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DATE	Stories and Cutlines		Locals 75	Reg. Dailies 25	A-37; B-39 Reg. Weeklies	50 M's 15	Reg. Radio	X-List 26	Adj. Counties 15	Hometowners	PSA's	Ag list	Ag boxes/16	Misc	Explanations
1-11-16-81	Charles V. Neil	100	✓	✓											Carrie w/mugs
2-11-16-81	Caption -- Taylor Trust													3	Cheryl 8x10's
3-11-16-81	Museum	100	✓						✓						Cheryl Joe B.
4-11-16-81	Tang Dynasty	100	✓						✓						Cheryl Joe P.
5-11-17-81	Petroleum Engr.	12													Preston
6-11-17-81	caption - Pet. Engr.	12													Preston 5X7
7-11-17-81	MIS	100	✓			✓									Carrie
8-11-17-81	Faculty Recognition	15	✓												Cheryl
9-11-18-81	Laser Detection	125	✓	✓		✓								12	Carrie
10-11-19-81	Library	25	✓												Preston
11-11-19-81	Dewey Stroyer									✓					Preston
12-11-19-81	Legal Research	150	✓	✓	✓										Harvey
13-11-19-81	Angus Scholarship	75	✓											1	Preston
14-11-19-81	Small Schools	150	✓	✓		✓								22	Cheryl
15-11-20-81	Fund Drive	75	✓											4	Bee
16-11-20-81	Yarn Costs	175	✓	✓	✓									25	Carrie
17-11-20-81	Wildlife Master's	100	✓	✓							3				Carrie
18-11-23-81	Michelangelo frescoes	125	✓	✓										30	BTZ

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

CONTACT: Carrie White

LUBBOCK--Charles V. Neil, management professor at the Texas Tech University College of Business Administration, has been appointed to the state Task Force on Small Business by Texas Gov. William P. Clements Jr.

The 25-member task force, made up of small business owners, college and university professors, labor representatives, elected officials and interested citizens, is charged with aiding development of small businesses within the state.

This is one of 15 task forces which are to be established by the governor in planning for the future of Texas.

"The two major problems facing small businesses today are the ability to get and keep capital and government regulations which apply to both large and small businesses," Neil said.

Recommendations by the task force on laws, opportunities and state agencies' involvement in small business will be made to the governor by Jan. 1, 1983.

Director of the Texas Tech Small Business Institute, Neil is interested in establishing a Small Business Development Program for the state of Texas. He plans to work for enlarging the Small Business Institute Program, for increasing participation by Chambers of Commerce throughout the state in assisting small business and for expanding business advocacy.

Prior to his retirement from the U.S. Air Force in 1970, Neil served as staff officer with Supreme Headquarters, Allied Powers Europe, and was responsible for plans and operations relating to the employment of nuclear weapons and delivery systems for NATO.

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During his 30-year military career, Neil rose to the rank of colonel. Additional military commands included commander, 99th Strategic Bombardment Wing at Westover Air Force Base in Massachusetts; commander, 416th Bombardment Wing at Griffis Air Force Base in Rome, N.Y.; member of joint staff for the Joint Chiefs of Staff, Pentagon; commander, B-47 Bomb Wing at Whiteman Air Force Base in Missouri; and base commander of the Whiteman base. He received 35 decorations and awards during his military career.

Neil received an undergraduate degree in general studies from the University of Maryland in 1970, graduating with high honors. In 1972, he earned a master's in management at Texas Tech.

caption-----

HAPPY STUDIES--The Jewell L. Taylor Family Trust of Fort Worth has awarded a graduate grant for tuition, books, room and board to Jo Ann L. Shroyer, an instructor in the Texas Tech University Department of Family Management, Housing and Consumer Science. Shroyer, from left, accepts a check from Gayle Wilson, chairperson of the Jewell L. Taylor Scholarship Committee. The statewide competitive grant is awarded for the pursuit of graduate studies. Shroyer is working on a doctoral degree in housing at Oklahoma State University. (TECH PHOTO)

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CONTACT: Cheryl Duke

LUBBOCK--The Museum of Texas Tech University will close for the Thanksgiving Holiday Wednesday afternoon and all day Thursday, Nov. 25-26.

The Museum will open 1-4:30 p.m. Friday, Saturday and Sunday, Nov. 27-29.

Christmas holiday hours will begin Dec. 23. The Museum will be open 1-4:30 p.m. that day and closed Christmas Eve and Christmas Day.

The facility will open 1-4:30 p.m. Dec. 26-Dec. 30. It will be closed New Year's Eve and New Year's Day and will open 1-4:30 p.m. Saturday and Sunday, Jan. 2-3.

3-11-16-81 -30-

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CONTACT: Cheryl Duke

LUBBOCK--Scroll paintings, fine silk and brocade and Buddhist sculpture, all arts of the Chinese Tang Dynasty (618-907 A.D.), will be discussed during a 10 a.m. lecture Tuesday, Nov. 24, at The Museum of Texas Tech University.

Many of the original art pieces of the period, particularly scroll paintings and murals, perished and are known today only through third- or fourth-hand copies. Some of the silk works have survived 1,200 years.

The lecture, the seventh in a series of fall seminars on Chinese Art sponsored by the Women's Council of the West Texas Museum Association, will be given by Rabbi Alexander S. Kline, D.D., and illustrated with prints from his private art collection. Admission is $2.

The early strength of the Tang Dynasty was built on the well-developed communication system and administrative methods of its predecessors. By the mid-seventh century, the Tang controlled large portions of Korea, Manchuria, Mongolia, Tibet and Turkistan. Its territorial expansion was accompanied by a tremendous cultural development. The cultural influences of the Tang reached even to Japan and Annam (central Vietnam).

Tang generals opened a camel caravan route across central Asia and Chinese silk merchants traveled the route, returning to China with exotic wares and gifts.

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Foreign traders, including Buddhists, Christians, Manicheans and Jews, brought their rare items to China and Tang artists adapted these items to bear their own marks.

The period was a high point of Buddhist art and also of court painters and poets. Sculpture flourished, and painting was considered superior. Fine silks and brocades were worn by court beauties and the extravagant Empress Wu, who is said to rival Britain's first Elizabeth for energy and cunning.

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CONTACT: Preston Lewis

LUBBOCK--A $4 million, tenfold expansion of Texas Tech University's Petroleum Engineering Building was kicked off with groundbreaking ceremonies Nov. 13.

Scheduled for occupancy in the summer of 1983, the expansion will help Texas Tech's Petroleum Engineering Department cope with record enrollments.

The nation's need for energy and the resulting boom in the petroleum industry were cited by ceremony speakers as evidence of the great need for the 63,200-square-foot expansion.

Groundbreaking speakers included Preston Smith, chairman of the Coordinating Board, Texas College and University System, and Joe Luckett, vice president for administration and planning, Union Oil Co. of California.

Former Texas Gov. Smith said, "This building when finished will serve present generations, but I think its greatest benefit will be for future generations."

Luckett, a 1948 Texas Tech petroleum engineering graduate, said record numbers of oil well drillings and of seismographic activities foreshadow a steady need for petroleum engineering graduates in the years ahead.

"The United States is extremely rich in resources, but in order to develop them we are going to need a lot of dedicated, well-taught, highly motivated professionals," he said.

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More than 200 people attended the groundbreaking ceremonies and heard comments by Texas Tech Board Chairman J. Fred Bucy, Regent Joe Pevehouse, who is chairman of the board's Campus and Building Committee, Texas Tech President Lauro F. Cavazos, Engineering Dean John R. Bradford, Petroleum Engineering Department Chairman James T. Smith, and Dan G. Moriarty, chairman of the department's Petroleum Industry Advisory Committee.

The expansion will include two sections -- a 56,000-square-foot classroom area and a 7,200-square-foot demonstration laboratory. The two-story classroom portion will include classrooms, teaching laboratories, research facilities and faculty offices. The two-story demonstration laboratory will provide auditorium seating and a large display area for showing mobile oilfield equipment.

Lee Lewis, general contractor of Lubbock, was awarded the $3.1 million construction contract by the university Board of Regents Nov. 13. An additional $900,000 in architectural and administrative fees bring the total cost to $4 million.

Also planned in conjunction with the $4 million expansion is a $450,000 renovation of the existing Petroleum Engineering Building, built in 1953.

Texas Tech's College of Engineering is conducting a $1.5 million fund-raising campaign to equip the expanded facilities. Pevehouse said the goal should be reached by the time the building is finished. Pevehouse also recognized the Petroleum Industry Advisory Committee for its work leading to the expanded facilities.

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Advisory committee members are: Moriarty, regional vice president, Halliburton Services, Midland; J. Ron Barnett, division production manager, Amoco Production Co., Houston; David T. Berlin, manager of enhanced recovery, Gulf Oil Co., Midland; Sam M. Burns, manager, reserve development, Sun Gas Co., Dallas; Harold D. Courson, president, Courson Oil and Gas Inc., Perryton; Jack A. Dutton, director of oil and gas contracts, Tenneco Oil Co., Houston.

Also, Don R. Greenwalt, central division manager of engineering, Getty Oil Co., Tulsa; Don E. Lamprecht, district engineer, ARCO Oil and Gas Co., Midland; Alan R. McDaniel, division manager, Texaco Inc., Midland; George H. Neill, vice president, materials and equipment, Western Co., Fort Worth; Noel D. Rietman, vice president and general manager, northern division, Diamond Shamrock, Denver, Col.; and Lester G. Truby, vice president of production, El Paso Exploration Co., El Paso.

Texas Tech's Petroleum Engineering Department has a 1981 fall enrollment of 520 students, compared with 55 students in 1970.

caption-----

NEW FACILITIES--In front of the existing Petroleum Engineering Building Texas Tech University officials and graduates turn the first shovels of dirt in an expansion that will increase tenfold the amount of space available for petroleum engineering education. Participating in the ceremony are, from left, Texas Tech President Lauro F. Cavazos; groundbreaking speaker Joe Luckett, vice president of Union Oil Co. of California and a 1948 Texas Tech petroleum engineering graduate; Texas Tech Regent Joe Pevehouse, chairman of the board's Campus and Building Committee; Board Chairman J. Fred Bucy; and Petroleum Engineering Department Chairman James T. Smith. (TECH PHOTO)

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CONTACT: Carrie White

LUBBOCK--As the world becomes more computerized, the need for computer specialists with a business emphasis increases.

To help fill that need, the College of Business Administration at Texas Tech University is now offering a bachelor's degree in management information systems.

Dr. Paul H. Randolph, coordinator of the new program, said the use of computers in business has increased drastically over the past 10 years.

"Although the demand for strict computer scientists is strong, the demand for persons blending management and computer expertise is even more intense," Randolph said. "The special feature of this program is that students get a strong technical base in addition to the business concepts of finance, management, accounting and marketing."

Innumerable opportunities await students pursuing a degree in management information systems, he said. These include employment with oil companies, manufacturing firms, banks and accounting offices, he said. Salaries for graduates from such a program are typically $22,000.

"The college recognized the need for this degree. With the success of the master's and doctoral programs in management information systems, it appeared the demand, resources and expertise were available for the undergraduate degree at Texas Tech," he said.

Approved Oct. 30 by the Coordinating Board, Texas College and University System, the program will be administered through the business college's area of Information Systems and Quantitative Sciences.

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In addition to class work, an internship of anywhere from three to six months must be completed at a business firm with a significant computer system and a management information systems program. The internship will be required during a student's junior or senior year.

Texas Instruments, Shell Oil, IBM, Southwestern Bell, Otis Engineering and Braniff Airlines are among the businesses which have agreed to participate in the internship program, Randolph said.

"This gives a student exposure and experience in a controlled environment. The work can also be added to a resume," Randolph said. "After a summer, the student will come back and be able to apply what he has learned to academic work."

For the 1981-82 school year, 100 students are expected to graduate with undergraduate degrees in management information systems with 15 students minoring in the program. By 1984-85, an estimated 200 students will leave Texas Tech with the degree with 20 students claiming it as their minor.

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CONTACT: Cheryl Duke

LUBBOCK--Five Texas Tech University faculty have been recognized for outstanding teaching by the Mortar Board and Omicron Delta Kappa student honor societies.

Recognized were Dr. Robert M. Bethea, chemical engineering; Dr. John J. Burnett, business administration; Dr. John M. Burns, biology; Dr. Evelyn Davis, family management, housing and consumer science; and Dr. Wolodymyr T. Zyla, Germanic and Slavic languages. They were selected from 44 faculty nominated by a variety of student organizations, classes and individual students.

The five will receive plaques during a 5 p.m. reception Thursday (Nov. 19) in the Ex-Students Association Building. The week of Nov. 16-20 is set aside as Faculty Recognition Week in their honor.

Kathy Cowles, a co-chairman of the special week and a member of both societies, said the awards emphasize teaching, but also recognize service and achievement. Final selections, based on student recommendations about the teacher's enthusiasm, leadership, motivation, teaching philosophy and campus activities, are made by a committee of students representing various colleges.

Bethea has taught at Texas Tech since 1966. He is faculty sponsor for the student chapter of the American Institute of Chemical Engineers, Engineering Student Council and Tau Beta Pi, engineering honor society. He has been a community CPR (cardio-pulmonary resuscitation) instructor and a trainer for beginning classes in dog obedience.

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Burnett came to Texas Tech in 1976. He is co-sponsor of the student chapter of the American Marketing Association and of the annual marketing symposium at the university. He has worked in the community United Way and in Big Brothers, Cub Scouts and his church.

Burns, a zoologist, has been at Texas Tech since 1969. He is faculty sponsor for Alpha Epsilon Delta honor society, the Premedical Society and the Saddle Tramps service and spirit organization. He has worked with Boy Scouts and P.T.A. and has coached a girls' softball team.

Davis came to Texas Tech in 1980. She is co-sponsor of the Housing and Interiors Club and sponsored a student home economics exhibition in the University Center. She has been a guest speaker for the Lubbock Women's Club and is a worship committee member for her church.

Zyla has been at Texas Tech since 1963. He has directed several of the annual comparative literature symposia and is sponsor of the Slavic Club and the National Slavic Honorary Society. He teaches children's classes in Russian dancing, singing and language and is a civic speaker and language consultant for the Sunset School of Preaching.

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CONTACT: Carrie White

LUBBOCK--Five years and many crimes ago, someone asked physicist E. Roland Menzel if lasers could be used in detecting fingerprints.

Returning to his Ontario, Canada, laboratory, where he was working for Xerox Corp., Menzel began tests with an argon laser used in combination with special chemicals and filters.

Since that time, the Texas Tech University professor has been able to apply his laser research to dig up data to incriminate criminals. Two of his four main fingerprint detection procedures have been developed since last summer and are being used in crime solving in this country and Canada.

"Laser detection of latent fingerprints is an answer which has been around for a long time begging for the right question," Menzel said.

For the detection of fingerprints on skin, Menzel stains the surface with dye vapor. An argon laser beam then illuminates the surface and the dye fluorescence reveals an otherwise obscure print.

For other objects, the laser's light on an area treated with ninhydrin and zinc-chloride or fluorescent dusting powder may bring forth details needed for positive fingerprint identification. In some instances, latent fingerprints can be developed by their inherent fluorescence under argon laser illumination.

The discovery that the laser could also be used in finding alien fibers on cloth is something Menzel attributes totally to luck.

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"That was a bonus we got without really looking for it," he said. "If you take a piece of cloth, illuminate it with the laser and look through the appropriate filters, voila! There are the fibers."

Menzel said there have been police cases made using his laser techniques, but the struggle between old and new fingerprint procedures continues to make its use limited.

Conventional fingerprinting techniques sometimes fall short in picking up details needed for identification. Using chemicals, dyes, appropriate filters and illuminating the surface with the bluish-green beam of the argon laser, an otherwise obscure print can be photographed and used as evidence in a court of law.

Realizing that many law enforcement officers are not scientists, Menzel keeps away from complicated uses of the laser. As proof of this, he figures training a person on his techniques takes only one day.

The cost of the laser is marked at anywhere from $30,000 to $50,000 which, he said, "may sound like a lot but, just think what a police car costs today."

His current research, supported by a National Science Foundation grant, is focused on finding a way to connect fingerprints with the time a crime actually occurred.

"I'm not terribly optimistic about it," he said. He sees a possible breakthrough in time-fingerprint detection some two years down the road if he can overcome several obstacles.

"Temperature, humidity, diet, perhaps even a person's race may prove to mess up the ability to determine fingerprint age," he said. His work in this area so far has dealt with changes in the fluorescence of prints using laser spectroscopy.

Menzel also plans to begin research, "treating latent fingerprints with enzymes which looks promising for dating as well as detecting."

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CONTACT: Preston Lewis

ATTENTION: Business Editors

LUBBOCK--The financial reports of more than 4,500 publicly held corporations, partnerships, trusts and mutual funds are available for use at the Texas Tech University Library.

Corporate information is available through the library's recent subscription to the National Databank's Corporate Microfile collection. Complete copies of financial records are available on microfiche in the library's special Collections Department. These reports include annual stockholders reports, proxy statements, interim reports and others.

Updates of these microfiches are published every two weeks and a cumulative master index is provided.

The new service supplements and expands the library's current holdings in paper copy of the latest five years of corporate reports for some 1,200 foreign and domestic corporations.

For additional information, contact the Special Collections Department at 742-2242 or the Reference Department at 742-2236.

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10-11-19-81

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CONTACT: Preston Lewis

LUBBOCK--The Texas Tech Ex-Students Association has honored South Texas native Dewey L. Shroyer, Texas Tech director of grounds maintenance, with one of its 1981 Top Techsan Staff Awards.

The awards are presented annually during Homecoming to outstanding full-time, non-teaching employees with a minimum of 10 years service at Texas Tech.

Shroyer, one of four university staff honored Nov. 6, has been employed at Texas Tech since 1966 when he was hired as a grounds maintenance supervisor. He was promoted to superintendent in 1967, acting director in 1973 and director of grounds maintenance in 1974. He received both his bachelor's and master's degrees from Texas Tech. He is a registered landscape architect in the state of Texas.

A 1959 graduate of Sonora High School, Shroyer is the son of Mr. and Mrs. Lester Shroyer of Route 6, Roosevelt. He is married to the former Jo Ann Leavey of Sonora.

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11-11-19-81

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CONTACT: Harvey Landers

LUBBOCK--Law students at Texas Tech University have established a legal research board to provide attorneys with an economical legal research service and to give students actual experience in legal research and writing.

Five third-year Law School students founded the board and are its directors. They are Steve Anderson, El Paso, Terry Rhoads, White Deer, Bruce Williams, Lubbock, and Steve and Karen Johnson, Kansas City, Mo.

The directors recently selected 20 student researchers from 64 applicants who competed on the basis of writing quality and research accuracy.

For lawyers who use the service, economy is only one benefit. The Texas Tech Law School library expands the attorneys' resources.

Finished reports, called memoranda, are reviewed by a board director for accuracy, content and style. The directors will also suggest sources to the writers or seek advice from a faculty advisory committee.

Brochures on the legal research board are being sent to area law firms and are available on request from directors of the legal research board at the Texas Tech law library.

Law Librarian Jane Olm is the board's faculty sponsor. A seven-member faculty advisory committee assists and advises the board. Committee members are: Hal M. Bateman, Charles P. Bubany, David C. Cummins, Karyn J. Driessen, J. Hadley Edgar Jr., Annette W. Marple and Richard W. Maxwell.

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The research is not written for publication because it is confidential, but on rare occasions of exceptional importance and excellence, a memorandum might be published with the lawyer's permission.

The student writers receive no grade for their work, but do gain research and writing experience.

12-11-19-81

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CONTACT: Preston Lewis

LUBBOCK--A senior Texas Tech University student with a double major in German and Spanish has been awarded the 1981 Georgia Dingus Peace Award, an annual scholarship administered by the International Center for Arid and Semi-Arid Land Studies.

Hazel Gilley received the $300 scholarship and a plaque in a presentation Nov. 12. Making the presentation on behalf of the late Mrs. Georgia W. Dingus were Lubbock County Judge Rodrick L. Shaw and Dr. Idris R. Traylor Jr., acting director of the center and chairman of the selection committee.

Gilley, a native of Seminole, will receive her bachelor's degree and teacher certification Dec. 18 in fall commencement exercises. She is a member of Mortar Board, Spanish honorary Sigma Delta Pi, senior honorary Phi Kappa Phi and German honorary Delta Phi Alpha.

The Dingus award is presented annually to a Texas Tech student who demonstrates scholastic ability and makes contributions in the general area of international relations through involvement in organizations and activities. The Texas Tech scholarship was created almost 20 years ago by Mrs. Dingus, long-time Lubbock resident, former Texas Tech instructor of foreign language, and an active member of various civic and educational organizations, including the Lubbock Council for the United Nations, which she formed in 1952.

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Gilley was nominated for the award by professors in the Department of Germanic and Slavic Languages. Representatives of that department participating in the scholarship presentation were Chairman Ulrich Goebel and Professor Theodor W. Alexander. Geography Professor Gary S. Elbow and the recipient's husband, Craig Gilley, also attended. She is the daughter of Mr. and Mrs. B.E. Agnew of Lubbock.

A graduate of Seminole High School, Gilley entered the U.S. Army as a musician. While stationed in Germany, she studied German at the Heidelberg Division of the University of Maryland.

Gilley has received a National Endowment for the Humanities Youthgrant for a project entitled, "A Study of the Two Educational Systems of the Mennonite Immigrants in Seminole, Texas." According to Goebel, she is the only undergraduate in the Department of Germanic and Slavic Languages to receive such an award.

The six-month grant, which begins Dec. 1, will allow Gilley to research the differences among the four Mennonite branches that settled in Seminole in 1977, combining both her interest in foreign languages and in her hometown. She hopes to determine how these differences affect the families and the process of acculturation.

After that project is completed, she hopes to teach foreign languages on the secondary level.

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CONTACT: Cheryl Duke

ATTENTION: Education Editors

LUBBOCK--With increasing problems in inner city and large schools, many city folks are trading those big cities and schools for life in small towns and suburbs with close-knit schools and districts where they will be more in touch with the schools.

Quality education does not suffer, according to Dr. Weldon Beckner, director of the National Center for Smaller Schools, housed at Texas Tech University.

"Size is not the most critical issue or the most important factor in producing quality students," he said.

"It's safe to say the majority, by far, of our presidents and our current political, educational and civic leaders, have at some time in their school days, attended a small school," Beckner said.

"One third of our nation's school districts have less than 500 students and one half of the districts have less than 2,000 students."

The small school has been a bulwark in American Education and can be a strong school still even though it may not be able to offer students the wide variety of courses provided by larger schools, Beckner said.

"There is closer contact between students, between teachers, between administrators and teachers and between students and teachers in small school districts," he said. "Students also have more opportunities for competition and leadership experience in their student activities."

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Students feel more loyalty toward their school when they are not lost in the crowd, he said.

In addition, he said discipline problems are fewer and less serious in smaller schools.

Beckner said small schools, no doubt, have weaknesses, too, but the weaknesses have often been exaggerated, or opportunities for their alleviation neglected.

For one thing, he said most of the federal support for schools is directed at larger school districts and budget cuts in education will first cut programs focusing on smaller schools.

He said small schools need special attention in their programs and curriculum and they cannot be given the same prescriptions as larger schools because their needs are not the same.

Beckner is conducting extensive research on the nation's smaller schools to identify the things small schools do well and the problems they have. When research is completed in the spring, he will be developing plans for alleviating the problems.

"The teacher supply-and-demand situation is probably the most critical issue for small schools in the near future," he said. "Math and science teachers will be the most needed and the least available."

Beckner attributes the shortage partly to an overall decrease in teacher supply due to the increasing variety of careers opening to women. Younger teachers are also more prone to stay in larger cities where there are more activities, he said.

Small schools just need to offer opportunities to their students and teachers which are not available in larger schools.

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Beckner's advice on small schools may help Texas schools, out-of-state schools and schools in other nations.

He has already received requests for information on small schools and how to improve them from organizations and individuals in Australia, England and Canada.

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14-11-19-81

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CONTACT: B. Zeeck

LUBBOCK--Lubbock campaigners who want to raise $500,000 of a $4 million goal for Ranching Heritage Center development will make their first report early next week (week of Nov. 22).

Dr. John R. Bradford and Harold P. "Bo" Brown are chairing the Lubbock drive with Co-chairmen Bob Brummal, Clem Boverie, Lee Stafford and Dr. James G. Morris.

Trustees of the Anne Burnett and Charles Tandy Foundation have committed $1 million as a challenge grant to spur the extensive drive.

The Lubbock drive began the week of Nov. 9 with kickoffs for the Pattern Division, headed by Brummal and Boverie, and the Advance Division, headed by Morris. The Special Division will have its kickoff Dec. 3.

Following the Lubbock drive, other campaigns will be held throughout Texas to raise the remainder of the $2,500,000 necessary to retain the original $1 million challenge grant.

Contributions will be used to provide a permanent fund for continued operation and growth of the Ranching Heritage Center of The Museum of Texas Tech University. The exhibit has had as many as 90,000 visitors a year and is a growing tourist and educational center. It is a unique 14-acre exhibit depicting the history of ranching in America through more than a score of authentically restored structures brought to the site from western ranches.

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"Funding necessary to make this site a national landmark must come primarily from private sources," Bradford said. "Although it is a resource to be shared with the nation -- and even the world -- it is a center of which Lubbock can be particularly proud."

"We are confident that Lubbock will, indeed, be the pacesetter in this campaign for the establishment of the much-needed permanent fund."

Working with Bradford on the drive are, in the Pattern Division, Larry Lowe, Don Workman, Winston Robertson, Jim Lewis, Dan Howard, Tom Platt, Robert Ratcliff, Jim Shearer, Howard Yandell, Jim Spears, Bob Norris, Roy Holmes, Alan Henry, Clifton Cummings, Vernon Clem and Gene Alderson.

In the Advance Division are Bob Schuster, Joe Reynolds, Randy Neugebauer, Dean Shuman, Fritz Jakobsmeier, Arthur Hastings, Ben Robinson and Robert Ranck.

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Texas Tech News

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

CONTACT: Carrie White

LUBBOCK--The use of computerized simulation models can aid yarn manufacturers in estimating production costs and profits.

According to Dale L. Shaw, a former U.S. Department of Agriculture economist at Texas Tech University, computerized simulation models can be used to estimate costs of alternative technologies and examine effects of regulations and changing input requirements and costs.

Shaw, working with Dr. Don Ethridge of the Agricultural Economics Department, has developed a model which is documented, described and explained in the Texas Tech publication "Simulation of Yarn Manufacturing Costs: Program Documentation and User's Guide."

"The textile yarn manufacturing industry operates with many regulatory, technological and institutional considerations," Shaw states. "Simulation models of specific types of processing plants have been developed in recent years to evaluate various economic, technical and institutional conditions which affect particular types of processing and manufacturing plants."

Several of the simulation models, including cotton gin and cottonseed oil mill models, have been developed at Texas Tech.

Shaw's cost-estimating approach combines economic relationships and engineering coefficients to provide a basis for developing simulated costs for specific processes.

Using the staple cotton system, the computer program develops computerized models for mills of various sizes operating in different regions with varied levels of technology, raw material input, yarn output and managerial practices.

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The model generates total annual costs by item for specified cost centers including picking, carding, combing, drawing, roving, spinning, warehouse, shop, laboratory and administration. It also estimates per pound costs based on the output of each cost center and per pound costs based on the ultimate pounds of spun yarn produced.

The model follows the conventional definitions of fixed and variable costs but gives the user flexibility in specifying some items that may have both fixed and variable components.

The fixed components for a specified plant do not vary in total annual dollar costs and are independent of annual production levels and hours of operation. Fixed costs, Shaw indicates, are commonly associated with ownership of land, buildings, machinery, equipment, management and administration expenses.

Variable costs are those which are used directly in the production process and vary with yarn type, number of yarns processed and annual hours of operation.

The limitation of computer-simulated models in estimating yarn manufacturing costs is that the user must have a thorough knowledge of textile mills to use it efficiently.

"This model was developed with the goal of maintaining enough flexibility in the computer program to accurately estimate detailed yarn manufacturing costs under varying processing conditions, a wide range of yarn numbers, spinning plans, technology levels and management considerations," Shaw states. "To maintain this flexibility, a large amount of detailed input data and many decisions regarding the physical and economic relationships for processing equipment and the fiber input must be made."

Shaw says that the reliability of the output and the conclusions drawn from them depend heavily on sound assumptions and technical coefficients.

"In this context, more reliable input from other researchers, textile engineers and technologists, textile mills and equipment suppliers will help make this model program a more useful tool," Shaw says.

Shaw is presently employed by the American Cotton Growers, a subsidiary of Plains Cotton Cooperative Association in Lubbock, (806) 763-8011. For a copy of the published guide contact the Agricultural Economics Department, Texas Tech University, Lubbock, Texas 79409, or call (806) 742-2821.

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CONTACT: Carrie White

LUBBOCK--To kick off a new master's degree program in wildlife science, the Department of Range and Wildlife Management at Texas Tech University will host Dr. Durward L. Allen as a visiting professor for the spring semester.

The internationally recognized wildlife biologist, whose recent publications examine predator-prey relationships between wolves and moose on Isle Royale, will highlight the initiation of a master of science degree in wildlife science recently approved by the Coordinating Board, Texas College and University System.

Dr. Eric G. Bolen, author of the new program's proposal and a wildlife science professor at Texas Tech, said the approval of the master's degree program will recognize the graduate students within the department's curriculum who are specifically being trained as wildlife scientists.

"The offering of this degree will meet Texas Tech's thrust for excellence in programs related to natural resource management," he said. The presence of Dr. Allen at the university next semester and the approval of the master's degree are seen by Bolen as, "a major step forward to further enhance the department's national prestige, of course, but the greatest value is for students who can study under a professor of Allen's stature."

In the past, students whose primary interests have been in graduate wildlife work have been awarded a master's degree in range science.

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"Fifty percent of the master's candidates in recent years have been wildlife science students," he said. Although the department incorporates two disciplines, Bolen said wildlife science graduate students will now get formal recognition for their specialized training.

"The focus within the Department of Range and Wildlife Management at Texas Tech is significantly different from programs elsewhere in the nation," Bolen said. "Graduate training is enchanced by the umbrella of range and wildlife scientists working jointly in a single academic unit."

He said no other department in the state or nation enjoys this accommodation.

"With the department's focus on wildlife habitat, the relationship of range and wildlife scientists working together adds visible strength to the professional training of wildlife science master's degree candidates at Texas Tech," he said.

Although the formal degree given in the past to wildlife master's degree students was titled range science, these students have gone on to work in federal, state and private wildlife agencies.

Included in the list of institutions and agencies supporting wildlife science master's degree candidates at Texas Tech are the Welder Wildlife Foundation, Caesar Kleberg Foundation for Wildlife Conservation and the U.S. Forest Service's Great Plains Wildlife Habitat Laboratory.

"The opportunity for further cooperation with these agencies and others will increase with the formal recognition of the master's program," Bolen said. Eight students will graduate this spring with the new master's degree.

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"As public awareness of the broad spectrum of environmental concerns grows, the demand for wise management of natural resources will create additional career opportunities for wildlife biologists," Bolen said. "Natural resource management agencies and private interests are seeking, and will continue to seek, students trained beyond the bachelor's level."

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CONTACT: B. Zeeck

LUBBOCK--The critically acclaimed two-volume "Vatican Frescoes of Michelangelo" is on display at the Texas Tech University Library, giving visitors a look at some of the 360 color plates of photographs taken by Takashi Okamura in the Sistine and Pauline chapels.

The books are on loan to the library from the Sami Lincoln Art Collection. John Lincoln, who made the loan, asked that the books be displayed for the public but that serious scholars be given permission to examine them more closely.

The agreement with the Tech Library calls for sharing the exhibit with other libraries and museums in the Southwest.

The publication is considered a masterpiece of art, photography and publishing.

Few have seen the Michelangelo Vatican frescoes in all their beauty because the lowest Sistine ceiling figure is 65 feet above the chapel floor.

From a scaffold erected and dismantled daily, Okamura spent six months taking 410 exposures of the Michelangelo frescoes. He succeeded in taking pictures that show, at close range, the artist's brush strokes, the joints of one day's working area and the next and other details previously not visible from the floor.

Art critic John Canaday has pointed out that "standing on the floor and craning our necks, we never manage to quite get within" the presence of Michelangelo's frescoes. Although the artist did not expect visitors to see the paintings at close range, he painted as if he works would be seen at the usual distance from which large paintings are viewed.

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"The great advantage" in the books, Canaday said, "is in close-range details that are invisible from the floor, including brush strokes that have been mushy in even the best photographs heretofore taken with telescopic lenses."

The result, he said, is that each ceiling is revealed as "not one vast painting but one vast drawing in color. Contours are defined with absolute precision, with such magical description of the forms they bind that the modeling within the contour is hardly necessary."

The publication represents the culmination of several years of meticulous work by its publishers, Abbeville Press Inc. In addition to the two volumes, 18 framed plates have been provided in the loan to the library. The publication includes a text by Andre Chastel as well as the Okamura photographs.

Limited to 600 copies, the twin volumes of the book are bound with full-calf leather spines and contain handmade marbleized endpapers.

Contained are 360 color plates, with 49 double-page spreads. Ninety-nine of the plates reproduce paintings in the same scale as Michelangelo painted them. All plates are hand-tipped into the book so there is no binding thread running through the middle of the images.

Ray C. Janeway, director of library services, said the loan of the work makes available material that few libraries could afford to own.

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