growth of organization leaders and other interested persons will be held in the Texas Tech University Center on Jan. 20.

Mary B. Reeves, assistant director of Student Life, said registration deadline for the all-day conference on "Dimensions of Development and Leadership" is Dec. 22. The fee is \$3.50.

"Participants can learn to be more assertive when dealing with other people," Reeves said. "They can also learn how to deal more effectively with stress, whether the source of the stress is their job, roommate, professor or parent. There will also be sessions on communication techniques and listening skills."

Registrants may choose from 11 discussion sessions dealing with assertiveness, value clarification, motivation, activity planning, listening skills, publicity, stress, leadership, record keeping and minority involvement.

Keynote speaker will be Dr. Robert Leach, vice president of Student Affairs at Florida State University. His address will be followed by discussion sessions, a buffet luncheon and get-acquainted time for participants.

-more-

conference/add one

Discussion sessions will be conducted by Texas Tech faculty, including Drs. Paul N. Dixon and Dayton Y. Roberts of the College of Education, Drs. Michael C. White and Vincent P. Luchsinger of the Management Area of the College of Business Administration, Ron Gesky and Prof. Ralph L. Sellmeyer of the Mass Communications Department, and Mrs. Carol A. Prior, University Center Cultural Events adviser.

Students registering for the conference will be asked to choose five or six sessions in order of preference. A computer then will assign participants to their requested sessions, which may be offered several times during the day in accordance with demand.

The semi-annual event is sponsored each year by various campus departments.

The conference begins at 9 a.m. and continues until 5 p.m. Information may be obtained from the Office of Student Life, 742-2192.

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Paula Lowe

LUBBOCK-- Spring registration materials and schedules of classes at Texas Tech University may be obtained at West Hall in the second floor conference room.

Distribution of these materials will continue through Friday (Dec. 15) from 1-6 p.m. It will resume on Tuesday, Jan. 2, through Friday, Jan. 5, and Monday, Jan. 8, from 8 a.m.-5 p.m. During registration for the spring semester, Jan. 9 and 10, materials will be available from 7:30 a.m. to 6 p.m.

-30-

7-12-13-78

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: B. Zeeck

EDITORS' ADVISORY: Among the Department of Energy officials who will attend ground breaking ceremonies for the Crosbyton Solar Energy Project Analog Design Verification System (ADVS) Thursday, Dec. 14, will be Dr. Bennet Miller. DOE has provided us with this background:

MILLER APPOINTED SOLAR OFFICE PROGRAM DIRECTOR

Dr. Bennett Miller has been named program director of DOE's Office of Solar, Geothermal, Electric and Storage Systems, under the Assistant Secretary for Energy Technology. Dr. Miller will provide overall management for the technology development programs handled by the office. He has been acting director of those programs since October 1977.

From 1976-77 Dr. Miller served as director of the office of plans, budgets and program implementation for the Energy Research and Development Administration's (ERDA) Assistant Administrator for Solar, Geothermal and Advanced Energy Systems, and directed ERDA's inexhaustible energy resources study.

Dr. Miller joined the Atomic Energy Commission in 1970 as a physicist for the Division of Controlled Thermonuclear Research and from 1974-76 held successive management positions in that division and in ERDA's Division of Magnetic Fusion Energy.

He received a doctorate in physics from Columbia University in 1965 and has held academic positions at Columbia, Fairleigh-Dickinson, and Ohio State universities. He was also a consultant to the Battelle Memorial Institute.

Andrea Davey, 202/252-5806
Department of Energy
Office of Public Affairs
Washington, D.C. 20585
November 20, 1978

8-12-13-78

CONGRESSMAN JIM WRIGHT

Of Fort Worth, Texas

Majority Leader, U. S. House of Representatives

When Congressman Jim Wright was elected Majority Leader of the House of Representatives on December 6, 1976, he had been seasoned by more than 27 years of public service--as a small-town mayor, state lawmaker, and U. S. representative.

Wright was born in Fort Worth, Texas, the city he represents in Congress today. He finished public school in 10 years and was on his way toward wrapping up college in three years when Pearl Harbor struck.

Enlisting in the Army Air Corps, Wright received his flyer's wings and a commission at 19. He flew combat missions in the South Pacific and holds the Distinguished Flying Cross as well as the Legion of Merit.

After the war, Wright was elected to the Texas legislature at 23. At 26, he became the youngest mayor in Texas when voters chose him to head the city government in Weatherford, his boyhood home.

Elected to Congress at 31, he presently is serving his 12th consecutive term and is the author of major legislation in the fields of energy, foreign affairs, economic development and water conservation. Wright is known in Washington as one of the most effective and articulate members of the House. Often chosen to represent the United States in important international meetings, Wright served 14 successive years as a delegate to the U. S.-Mexico Interparliamentary Conference.

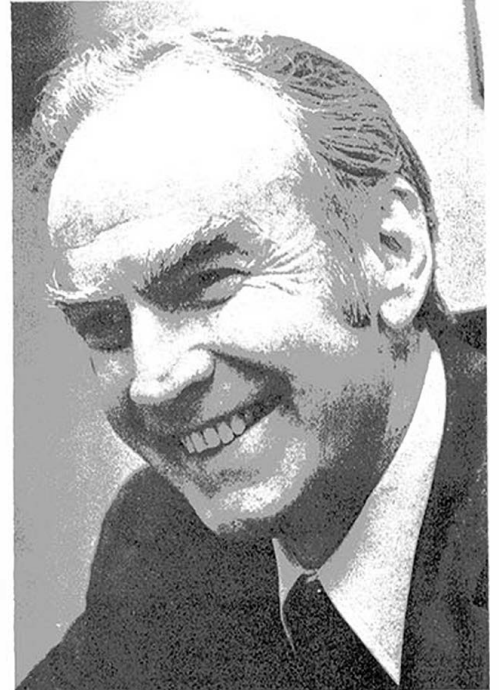
In 1975 he was appointed chairman of the House Democratic Task Force on Energy and the Economy and led in the development of historic Congressional programs in these fields.

In 1976, after serving three years as Deputy Democratic Whip, Wright was elected Majority Leader, the House post which ranks second only to that of the Speaker, with whom he works closely on day-to-day matters of legislative scheduling and on long-range Democratic Congressional policy.

For his work in Congress, Wright has won high praise. John F. Kennedy once said, "I know of no other city that's better represented in the Congress of the United States than Fort Worth." And Lyndon B. Johnson publicly described Wright as "one of the greatest Congressmen in the United States."

As evidence of the esteem in which he is held by his constituency, Wright drew no opponent at all in either primary or general elections for 10 years beginning in 1964. Then, challenged in the 1974 general election by an extremely well-financed opponent, Wright received 79 percent of the vote, widely carrying every one of the 123 precincts in his district. His margin of victory in the 1976 election was similarly impressive.

A prolific writer, he has authored three widely-acclaimed books, You and Your Congressman, The Coming Water Famine, and Of Swords and Plowshares, and collaborated with several colleagues on a fourth, Congress and Conscience. In addition, he has written articles for Harper's, Saturday Evening Post, This Week and Coronet.



Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeack, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Gail Molsbee

FOR RELEASE at noon, Thursday, Dec. 14

LUBBOCK- Brenda Murray Weir of Jal, N.M., was recognized Thursday (Dec. 14) at the Lubbock Advertising Federation luncheon as the highest ranking 1977-78 Texas Tech University advertising graduate.

The August 1978 graduate finished with a 4.0 grade point average, the first recipient in the 26-year history of the award to achieve that average. Her name will be added to the plaque bearing the names of the recipients. She received a \$200 cash award.

The 1975 valedictorian in Jal High School last year was recognized by the Texas Tech Dads Association for achieving the highest scholastic standing in the College of Arts and Sciences. While a student, she sold advertising for "Exordium," a campus magazine, and during the summer of 1976 she worked on advertising layouts for "The Jal Record."

She was vice president of the student chapter of the American Advertising Federation and a member of the student chapter of Women in Communications. She was president of Alpha Lambda Delta honorary and member of the President's Council and Kappa Tau Alpha honorary. She was 1977-78 president of Texas Tech's chapter of Alpha Delta Pi and a national collegiate delegate for the social sorority. She was a member of Rho Lambda, a Panhellenic honorary, and TTU Panhellenic, a sorority council.

She is a member of the "National Dean's List" and listed in "Who's Who in American Colleges." During 1977 she was a nominee for Miss Texas Tech.

-more-

weir / add one

She is employed by the university's Division of Continuing Education as office coordinator and manager.

Mrs. Weir is the daughter of Mr. and Mrs. Joe B. Murray, Box 848, Jal, N.M. She is the wife of Sam D. Weir of Joshua, a December 1978 graduate candidate.

-30-

9-12-13-78

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence: telephones. Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Dan Tarpley

LUBBOCK--A total of \$750 in scholarships were presented early this month to two Texas Tech University Mass Communications students by the Texas Broadcast Education Foundation, Inc., (TBEF) and KCRS Radio (Midland).

The \$500 scholarship from KCRS, owned by Wendell Mayes Jr., was presented to Helen Lukers, junior telecommunications major, daughter of Dr. and Mrs. Thomas B. Lukers of Route 1, Lufkin. Miss Lukers was chosen for the scholarship by TBEF. She is a 1976 graduate of Lufkin High School and attended Navarro College at Corsicana two years.

The TBEF \$250 scholarship was presented to Laura Mason, senior telecommunications major who was graduated from Bellville High School. Her parents, Mr. and Mrs. Marshall Mason Jr., live at 1600 W. Michigan, Midland.

The awards were presented on behalf of the donors by Dr. Dennis A. Harp, director of telecommunications in the Department of Mass Communications at Texas Tech.

cutline-----

SCHOLARSHIP RECIPIENT--Texas Tech senior telecommunications major Laura Mason, Bellville high school graduate and daughter of Mr. and Mrs. Marshall Mason Jr., of 1600 W. Michigan, Midland, receives a \$250 scholarship from the Texas Broadcast Education Foundation, Inc. The presentation was made by Dr. Dennis A. Harp, director of telecommunications in the Department of Mass Communications at Texas Tech. (Tech Photo)

cutline-----

SCHOLARSHIP RECIPIENT--Helen Lukers of Lufkin, Texas Tech telecommunications junior and former student of Navarro College, Corsicana, receives a \$500 scholarship awarded by KCRS Radio, Midland. The presentation was made by Dr. Dennis A. Harp, telecommunications director in the Texas Tech Mass Communications Department. Miss Lukers is the daughter of Dr. and Mrs. Thomas B. Luker of Route 1, Lufkin. She is a 1976 graduate of Lufkin High School. Miss Lukers was chosen for the scholarship by the Texas Broadcast Education Foundation. (Tech Photo)

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Heinrich H. Steiner

LUBBOCK--Diminishing revenues, management efficiency and collective bargaining--these contemporary issues dominate business as well as educational institutions.

To investigate the effects of those and other factors on the practice of teacher supervision in public schools Dr. Charles A. Reavis, professor of education at Texas Tech University, has been awarded a \$30,000 grant. The funds were awarded by the Association for Supervision and Curriculum Development (ASCD), a national organization of teachers, professors and supervisors.

ASCD provides leadership to its members on organization of school systems challenged by financial problems due to declining enrollment, adoption of new management styles, increasing workloads of principals, and other considerations.

Reavis and his national 25-person team, which includes Dean Robert H. Anderson of the Tech College of Education, will survey a random sample of 200 school districts from across the nation in regard to quality, quantity and form of teacher supervision at individual districts.

A second phase of the project will ask a national sample of

-more-

teacher supervision/add one

university professors of supervision to name school systems which they consider to have outstanding programs in school supervision. These systems will subsequently be examined by the researchers, who will use a scale of equal standards to work out a profile for an objectively optimal system.

The findings of the one-year study will help ASCD to develop a central position or guidelines for its members to help them in promoting effective and unified supervision policies by local school boards.

11-12-14-78

TexasTechNews

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: B. Zeeck

LUBBOCK--U.S. House Majority Leader Jim Wright of Texas will give the keynote address Thursday (Dec. 14) at groundbreaking ceremonies for the Crosbyton Solar Energy Project Analog Design Verification System (ADVS).

Ceremonies will take place at 11 a.m. at the project location two miles south of Crosbyton on Farm Road 651. U.S. Rep. Jack Hightower of Wichita Falls will speak at the event.

High ranking officials of the Department of Energy (DOE) will attend, along with Crosbyton city officials and representatives of Texas Tech University, which holds the DOE contract for designing the project, representatives of E-Systems, Dallas, the primary subcontractor, and other political and industry leaders.

Roy K. Furr Jr., vice chairman of the Texas Tech Board of Regents, will speak for the university.

DOE representatives will include Deputy Director Bennett Miller, Dr. Howard S. Coleman, deputy director for Solar Technology, and, from Albuquerque, D. K. Nowlin, director of the Special Programs Division, Technical Projects Officer George Pappas and E. L. Harley. Dr. George Rhodes, formerly technical projects officer, also will attend.

A brief reception will take place at 10 a.m. in Crosbyton's

-more-

Crosbyton/add one

Pioneer Memorial Building, and dignitaries will proceed together to the groundbreaking site.

The ADVS is scheduled for completion next November, with testing and analysis to continue through March 1980, according to Project Director John D. Reichert of Texas Tech's electrical engineering faculty.

"The ADVS will include the largest single solar collector ever built," he said in referring to the 65-foot mirror-surfaced dish designed to collect and focus the sun's rays. That dish is only a test facility, however, for the ten 200-foot solar gridirons proposed eventually for the Crosbyton project.

"Results and data from the ADVS," Reichert said, "will be used for the final design of the 5 megawatt solar-thermal-electric plant for Crosbyton."

The DOE and Texas Tech are working with a \$2.5 million contract for additional study and construction of the ADVS. The final system is being designed to supply electricity for the town of Crosbyton, a city of about 2,500 residents.

One of the major purposes of the ADVS is to give engineers and scientists an opportunity to study the properties of the steam the system produces.

The receiver for the system is designed as a spiraling pipe wrapped around a cylinder that moves so as to stay in a line coinciding with the line of focus of the sun's rays. Water in the pipe would be converted to steam, and the steam would exit at about 1,000 degrees Fahrenheit. The steam derived from the heated water would drive a turbine to produce electricity.

-more-

crosbyton/add two

Eventually, if feasibility studies indicate the usefulness of full-scale construction for the system, Crosbyton would have a hybrid solar-fossil fuel system.

The Crosbyton Project is the only one of its kind in the nation and only one of two based on similar concepts in the world. The other, based on a much smaller scale system, is in France.

A tour of Mrs. Georgia Mae Ericson's solar home, beginning at 1:30 p.m., will depart from the Pioneer Memorial Building in Crosbyton. Transportation will be furnished for any who care to tour the home, located about 13 miles from the town.

Texas Tech News

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

Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: B. Zeeck

LUBBOCK -- Construction began with a groundbreaking ceremony Dec. 14 on an Analog Design Verification System (ADVS) for the unique Crosbyton Solar Energy Project.

Texas Tech University has been working more than two years on the project's design, funded by \$3.9 million through a Department of Energy (DOE) contract. If results are positive from the ADVS, scheduled for completion in a year, the DOE can fund full-scale construction which would make Crosbyton the first city in the world to get its energy from the sun.

House Majority Leader Jim Wright of Texas attended the groundbreaking ceremonies and said that four ingredients brought about the Crosbyton project: local initiative among the leaders in the 2,500-population West Texas town; an educational institution, Texas Tech University, exemplifying the fact that education and democracy advance hand in hand; private enterprise in E-Systems, the Dallas corporation which is the primary subcontractor responsible for construction of the ADVS; and a responsive federal government.

If the project moves forward to full-scale operation, Wright said, "we shall have made a significant breakthrough" in one solution to the nation's energy needs.

"Solar energy has the greatest potential answer of all," he said. "Every day, the sun gives us enough energy to last 15 years, if we only had the wisdom to trap and store it."

Dr. Bennett Miller, DOE program director of Solar, Geothermal, Electric and Storage Systems, told a luncheon audience of about 150 that "this country is going to run out of energy. It's just a matter of when."

-more-

crosbyton / add one

He predicted that the crisis would last 25 to 30 years, and that in that period solar energy would be developed as one solution.

A handicap to the development of solar energy, he indicated, was that equipment to harness the sun's energy "comes in big sizes" and that takes getting "used to."

"Ninety percent of solar's problems will be solved by enthusiastic people," he said. "The best we can do (in DOE) is recognize where the talent is, where the enthusiasm is." He called Crosbyton "one of the real centers of enthusiasm."

Dr. Howard S. Coleman, director of the DOE Division of Solar Technology who also attended the groundbreaking, has been involved with the Crosbyton project since its inception in 1976.

"Solar energy can supply a very substantial portion of our energy needs and, in the future, there won't be any option but to use it," Coleman said. "It could supply as much as 25 percent of our overall needs and 80 to 90 percent of our needs in special places, irrigation for instance."

Project Director John D. Reichert said the ADVS should be completed by November 1979, with testing and analysis to continue through March 1980.

The ADVS will include the largest single solar collector ever built," he said. He referred to the 65-foot mirror-surfaced dish designed to collect and focus the sun's rays. That gridiron will be the test facility for ten 200-foot solar gridirons proposed for the final stage of the project, a 5 megawatt solar-thermal-electric plant for Crosbyton.

One of the major purposes of the ADVS is to give engineers and scientists an opportunity to study the properties of the steam the system produces.

Project manager is Dr. Herbert J. Carper Jr. of Texas Tech's mechanical engineering faculty. More than 30 scientists and engineers in eight university departments are working on the project. Reichert is a member of the electrical engineering faculty.

cutline-----

SOLAR ENERGY GROUNDBREAKING--Crosbyton even let school children leave their classes Dec.14 for the groundbreaking for an Analog Design Verification System (ADVS) for the city's Solar Energy Project. The 65-foot dish for the ADVS will be the world's largest in new technology to harness solar energy. Completion date for the ADVS is November 1979, with studies to continue through March 1980. Digging, left to right, are: Crosbyton Mayor George Witt; Dr. Bennett Miller of the Department of Energy; Crosbyton Project consultant T. J. Taylor; U.S. Rep.-elect Charles Stenholm, Stamford, Tex.; Roy K. Furr, vice chairman of the Texas Tech University Board of Regents; Crosbyton City Secretary Norton Barrett; Project Director John D. Reichert, and U.S. Rep.-elect Kent Hance, Lubbock. (Tech Photo)

Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136
Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: B. Zeeck

ATTENTION PUBLIC SERVICE DIRECTORS: Texas Tech University would appreciate any time you can give this announcement between now and Jan. 2, 1979, at 7 p.m.

30 SECONDS

COLLEGE ISN'T ONLY FOR KIDS. IT'S ALSO FOR THE OVER-25 STUDENTS WHO EITHER NEVER WENT BEFORE OR WHO WANT TO RETURN TO A UNIVERSITY CLASSROOM. TEXAS TECH UNIVERSITY INVITES WOULD-BE MATURE STUDENTS TO LEARN MORE ABOUT ENTERING COLLEGE, WHAT IT OFFERS FOR NEW CAREERS OR CAREER ADVANCEMENT. GET ANSWERS TO YOUR QUESTIONS FROM 7 to 9 P.M., JANUARY 2ND, IN BUILDING X-15, ACROSS FROM THE MUNICIPAL AUDITORIUM. FOR INFORMATION, CALL TECH'S OFFICE OF STUDENT LIFE, 742-2191.

-30-

13-12-15-78

NOTE TO MEDIA:

We are delivering new Texas Tech University campus telephone directories. Due to many, many printing errors we were for a time undecided whether to distribute them; however, the final decision was to do so. We strongly recommend you keep your old ones, too. By having both available you may find them helpful. We regret we received such a woefully poor printing job.

UNIVERSITY NEWS AND PUBLICATIONS