

June 8-12, 81

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Texas Tech News

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

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CONTACT: B. Zeeck

LUBBOCK--Kenneth Laine Ketner, who has been chairman of the Texas Tech University Department of Philosophy since 1979, has been named Charles Sanders Peirce Professor of Philosophy.

Dean Lawrence L. Graves, dean of the College of Arts and Sciences, made the announcement.

The professorship was established in 1979 by an anonymous donor to provide scholarly leadership to Texas Tech's Institute for Studies in Pragmaticism. Peirce, considered America's foremost philosopher, founded the philosophy of pragmatism which has gained the worldwide interest of scholars.

In accepting the gift of \$187,500 to establish the professorship, Texas Tech University regents indicated the individual holding the position would direct teaching and research related to Peirce and would arrange for colloquia, seminars, lectures and publications supported by the endowment.

The professorship honors Peirce who was a philosopher, logician, scientist and prolific writer. He was born in 1839 and died in 1914. His father, Benjamin Peirce, was considered America's foremost mathematician in his day, and Charles Peirce's mathematical scholarship was profound. The Institute for Studies in Pragmaticism is devoted to all facets of Peirce's life and thought.

Ketner joined the Texas Tech faculty in 1971 and has been director of the institute since 1972. In addition to his work on Peirce's philosophy, he has major research interests in metaphysics, philosophical issues and conceptual problems in the sciences of man, and philosophical issues in technology.

He was presented a Texas Tech Research Merit Award last year. He is a past president and a fellow of the Charles S. Peirce Society, and a fellow of the American Anthropological Association. He is a member of the Semiotic Society of America and of the folklore societies of California, America and England. He is listed in "Who's Who in America."

Ketner has compiled three books on Peirce's "Contributions to 'The Nation,'" was the principal editor for the proceedings of the Charles S. Peirce Bicentennial International Congress; and was general editor and editor for primary materials for a microfiche edition of Peirce's complete published works and "A Comprehensive Bibliography and Index of the Published Works of Charles Sanders Peirce."

He serves on the editorial boards of three journals -- "Nature and System," "Ars Semeiotica" ^(cq) and "American Journal of Semiotics."

He frequently is asked to review publications related to Peirce and has an international reputation for his knowledge of the philosopher's works. Ketner's writings on folklore have appeared frequently in the "Journal of American Folklore" and other folklore journals.

He is the co-principal investigator for a National Endowment for the Humanities (NEH) grant for a preliminary study for a computer-assisted concordance of Peirce's work. The other principal investigator is David Pfeifer of the Principia College faculty. He also is manager for a National Science Foundation Grant to Carolyn Eisele to study Peirce's history of science manuscripts at the Texas Tech institute. Eisele is editor of the five volume "New Elements of Mathematics" by Peirce. Ketner has held several other NEH grants, and he has been among those influential in planning for making Peirce's homestead at Arisbe, Pa., a U.S. Park Service administered museum.

Among Ketner's works in progress is the preparation of a computer assisted instructional package for teaching Peirce's Existential Graphs to beginning logic students. This work, funded by a grant from Apple Computer Foundation, is being done with Dr. Donald L. Gustafson of the Texas Tech electrical engineering faculty.

Ketner earned the bachelor's degree at Oklahoma State University, the master's degree at the University of California-Los Angeles and the doctor's degree at UC-Santa Barbara.

CONTACT: Harvey Landers

LUBBOCK--The Cramer Athletic Training Workshop for sports injuries will be July 6-10 at Texas Tech University.

The workshop is for coaches, physical educators, health educators or anyone involved with athletic competition. Classes will cover basic techniques for the prevention and rehabilitation of athletic injuries.

Workshop instructors are Susan Leeper of Ector High School, Athletic Trainers Ken Murray and Kaye Cosby of Texas Tech and Dennis Hart of North Mesquite High School. The workshop is sponsored by Cramer Products Inc. and the Texas Tech Department of Health, Physical Education and Recreation (HPER). Graduate extension or continuing education credit is available.

Registration will be 8-8:30 a.m. July 6 in the Food Science annex lobby of the Texas Tech Home Economics Building.

In conjunction with the Cramer Workshop, HPER will sponsor a Sports Medicine Workshop July 5-6, to cover nutrition, cybex testing and power and orthopedic evaluation and rehabilitation. Registration will be 1-1:30 p.m. July 5.

Fee for the Cramer Athletic Workshop is \$80 for continuing education credit and \$100 for graduate extension credit. The fee for the Sports Medicine Workshop is \$20.

Housing and meals are available in Bromley Hall. With meals the cost is \$76.50 for a single room, \$62.50 for a double. Without meals the cost is \$47.25 for a single room, \$36.75 for a double.

For further information, contact Ed Burkhardt at (806) 742-3335, or at HPER, P.O. box 4070, Texas Tech, Lubbock, Texas 79409. To register, contact Nancy Schalk at (806) 742-2404.

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CONTACT: Preston Lewis

LUBBOCK--Dr. M.M. Ayoub, a Texas Tech University professor recognized internationally for his work in ergonomics, has received the highest research award of the American Institute of Industrial Engineers.

Ayoub, Horn Professor of Industrial Engineering, received the Dr. David F. Baker Distinguished Research Award at the institute's national meeting in Detroit May 18-22.

Given annually, the Baker award is made for outstanding service and contributions through research to the professional society.

Ayoub's research at Texas Tech has been in ergonomics, the study of man at work, including the task, the human factors required to perform the task and the environment in which it is done.

He was organizer and first director of the Ergonomics Division of the American Institute of Industrial Engineers. He has served as chairman of the American Industrial Hygiene Association Ergonomics Committee.

In 1961 Ayoub joined the Texas Tech faculty. In 1978 his outstanding work was recognized by Texas Tech regents who designated him a "Horn Professor." Named for Paul Whitfield Horn, Texas Tech's first president, the designation is the highest honor given to teaching faculty at the university.

Ayoub holds degrees from the University of Cairo and the State University of Iowa.

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CONTACT: Harvey Landers

LUBBOCK--Riders in the Sky, a Nashville trio that recreates the cowboy songs of early Hollywood, will perform June 17 for the first 1981 Dinner Showcase at Texas Tech University.

The trio has revived hit songs from the early cowboy movies of Gene Autry, Roy Rogers, The Sons of the Pioneers and other cowboy singers. Their songs are not country and western, but cowboy music, such as "Tumbling Tumbleweeds," "Cool Water" and "Ghost Riders in the Sky."

The trio has toured the country and recently appeared on the public television show, Austin City Limits, and at the Kerrville Folk Festival.

The West Texas barbecue served before the performance will begin at 7 p.m. and the show will start at 7:45 p.m. in the University Center Ballroom.

Tickets for the dinner and show are \$6 for Texas Tech students, \$7.50 for faculty and staff and \$9 for the public. Tickets for the music performance only are \$2 for students, \$3 for faculty and staff and \$4 for the public.

Reservations may be made by calling (806) 742-3610 or the University Center ticket booth.

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CONTACT: Preston Lewis

LUBBOCK--A \$3,000 grant for scholarships has been given to the Texas Tech University College of Engineering by the Alcoa Foundation.

Associate Engineering Dean Jimmy H. Smith accepted a check from Mike Halligan, an employee of the Aluminum Company of America's Point Comfort Operations and a 1980 civil engineering graduate of Texas Tech.

The contribution is for \$1,000 scholarships in mechanical, industrial and electrical engineering.

This is the 12th year the Alcoa Foundation has contributed to the Texas Tech College of Engineering.

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5-6-8-81

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FOR SCHOLARSHIPS--The Alcoa Foundation has given \$3,000 for scholarships in mechanical, industrial and electrical engineering to the Texas Tech University College of Engineering. Texas Tech Associate Engineering Dean Jimmy H. Smith, left, accepts the Alcoa check from Mike Halligan, an employee of Alcoa's Point Comfort Operations.

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CONTACT: B. Zeeck

ATTENTION: Agriculture Editors

LUBBOCK--The Department of Animal Science at Texas Tech University has announced the gift of 11 Appaloosa mares given by Alvin G. Davis for research and teaching in the College of Agricultural Sciences.

Dr. James C. Heird, who heads the program at Tech, said that it is extremely rare for a school to have a good, detailed Appaloosa herd for study. While some of the Davis mares will be sold, he said, some will be kept for breeding, teaching and research. Revenue from any sale will be used in research and teaching.

The Appaloosas will be used in an Appaloosa Judging Seminar Heird will conduct next Dec. 1-2. Heird and David Whitaker, doctoral candidate and instructor in animal science at Texas Tech, are preparing videotapes for the seminar, using animals exhibited at the Appaloosa National and Appaloosa World championship shows. Heird initiated a series of seminars with one devoted to Quarter Horse judging completed in late May.

The Appaloosa is an American breed developed by the Nez Perce Indians who used Spanish mustangs and developed them for their distinctive coat color -- solid color forequarters and spotted hindquarters. The Nez Perce once roamed over much of the Northwest but are now principally located in Idaho.

Davis is the executive vice president and general manager of the Ranching Heritage Association. He is a member of the National, the Texas, the Golden Spread and Eastern New Mexico Appaloosa Horse clubs.

CONTACT: Cheryl Duke

For release on or after June 14. (Sunday)

LUBBOCK--Watercolors by 59 artists from California to Maine, comprise the annual West Texas Watercolor Exhibit opening today (Sunday June 14) at The Museum of Texas Tech University.

Works were chosen from 281 entries nationwide by juror Ted Rose, watercolorist and art professor at Abilene Christian University.

The show is sponsored by the West Texas Watercolor Society and The Museum and will be on display through July 12. Exhibit chairman is Lois Lawrence, vice president of the West Texas Watercolor Society.

First place in the show was awarded Elizabeth A. Yarosz of Athens, Ohio, for her "Rite of Passage."

Second-place winner was John Fitzgerald of Trona, Calif., for his "Studio."

Third place went to George Dombek of Quincy, Fla., for his untitled watercolor.

Grumbacher medals were given for works which exemplify watercolor on paper and a brush technique, Lawrence said. Recipients were Guy Lipscomb of Columbia, S.C., silver medal, "The Hat Shop" and Dean Mitchell of Kansas City, Mo., bronze medal, "Winter Trunks."

Receiving cash awards, made available by anonymous donors, are Douglas Wichert of Long Beach, Calif., \$150, "Wall of Fire Two;" Kent Addison of Ballwin, Mo., \$100, "Still Life #995;" and Ivan McDougal of San Antonio, \$50, "A Gray Day."

Honorable mentions included McDougal, first, "The Shopper;" Robin Carnes of Chico, Calif., second, "untitled;" Diane Peters of Corpus Christi, third, "Oyster Bed;" Mary Ann Eubank of Pottsboro, Texas, fourth, "Out the Window;" Susan Murphy of Seabrook, Md., fifth, "Unhinged;" and Garry Morrell of Baltimore, Md., sixth, "Season's Together."

watercolor exhibit/add one

Lubbock artists represented in the show were Thomas Y. Chung, Leo Bernice Fix, Lawrence, Willard Robinson, Robert R. Secrest and Marsha Wilkes.

Other Texas artists whose works were chosen are Thalia Brunner and Nancy Havekost, both of El Paso, Nancy Carr of Levelland, C. Warren Cullar of Austin, Polly Erzinger of Sherman, Jimmy Dyer of Dallas, Elaine Greer of Irving, Hayden Hankins of Richardson, Nancy Rankin of Arlington, Paula Mallams of Midland and Mary Ann McCuistion o Vernon.

Other California artists represented include Fern Hudson and Jennifer Spencer, both of San Diego, Elaine Harvey of El Cajon, Gloria Jacobson of El Toro, Kathy Jacobi of Northridge, Joe Jaqua of Forest Knolls and Robert Hiram Meltzer of Beaumont.

Illinois artists represented are Fortunato of Palatine, Stella George of Glenview, William H. Jones of Evanston, Maxine Wishnick of Chicago, R.C. Williams of Rock Island and Alan Yau of Rolling Meadows.

Ohio artists include Ron L. Beahn of Hartville and Mieke Riedel of Alliance. Kentucky is represented by Margo Adams of Russell and Dale Bratcher of Louisville. Kansas artists in the show include Linda Faw Neher of Quinter and Kandy Tate of Wichita.

Other artists selected are Luella Morgenthaller of Ardmore, Md., Gary Townsend of Norman, Okla., Rita Elliot of Walden, Tenn., Donna Hutchinson of Arkadelphia, Ark., Toni M. Elkins of Columbia, S.C. and Nancy Hancock Cummins of Indianapolis, Ind.

Also, David Barba of Somerset, N.J., Tessa Johnson of Jackson, Wyo., Joseph Haroutunian of Steuben, Maine and John T. Salminen of Duluth, Minn.

cutline-----

For release on or after Sunday June 14.

CONTEST WINNER--This watercolor, entitled "Studio," by John Fitzgerald of Trona, Calif., is second place winner in the annual West Texas Watercolor Exhibit, to go on display today (Sunday, June 14) at The Museum of Texas Tech University. Fitzgerald is one of 59 artists represented in the show. Selections were made from 281 entries nationwide. The show, sponsored by The Museum and the West Texas Watercolor Society, will be on display through July 12. (TECH PHOTO)

cutline-----

For release on or after Sunday June 14.

ARTISTIC ESCAPE--This untitled watercolor by George Dombek of Quincy, Fla., won third place in the annual West Texas Watercolor Exhibit, to go on display today (Sunday, June 14) at The Museum of Texas Tech University. Dombek's work was selected from 281 entries nationwide and he is one of 59 artists represented in the show, sponsored by The Museum and the West Texas Watercolor Society. (TECH PHOTO)

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10-6-9-81

cutline-----

For release on or after June 14.

WINNING WATERCOLOR--This watercolor, entitled "Rite of Passage," by Elizabeth A. Yarosz of Athens, Ohio, is first place winner in this year's West Texas Watercolor Exhibit. The annual exhibit opens today (Sunday June 14) at The Museum of Texas Tech University, featuring works by 59 artists nationwide. The exhibit, sponsored by The Museum and the West Texas Watercolor Society, will be on display through July 12. (TECH PHOTO)

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CONTACT: Duncan McDowell

LUBBOCK--The federal administrator who oversees agricultural research and was agriculture dean at Texas Tech University for six years will speak on the future of nutrition research Wednesday (June 17) at Texas Tech.

The speaker, Dr. Anson R. Bertrand, is director of the Science and Education Administration, U.S. Department of Agriculture, Washington. From 1971 to 1978 Bertrand served as dean of Texas Tech's College of Agricultural Sciences.

The program, open free to the public, will be at 4 p.m. Wednesday in Room 169 of the Home Economics-Food Science Tower.

The presentation, entitled "A Healthy Future for Nutrition Research," will be the seventh in a university-sponsored interdisciplinary seminar series on nutrition.

Dr. Robert C. Albin, associate dean for research in the College of Agricultural Sciences, is chairman of the interdisciplinary seminar series committee which invited Bertrand to speak.

"Bertrand is the spokesman for a lot of policies affecting world food supplies and the way United States agriculture interacts in the world food situation," Albin said. "And, as former dean at Texas Tech, he knows the university and can tell how it relates to this picture. He knows the research funding available and the research programs needed for the 1980s," Albin said.

All of the federal educational, research and extension arms dealing with agriculture answer to Bertrand, Albin said.

Bertrand's presentation is being co-sponsored by the College of Agricultural Sciences and by the Department of Food and Nutrition in the College of Home Economics.

CONTACT: Harvey Landers/Cheryl Duke

Editor's Note: See attached for other cast members from your area.

LUBBOCK--Lubbock Summer Repertory's season will open with Rodgers and Hammerstein's "Oklahoma!" at 8:15 p.m. Friday (June 19) in the Lubbock Civic Center Theater.

The show will be the first of three musicals to be presented Fridays and Saturdays from June 19 through July 11 by the summer theater. Others will be "110 In The Shade" and "The Robber Bridegroom."

Lubbock Summer Rep is produced by Civic Lubbock, Texas Tech University Theatre and Texas Tech Music Theater.

In conjunction with the productions, the Summer Rep will feature barbecue dinners, arts and crafts of the Old West and wagon rides for children. The buffet dinners will be served in the Civic Center courtyard at 6:30 p.m. June 19, June 27, July 3 and July 11.

Ticket information and reservations for the musicals and the dinners are available at the Summer Rep box office at (806) 742-1936. Tickets for the dinners also will be available at the door.

"Oklahoma!" will be presented June 19-20 and July 3-4. Set in the western United States at the turn of the century, "Oklahoma!" is based on the play "Green Grow the Lilacs" by Lynn Riggs.

When Richard Rodgers took Oscar Hammerstein II as his collaborator and presented the musical in 1943, a new era in musical comedy dawned. Hammerstein's script celebrates American neighborliness, life and adventure on the frontier.

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summer rep/add one

A love triangle among "Laurey," played by Carrie Cole of Iowa Park, "Curly," played by Michael Morgan of Lubbock, and the sinister "Jud Fry," played by Jerry Smith of Lubbock, results in Jud's death and the marriage of Laurey and Curly.

Another comedic love triangle pits peddler "Ali Hakim," played by Anthony Mitchell of Lubbock and "Will Parker," played by Mark St. Amant of Portland, Ore., against each other. They seek the affections of "Ado Annie Carnes," played by Kimberly Murchison of Lubbock.

"Oklahoma!" is directed by John Gillas, professor of music at Texas Tech. Music Professor Philip Lehrman is musical director. Diana Moore, who teaches dance and physical education at Texas Tech, is choreographer.

The musical "110 In The Shade" scheduled June 26-27 is based on N. Richard Nash's "The Rainmaker." Music is by Harvey Schmidt and lyrics by Tom Jones.

Paul Richards, a guest performer with last year's Summer Rep, will be guest director of the production. He appeared in "Once Upon a Mattress" with Carol Burnett, "Camelot" with Richard Burton and starred in the original Broadway production of "1776."

"110 In The Shade" stars Cathy Crist of Corpus Christi, as "Lizzie Curry," a resigned spinster in a Southwestern Plains country town during a drought. Greg Burch of Clovis portrays "Starbuck," a con man who claims he can make it rain and in trying to work his magic, has a powerful effect on the lives of the people, particularly "Lizzie."

The girl's father, "H.C. Curry," is played by Weldon George of Lubbock. Brothers "Noah" and "Jimmy" are Ray Green and Tommy Halpain, both of Lubbock.

Mark McNair of Dayton plays "File," the sheriff.

Texas Tech spring graduate John Priddy of Ralls is musical director. Choreographer is Gaye Greever.

"The Robber Bridegroom," based on a novella by Eudora Welty, is a musical folktale set in Mississippi around 1800. The story centers around the romance between a gentleman bandit "Jamie," Terence Reilly of Lubbock, and romantically inclined "Rosamund," Kimberly Claybough of Lubbock.

"Salome," Rosamund's wicked stepmother, played by Debi Buckner of Lubbock, wants to kill her and seduce Jamie.

Rival bandits "Little Harp," Brent Adams of Lubbock, and "Big Harp," Michael Honaker of Frederick, Okla., want to kill and rob Jamie.

Through a series of crazy and bizarre events, meetings and character disguises, Jamie and Rosamund are united.

Ronald E. Schulz, theater arts professor, is director for the musical. Choreography is by Suzanne Aker, Lubbock dance instructor.

Music, ranging from mystical to toe-tapping hoe-down, will be directed by music Professor Susan Blinderman.

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LUBBOCK--Mark E. Haller has been named assistant director of development at Texas Tech University. Interim Director W.B. "Dub" Harris of the Office of Development made the announcement and said the appointment is effective immediately.

Haller will have primary responsibility for development office automated records.

Haller has served as assistant to the Texas Tech vice president of development and university relations since December 1978.

In 1978 and 1979 he was temporarily assigned as field representative for the Ranching Heritage Association, an organization which serves in support of the Ranching Heritage Center of The Museum of Texas Tech University. He also has worked as a political campaign aide.

As assistant to the vice president he has been involved in corporate relations research and general fund-raising assistance. He has worked with various support groups for the university and has been a sponsor of the Student Foundation.

Haller holds the bachelor's degree in mass communications from Texas Tech University. He is a member of the Executive Committee of the Lubbock Area Mass Communications Alumni Council. He also serves on the Solicitations Committee of the Ex-Students Association.

He is a member of the Texas Public Relations Association, the Council for the Advancement and Support of Education and the United Way of Lubbock.

CONTACT: Duncan McDowell

ATTENTION: Agriculture Editors: Dr. Gary L. Allee, Dr. Ray Hanks and Adair Merrill will be available for interviews with media representatives 8:30-9:10 a.m. or during the lunch hour, 12:10-1:10 p.m.

LUBBOCK--Swine producers feeling the pinch of high production costs will find sound tips on increasing efficiency at the 29th Annual Swine Short Course sponsored by Texas Tech University June 25.

The course will be held at the College of Agricultural Sciences Livestock Arena at Indiana Avenue and Brownfield Highway.

Professor Donald E. Orr Jr. of Texas Tech's animal science faculty said the short course will cover a range of topics, including sow management, nutrition and management of pigs, animal behavior, production efficiency and swine marketing.

The registration fee for the one-day seminar is \$10.

Registration will be 8-9 a.m. Commercial exhibits in the Livestock Arena will be open.

The program will begin at 9 a.m. with Dr. Samuel E. Curl, dean of Texas Tech's College of Agricultural Sciences, giving the opening remarks. Sessions end at 3:15 p.m.

Morning session speakers will include Dr. Gary L. Allee, professor of animal science at Kansas State University, Manhattan, Kan.; Dr. Ray Hanks, swine producer at Thrushwood Farms, Fairbury, Ill.; and faculty and staff from Texas Tech's Department of Animal Science. Dr. Leland F. Tribble, swine specialist and member of the Texas Tech faculty will preside.

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swine course/add one

Afternoon speakers will include Allee and Hanks, Dr. Robert W. Bell, chairman of Texas Tech's Department of Psychology, and Adair Merrill, swine producer from Animas, N.M., and past president, Arizona Pork Producers Association. Orr will preside.

Allee, a swine nutritionist, will discuss nutrition and feeding for optimum performance and efficiency for the life cycle of swine, including young pigs and growing-finishing swine. Allee operates a commercial swine farm in Manhattan, Kan., in addition to his teaching and research responsibilities at Kansas State.

Hanks, a partner in Thrushwood Farms, a farrow-to-finish operation producing 5,000 pigs per year, is also a partner in Thrushwood Farms Quality Meats, which markets the farm's pork. Hanks will speak on the management system for sow productivity at Thrushwood Farms and will discuss improving swine production efficiency.

Hanks received the 1978 Illinois Pork All-American award and is a member of the executive board of the Illinois Pork Producers Association.

Merrill, a partner in M&M Swine Farms, Animas, N.M., a farrowing operation, and a partner in a swine growing-finishing operation in Deming, N.M., is a member of the board of directors of the Arizona Pork Producers Association. He will review plans that the association, already experienced in cooperative marketing, has formulated for building its own pork packing plant.

Bell, an experimental psychologist, will discuss animal behavior as it relates to swine production. Tribble, Orr and other faculty and staff members of Texas Tech's Animal Science Department will present progress reports on their research. Proceedings for 1981 swine research at Texas Tech will be provided all who attend the course.

swine course/add two

Committee meetings of the Texas Pork Producers Association and the Texas Pork Producers Board, co-sponsors of the short course with Texas Tech's Animal Science Department, will begin at 3:30 p.m. Directors meeting of the association and board will begin at 5 p.m.

Cooperating with Texas Tech in the swine short course are Elanco Products Co., Indianapolis, Ind., and Ralston Purina Company, Lubbock.

The short course is open to anyone interested in swine production. Orr expects 125 swine producers, agribusiness representatives and youth from West Texas and eastern New Mexico to attend the course.

For information contact Dr. Orr or Dr. Tribble, Department of Animal Science, Texas Tech University, Lubbock, Texas 79409, or call (806) 742-2825.

CONTACT: Duncan McDowell

LUBBOCK--Special needs of sickly babies who require intensive care at birth may not end when the infants leave the hospital, Texas Tech University researchers suspect.

Special training for these disadvantaged infants may be needed. But if that training can be done by parents and others in the home, the researchers believe, it could lessen the need for special education of some children in public schools.

The researchers estimate that, of approximately 3.4 million live births per year in the United States, 10-12 percent--roughly 400,000--could benefit from special home-based training to help the children develop physical coordination, self-help skills and perceptual-motor integration.

The home-based assistance would probably be more cost-effective than special education programs in schools and also could improve the quality of life for the children, the investigators suspect.

To confirm their suspicions with documented evidence, a team of scientists at Texas Tech's Research and Training Center in Mental Retardation has initiated a 10-year study of the development of certain children identified at birth as being "at risk."

Dr. Lawrence T. McCarron, associate director of the center and director of the research, said the study involves a long-term commitment to these children.

"Our purpose is to study the development of these high risk infants to see which ones later develop problems such as mental retardation, learning disabilities or physical disabilities," he said.

"We want to know the consequence of having a high-risk condition at birth, and we want to document the developmental trends in these high risk infants," he said.

A rehabilitation expert, McCarron identified four specific types of "at risk" infants: those with diabetic mothers, those with congenital infections such as rubella, those with signs of neurological damage from brain hemorrhage and those who suffered stress during birth.

"These are very sick babies," McCarron said. "They are not thriving, not up to par and not responding to external stimuli. For instance, they don't cry as loudly or feed as robustly as normal infants. They are lethargic and frail. Their heart rate is not strong and their muscle tone is flaccid."

The long-term study is a team effort involving the work of research associate Christine Clement, physical therapist Nancy Clopton, registered nurse Helen Brannon, intervention programmer Ann Tuck and Dr. Andrew Martin, research data coordinator.

All children in the study are referred to McCarron's team by physicians at Lubbock General Hospital, which has the only neo-natal intensive care unit in a 150-mile radius. Brannon assesses the infants immediately after birth. Other researchers will follow the children's development through age 10.

The researchers plan to design strategies for use at home by parents and others who will assist the high risk children to develop as normally as possible. These strategies are expected to benefit people who feed, toilet-train and teach motor skills to developmentally disadvantaged children.

McCarron and his associates also will study the difference between the children who receive developmental training and those who do not. Children in the latter category will be those living at great distances from the center and unable to participate in training sessions, McCarron said.

The research team began studying babies May 1 and will complete the first round of data analysis in three years.

The researchers want to know how many of these high risk children would normally wind up in special education classes without developmental training and help.

"We want to know what kinds of problems these children have and whether a special, home-based remedial strategy can help." McCarron said.

The researchers want to learn whether early identification and intervention in the home could keep some of the high risk children from needing costly special education programs in the public schools or at least lessen their need for special education. This kind of home-based assistance would also improve the quality of life for the children, McCarron said.

The center's parent agency, the National Institute of Handicapped Research, has awarded a \$150,000 annual grant for the study.

The center, associated with Texas Tech since 1972, has responsibility for research in developmental disabilities in Texas, Oklahoma, Arkansas, New Mexico and Louisiana.

The West Texas Rehabilitation Center in Abilene will assist with the research project.

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LUBBOCK--A modern house that can go through a winter without a heating bill or a summer without air conditioning expenses might, to the rational thinker, seem like something out of this world.

Fact is, though, it is something well grounded and very much of this earth. The concept is earth-sheltered housing, and it is being refined by Texas Tech University civil engineers concerned with energy-efficient housing design.

A residence designed by Dr. Ernst W. Kiesling and his associates to incorporate the best technology of earth-sheltered housing has finished its first winter without the natural gas being hooked up. And during the winter months, the temperature in the unoccupied residence never dropped below 58 degrees, even when the thermometer readings outside were as low as 6 degrees.

"There is so much thermal mass surrounding the house," said Kiesling, chairman of Texas Tech's Department of Civil Engineering, "that no weather change will affect interior temperatures very quickly."

Built in the canyon slopes of Lake Ransom Canyon, a residential development southeast of Lubbock, the house is covered by soil on two sides and the roof. With walls of 12-inch, concrete-filled cinder blocks and a steel joist roof covered with more concrete, the \$140,000 house costs about 20 percent more than a conventional residence with a comparable 2,875 square feet of living space.

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The house was completed in November, just in time for a record snowfall when temperatures Nov. 25-26 dropped at 10 degrees and never climbed above 35 degrees. Inside the vacant house temperatures held at 65 degrees or above, Kiesling reported.

Had the house been occupied at the time, the interior temperatures would have been higher, Kiesling noted. Occupants and their normal activities, such as the use of the oven, cooktop and lights, will generate heat and help keep temperatures within the 65- to 75-degree comfort range.

"Even with no one living there," said Kiesling, "the lowest temperature we saw in the house's best protected room, was 58 degrees and it was not until February that the temperature even dropped below 60 degrees. We are now confident that temperatures can be maintained within the comfort range during the winter without supplemental heating.

Fluctuations in interior temperatures are nominal, and those result more from occupants' action than from weather conditions. For instance, in the four-day period Feb. 22-25 outside temperature ranged from 30 to 78 degrees while temperatures inside varied only two degrees.

The earth-sheltered residence was purchased and then occupied on March 7. The increased activity produced enough heat to raise the the temperatures, which had been hovering at about 60 degrees, slightly above 65 degrees while outside temperatures ranged from the 30s to the 50s.

"So far the performance is even better than we expected," Kiesling said. "The main thing we wanted to achieve was to demonstrate the concept of earth-sheltered housing and to test its marketability. We want to overcome some of the reservations or concerns people have about living underground. It is not necessary to sacrifice features or livability to receive the benefits of earth sheltering."

Designed to eliminate these concerns, the house makes use of natural lighting in all rooms, either through windows in rooms bordering on unsheltered exterior walls or through skylights in interior rooms. The house has three bedrooms, living room, dining room, kitchen, breakfast room, 2½ baths, game room, study and two-car garage. An active solar water heater meets about 90 percent of the domestic hot water requirements.

In addition to energy efficiency and aesthetic appeal, the house offers additional advantages to the homeowner, Kiesling said. They include greater protection against hazards such as tornadoes, lower fire risks, less outside noise and lower maintenance than in conventional dwellings.

"All things considered," Kiesling said, "we think the concept will survive and become more common. For energy savings alone it is probably not economically justifiable at this time. The other benefits, though, do improve the economics."

Assuming a 12 percent annual escalation rate in the cost of fossil fuels, Kiesling estimated it would take 10-12 years for an earth-sheltered house to reach the breakeven point on energy costs.

"From then on, the savings are dramatic," he said.

Even though an earth-sheltered house may have an initial cost 20 percent greater than a comparable conventional house, there are still financial advantages. Interest payments on the mortgage, for example, are tax deductible while energy bills are not. Resale value is also expected to be much higher for the energy-efficient earth-sheltered house. Insurance savings are anticipated when insurance industry statistics catch up with the earth-sheltered concept.

The next step in evaluating the house's energy performance will come this summer when air conditioning is a necessity for comfort in conventional houses in the Lubbock area. Kiesling expects only a limited need, if any, for the air conditioning unit in the earth-sheltered house. Simply by opening windows during the cool nights, opening and closing drapes at the proper times and circulating air by fan through the house, residents may avoid extensive use of the mechanical cooling system.

Other factors enter into the house's cooling. Recent rains at the Lake Ransom Canyon house, for example, lowered from 70 to 56 degrees the soil temperatures on the roof and that helped cool the house. During the summer months, Kiesling said, residents can water the lawn atop the house and realize cooling gains.

There is one slight disadvantage. The homeowner will be forced to mow his roof.

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ENERGY EFFICIENT--Low utility bills is a major advantage of this earth-sheltered house designed by civil engineers at Texas Tech University. Completed last fall at Lake Ransom Canyon near Lubbock, the house weathered its first winter without interior temperatures dropping below 58 degrees. The house is covered by soil on the roof and two sides, helping to maintain relatively constant interior temperatures regardless of weather changes. (TECH PHOTO)