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CONTACT: Dan Tarpley

LUBBOCK--Engineers from West Texas and Eastern New Mexico may enroll in any of four engineering courses to be offered at Amarillo College and Frank Phillips College, Borger, this spring by the Division of Continuing Engineering Education at Texas Tech University.

The program leads to the master's degree in engineering and is offered primarily for practicing engineers seeking professional development, said Jo King, director of Continuing Engineering Education at Texas Tech.

The Amarillo College program will offer an industrial engineering course, "Advanced Engineering Economic Analysis," and a systems course, "Analysis of Engineering Systems I." Registration for the courses in Amarillo will be at 6 p.m., Jan. 7, in the college's Technology Building, room 310.

The program at Frank Phillips College will offer an industrial engineering course, "Decision Theory and Management Science," and a mechanical engineering course, "Solar Energy Engineering." Registration at Frank Phillips College will be in Room 12 of the Administration Building at 6 p.m., Jan 8.

First class meetings for all four courses will be at 6 p.m., Jan. 15.

The program was initiated in 1966 to comply with requests from professional engineers employed in area industries. Fifty-three engineers have received master of engineering degrees through the Continuing Engineering Education program.

Additional information may be obtained from Continuing Engineering Education, College of Engineering, Texas Tech University, Lubbock, Texas 79409, (806) 742-3429.



CONTACT:

TEXAS TECH UNIVERSITY/BOX 4079/LUBBOCK, TEXAS 79409 CRAIG PLETENIK (806) 742-2312 (office) 747-8017 (home)

SCHEDULE FOR DEC. 17 - JAN. 5

DEC. 22 Basketball home with Arizona at 2:00 pm JAN. 2-3 Swimming/Diving at Rainbow Invitational

in Honolulu

5 Swimming/Diving at University of Hawaii

BASKETBALL ENDS FALL SCHEDULE: The Texas Tech Women's Basketball Team concludes the 1979 portion of its schedule Saturday, December 22, hosting the University of Arizona at 2:00 pm in the Coliseum.

The Raiders are 8-5 after an impressive 92-63 victory over Houston, the fourth best team in the state last year.

The Raiders played without starting guard Nodia Vaughn (Paducah), who was taking a final exam, and were without the services of Pam Stone (Jacksonville, FL) for most of the second half due to foul trouble. Stone still managed 18 points as did Rose Penkunis (Universal City), who started her first game at forward, and later filled in for Stone at the post.

Gwen McCray continued her scoring mastery, pumping in 25 points to lead all Raiders for the seventh time this year. Her eight rebounds made her the leading rebounder in seven of 13 games as well. Defensively, the freshman leaper blocked seven shots.

Two bright spots for Coach Gay Benson were Vicki Lee (Alamogordo, NM) and Lynn Webb (Slaton). Lee, a 5-6 freshman guard, scored 10 points and had five rebounds in her first starting assignment. Webb played her best game of the year, finding her outside shooting touch for 10 points.

Tech is now 3-1 against TAIAW Division One schools and 5-0 in the Coliseum.

The University of Arizona was 4-3 prior to their December 19 game at Eastern New Mexico and December 20 game at West Texas State.

The Wildcats, coached by Lori Woodman, have turned things around from last year. The Tucson school did not win in its first ten games in '78. This year ten lettermen including three starters return.

UA is led by 5-10 sophomore forward Jill Longanecker who is averaging 11.5 points and 4.3 rebounds per game. 5-11 junior center Janet Goschinski is close behind with 11.2 points and leads the 'Cats with 9 rebounds a game.

Other starters will be either 5-10 So. Chris Caliway (7.0 ppg) or 5-11 So. Charlotte Smith (6.2 ppg, 5.7 rpg) at the other forward. The guards will be 5-5 Sr. Sarah Buxton (7.8 ppg and 24 assists) and 5-5 So. Pam Roberts (10.8 ppg and 20 assists).

Two giants who also see action are 6-3 sophomore Anne McFadden and 6-5 freshman Heidi Olsen. McFadden, the more aggressive of the two, is averaging 7.7 ppg and 6.8 rpg. Olsen's numbers are 4.2 ppg and 5.3 rpg.

The Raiders should line up 5-6 Vicki Lee (7.1 ppg) and 5-9 Louise Davis (7.1 ppg) at guard; 5-8 Gwen McCray (14.1 ppg, 8.6 rpg) and 5-11 Rose Penkunis (6.2 ppg, 4.4 rpg) at forward, and 6-1 Pam Stone (13.2 ppg, 9.4 rpg) at center.

"We changed the offense so we could use Rose as a power forward because our other forwards have not been hitting from the outside," said Gay Benson. "She's too good not be be in there.

Lynn Webb really had a confidence-builder last Saturday. She had mono this summer and is still not at full strength, but I think

she'll have another great second half.

Last year Webb finished the season scoring in double figures in 14 of the last 17 games."

The Raiders resume play after the holidays January 14 hosting Wester Texas College.

SWIMMERS TRAVEL TO HAWAII: The Women's Swimming and Diving
Team will exchange the winter weather of West Texas for the balmy
sands of Hawaii for a few days after Christmas, and the tankers are,
needless to say, looking forward to the change of scenery.

It will be no vacation, however, as Coach Anne Goodman will continue to put her team through two-a-day workouts. The Raiders will also conclude the week with two meets while in the island state including the prestigious Rainbow Invitational, January 2-3, in Honolulu and a dual meet against the University of Hawaii, January 5.

Tech has never before travelled from home to compete over the holiday break, and the experience should provide the young Raiders the needed exposure among the veteran teams competing in Hawaii.

The tankers will face 14 teams in the Rainbow Classic including swim powers Brigham Young, University of Indiana, University of Wyoming and University of Houston. In dual meet action against the University of Hawaii, the Raiders hope to improve on their 3-1 season record.

TEXAS TECH STATS 13 GAMES

	G	PF-FO	FG-FGA	%	FT-FTA	%	R	ARG	TP	APG	A	S	BS	
KEASLER	11	9-0	11-24	45.8	8-12	66.7	6	0.5	30	2.7	11	12	3	
VAUGHN	12	25-0	43-84	51.2	31-51	60.8	42	3.5	117	9.8	9	3	0	
LEE	13	21-0	39-107	36.4	14-21	66.7	34	2.6	92	7.1	14	10	0	
PHILLIPS	10	11-0	6-16	37.5	3-5	60.0	11	1.1	15	1.5	3	3	0	
DAVIS	13	39-1	36-80	45.0	20-28	71.4	26	2.0	92	7.1	24	38	6	
NEWMAN	13	28-1	32-87	36.8	10-19	52.6	40	3.1	74	5.7	25	10	2	
PENKUNIS	13	22-0	27-61	44.3	26-37	70.3	57	4.4	80	6.2	14	13	0	
STONE	13	37-0	73-142	51.4	26-42	61.9	122	9.4	172	13.2	16	13	12	
WEBB	13	13-0	22-67	32.8	7–11	63.6	39	3.0	51	3.9	13	0	1	19
HAVENS	13	26-1	12-34	35.3	4-7	57.1	27	2.1	28	2.2	6	2	1	
MCCRAY	13	47-3	73-154	47.4	37-65	56.9	112	8.6	183	14.1	19	26	16	
FITZHUGH	4	2-0	3-6	50.0	4-4	100.0	3	0.8	10	2.5	0	0	0	
FORTUNE	8	3-0	5-13	38.5	3-6	50.0	15	1.9	13	1.6	0	0	1	
NESTER	3	2-0	0-1	0.0	0-5	0.0	2	0.7	0	0.0	0	0	0	
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CONTACT: B. Zeeck

LUBBOCK--The decade of the '60s at Texas Tech University was marked by the greatest increase in student numbers, but the '70s was the decade for building. In the 10-year period, 1970-79, more than \$139 million created a new look for the institution.

The new structures contain more than half the present total floor space at Texas Tech. The largest expenditures went to build the Health Sciences Center Building. The shell for that building was completed in 1977 but interior construction continues. The total expenditure, including a second heating and cooling plant needed for the facility, amounted to \$63,196,925.

The remainder, slightly more than \$75 million, was spent on buildings serving university students.

Dr. Glenn E. Barnett, vice president for Planning, said that the comparative magnitude of the building program was unprecedented and likely would never be repeated at Texas Tech.

"There undoubtedly will be slight increases in future enrollments at Texas Tech," he said, "but there is little to indicate the kind of growth that led to this building program."

Construction reflected increases in enrollment which more than doubled in the decade of the '60s and rose steadily from 20,008 in 1970 to 23,129 in 1979.

Giving special emphasis to plans for a building program was a jump of almost 2,500 students in the fall of 1965 and increases of about 1,000 per year for the two succeeding years.

Dormitory space had a high priority in the 1960s, culminating in the construction of the Wiggins Complex of three high-rise buildings and a dining area, completed in 1967 at a cost of almost \$11 million.

To expand classroom, laboratory and office space the university erected 38 barracks-type buildings on the campus at about the same time, to make an eventual total of 55. Many regular classes and even the School of Law activities first were housed in some of these. The Law School's permanent building, costing more than \$3 million, was completed in 1969, two years after the first students enrolled and in the early stages of the great building decade.

Dr. Charles S. Hardwick, vice president for Academic Affairs, explained that several factors contributed to the need for the new buildings. Not only was undergraduate enrollment growing, but graduate students also were registering in record numbers.

"The increase in the number of students made most of the extra academic space mandatory," he said, "but as the graduate program increased there was the additional need for more research laboratories and more sophisticated laboratories.

"While the research capability at Texas Tech expanded, there also was a technology explosion occurring. The laboratories we had were outdated and their renovation alone was insufficient to handle research needs," he explained, "and all graduate programs demand adequate research facilities."

During the decade of the '70s graduate degrees awarded doubled over all the previous years of Texas Tech's existence.

Between 1970 and May 1979 the university awarded 4,957 master's and 872 doctor's degrees. Before 1970 there had been awarded 3,379 master's degrees and 369 doctor's degrees. The growth, again, began in the '60s. Between 1927 and 1960, 2,496 master's degrees and 63 doctor's degrees had been awarded. In the 1960s 883 master's and 306 doctor's degrees were earned. None of the figures include medical doctors' degrees awarded.

Support for research rose more than \$10 million over the decade, with monies coming both from state and federal governments or other sponsors. Support totaled \$3,401,572 in 1970 and \$13,508,594 in 1979, with a peak year in 1977-78 when the total was almost \$15 million (\$14,863,751).

"The laboratory space needed for that level of research simply wasn't available before 1970," Hardwick said. "In addition to that, some disciplines which had never before required lab space now had to have it." As one example he cited the laboratories required for learning foreign languages.

"We are used to thinking of laboratories in the disciplines of science and engineering," he said, "but the social sciences, too, require this kind of space."

Funds for construction came from a variety of sources, federal and state governments, student fees and private gifts.

The Museum of Texas Tech University was completed in 1970 at a cost of \$2,516,004, much of it from private gifts. The Goddard Range and Wildlife Management Building, completed in 1975 at a cost of \$845,000 also was initiated through a private gift, as was the

Ranching Heritage Center orientation building, completed in 1976 at a cost of \$415,000.

The biggest changes were visible in 1976. The Mass Communications Building, University Center-Music Building addition and Holden Hall addition for social sciences were completed at a total cost of about \$14 million to change the look of the central campus. Construction that year included several renovative projects also, work at the Texas Tech University Agricultural Field Laboratories-Lubbock County near New Deal and additions for food technology, Tech Press and Jones Stadium offices.

For students 1976 marked the real start of a massive program to improve recreational facilities. The Recreational Aquatic Center was built as a cost of \$1.5 million. Recreational facilities construction is continuing with the new Recreation Center, expected to open next year, costing about \$5.5 million.

Because of vastly increased research the Textile Research Center, built in 1969 at a cost of \$1.5 million, was expanded in 1977 with a \$1.2 million addition.

The library, built in 1962 at a cost of \$2.2 million, was almost doubled in space in 1975 at a cost of \$4.8 million.

The last large-scale academic structure to be completed was the Food Science-Home Economics Building, which cost \$4 million.

Other buildings constructed in the '70s and contributing to a major change in the face of Texas Tech University included: the Art-Architecture Building built in 1970 at a cost of about \$5 million; the Chemistry Building addition, 1971, \$5.5 million; the Civil Engineering Building addition, 1971, \$1.27 million; and the Home Economics Building addition, 1975, \$1.9 million.

buildings/add four

Other projects included in the \$139 million were smaller ones, renovation of numerous buildings, Astroturf and other changes for Jones Stadium, air conditioning, construction and renovation at the Texas Tech University centers at Amarillo and Junction, and construction of Regional Academic Health Centers at El Paso and Amarillo.

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CONTACT: B. Zeeck

LUBBOCK--For the first time in about 10 years the Texas Tech
University Department of Industrial Engineering will be offering
night school classes for graduate students during the spring semester
(1980).

"Inventory Systems" and "Work Physiology" are two of the courses to be offered. Department chairman Richard A. Dudek said they should be of interest to many persons other than industrial engineers.

Warehouse managers, manufacturing managers, manufacturing engineers, plant managers, safety engineers or design engineers should find them useful, he explained.

"If these courses are well received by the community," he said,

"plans will go forward in structuring future courses to permit

graduate students to pursue the master's degree with additional

evening classes."

The course in inventory systems will require some background in statistics. The course will cover topics in inventory systems-related forecasting, the ABC system of inventory, physical inventory techniques and inventory management practices in various industries. Basic principles of materials requirement planning will be introduced.

The work physiology course will deal with physiological responses of the worker to demands placed on him in the industrial environment. Energy costs of various work activities will be presented along with applications, such as work-rest cycles and levels of fatigue and recovery.

industrial engineering/add one

To register, the student must be admitted as a graduate student, regardless of whether he or she wants to pursue a degree. Applications can be obtained from the director of Graduate Admissions, Holden Hall, (806) 742-2187.

For additional information students can consult Prof. S.S.

Panwalker (742-3402), who will teach the course on inventory systems,
or Prof. James L. Smith (742-3410), instructor for the work physiology
course.

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CONTACT: B. Zeeck

LUBBOCK--A five-year effort to show that the sun can help relieve the energy shortage for a small American town will take one giant step in January when tests begin on the Analog Design Verification System (ADVS) for the Crosbyton Solar Energy Project.

Project Director John D. Reichert of the Texas Tech University electrical engineering faculty said the mirror alignment is almost complete for the ADVS. The test facility should be completed by Jan. 10, he said, and that week the research team hopes to check it out and initiate start-up procedures.

"The week after that," Reichert said, "we should go into full data-gathering operations."

The project, initiated in 1974 when Crosbyton citizens first became alarmed by rising energy costs, is funded by the U.S. Department of Energy. It is designed to lead ultimately to the construction of a five-megawatt solar-thermal-electrical power system which could serve the 2,500 residents of Crosbyton, a northwest Texas town 35 miles east of Lubbock.

The ADVS mirror dish is 65 feet in aperture diameter. The final power system would have 10 giant dishes called solar gridirons, each almost the size of a football field.

The concept for the Crosbyton project is unique in the United States, although it employs a 100-year-old idea in which the mirror remains fixed while a receiver follows the sun's focus and "collects" heat to be transformed into steam. Only in Marseilles, France, is

there a somewhat similar system constructed as a prototype and research installation.

Because the Crosbyton project is unusual, the Department of Energy has invited 400 DOE contractors to what it terms its "First Semi-annual Small Power Systems Program Review" Jan. 22-24 in Lubbock. That conference will be held at the South Park Inn and participants in the review will travel to Crosbyton to see the ADVS in operation. Travis Simpson, project administrator in electrical engineering at Texas Tech, is coordinating review plans in Lubbock.

Critical to the testing which will be conducted by the research team are two ADVS computers, one used primarily to control the system and the other primarily to collect data. Despite the dependence upon the computers, however, Reichert said that a human will be present during all testing for observation and hands-on operation should that become important, either because of computer failure or any other reason.

"The computer can react more quickly than a person could to any change it perceives in the system," he said, "and the project is really safer in the 'hands' of a computer than it would be in human hands."

The controlling computer is a Bristol and it can monitor all important points in the system, open and close valves, detect any malfunction and select alternative methods of operation.

The program for the Bristol was written by David Lubin of
E-Systems of Dallas, the company that is primary subcontractor for
the Texas Tech-DOE project. A Texas Tech electrical engineering
(cq)
graduate student, Karan Watson, has assisted Lubin.

"It will function as the 'eyes' and 'ears' of the system,
monitoring temperatures, steam pressure, velocities, flow rates,
the tracking system and the brightness of the sun," Reichert said.

It takes readings and sends signals to alter the system when necessary,
to give the researchers the performance needed and to protect the ADVS
in case any operation malfunctions.

Even more system information is fed into a second computer manufactured by Hewlett-Packard and used for the necessary data acquisition system, programmed to receive about 250 channels of data.

Programming the second computer was Electrical Engineering Prof.

Donald L. Gustafson with another electrical engineering graduate

student, William Edwards. The information gathered on this system

eventually is moved onto a nine-track tape which is brought to the

Texas Tech campus for data processing by larger computers.

Both of the computers at the Crosbyton site, however, have cathode ray tubes (CRTs) so that there is a continuously changing visual record of what is going on.

"The Bristol is our spy on the system," Reichert explained, "and the second computer is the universal spy, getting all of the Bristol information plus whatever that computer instructs the system to do or what any individual might instruct the system to do, and the results."

Dr. Herbert J. Carper Jr., a member of the mechanical engineering faculty at Texas Tech, is project manager and about 30 other members of the Texas Tech faculty and graduate students helped develop the research necessary before the ADVS could be built.

If tests on the ADVS are successful, they could lead to construction of a five-megawatt solar-thermal-electric power system to supply electricity for Crosbyton. That recommended power system could not be operational, however, before 1982 although, Reichert said, that date would still put Crosbyton well ahead of any town its size in an effort to harness solar energy to cut power bills.

The project began five years ago when Crosbyton representatives approached the Texas Tech Department of Electrical Engineering seeking assistance in planning for future energy needs.

Reichert suggested a solar gridiron with 10 200-foot mirror-surfaced solar gridirons which would remain fixed. A receiver-boiler, tracking the focus of the sun's rays across the mirror, would collect heat to make steam which could be converted into electrical energy.

The smaller ADVS should give engineers and scientists an opportunity to study the system on a relatively small scale.

Reichert said there will be a dedication ceremony for the ADVS this winter or in early spring.

EDITOR'S NOTE:

Watson is the daughter of Mr. and Mrs. Eddie Watson, 3720 Summercrest, Fort Worth.

Edwards is the son of Mr. and Mrs. Henry O. Edwards, 555 N. Butte, Emmitt, Idaho.

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CONTACT: Dan Tarpley

LUBBOCK--Ten Reserve Officer Training Corps (ROTC) cadets at Texas Tech University today (Thursday) accepted the oath of office of second lieutenants, seven in the Air Force and three in the Army.

Col. Gobel D. James, commander for Resources, Reese Air Force Base, Lubbock, administered the oath and delivered the principal address in ceremonies in the University Theatre.

Dr. William B. Conroy, acting dean of the College of Arts and Sciences, presided, with Col. Fred D. Barnes, professor of Aerospace Studies, and Lt. Col. Clayton S. Roberson, professor of Military Science, presenting commissions to the new officers.

Commissioned by the Air Force were Clayton A. Church, political science major, Dallas; Kathryn E. Cook, biology major, Richardson; Gary C. Cox, business major, Levelland; Cynthia J. Floyd, secondary education major, Lubbock; Raymond S. Mehringer, elementary education major, Oregon; David A. Norris, political science major, Lubbock; and Charles E. Shelton, psychology major, Longview.

New army lieutenants are Ronney Z. Miller, history major, Odessa; Lionel R. Rivera, microbiology major, El Paso; and John M. Wilton, accounting major, Fort Sumner, N.M.

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CONTACT: Pat Broyles

ATTN: Public Service Directors (Kill January 8, 1980)

AREA ENGINEERS WILL HAVE OPPORTUNITY TO CONTINUE THEIR
PROFESSIONAL DEVELOPMENT BY ENROLLING IN COURSES TO BE OFFERED
AT FRANK PHILLIPS COLLEGE IN BORGER. "DECISION THEORY AND
MANAGEMENT SCIENCE" AND "SOLAR ENERGY ENGINEERING" WILL BEGIN
JANUARY 15 AT SIX P.M. REGISTRATION FOR THE COURSES WILL BE
JANUARY 8 AT SIX P.M. IN ROOM 12 OF THE ADMINISTRATION BUILDING
AT FRANK PHILLIPS COLLEGE. AN ADDITIONAL COURSE IN INDUSTRIAL
ENGINEERING AND A SYSTEMS COURSE WILL BE OFFERED AT AMARILLO
COLLEGE. FOR INFORMATION CONTACT THE DIVISION OF CONTINUING
ENGINEERING EDUCATION AT TEXAS TECH UNIVERSITY, (806) 742-3429.

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CONTACT: Pat Broyles

ATTN: Public Service Directors (Kill January 1, 1980)

ONE OF THE MOODY PLANETARIUM'S MOST POPULAR SHOWS WILL BE
PRESENTED DAILY THROUGH THE HOLIDAY SEASON. "FOR UNTO US..."

EXPLORES THE POSSIBILITIES OF WHAT THE WISE MEN SAW IN THE SKY

THAT LED THEM TO A MANGER IN BETHLEHEM. THIS SPECIAL PROGRAM

WILL BE SHOWN EACH SATURDAY AND SUNDAY AT 2:30 AND 3 P.M., WITH

ADDITIONAL PROGRAMS AT 2:30 P.M. WEEKDAYS. COST OF THE PRESENTATION

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CONTACT: Pat Broyles

ATTN: Public Service Directors (Kill January 8, 1980)

ENGINEERS WILL HAVE OPPORTUNITY TO CONTINUE THEIR PROFESSIONAL

DEVELOPMENT BY ENROLLING IN COURSES TO BE OFFERED AT AMARILLO COLLEGE
IN JANUARY. "ADVANCED ENGINEERING ECONOMIC ANALYSIS" AND "ANALYSIS

OF ENGINEERING SYSTEMS ONE" WILL BEGIN JANUARY 15 AT SIX P.M.

REGISTRATION FOR EITHER COURSE WILL BE JANUARY 7 AT SIX P.M. IN ROOM

310 OF THE TECHNOLOGY BUILDING AT AMARILLO COLLEGE. ADDITIONAL COURSES
IN INDUSTRIAL ENGINEERING AND MECHANICAL ENGINEERING WILL BE OFFERED

AT FRANK PHILLIPS COLLEGE IN BORGER. FOR INFORMATION CONTACT THE

DIVISION OF CONTINUING ENGINEERING EDUCATION AT TEXAS TECH UNIVERSITY,

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CONTACT: Dan Tarpley

LUBBOCK--Four Texas Tech University and three TTU Health
Sciences Center (HSC) employees received awards for outstanding
service this week at departmental meetings and Christmas receptions.

Recipients received \$500 each and commemorative wall plaques.

Health Sciences Center recipients were Margaret Davis, Roger Henson and Beverly Nix. University recipients were Crayton W. Awtry,

George Scott, Grace S. Thompson and Horace Tyree.

In the professional and administrative category recipients were Scott, assistant Dean of Students, Texas Tech, and Henson, director of Facilities Operations and Maintenance, Health Sciences Center.

In the supervisory category recipients were Nix, secretary II,

Department of Medicine, Health Sciences Center; and Tyree, supervisor,

Custodial Services, Residence Halls, Texas Tech.

In the employee division recipients were Davis, clerical specialist I in the Clinic Business Office, Health Sciences Center; and Thompson, secretary II in the office of the Dean of Students, and Awtry, buyer II, Purchasing Department, both Texas Tech.

Presentations were made by Interim President Lawrence L. Graves.

Recipients were chosen by Graves on the basis of recommendations from four award selection committees composed of peers from each vice presidential area. Vice presidents reviewed nominations and made recommendations to the selection committees.

An employee since early 1976, Awtry "senses the urgency connected with research and is extremely helpful in determining how a purchase can be made in the most efficient manner," his nominator said.

Davis, an employee since July 1978, was cited for "solving problems of patients regarding clinic bills with considerable skill and in the process performs a great public relations service for the HSC."

Director Henson of Facilities Operations and Maintenance in the HSC is credited with building "an excellent department of professionals and motivating his staff."

With five years of service, Mrs. Nix was promoted to Orthopaedic Surgery Department administrator in September of this year. She was cited for her "organizational skills; effectiveness and service beyond the usual duty expectations in time and effort; leadership; teamwork; aplomb; and caring attitude for her job and people."

Scott has been a contributing member of the Texas Tech community for more than a decade as an administrator. He became associate director of Student Life more than a year ago. He has had long experience in public education, serving in the public school system of Lubbock prior to joining Texas Tech.

For eight years Mrs. Thompson has demonstrated "competency, reliability, empathy, perseverance and sense of humor necessary to provide a stable working atmosphere in the office of the Dean of Students."

Tyree has served as supervisor of Custodial Services in the residence halls for more than 11 years. During that time he has shown "excellent leadership in organization and management of more than 100 employees." His training programs won the Southwestern Association of College and University Housing Officers Excellence Award in 1975.

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CONTACT: Dan Tarpley

LUBBOCK--An advanced class in educational supervision leading to a supervision certificate will be offered again during the spring semester at West Texas State University in cooperation with Texas Tech University.

Registration for classes is scheduled for 6-9 p.m., Tuesday, Jan. 15 (1980), in Room 110 USC Building.

The course, Seminar in Supervision (EDAD 5318), presents an overview of supervision options with an emphasis on clinical supervision. At the end of the course, participants should be skilled in conducting clinical supervision cycles with teachers. The course uses a programmed learning text and in-class laboratory sessions to assist in skill development, according to Dr. Paul E. Zintgraff, professor of education at Texas Tech.

Clinical supervision has been described by some authorities as, "A system of supervision with enough power to have impact and the precision to hit the target," he said.

Texas Tech course offerings leading to certification in supervision are in conjunction with courses at West Texas State University. Initial classes are taken at WTSU and the remaining are offered by Texas Tech at Canyon.

Those interested in obtaining more information about the supervision certificate should attend the first meeting Jan. 15, at WTSU.

Cutline----

CROSBYTON PROJECT--Tests on the Analog Design Verification System (ADVS) for the Crosbyton Solar Energy Project are scheduled to begin early in January. The ADVS mirror dish is 65 feet in aperture diameter, but the final power system would have 10 giant dishes called solar gridirons, each almost the size of a football field. The mirror is covered with plastic which will be removed when the Texas Tech University research team initiates start-up procedures to test the solar energy concept. (TECH PHOTO)

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CONTACT: B. Zeeck

LUBBOCK--Dr. J. Wayland Bennett, associate dean of the College of Agricultural Sciences, has been named the first Charles C. Thompson Professor of Agricultural Finance at Texas Tech. Texas Tech Vice President for Academic Affairs Charles S. Hardwick made the announcement.

The chair honors Charles C. Thompson, president of the City
National Bank of Colorado City since 1938 and chairman of the board
of that institution. Because of his long interest in farm credit,
stemming from the Depression era, Thompson is known as "Mr. Farm
Credit." He also is an attorney, a rancher and a farmer.

Bennett is a director of the Federal Reserve Bank of Dallas.

He has taught in the Department of Agricultural Economics at Texas

Tech since 1948. He has served on numerous agriculture and university

committees and is a past president of the National Association of

Colleges and Teachers of Agriculture. For several years he has

coordinated Texas Tech's annual Banker's Agricultural Credit Conference.

Bennett earned his bachelor's degree from Texas Tech and served on the faculty for two years before going to Louisiana State University for his advanced degrees. He rejoined the Tech faculty in 1953 and has served the university as an assistant vice president for academic affairs, as head of the Department of Agricultural Economics and as acting dean and interim dean of the College of Agricultural Sciences. He also has been acting chairman of the Department of Agricultural Engineering. As associate dean of the college he is in charge of industry relations.

His primary professional interests involve problems dealing with agricultural credit and credit systems, agricultural cooperatives, agricultural policy related to the development of agriculture, the market structure for agricultural products, market development and efficiency, consumer problems and agricultural prices.

He is cited in American Men and Women of Science, Who's Who in Texas Today, Dictionary of International Biography and Who's Who in the South and Southwest.

At Texas Tech he has served as chairman of the Administrative Deans' Council and as member and chairman of numerous committees. He has been chairman of the Agricultural Economics Section, Southwestern Social Science Association, member of a four-man team appointed by Gov. John Connally to study the European Common Market and Texas Agriculture, and he has been a consultant to the U.S. Feed Grains Council for Grain Sorghum Market Potential in Egypt, to the Federal Land Bank, Houston, the Tennessee Higher Education Commission and resource consultant to the Natural Fibers Committee of the Texas House of Representatives.

The National Association of State Universities and Land Grant Colleges has cited him for his work on the Agricultural Business Committee, Resident Instruction Committee on Policy.

Bennett has served on the Board of Directors of the Texas
Professional Agricultural Workers, the West Texas Water Institute,
and, in Lubbock, of the Southwest Lubbock Rotary International and
the Workshop for the Blind.

Thompson, member of the Texas Tech Board of Directors from 1937 to 1957 and chairman from 1944 to 1956, is remembered on the Texas Tech campus by the residence hall named in his honor. He lives now on a 6,000-acre farm and ranch near Colorado City and practices law as a partner of the firm of Thompson and Rees. He has served on the board of the Texas Electric Service Company for the past 20 years. He is a former Mitchell County judge.

He has a leading role in passage of the Farm Credit Act of 1971, and he also served as chairman of the Tenth District Farm Credit Board. He holds an honorary doctorate awarded by Texas Tech.



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CONTACT: Jane H. Brandenberger or Bea Zeeck

LUBBOCK--Max C. Tomlinson has been named Assistant Vice

President for Business Affairs, effective Jan. 1, Interim

President Lawrence L. Graves of Texas Tech University announced

Friday.

In his new position Tomlinson will exercise control over day-to-day operating systems procedures and planning relating to fiscal activities of the Texas Tech Health Sciences Center. He will serve as assistant to Dan Williams, interim vice president for Finance and Administration of both the university and Health Sciences Center.

Tomlinson has been director of Accounting and Finance at Texas Tech since 1971.

A graduate of New Mexico Military Institute, he has also completed graduate work in accounting at Texas Tech.

Tomlinson previously served the university as an internal auditor, 1970-71, and was business manager of the L. T. Lewis Estate in Roswell, N.M., 1960-69.

He was an officer in the U.S. Army Corps of Engineers, 1956-58, and in the New Mexico National Guard, 1961-69.

Currently Tomlinson is a member of the Texas Association of State Senior College and University Business Officers Committee

TOMLINSON/ADD ONE

on State Purchasing and General Services Commission Relations.

Wilbert W. Hart, deputy director of Accounting & Finance, will serve as interim director of that division in replacement of Tomlinson.

"We are delighted that a man of Max Tomlinson's experience and expertise has agreed to take on the responsibilities of this important new position," Interim Vice President Williams commented.

-30-

14-12-19-79

/5-/2-/9-79
cutlines 10 for El Paso, Amarillo, Odessa, Midland, Abilene, Big
Spring, Houston, and one other

DECADE FOR BUILDING--Construction of the Health Sciences Center was a part of the 1970s decade for building at Texas Tech University. New structures built in the '70s contain more than half the present total floor space at Texas Tech. (TECH PHOTO)

Cutlines----10

CHARLES C. THOMPSON PROFESSOR--Dr. J. Wayland Bennett, right, associate dean for industry relations in the Texas Tech University College of Agricultural Sciences, is congratulated on being named the first Charles C. Thompson Professor of Agricultural Finance at Texas Tech University. Left to right are Dean Samuel E. Curl of the College of Agricultural Sciences and Texas Tech Vice President for Academic Affairs Charles S. Hardwick. (TECH PHOTO)

CUTLINES...AJ, UD, ICASALS, Corpus Christi

RESEARCH AWARD--Dr. Bill E. Dahl, left, professor of range and wildlife management at Texas Tech University, receives the College of Agricultural Sciences Research Award, presented by Dr. Samuel E. Curl, dean of the College of Agricultural Sciences. Dahl was cited particularly for his work in dune stabilization on Padre Island. (TECH PHOTO)

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CONTACT: Prabhu Ponkshe

LUBBOCK--Hurricane Carla severely disturbed natural sand dunes and vegetation at Padre Island in 1961, and a Texas Tech University professor who helped restore the damage received the highest award granted a researcher by the university's College of Agricultural Sciences.

Dr. Bill E. Dahl, professor of range and wildlife management at Texas Tech, was the recipient Wednesday (Dec. 18) of the Research Award, presented by Dr. Samuel E. Curl, dean of the College of Agricultural Sciences.

After the hurricane damaged the island's sand dunes, the U.S. Army Corps of Engineers sought Dahl's assistance in restoring the area to its natural vegetation. By itself, nature would have taken 40 to 50 years to repair the damage, but Dahl's research had shown that the work might be completed in less than 10 years.

Research conducted by Dahl indicated that seaoats and bitter panicum would help rebuild and stabilize the sand dunes if cuttings of the two species were planted during winter or spring.

Dahl also made recommendations on fertilizer use and timing, and number of plants needed per unit area. He estimated that 250 man-hours per mile would be sufficient to rebuild the vegetation along the damaged dunes.

The information was also used by state agencies who wanted to prevent sand from blowing along highways in the Gulf Coast area.

Dahl worked on the project from 1968 to 1976. Several graduate students also assisted him in the investigation.

Dahl's research interests also include brush control and management, seeding and vegetation surveys.

Born in Cement, Okla., Dahl came to Texas Tech in 1967 from Colorado State University, where he taught range management. Before that he worked with the Colorado Agricultural Experiment Station at Akron and the Bureau of Land Management in Rawlins, Wyo.

Dahl received his bachelor's degree in animal husbandry from Oklahoma A&M University, Stillwater, in 1951 and the doctor's degree in range management from the University of Idaho, Moscow, in 1966.

He is the author of numerous research publications on range science. During the last 12 years at Texas Tech, he has served as a major professor for more than 15 graduate students. Five graduate students completed their theses and dissertations under Dahl's guidance this fall.

Cutline-----

CROSBYTON PROJECT CONTROL COMPUTER--David Lubin, left, of E-Systems of Dallas works with Texas Tech University graduate student Karen Watson of Fort Worth in preparation for tests on an Analog Design Verification System for the Crosbyton (Texas) Solar Energy Project. Lubin wrote the program for the ADVS control computer which can monitor all important points in the system, open and close valves, detect any malfunction and select alternative methods of operation. The Department of Energy contract for the research is held by Texas Tech University. E-Systems is the primary subcontractor. Lubin is the son of Mrs. Muriel Lubin, Pine Bluff, Ark.

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CONTACT: Dan Tarpley

LUBBOCK--An advanced graduate class in educational administration will be offered during the spring at Western Texas College and will be taught by Dr. Berlie Fallon, professor of education at Texas Tech University.

The class will meet from 6-9 p.m. Thursdays with the first session on Jan. 10. Registration and classes will be conducted in the Board Room of the Administration Building at the Snyder institution.

The class in "Trends, Issues, and Problems in Administration,"

(EDAD 5192) is designed to concentrate on practical problems

administrators and supervisors must deal with in fulfilling their

daily tasks. Consequently course topics will depend upon contemporary

needs, including busing, federal funds, state and federal legislation

and teacher dismissal.

The class is open to all students having graduate status. Course credit can be applied to a program of certification in administration.

Persons interested in obtaining more information should attend Mary Pinkston at Western Texas College.

CONTACT: Dan Tarpley

LUBBOCK--An advanced graduate class in public education which may apply toward certification in administration and supervision will be offered for the first time in Lamesa this spring by the College of Education at Texas Tech University.

The course in general supervision (EDAD 5310) will be presented from 6-9 p.m. Wednesdays, starting Jan. 16. Registration will be conducted during the first class session in Lamesa High School Student Center on North 14th St.

The course places emphasis on principles, planning, organization and processes of supervision in both elementary and secondary schools, according to Dr. Paul Zintgraff, professor of education at Texas Tech.

If the course receives satisfactory enrollments, additional classes will be offered in Lamesa next year, Zintgraff said.

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LUBBOCK--Ronald Grutz, Texas Tech University graduate student in business administration from Davenport, has been elected president of the Business Graduate Students Society at the university.

Grutz is the son of Mr. and Mrs. Lloyd Grutz, 2616 East Central Park Avenue, Davenport. He is a 1965 graduate of Assumption High School, Davenport, and a 1975 graduate in economics from St. Ambrose College, Davenport.

He entered Texas Tech about a year ago and will complete requirements for a master's degree in management next December. He is a research and teaching assistant in business management.

Before coming to Texas Tech to work on a graduate degree, he held management positions with Oscar Mayer Co. in Davenport and Sherman, Texas. After he received his bachelor's degree he became superintendent of DuQuoin Packing Company, DuQuoin, Ill. He also served as plant superintendent of Louis Rich Foods at West Liberty, Iowa.















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LUBBOCK--Perhaps Elizabeth Edwin was born to be a yearbook editor.

The 20-year-old Texas Tech University junior from El Paso has been involved with yearbooks in some capacity since the seventh grade and currently is in her second year as co-editor of Tech's 600-page annual, La Ventana.

"I've always been on a yearbook staff and I have never thought of not being on one while in school," Edwin says.

The daughter of Dr. and Mrs. John R. Edwin, 8700 Parkland, El Paso, Edwin is majoring in journalism/public relations in Tech's Department of Mass Communications. She serves as chairman of its Student Advisory Committee.

Edwin, who is the reigning Fabens Maid of Cotton, credits Burges High School journalism teacher Carolene English—a Tech graduate, by the way—with sparking her interest in journalism, even though she had been bitten by the yearbook bug several years earlier.

She served on the Burges' "Hoofbeats" staff as sophomore class editor, student life co-editor and editor-in-chief, developing an intense interest in layout and design, which complements her love of art, expecially oil painting, decopage and sketching.

Edwin and yearbook co-editor Beverly Jones of Richardson take their yearbook work at Tech very seriously, demanding perfection not only of subordinates but also of themselves. In addition to routine administrative duties, they edit all yearbook copy, check page layout and design for consistency of style and approve all photographs. They are not easy to please, as their 20-member staff has found out.

Their efforts last year won La Ventana a First Class rating from the Associated Collegiate Press and they're shooting for all American in 1980.

Putting out Tech's popular yearbook, which attempts to provide complete coverage of the year, is not an easy task since there are 23,000 students, 1,500 members of the faculty, six colleges, schools of law and medicine, sororities, fraternities, a major Southwest Conference football team and uncounted other organizations.

Misses Edwin and Jones have approached the task systematically however, holding routine, daily office hours and calling their staff in on weekends for workshops as well.

Even with all that, the job cannot help but cut into valuable study time and social life. But the work doesn't bother Elizabeth Edwin.

She's always been busy, wherever she is. At Burges, it was
Quill and Scroll President, seven choirs, and uncounted other activities,
including two years in the dance company of The Miss Texas-USA pageant.

At Tech, she has her yearbook work, the Mass Communications duties and activities related to her sorority, Pi Beta Phi. She also has found time to participate in the Miss Lubbock-USA Pageant, finishing as third runner-up, and continues her interest in singing, dancing, oil painting, sketching, etc., etc.

Her high school yearbook work earned Elizabeth Edwin several awards in layout, copy, design and cover design, and she has continued that success at Tech.

Selected as a freshman to edit La Ventana's "Vogue" magazine on the strength of her performance at Burges, Edwin received a first place award for yearbook layout and theme in competition sponsored by the Rocky Mountain Collegiate Press Association, which also gave La Ventana first place in "general excellence."

The Tech Student Publications Committee chose her, although only a sophomore, a co-editor of the 1979 book and subsequently re-elected her.

Cutline----

MENARD NATIVE HONORED--Mrs. Grace Thompson, secretary in the Office of the Dean of Students at Texas Tech University and a former resident of Menard, has been recognized for "outstanding service." She is presented a plaque by Interim President Lawrence L. Graves in ceremonies at the university. She "has demonstrated all the competency, reliability, empathy, perseverance, and sense of humor necessary to provide a stable working atmosphere in her Office of the Dean of Students. With maturity, honesty and a sincere desire to be of service, she has left her work on this university as a challenge for others to meet," her citation said. (TECH PHOTO)

32-12-21-79 Cutlines----

HONORED FOR OUTSTANDING SERVICE--Four employees of Texas Tech
University were recognized this week for "outstanding service,"
three of them shown above (with interim President Larry L.
Graves who made the presentations). They are, from left,
Crayton W. Awtry, buyer in the Purchasing Department; Grace S.
Thompson, secretary in the office of the Dean of Students; and
Horace Tyree, supervisor, Custodial Services, Residence Halls.
The fourth recipient, George Scott Jr., associate director of
Student Life, was on leave and unavailable for the presentation
and the photo. (Tech Photo)