

Texas Tech University
Texas Tech University Health Sciences Center

News and Publications
Box 4640/Lubbock, Texas 79409-2022/(806) 742-2136

FOR IMMEDIATE RELEASE

REF: 1-1-20-88

CONTACT: Kippie Hopper

LUBBOCK -- The Texas Tech University Speech-Language and Hearing Clinic recently was among an elite group of clinics to receive a renewal of its accreditation by the American Speech-Language-Hearing Association (ASHA).

Less than 300 of the 2,500 clinics in the United States received the accreditation for the provision of speech, language and hearing services given by the Professional Services Board of ASHA.

The Texas Tech University Speech-Language and Hearing Clinic currently provides training to 38 undergraduate and graduate students who are studying speech-language pathology or audiology. The students must complete at least 300 hours of supervised work with people who have communication problems, according to clinic director Sherry Sancibrian.

Clinic workers each semester offer speech and hearing therapy to about 60 people and administer tests to 75 to 100 people from the community.

In its report, the board complimented the clinic for balancing an effective clinical service with a training program.

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The reaccreditation was awarded following a site visit that included a review of the staff, clinical practices and procedures, records and reports and the physical facilities and equipment.

Accreditation by the Professional Services Board indicates that the Speech-Language and Hearing clinic meets or exceeds stringent national standards for clinical services.

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REF: 2-1-20-88

CONTACT: Deborah Palmer/B. Taylor

LUBBOCK -- Undergraduate students throughout West Texas can earn three hours of college credit at Texas Tech University on Wednesday evenings this spring.

"English 2307: Introduction to Fiction" will be taught from 6-9:30 p.m. Wednesdays, Jan. 27 through May 4. The course will present a critical study of fiction, emphasizing the careful analysis of short stories and novels.

"The course was developed to better meet the needs of students at Texas Tech and other universities," said course instructor Kathy Lamoreaux. "Often students have to wait several semesters before enrolling in a sophomore literature course because the demand for the course is so great."

During the course, participants will read and discuss four short novels and a variety of short stories. Instruction will be supplemented by films such as "Apocalypse Now" and "Chinatown."

The course is open to all university and college students, regardless of their home institution. Registration is \$150.

For more information or to register, contact Sheri Lewis, Texas Tech Division of Continuing Education, Box 4110, Lubbock, Texas 79409, (806) 742-2354.

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FOR IMMEDIATE RELEASE

REF: 3-1-20-88

CONTACT: Marydawn Webber

LUBBOCK -- A Texas Tech University professor and a Tech alum were both elected as Fellows of The Institute of Electrical and Electronics Engineers by the institute's board of directors.

The rank is the highest grade of membership attained in the IEEE, headquartered in New York, N.Y. The awards became effective Jan. 1.

Horn Professor Dr. John F. Walkup, a research professor in Tech's Department of Electrical Engineering, was cited for his contributions to digital image and optical signal processing.

Also cited was Tech alum Russell H. Logan of Dallas, a Texas Instruments Senior Fellow for Radar Technology. Russell's recognition is for his expertise in the application of microwave and associated sensors and control systems.

Walkup, who is also chairman of the Optical Society of America Education Council, pioneered in the development of techniques for restoring images degraded by signal-dependent noise sources, such as film grain noise and photoelectronic shot noise (such as that found in television tubes).

Walkup specializes in optical information processing, image processing and statistical optics, and is skilled at adapting ways to suppress the interference. This has resulted in his development of techniques for adaptive image restoration, for transforming signal-dependent noise into signal-independent noise and for recovering images from signal-dependent noise.

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Walkup has also been successful in making advances in optical computing, which involves building optical quadratic neural networks which can remember not only individual items, but also the correlation between items. The applications of this technique are attractive because the optical networks can pass light beams through each other, thus preventing cross talk, or interference.

The networks, a form of artificial intelligence, are designed to emulate the thinking and response capabilities of neurons in the human brain. Practical applications of the system can be useful to counter-recognition and optical auto-associated memory, such as feeding part of the features of a face and allowing the network to complete the missing features and description.

The network will also aid in security checks involving speech and image processing, such as speech recognition voice prints, and improve forensic and criminal studies in recognizing fingerprints.

Logan received his BS in electrical engineering at Tech in 1951 and his MS in 1966 from Southern Methodist University in Dallas, which he attended on a full Texas Instruments Honors Scholarship. He joined TI after working for the Sandia Corporation and the Texas Electric Service.

He was designated a Distinguished Engineer by the Tech College of Engineering in 1986.

Among his many accomplishments, Logan directed the development of the Navy's periscope-detection, ocean-control radar and performed a system technical overview for the first all solid-state phased arrays.

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FOR IMMEDIATE RELEASE

REF: 4-1-20-88

CONTACT: Beverly Taylor/
Deborah Milosevich

LUBBOCK -- The spring sessions of Super Saturdays and Young Actors Workshop for gifted and talented students will begin Feb. 6 at Texas Tech University.

The programs are designed for students in kindergarten through 12th grade to provide academic and creative experiences beyond the regular school curriculum. Instructors for the classes are Texas Tech faculty and public school teachers who have expertise with gifted and talented students.

Super Saturdays topics for elementary students include aerodynamics, art, astronomy, ceramics, computers, creative writing, juggling, microbiology, paleogeography, photography, puppetry, science, self-esteem and textiles.

Secondary students can select from aerodynamics, ceramics, computers, creative writing, health professions, juggling, law photography, paleogeography and learning strategies.

Super Saturdays classes will meet for two hours Saturdays Feb. 6 through March 12. Most classes cost \$54.

The Young Actors Workshop offers stage-related classes to students with superior academic and performing arts potential and skills. Second- through sixth-graders can enhance their creative skills through pantomime, improvisation and story dramatization. Students will be trained for auditions during the "Creative Dramatics" class.

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The "Theatre Arts Production" class, for seventh- through 10th-graders, will introduce the basics of theatre and acting, communication skills, voice, movement, projection, concentration, script analysis and group ensemble.

Fee for "Creative Dramatics" is \$62 and for "Theatre Arts Production" is \$108.

To participate in the classes, students must be nominated by a parent, teacher, counselor, psychologist or school administrator. Students who meet any of the following criteria may be nominated: IQ of 120 or above, at least a "B+" average in school, standardized achievement test score of 90th percentile or higher in at least one area, leadership ability, imaginative or creative thinking skills or visual or performing arts talent.

Application deadline is Feb. 3. For more information or to register, contact Deborah Milosevich, Institute for the Gifted, Texas Tech University, Box 4110, Lubbock, Texas 79409, (806) 742-2353.

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FOR IMMEDIATE RELEASE

REF: 5-1-21-88

CONTACT: Preston Lewis

LUBBOCK -- Patricia McGrath, a senior physical therapy major in the School of Allied Health at the Texas Tech University Health Sciences Center, has been named first recipient of the Pampa AMBUCS (American Businessmen's Club) Therapy Scholarship.

McGrath, the daughter of Mr. and Mrs. Daniel F. McGrath of 2500 Duncan St., Pampa, was presented the \$250 scholarship during AMBUCS ceremonies in Pampa.

The scholarship was established by the Pampa AMBUCS to assist Pampa area junior or senior students who are studying for degrees in various fields of therapy. Qualified students are eligible for a scholarship of \$250 per semester during their junior or senior year.

McGrath is scheduled to graduate with a degree in physical therapy in May. She currently is serving a clinical affiliation in Wichita Falls.

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FOR IMMEDIATE RELEASE

REF: 6-1-21-88

CONTACT: Preston Lewis

LUBBOCK -- Nine Texas Tech University Health Sciences Center students have been named to the 1988 edition of "Who's Who Among Students in American Universities and Colleges.

The students are Margie Araujo of Lockney, Lori Brewer of Dumas, Eric Darrow of Potomac, Md., Jeff Mitchell of Amarillo, Shannon Sims of Waller and Marie Haas, Yvonne Lovato, Kristine Newland and Georgeanna Welch, all of Lubbock.

Students are nominated for inclusion in the annual directory by fellow students and faculty, based on academic achievement, community service, leadership in extracurricular activities and potential for continued success.

Araujo, a senior nursing major, is the daughter of Arcadio and Clara Araujo of 201 NE Fifth, Lockney. Brewer, daughter of Mr. and Mrs. E.N. Brewer of 403 Mills, Dumas, is a senior nursing major. A graduate student in physiology, Darrow is the son of Sylvia Darrow of 2419 Chilham Place, Potomac, Md., and Dr. Clement C. Darrow of Vero Beach, Fla.

Haas, of 7804 Zoar Ave., Lubbock, is a junior nursing major. Lovato, a junior nursing major, is the daughter of Stella Garcia Lovato of 2624 Second, Lubbock. A senior nursing major, Mitchell is the son of Mr. and Mrs. Harlan Mitchell of 1920 E. Eighth, Amarillo.

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Newland is a senior nursing major and the daughter of Eileen Newland of 5321 S. Loop 289, Lubbock. Sims, a senior nursing major, is the daughter of Mr. and Mrs. Jessie L. Sims of 32231 Sand Wedge, Waller. A senior nursing student, Welch is married to Rickey Welch of 6908 Gary, Lubbock.

FOR IMMEDIATE RELEASE

REF: 7-1-22-88

CONTACT: Marydawn Webber

LUBBOCK -- A state senate subcommittee will meet here with leaders in agriculture, trade and economics in a fact-finding effort to stimulate Texas' productivity in its natural fibers: cotton, wool and mohair.

The first formal round of hearings by the Senate Interim Committee on Natural Fibers will convene at 9 a.m. Tuesday at the Textile Research Center of Texas Tech University, 1001 East Loop 289. The hearing is expected to last until noon.

The 12-member committee, chaired by State Sen. Bill Sims of San Angelo, will examine areas of research and production of natural fibers in the state, with a special focus on blending techniques of state-produced cotton, wool and mohair.

The committee will field testimony from about 50 agricultural representatives.

Among those expected to offer testimony are Gregory Letterman, an attorney with the law firm of Cox and Smith in San Antonio and president of the State Foreign Trade Commission; Fred Campbell of Eden, general manager of the American Wool and Mohair Association; and Glenn Fisher of Sonora, general manager of the Sonora Wool and Mohair Company. Also expected to testify will be representatives of the Texas Agricultural Cooperative Council, Natural Fibers and Food Protein Commission and Texas Commerce Department.

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Formed during the 70th Legislative Session to conduct the study for the Senate Natural Resources Committee and Subcommittee on Agriculture, the committee is composed of senate, public and three advisory members.

According to Maggie Banner, committee clerk, the information-gathering study should be completed by the end of this year for presentation to the senate during the 71st Legislative Session in 1979.

The findings of the study, which is designed to coordinate production of the state's natural fibers and revitalize the industry within the state, will also include recommendations concerning data that may effect future funding for research institutions.

Senate members forming the committee are Sims, who is executive secretary of the Texas Sheep and Goat Raisers Association; Hector Uribe, McAllen; Kenneth L. Armbrister, Victoria; Ted Lyon, Rockwall; and Bill Sarpalius, Amarillo.

Public members serving on the committee are Vice-chairman Charles Scruggs of Austin, editorial advisor for Southern Progress Corporation; Tom Wallace of San Antonio, rancher and former executive secretary of the Texas Wool and Mohair Association; Bob Hale of Littlefield, vice president and general manager of the American Cotton Growers, Textile Division of the Plains Cotton Cooperative Association; and Clifford Hoelscher of Garden City, farmer.

Committee advisors are Textile Research Center Director Jim Parker, Brian May of San Angelo, president of the National Wool Growers Council; and C.L. Lupton, associate professor, Wool & Mohair Lab at Texas A&M University and researcher at the Agricultural Research & Extension Center, San Angelo.

HEALTH TIPSHEET
from
TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER
January 22, 1988

IN THE RED -- Blood transfusions have always carried a certain amount of risk inherent in all medical procedures. However, concern over AIDS has magnified the public's perception of the potential hazards. TTUHSC medical technology professor David G. Fowler, M.C.S., says the blood supply is safe, though not without a minuscule risk of AIDS. Because of the long incubation period before the body produces AIDS virus antibodies which are identified in the blood screening process, blood given by a donor within six months of initial exposure to the virus could carry a risk. However, chances of actually contracting AIDS from a blood transfusion may be no higher than one in 84,000 and as low as one in 250,000, according to various studies. Chances of dying from the flu, by contrast, are one in 5,000 cases. For more on the blood supply or on testing procedures, contact Fowler at (806) 743-3248.

TAKEN FOR GRANTED -- That is how many people treat their bodies when they begin an exercise program. The reason, says TTUHSC physical therapy Professor Marie Koch, M.S.P.T., is that proper exercise is harder than it looks. Beneficial exercise requires proper preparation, proper performance of the exercises and proper cool down after the workout. Exercise is a complicated process because it affects the body's musculoskeletal and cardiopulmonary systems. What may benefit one body component may actually harm another. For instance, when weightlifters use full squats to build up their quadriceps, they may be damaging their knee joints. Just because there is activity does not mean that it is good exercise. Improper workouts can lead to such injuries as muscle tears, stress fractures and heat illness. That is why Koch recommends consumers seek help, based on a careful examination of professional credentials, to set up an exercise program suited to individual needs and capabilities. No matter the prescribed exercise regimen, Koch suggests proper warmup and cool down to get the maximum benefit with the least unwanted side effects. Plenty of liquids during hot weather or indoor workouts and layered clothing during cold weather can also help eliminate potential problems. For more on safeguarding your body during physical exercise, contact Koch at (806) 743-3235.

For assistance in covering these or other stories, contact TTUHSC news manager Preston Lewis at (806) 743-2143. Photographs and video footage can be arranged upon request.

8-1-22-88

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FOR IMMEDIATE RELEASE

REF: 9-1-22-88

CONTACT: Joe Sanders

(EDITORS & NEWS DIRECTORS: Note the change in the starting time for the upcoming Boards of Regents meetings. The Regents begin committee meetings at 12:45 p.m., Thursday, Jan. 28, in room 2B152 of the Health Sciences Center. Committee meetings will adjourn at approximately 5:30 p.m. on Thursday and resume at 9 a.m. Friday, Jan. 29, in the Board Suite, Administration Building, on the University campus. At the conclusion of committee meetings at about 10:30 a.m., the Regents will begin their formal meeting in the Board Suite. As usual, most of the discussion of board items will take place in the committee meetings. The Regents have not set specific times for each committee meeting on Thursday; they will follow the order listed on the enclosed agenda. Please call me if you have questions.

(The most significant items on the Regents's agenda are:

Thursday afternoon --

-- A report on a proposal to offer a nursing master's degree.

Friday at 9:30 a.m. --

-- A request to establish the Institute for Management and Leadership Research, which will use faculty from at least six American universities to solve problems for businesses.

-- A request to establish the Texas Wine Marketing Research Institute, which would conduct studies and market research to promote the state's growing wine industry.

-- A review of the amount of research funds attracted by the University and the Health Sciences Center last year, prospects for research funding in 1988, and the status of proposals for state research funding.

-- A report on the fund-raising drive to keep the Museum open next year, when it will lose \$439,000 in state funds.)

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FOR IMMEDIATE RELEASE

REF: 10-1-22-88

CONTACT: Beverly Taylor

LUBBOCK -- The rise and fall of the great cultures of ancient Mexico and Central America and their astronomical discoveries are explored in "Skywatchers of Ancient Mexico," an audio-visual program at Moody Planetarium of the Museum of Texas Tech University.

The production will run through Feb. 28. Show times are 7:30 p.m. Thursdays and 2 and 3:30 p.m. Saturdays and Sundays. Cost is \$1 for adults and 50 cents for Texas Tech students and children.

The Olmecs, Maya, Aztecs and other ancient civilizations of Mexico and Central America watched the sun and Venus, and, in the process, developed a calendar more accurate than ours. During the Dark Ages in Europe, the Maya were plotting the cycles of Venus so accurately that their error was only 14 seconds per year.

These civilizations oriented their cities toward heavenly objects so they could measure the seasons. Teotihuacan, an Aztec settlement in Mexico, had nearly 100,000 residents by 150 A.D. when London was a small military camp and Paris a cluster of huts. The Teotihuacanos built their main avenue, the Street of the Dead, and their Pyramid of the Sun facing exactly 15 degrees east of north. From this vantage point, they would watch the star cluster Pleiades -- how it was visible in the west after sunset in the spring and in the east at dawn later in the year. On that special day when the Pleiades rose before the sun, the priests knew to prepare for celebration of the seasonal rains which promised continued life.

Story ideas for the week of
January 25, 1988
11-1-22-88

TURKISH CONNECTION -- This semester Texas Tech University is hosting the largest group of Turkish graduate students in the United States. Thirty-eight students from Karadeniz University and Middle East Technical University are enrolled in intensive English classes before they begin graduate work this summer in several colleges on campus. The Turkish government is providing support for the students' education and they will be obligated to return to their home universities to teach. Groundwork for this cultural exchange first began with a visit to Tech and the International Center for Arid and Semi-Arid Land Studies, by the Turkish Ambassador to the U.S., Sukru Elekdag, in 1983. Texas Tech also is linked with Turkey through the Archive of Turkish Oral Narrative, the largest repository of information on Turkey in the U.S. The Archive is housed in the Tech library and is directed by Dr. Warren Walker. For more information call Dr. Idris Traylor, director of ICASALS at 742-2218.

MEXICAN ARCHITECTS VISIT TECH -- Information on the preservation of Mexico's rich architectural heritage will be shared with Texas Tech architecture students for the next few weeks. Three architectural historians from the Universidad de Guanajuato will be lecturing at Tech through an exchange program funded by the Fulbright Program. They will participate in a symposium, "Mexican Religious Architecture in Mexico and the American Southwest: A COMMON BOND" to be held February 5, 1988 at the Ranching Heritage Center at Tech beginning at 9:00 a.m. This event is open to the public and free.

For assistance on these and other
story ideas, call News & Publications
742-2186.