

Date	Stories and Outlines	Locals	Reg. Dail	Reg. Week	50 M's	Hometowns	Selected	Explanation
1-10-10-77	TIA Counseling Center Seminar	✓						adjacent countries
2-10-10-77	SWTC Convention tour	✓	✓		✓			
3-10-10-77	Song	✓	✓	✓	✓		✓	ag. list
4-10-10-77	PSA Planning Placement Session	✓	Radio					
5-10-10-77	PSA Study Seminar	✓	Radio					
6-10-10-77	Law School Admission Test	✓						
7-10-10-77	PSA Library Show	✓	Radio					
8-10-10-77	6 (areas) Workshop	✓	Radio					
9-10-10-77	Canadian Brass	✓					-	adjacent countries
10-10-10-77	PSA. Swiss Short Course	✓	Radio; TV					Regional Radio
11-10-10-77	PSA Areas Seminar	✓	TV					
12-10-10-77	PSA Communication Skills Workshop	✓	T.V.					
13-10-10-77	PSA " "	✓	Radio					
14-10-10-77	Library tour	✓						
15-10-10-77	James B. Hood	✓	✓					
16-10-10-77	Hersagee - Teach Grand	✓	✓					
17-10-10-77	Multi-cultural Education	✓						
18-10-10-77	Peterson Appointment	✓	✓					

Date	Stories and Outlines	Locals	Reg. Dail	Reg. Week	50 M's	Hometowns	Selected	Explanation
19-10-8-77	Osborn (TCAS A.S.)	✓	✓	✓	✓		✓	ag list
20-10-8-77	Orchestra Camp	✓					✓	adj. countries
21-10-9-77	"Patience"	✓					✓	adj. countries
22-10-9-77	Mayer's Business	✓						
23-10-9-77	Water Research	✓	✓					
24-10-9-77	PSA Summer House for Museum	✓	✓	Radio				
25-10-10-77	Cancer Planning Workshop	✓					✓	adj. countries
26-10-10-77	Meat Processing Short Course	✓				✓		
27-10-10-77	Ag Chemistry	✓				✓		
28-10-10-77	Two Wagons' outline	✓	✓	✓				
29-10-10-77	Fulbrook Lake Site	✓	✓	✓	✓		✓	archeologist adj. countries
30-10-10-77	Steel Workshop	✓	✓	✓				
31-10-10-77	First-year teachers	✓	✓	✓				

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CONTACT: Jean Terrell

LUBBOCK--Southwest Theatre Conference (SWTC) members have been invited to one of the world's longer parties--longer both in time and in miles covered.

The party will begin August 13 in Fort Worth and continue for 28 hours and 1,038 miles aboard a reserved car on a Chicago-bound Lone Star Amtrack train, according to Ginger Perkins, business manager for theatre arts at Texas Tech University and "special Amtrack coordinator" for the SWTC.

SWTC conventioners have reserved the special Amtrack car to generate enthusiasm for the American Theatre Association (ATA) convention beginning August 14 in Chicago and to save transportation costs.

The party is being billed as "the longest party in the history of the Southwest Theatre Conference," but it may be even more. Perkins has contacted Guinness' World Records to see whether the party will qualify for listing as a world record.

The train ride will originate in Houston, but the major departure point will be Fort Worth. Conventioners may board at any of over 30 stops along the way including Norman and Oklahoma City, Okla., Wichita, Emporia and Lawrence, Kan., and Kansas City, Mo.

-more-

swtc convention train / add one

Commencing in Fort Worth, free snacks, sandwiches and drinks will be served throughout the trip.

By arranging ticket reservations through Perkins, SWTC members can travel to the ATA convention for less than half the comparable air fare from various points along the route.

Although designed primarily for SWTC members, the train ride is available to any ATA conventioneer.

Interested ATA members may obtain reservation forms by contacting Perkins at the Texas Tech University Theatre, Box 4298, Lubbock.

-30-

2-6-6-77

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CONTACT: B. Zeeck

ATTN: Science and Agriculture Editors

LUBBOCK--It takes only a little observation to know that plants react to light. They grow toward the light. Morning glories open their blossoms at sunrise. Florists, using light, can force chrysanthemums to bloom in winter and spring, poinsettias to bloom at Christmas and lilies at Easter.

The chemicals in the plants which trigger the reactions to light are pigments, equivalent to rhodopsin, a pigment in the human eye enabling man to discern objects.

A Texas Tech University chemist, whose major research interest has been in the area of skin cancer causes, is making a special study of plant pigments. There are two which have been isolated, a yellow derivative of vitamin B2 and the greenish blue phytochrome.

Dr. Pill-Soon Song, Horn Professor of Chemistry at Texas Tech, is concentrating his studies on molecular changes of the phytochrome pigment when it is exposed to different colors of light.

Although his goal is to understand the changes at the molecular level, a future use might well be human ability to better control plant behavior.

As in the human eye, plant pigments react to sunlight within a 10 billionth of a second, but the molecular changes differ according to the color of light encountered by the pigment receptors, Song said.

-more-

"Every plant, of course, has its biological clock which controls germination, blooming and fruit formation and ripening," Song said. "Triggering the clock is frequently the job of the pigment."

He also gave as an example of the action of the yellow pigment the case of two forms of algae in a partially shaded tank. Algae is a microscopic, primitive plant sometimes seen on the surface of still water, in tanks or ponds, or as kelps and other seaweeds.

Exposed to light, one variety of algae moved toward the light and the other to the shaded portion of the tank. The trigger for the change came from the pigment receptor of the light, but the action varied according to the plant.

A primary achievement of plants is in conversion of light, or solar energy, into food, Song pointed out. To understand this conversion it is essential to begin with an understanding of molecular changes in the triggering mechanisms of pigments as they are exposed to different kinds or colors of light.

Song is professor of biochemistry in the Department of Chemistry at Texas Tech. Editor-in-chief of the scholarly "Photochemistry and Photobiology," he is also a member of the U.S. Committee for Photobiology of the National Academy of Sciences National Research Council and of the Biophysics and Biophysical Chemistry Study Section of the National Institutes of Health.

His work in plant pigments has been supported by grants from the National Science Foundation and the Robert A. Welch Foundation of Houston.

Graduate students working with him in this investigation include Robert Fugate of Pampa, Tex., Jack Gardner of Marshall, Tex., Quae Chae, Sing Ha Oh and Jin Jung, all of Korea, and Ed Walker of Salt Lake City, Utah.

cutline-----

NANOSECOND

MEASUREMENTS IN NANOSECONDS--Dr. Pill-Soon Song, left, Horn Professor of Chemistry at Texas Tech University, and graduate student Robert D. Fugate check a printout on a nanosecond time resolved spectrometer which measures molecular changes that occur in plant pigments within one billionth of a second when the pigment is exposed to light.

(Tech Photo)

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3-6-6-77

EDITOR'S NOTE: Fugate is the son of Mr. and Mrs. R. A. Fugate, 1908 N. Zimmers, Pampa. He earned the bachelor of science degree at Texas Tech University and now is working toward the doctoral degree in chemistry.

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CONTACT: Worth Wren

ATTN: Public Service Directors

(Please use this PSA prior to or on June 22. Thanks much.)

30 seconds

THERE ARE CAREER OPTIONS, OTHER THAN TEACHING, FOR EDUCATION MAJORS. TEXAS TECH UNIVERSITY'S CAREER PLANNING AND PLACEMENT SERVICE, COLLEGE OF EDUCATION AND WOMEN'S CONTINUUM ARE PREPARED TO EXPLORE THESE OPTIONS WITH INTERESTED PERSONS JUNE TWENTY-SECOND. A BROWN BAG LUNCHEON SEMINAR IS PLANNED FROM TWELVE-THIRTY P.M. TO TWO-THIRTY P.M. THAT DAY IN ROOM 235 OF THE ADMINISTRATION BUILDING. WOMEN'S CONTINUUM URGES ANYONE SEEKING A CAREER IN EDUCATION TO ATTEND THE FREE SESSION. FOR INFORMATION CALL 742-2192 FOR MARY BOTKIN.

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4-6-6-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

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STUDYING REQUIRES A GREAT AMOUNT OF SKILL, AND THE TEXAS TECH UNIVERSITY COUNSELING CENTER AND WOMEN'S CONTINUUM ARE PLANNING A SEMINAR TO IMPROVE STUDY SKILLS, JUNE THIRTEENTH, FIFTEENTH AND SIXTEENTH. NOTE-TAKING, TEST-PASSING AND TIME-SCHEDULING ARE AMONG THE TEN VITAL STUDY SKILLS INCLUDED IN THE TRAINING. CLASSES WILL BE FROM ONE TO THREE P.M. EACH OF THE THREE DAYS IN ROOM 216 OF WEST HALL. RESERVE SPACE IN THIS FREE SEMINAR BY CALLING BARBARA PILLOW AT 742-2192 BY JUNE TENTH.

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5-6-6-77

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CONTACT: Dan Tarpley

LUBBOCK--The Law School Admission Test, required of candidates for admission to the Texas Tech University School of Law and most American law schools, will be given Oct. 8 and Dec. 3, this year, and Feb. 4, April 15 and July 15, next year.

Announcement of dates of administering the test was made by Annette Marple, assistant dean and associate professor at Texas Tech's law school.

The test will be given simultaneously at centers in the United States, Puerto Rico, Canada and the Canal Zone, Dean Marple said. The tests at Texas Tech will be given at the Law School.

The test is administered by the Educational Testing Service under the policy direction of the Law School Admission Council, an organization consisting of one representative from each of the 163 law schools accredited by either the American Bar Association or the Association of American Law Schools. The test was taken last year by more than 130,000 candidates whose scores were sent to more than 200 law schools.

Marple said candidates should make separate application to each law school of their choice and to ascertain from each whether it requires the Law School Admission Test.

Since many law schools select their freshman classes in the

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spring preceding entrance, candidates for admission to next year's classes are advised to take either the October or December test. Candidates for admission to law school in 1979 may wish to take the April or July, 1978, test.

The half-day test is given in the morning. It is designed to measure certain mental abilities deemed important in the study of law and thus to aid law schools in assessing the academic promise of their applications, Marple said.

The "Law School Admission Bulletin and Study Guide," which includes a sample test, registration information, a list of test centers, and a registration form, should be obtained by candidates in the U. S. at least six weeks in advance of the desired testing date. Registration form and fees must be post-marked 30 days before the test date to avoid an additional late registration fee and to guarantee being tested.

Registration materials may be obtained after Aug. 1, 1977, from most colleges, universities or law schools or after July 1, 1977, by writing directly to Law School Admission Services, Box 944, Princeton, N. J. 08540.

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CONTACT: B. Zeeck

LUBBOCK -- Two Amarillo high school students have received scholarships for studies in music at Texas Tech University.

Susan Blackerby, 1930 S. Highland, a graduate of Caprock High School, was awarded a full scholarship for one year with the Texas Tech Symphony Orchestra, to be renewed on the basis of her academic record. She is a violinist.

Tawnys Bryan, 5216 Loyce, a graduate of Amarillo High School, received a 1977-78 scholarship for studies in saxophone.

Awards recognize musical ability demonstrated in auditions, scholastic ability and, in some cases, need.

Blackerby played in her high school orchestra, was in the all-state symphony orchestra three years and is a member of the Amarillo Symphony.

Bryan was a piano concerto audition winner in 1977 and also plays the organ and harp. She was a member of her high school orchestra and band, all-region and all-area bands.

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6-6-21-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

(Please use this PSA prior to or on June 10. Thanks.)

30 seconds

THE TEXAS TECH UNIVERSITY LIBRARY AND WOMEN'S CONTINUUM WOULD LIKE TO INTRODUCE YOU TO THE LIBRARY AND ITS SERVICES ON A SPECIAL TOUR AT THREE P.M., JUNE FOURTEENTH. SPECIAL EMPHASIS WILL BE GIVEN EDUCATION REFERENCES IF THE MAJORITY OF PARTICIPANTS ARE MAJORING IN THIS AREA. THE GUIDED TOUR NOT ONLY WILL GIVE YOU A LOOK AT THE LIBRARY BUT ALSO WILL TELL YOU HOW TO USE ITS RESOURCES. PLEASE CALL MARY BOTKIN AT 742-2192 BY JUNE TENTH TO RESERVE SPACE ON THE FREE TOUR.

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7-6-6-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

(Please use this PSA prior to or on June 10. Thanks again.)

30 seconds

WOMEN RETURNING TO SCHOOL WITH CAREERS IN MIND OFTEN FACE SOME DIFFICULT AND VARIED DECISIONS. A WEEKEND WORKSHOP JUNE TWENTY-FIFTH AND TWENTY-SIXTH IS BEING DESIGNED TO HELP WITH THESE DECISIONS. TEXAS TECH UNIVERSITY'S TESTING AND EVALUATION OFFICE AND WOMEN'S CONTINUUM WILL HELP WOMEN WITH THEIR ACADEMIC AND CAREER PLANS. PRE-WORKSHOP TESTING IS NEEDED TO HELP EACH PARTICIPANT. PLEASE CALL RIDGLEY DENNING AT 742-2192 BY JUNE TENTH TO SCHEDULE YOUR TESTS AND RESERVE WORKSHOP SPACE. A TESTING FEE OF THIRTY-FIVE DOLLARS IS REQUIRED.

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8-6-6-77

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CONTACT: Nita Gilger

LUBBOCK--Canadian Brass, a group of virtuosos in trumpet, French horn, trombone and tuba, will perform at the Texas Tech University Center Recital Hall, June 16, 8:15 p.m.

The band will present selections from Renaissance to ragtime music. They also will play a wide range of original music for brass and arrangements of Scott Joplin rags and J.S. Bach fugues and fantasies.

Canadian Brass, formed in 1970, has released several best selling records in Canada and the U.S.

The performers are known for their informality, wit and drama, combined with high musical standards.

Cost is \$2 for Texas Tech students and \$3 for the public. Tickets can be purchased at the University Center Activities Office or at the door the evening of the performance. Tickets for the public are available at both Hemphill-Wells stores in Lubbock.

More information can be obtained by calling Mary Beth Boring, cultural events advisor, at 742-3611.

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9-6-7-77

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CONTACT: Worth Wren

ATTN: Farm News Directors

(Please use this announcement prior to and on June 29. Thanks.)

30 seconds

PORK PRODUCERS, AGRICULTURE TEACHERS, COUNTY AGENTS AND OTHERS INTERESTED IN SWINE PRODUCTION ARE INVITED TO TEXAS TECH UNIVERSITY'S TWENTY-FIFTH ANNUAL SWINE SHORT COURSE JUNE THIRTIETH. THE COURSE WILL BE HELD AT THE FARMERS CO-OP COMPRESS AT 3800 SOUTHEAST DRIVE IN LUBBOCK, AND REGISTRATION BEGINS AT EIGHT-THIRTY A.M. ALL PARTICIPANTS WILL BE LUNCHEON GUESTS OF ELANCO PRODUCTS COMPANY, AND WALLCO INTERNATIONAL. THE COURSE WILL COVER PRODUCTION, PERFORMANCE, PRICE OUTLOOK, RESEARCH RESULTS AND FUTURE SWINE INDUSTRY TRENDS.

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10-6-7-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot. Thank you.)

10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? A BROWN BAG LUNCHEON
SEMINAR ON CAREERS FOR EDUCATION MAJORS, JUNE
TWENTY-SECOND, TWELVE-THIRTY TO TWO-THIRTY P.M.,
ROOM 235, ADMINISTRATION BUILDING.

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11-6-7-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

(*This is a What's What slide spot. Thank you.)

10 seconds

VIDEO

AUDIO

SLIDE #1....

WHAT'S WHAT AT TEXAS TECH? FREE COMMUNICATION
SKILLS WORKSHOP, JUNE TWENTY-NINTH, THREE P.M.,
ROOM 216, WEST HALL. DEADLINE TO RESERVE SPACE, JUNE
TWENTY-FOURTH. CALL 742-2192.

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12-6-7-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

(Please use this PSA prior to or on June 24. Thanks very much.)

30 seconds

JOAN HARRIGAN OF THE TEXAS TECH UNIVERSITY COUNSELING CENTER
WILL CONDUCT A FREE COMMUNICATIONS SKILLS WORKSHOP JUNE TWENTY-NINTH
IN ROOM 216 OF WEST HALL. THE THREE P.M. WORKSHOP WILL FEATURE
TECHNIQUES FOR DISCUSSING ISSUES AND ARRIVING AT CONSENSUS DECISIONS
WITH GROUPS. COMMUNICATION SKILLS ARE THE KEYS TO EFFECTIVE DECISION-
MAKING, AND THIS WORKSHOP CAN HELP. PLEASE CALL BARBARA PILLOW AT
742-2192 BY JUNE TWENTY-FOURTH TO RESERVE SPACE FOR THE FREE WORKSHOP.

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13-6-7-77

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CONTACT: Jimmy Tate

LUBBOCK--The Women's Continuum and the Texas Tech University Library will sponsor a guided tour of the Texas Tech Library at 3 p.m., June 14. The tour is free to all students and others interested.

It will feature instructions on how to use basic references, abstracts, and microfilm. Introduction of the different sections and how to locate information in them also will be presented.

The tour will be conducted by the reference staff of the library.

Special emphasis will be given education references if the majority of participants are majoring in this area.

Contact Mary Botkin at 742-2192 by June 10 to reserve a space for the tour.

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14-6-7-77

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CONTACT: Nita Gilger

LUBBOCK--James R. Hess, newly-appointed assistant director of the Texas Tech University Ex-Students Association, has been named a Distinguished Alumnus by Ferris State College, Big Rapids, Mich.

Hess served as director of Alumni Affairs at Ferris State College for 17 years. He was graduated from Ferris in 1957 with a business education degree.

Accomplishments during the 17 years include program growth and reorganization, improved record-keeping and increased program activity, Hess said.

The Ferris Alumni Association grew from 10,000 to 45,000 under Hess' leadership. He also helped organize separate alumni associations for each of the six schools at the college.

Hess helped establish booster clubs, a development council, a fund-raising program and a student alumni service board.

As a student at Ferris, Hess lettered in football two years and was president of the varsity club and the sophomore class.

Hess' wife, Dixie, was assistant director of athletics at Ferris College and a professor in health and physical education.

The Hesses have a daughter, Marty, 11, and will be living at 6007 Oxford, Lubbock.

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CONTACT: Jean Terrell

LUBBOCK--The teaching careers of two outstanding Texas Tech University professors, Levi M. Hargrave and Thomas L. Leach, are being commemorated by the establishment of Tech's first agricultural education scholarship fund.

Hargrave will retire August 31 of this year after 31 years. Leach will retire in 1978 after 40 years at the university. The scholarship fund has been established by former students and friends in recognition of their contributions to education.

Donations should be mailed to the L. M. Hargrave-T. L. Leach Agricultural Education Scholarship Fund, Agricultural Education Department, Texas Tech University, Lubbock, Tex. 79409. All checks should be made to the Texas Tech University Foundation.

Hargrave has served as superintendent of the Texas Tech Judging Contest for 20 years. He has been chairperson of the scholarship committee for agricultural sciences and was recently named teacher of the semester by the students' Agricultural Council.

Receiving the Distinguished Service Award for 1960 from the Vocational Teachers Association of Texas, he has also been honored several times by the Future Farmers of America.

-more-

He was commended for his distinguished support of Texas 4-H Club Youth by the Texas 4-H in 1969 and named Teacher Trainer of the Year for Texas in 1970. He has supervised the Market Barrow Show at the State Fair of Texas and educational exhibits at the Panhandle South Plains Fair.

Chairperson of the Department of Agricultural Education since 1961, Leach has served as superintendent of the beef cattle show at the State Fair of Texas and helped develop state pre-employment laboratory training programs in feedlot management, meats, agricultural chemicals and agricultural mechanics.

He was honored as teacher of the spring 1977 semester by the students' Agricultural Council at Texas Tech and received the Distinguished Service in Agricultural Education Award from the Southern Regional Agricultural Education Association. He has also been recognized for his many contributions to Young Farmer Education in Texas.

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CONTACT: Nita Gilger

LUBBOCK--Integrating the contributions of multi-cultures is the emphasis of a Texas Tech University education workshop being attended by 34 Lubbock Independent School District teachers through June 17.

The workshop was made possible through a U.S. Office of Education grant awarded to Stephen F. Austin State University, Nacogdoches, to establish the Texas Center for the Development of Human Resources.

Staff training coordinator for the Development Center, Beatrice T. Villarreal, visited the Texas Tech workshop to promote the staff training aspect of the program and to consult with workshop leaders.

Villarreal has been working in the development program since its inception in October, 1976. Before that time, she taught English, Spanish, reading and English as a second language in the Fort Bend Independent School district in Sugarland and later taught Spanish for bilingual teachers at Houston Baptist University.

Purpose of the workshops, according to Villarreal, is to emphasize the value of contributions of all ethnic groups through multi-cultural education and human relations. The objectives are

-more-

multi-cultural education / add one

obtained through development of teacher awareness, development of strong self-concepts and awareness in students, the provision of career assistance in coping with people of different races, and the growth of a more effective decision-making ability in students.

"The ultimate result of the program in general and the workshop at Texas Tech will be a greater recognition and awareness of the cultural inputs from all ethnic groups," said Dr. Ralph M. Carter, Texas Tech education professor and director of the workshop.

Concurrent workshops are in progress throughout Texas with approximately 600 Texas teachers enhancing their multi-cultural education techniques.

"Leadership and creativity are two primary qualities we hope to assist teachers develop," Villarreal said. "The program is really human relations and learning to meet the needs of all children."

Teachers participating in the workshop must develop an instructional unit or module which will provide a six-week program on ethnic studies and human relations.

The idea, said Villarreal, is not to exclude teaching materials presently used, but to infuse an emphasis of the contributions of different cultures into the ongoing curriculum.

Another requirement of the workshop teachers is to organize their material so it can be used by other teachers or adapted to different school settings.

-more-

multi-cultural education / add two

"We hope the multi-cultural workshop will have a spin-off effect," Villarreal commented. The Texas Education Agency has made multi-cultural education a priority in program emphasis.

Teachers participating in workshops promoting this priority are given \$200 for tuition and \$100 for materials to be used in formulating multi-cultural programs.

"We hope the funds provided will be an incentive for teachers to develop creativity and excellent materials to promote multi-cultural education in Texas," Villarreal said.

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17-6-8-77

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CONTACT: Dan Tarpley

LUBBOCK--D. N. Peterson has been appointed director of Admissions and Records at Texas Tech University, according to an announcement today by Dr. Charles S. Hardwick, vice president for Academic Affairs.

Peterson has been serving as interim director of Admissions and Records and Registrar since last December. The appointment is effective immediately, Hardwick said.

The new director says it is his intention to place high priority on blending Admissions and Records into one functional unit and working toward improving physical facilities.

Emphasis will be placed on service to students, the administration and the faculty, Peterson said. "It will be toward that end that we will begin some organizational changes, and, as funds become available, some of those changes will deal with systems."

Peterson expects to expand computer use in admissions processes, provide data for financial aids and other student service offices and supply more timely data for academic counseling.

He also foresees adjustment of registration procedures to assist departmental planning and student scheduling, which should ultimately develop into some form of advanced registration.

-more-

peterson appointment / add one

Peterson, 1938 graduate of Lamesa High School and '55 graduate of Texas Tech University in education, has been with the university since '69 when he was appointed assistant registrar.

He came to Texas Tech from San Angelo, where he was in the public school system from 1954 to 1959, at Angelo State University from 1959 to 1967, and an educational consultant with Lovett, Sellars and Associates, architects, from 1967 to 1969. At Angelo State he was business manager and secretary to the governing board. His responsibilities included all functions of business management.

-30-

18-6-8-77

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CONTACT: Prabhu Ponkshe

ATTN: Agriculture editors

LUBBOCK--Dwindling water sources in the Texas High Plains will significantly reduce dollars generated by crop production by the year 2015, but livestock gains will more than compensate for economic losses.

A Texas Tech University study estimates that the area will lose almost \$170 million in crop production by 2015, but will gain more than \$215 million in feedlot livestock, based on 1967 estimates.

Net increase, including economic activity of the herbicide and pesticide industry as well as the banking sector, will amount to \$323 million," says Dr. James E. Osborn, chairperson of the Department of Agricultural Economics at Texas Tech.

Dollar output of feedlots will climb mainly because of a \$212 million increase in their operations, Osborn explained.

Loss in crop production will come from a \$267 million reduction in irrigated crops, which will be only partly countered by a \$97.3 million increase in dryland farming by 2015. The study used existing data from 1967 to 1976, and projections were made for 1980, 1990, 2000, 2010 and 2015. The study area covered 56 counties in west and northwest Texas.

-more-

Osborn presented complete findings of his study at the Conference on Alternative Strategies for Desert Development and Management sponsored by the California Department on Water Resources and the (cq) Programme of Future Studies of the United Nations Institute for Training and Research, Sacramento, Calif., earlier this month.

Osborn said the major decline in irrigated crops will come between 1970 and 1980, as total dollar value drops from \$639.7 million to \$559 million. At the same time dryland farming should register the maximum increase from \$141.5 million to \$176.7 million.

Economic activity for cattle feedlot operations will also reach its maximum increase at the end of the current decade, he said. In 1970 cattle feedlot output was \$531.4 million with an expected increase to \$794.4 million by 1980. From then until 2015 cattle operations will decline to \$479.8 million.

Swine feedlot economic output increased from \$9.4 million in 1967 to \$23.7 million in 1970 and is anticipated at \$33.8 million by 1980 and then decline to \$15.7 million in 2015.

The California conference served as preparation for the United Nations Conference on Desertification to be held in Nairobi, Kenya, Aug. 29-Sept. 9. The director of Texas Tech's International Center for Arid and Semi-Arid Land Studies (ICASALS), Dr. Harold E. Dregne, will participate in that meeting.

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CONTACT: B. Zeeck

ATTN: Fine Arts Editors

The following is a correction for the news release dated 6-8-77 which is attached. We regret the necessity for this correction.

LUBBOCK--Students in the 1977 Texas Tech University Orchestra Camp will present a chamber concert at 7 p.m. Thursday in the University Center Courtyard. The final concert of the camp, featuring all participating students, will take place at 8:15 (cq) p.m. Friday in the Recital Hall of the University Center-Music Building. The concerts are free to the public.

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CONTACT: B. Zeeck

ATTN: fine arts editors

LUBBOCK--Three special concerts, free to the public, will be presented by participants in the 1977 Texas Tech Orchestra Camp which began June 6 and will end June 17.

The Orchestra Camp faculty will present its concert at 7 p.m., Tuesday, June 14, in the Recital Hall of the University Center. Students will present a chamber concert at 7 p.m., Thursday, in the University Center courtyard, and the final concert featuring all the camp students will take place at 8:15 p.m. in Recital Hall.

Prof. Richard Meek of the Texas Tech music faculty is director of the camp for approximately 100 students.

In the final concert Dr. Harold T. Luce, chairperson of the Tech Department of Music, will direct the high school orchestra in selections from "Organ Concerto in A Minor" by J.S. Bach, "Symphony No. 5 in B Flat Major" by Franz Schubert and "Synthesis for Orchestra" by Robert Washburn.

Meek will conduct the junior high school orchestra in selections from "The Peanut Vendor" by Moises Simons, "Three Easy Pieces for String Orchestra" by Burrill Phillips, "Elizabethan Dances" by Walter S. Hortly and "Divertimento in G Major" by Wolfgang Mozart.

Robert Meinecke, orchestra director in Dallas public schools, and Jo Ann Bonnington, orchestra director at Mackenzie Junior High

-more-

orchestra camp / add one

School in Lubbock, will direct the elementary school orchestra in selections to be announced later.

Orchestra camp faculty include: Luce, high school clinician; Dr. James J. Barber of the Tech music faculty, violin instructor; Dr. Virginia K. Kellogg of the Tech music faculty, chamber music instructor; Bonnington, elementary orchestra clinician and cello instructor; Carla Clark, Texas Tech student, bass instructor; Meinecke, violist and elementary orchestra clinician; and Gloria Mendoza, Texas Tech student, cello instructor.

Theory classes are taught and students have daily orchestra rehearsals, private sectional rehearsals and some instruction in chamber music.

20-6-8-77

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CONTACT: B. Zeeck

ATTN: Entertainment editors

LUBBOCK--The delightfully zany wit of Gilbert and Sullivan is returning to the Texas Tech University campus June 29 and 30 and July 1 in the annual summer dinner theater production of "Patience" by the Department of Music.

The opera is a spoof on the aesthetic movement of the late 19th century in England during the time of Oscar Wilde and James Whistler. Gilbert's libretto pokes fun at those who attach themselves to the artist's movement without understanding the art.

Dinner will take place at 6:30 p.m. in the University Center ballroom. Curtain time, in the University Center Theater, is 7:45 p.m. Tickets for the theater performance only are also available.

Tickets for dinner and the theater are \$6, and those for the show only are \$2.50. They are available by calling the University Center ticket booth, 742-3610, or at Hemphill-Wells, Jent's House of Music and the Harrod Music Company.

Prof. John Gillas is director of the Tech Music Theater. Prof. Kyung Wook Shin is musical director, and choreography is by Prof. Peggy Willis of the university's dance faculty.

Jana King, a graduate student in music, plays the role of the milk maid, Patience, and Tim King, also a graduate student, is cast as the poet, Grosvenor. The only other graduate student in the

-more-

patience / add one

cast is Mark Rogers, who plays the dragoon colonel, Calverley.

Jim Toland plays the pseudo-poet, Bunthorne. Jim Green is Bunthorne's solicitor. Sara Watkins is the elderly Lady Jane. All are seniors.

Other maidens are Kathy Heath as Lady Saphir, Candy McComb as Lady Angela and Jan Sisson as Lady Ellis.

Officers, besides Rogers, are Mike Morgan as Major Murgatroyd and John Priddy as the lieutenant, the Duke of Dunstable.

The chorus of maidens and other dragoons also are students.

-30-

21-6-9-77

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CONTACT: Nita Gilger

LUBBOCK--Texas Tech University political science Professors Dr. Lawrence C. Mayer and Dr. John H. Burnett, Jr., have written a new text, "Politics in Industrial Societies: A Comparative Perspective."

The volume is a comparative analysis of political structures and processes in mature industrial societies.

Mayer, who has taught at Texas Tech since 1969, is a graduate of the Universities of Florida, California (Berkeley) and Texas (Austin).

He also is the author of "Comparative Political Inquiry: A Methodological Survey," published in 1972.

Burnett has been a Texas Tech political science professor since 1966. He received the Ph.D. in 1966 and master's in 1960, both from Emory University, and bachelor's in 1958 from West Virginia Wesleyan.

John Wiley and Sons is publisher of the book.

-30-

22-6-9-77

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CONTACT: Mark Haller

LUBBOCK--Enhancing quality of the nation's waters is being studied by graduate students in the Department of Civil Engineering at Texas Tech University under a \$42,000 grant from the National Science Foundation.

"Although legislation has been enacted to protect the nation's water resources, laws alone will not solve the problem. Large commitments of money, manpower and time will be required to implement legislation," Dr. Robert M. Sweazy said. Sweazy, assistant director of the Tech Water Resources Center, is directing the project.

Three major areas of study are water reuse, urban and non-urban runoff and environmental impact assessment. Each has been emphasized in research previously conducted or coordinated by the Center. By using faculty expertise in Civil Engineering and other departments, the two graduate students involved in the project gain knowledge and skills requisite to restoration and maintenance of chemical, physical and biological integrity of the nation's waters.

The water reuse segment of the research is concerned with different ways groundwater can be kept safe from contamination.

The urban and non-urban runoff research will concentrate on impact on water quality by precipitation runoff from urban and agricultural lands.

-more-

water research / add one

Environmental impact assessment will evaluate effectiveness of similar studies previously made on many other federal projects dealing with water quality.

-30-

23-6-9-77

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CONTACT: Worth Wren

ATTN: Public Service Directors

(Please use this PSA during June. Thanks.)

30 seconds

BECAUSE OF SUMMER DEMAND BY GROWING NUMBERS OF VISITORS, THE MUSEUM OF TEXAS TECH UNIVERSITY AND ITS RANCHING HERITAGE CENTER HAVE ANNOUNCED NEW SUMMER HOURS. THE NEW HOURS ARE FROM TEN A.M. TO FIVE P.M., TUESDAY THROUGH SATURDAY. THE MUSEUM AND THE RANCHING HERITAGE CENTER WILL CONTINUE TO BE OPEN FROM ONE TO FIVE P.M., SUNDAYS, THIS SUMMER. THE TOURIST ATTRACTION WILL BE CLOSED, AS USUAL, ON MONDAYS.

-30-

24-6-9-77

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CONTACT: Nita Gilger

LUBBOCK--An academic and career planning workshop for women interested in returning to college will be offered at Texas Tech University, June 25-26, 9 a.m.-7 p.m., room 216, West Hall.

Undergraduates, graduates and prospective students who need to complete course work or obtain a degree are eligible to attend.

A primary purpose of the workshop is to advise participants in course selection which will complement their vocational interests.

Participants are required to supply a resume of their volunteer and career work and home management. A high school or college transcript also is required.

Dr. William J. Carter, supervisor of Texas Tech Testing and Evaluation, will conduct the workshop and administer tests which measure participants' priority interests and non-interests as well as natural aptitude.

The course will begin with developing individualized learning plans and outlining selections and order of courses within necessary time plans.

Because of the limited number of places interested persons should contact Ridgley Denning by June 13 at 742-2192.

Cost is \$35 per person.

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CONTACT: Jean Terrell

LUBBOCK--A three-week meat processing short course for vocational agriculture teachers begins Monday, June 13, at Texas Tech University.

Those attending the short course will receive certification for teaching meat processing pre-employment laboratory training in high schools. The Department of Agricultural Education in the School of Agricultural Sciences is conducting the course.

Topics to be covered include federal inspection, meat by-products, pork and beef carcass evaluation, meat curing and meat wholesaling.

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Editors' note: Participants include teachers from

Socorro -- David C. Bryson

Conroe -- Ronald K. Moore

Tyler (Robert E. Lee) -- Clyde Griffin

Redwater -- Joe Dan Lee

Canutillo -- George Smith

Laredo (Nixon) -- Gerardo Sepulveda

Tatum -- James Irwin

Big Sandy -- Dale Willis

Hallsville -- Jeff Seal

Edgewood -- Lee Howell

-more-

meat processing short course / add one

Hooks -- Grover C. Godfrey

Kilgore -- Bill Rosser

Waskom -- John Ewing

Chillicothe -- Jerry Baird

-30-

26-6-10-77

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CONTACT: Jean Terrell

ATTN: Features & History Editors

LUBBOCK--Two old wagons, loaded with precious cargos of southwestern history, are now on permanent display at Texas Tech University's Ranching Heritage Center.

Dr. Bob J. Roberson, a Levelland dentist, aquired both wagons and restored them to their original condition before donating them to Texas Tech.

The larger is a freight wagon made before 1915. Joe Tunnell of Levelland bought it when he was graduated from high school and used it to haul stone for construction of the first highway built between Cisco and Rising Star and later freight in El Paso.

Eventually, Tunnell shipped the wagon by rail to Hockley County to haul freight for several ranches. Reportedly, it was carried in the first immigrant car ever to come to Hockley County. An "immigrant car" was a single box car used to transport families and all their possessions.

He gave the wagon to Roberson, who rebuilt the body and restored the wheels and chassis before painting it red and green, its original colors.

The wagon exhibits unusual construction, with the tongue supported by a spring which keeps it from resting on the ground. The rear axle is mounted on a swivel joint which allows the axle to turn, thereby

-more-

providing a smoother ride over a rough surface.

The second is a spring wagon Roberson found 15 years ago while visiting on an Eagle County, Colo. ranch, owned by Levelland resident Kenneth Sutton. The wagon had been abandoned in a canyon. Originally, it had been owned by a rancher named Will Taylor, who brought it with him in 1889 when he homesteaded at the head of Salt Creek in Eagle County.

Taylor established a slaughter-house on his ranch and used the wagon to transport beef over Tennessee Pass to sell in a mining camp at Leadville.

The freight wagon may be viewed outdoors next to the Las Escarbadas building at the Ranching Heritage Center. The spring wagon is in the U Lazy S Carriage House.

Roberson said he had been interested in restorations for at least 28 years. "I just like to do it," he said and added that he has restored old cars as well as other wagons.

Roberson's son-in-law, Robert L. Watkins, distributive education specialist for the Levelland public schools, assisted Roberson with the restorations. Watkins and his wife are both Texas Tech graduates.

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CONTACT: B. Zeeck

LUBBOCK--The prehistoric West Texas range, where the mammoth, the bison and the saber-tooth tiger roamed, was home to culture after culture--from the stone age Clovis and Folsom man to the Apache, then the Comanche Indians and finally to man of the tin can age.

It is this span of cultures that archeologists at the Lubbock Lake Site are exploring in the summer of 1977. Four different sites within the lake site area are being painstakingly excavated to provide scientific explorations at opposite ends of the time scale.

The site is recognized nationally for its unusual continuity of cultures.

Thirty-five people, 20 of them students from 10 states and one foreign country, are engaged in the research sponsored by private and public funding. They use trowels to scrape through the ages and then dental picks to lift bones and artifacts, which are the telltale signs of early life at the site.

Soil removed from the site is sifted and washed and studied for evidence of pollen, insect remains and small animal bones to help determine changes in climate and biological environment.

Principal investigator is Dr. Eileen Johnson, zooarcheologist, who has said that the Lubbock Lake Site exploration, begun accidentally

-more-

in 1939, should probably continue another five or six years to give researchers a clear picture of its evolution from stone to pop bottle age.

At the four areas open at the site this year, the archeologists have found evidence of the Clovis period about 12,000 years ago, a Folsom butchering area about 10,500 years ago, a Plainview butchering site 9,800 to 10,000 years old, a late paleoindian camp probably 9,000 years old, Apache, Comanche and early pioneer life.

An early prize this year was discovery of a metacarpal from the forefoot of the extinct bear, Arctodus, to add to the early tools and bones from the saber-toothed cat, prehistoric elephant and horse, bison and mammoth.

Also located was a Plainview butchering tool and manufacturing debris from tools made by Folsom man, intermingled with bone fragments.

Historians located within about 50 yards of one of the digs, the pioneer George W. Singer store, which became a landmark and focal point for settlers before 1886.

"We would like to make a determined effort as soon as possible," Johnson said, "to determine the exact location of this early store. It burned in 1886 and was rebuilt, and the evidence of its location should be available."

Indicative of the site's importance is this summer's guest list: visiting archeologists from Australia, Michigan and Colorado as well as representatives of the Texas Archaeological Society and the Smithsonian Institution.

Lubbock lake site / add two .

The work is supported by the Texas Historical Commission, the National Science Foundation, the Center for Field Research of Educational Expeditions International Earthwatch and the city and county of Lubbock.

The site is open to public tours on Saturdays from 9 to 11 a.m. The only exception is the Fourth of July weekend.

-30-

29-6-10-77

EDITOR'S NOTE: If there are students from your circulation area working at the site, the home town information is carried on Add 3.

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CONTACT: B. Zeeck

ATTN: Agriculture, Education editors

LUBBOCK--"Feeding, Fitting and Showing Fat Steers and Heifers" is the title of a workshop to be held for high school agricultural education teachers June 23-24 under the auspices of the Texas Tech University Department of Agricultural Education.

Dr. Jerry D. Stockton of the Texas Tech agricultural education faculty is workshop director, and the teachers for the course will be Jerry Adams, vocational agriculture teacher at Abernathy, and Herman Boone, vocational agriculture teacher at Spearman. A portion of the workshop will be held at Abernathy High School because of facilities there, and a portion will be held on the Texas Tech campus.

"There is no bag of tricks to winning at livestock shows," Stockton said. "Work is at least 70 per cent of the difference between winners and losers. The other 30 per cent is know-how."

Within the 30 per cent, he added is the selection of the right animal, nutrition and health care, grooming and showmanship.

These aspects will be reviewed for vocational agriculture teachers during the workshop.

Participants will follow the winners' rules from the time the calf is 6 to 8 months old to the day of the show.

-more-

steer workshop / add one

Participants will examine livestock to see the qualities necessary for competition. Discussions will involve starting the animals, their general daily care, facilities, rations and characteristics of feed, parasite and disease control, grooming and showing.

Workshops in subsequent years, Stockton said, will deal with other livestock for show: swine in 1978, sheep in 1979, and cattle again in 1980.

-30-

30-6-10-77

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CONTACT: B. Zeeck

ATTN: Agriculture, Education editors

LUBBOCK--What has a one-act play to do with agricultural education in Texas high schools? Agriculture teachers contend it can be very relevant because the competition for students' time is a primary problem in teaching.

First-year teachers who received their degrees in 1976 from Texas Tech University, in response to a survey, said that interruptions from other school functions were among the most troublesome problems encountered as they began their teaching careers.

Organizational problems, from presenting course work to filing systems, were also high priority problems. But for the most part the first-year teachers appeared to be getting along well with their students, school administrators and the community.

Texas Tech agricultural education faculty hope to solve some of the problems for these and future teachers through two workshops offered this summer.

The first, June 22, is for those who responded to the survey. About 20 of them are expected to meet in what the director, Dr. Jerry D. Stockton, said he hopes will be the first of an annual series of workshops to help solve problems for first-year teachers.

-more-

first-year teachers / add one

The second related workshop will be a one-day session June 29 for teachers who supervise undergraduates in their practice teaching of agricultural education.

About 30 experienced educators are expected to attend. They will review problems pinpointed by the first-year teachers and results of the earlier workshop. During the day they will consult with faculty in agricultural education at Texas Tech to help prepare guidelines for improved student training.

Faculty for the workshops will be Stockton, Prof. T. L. Leach chairperson of the Department of Agricultural Education, Dr. Lewis Eggenberger and Prof. Levi M. Hargrave of the Texas Tech agricultural education faculty, and Ronnie Miller who is a vocational agriculture teacher at Whitharral.

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31-6-10-77

CONTACT: B. Zeeck

LUBBOCK--New hours for The Museum of Texas Tech University were announced Thursday (June 9).

Because of larger numbers of persons wanting to visit The Museum and its outdoor Ranching Heritage Center this summer, hours have been changed from noon to 5 p.m., Tuesday through Saturday, to 10 a.m. to 5 p.m. on those days.

The Museum will continue to be open from 1 to 5 p.m., Sunday, and closed on Mondays. There is a 3 p.m. daily show in Moody Planetarium of The Museum. The planetarium, as a part of The Museum, is closed Mondays.