

TEXAS TECH
University & Health Sciences Center

News and Publications

Lubbock, TX 79409-2022
(806) 742-2136
FAX (806) 742-1615

FOR IMMEDIATE RELEASE

REF: 1-3-19-90

CONTACT: Brad Cope 742-2294
or Kippie Hopper 742-2136

LUBBOCK -- Several works by composer Mary Jeanne van Appledorn, a Horn professor of music at Texas Tech University, will be performed in numerous states during the next few months.

The performance of "Two Shakespeare Songs," a choral work by van Appledorn, is scheduled for Saturday, March 24, at Western Kentucky University at Bowling Green.

Van Appledorn's "Missa Brevis" for voice and organ will be performed April 19 during the Region IV Conference of the Society of Composers Inc., at the University of Kansas at Lawrence.

Additionally, van Appledorn has been named the 1990 commissioned composer for the Music Teachers National Association and the Texas Music Teachers Association convention scheduled June 16-20 at San Antonio. The commissioned work, titled "Ayre" for strings, will be performed June 19. Her "Sonatine" for clarinet and piano also will be presented at the convention.

The latter work is one of three compositions by van Appledorn, including "Four Duos" and "Liquid Gold," that were recently released on OPUS ONE compact disc recording No. 147.

News and Publications

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REF: 2-3-19-90

CONTACT: Brad Cope, (806) 742-2294
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LUBBOCK -- Director of the Experimental Music Lab in the Texas Tech University School of Music Steven Paxton has been awarded an \$18,000 Composers Fellowship from the National Endowment for the Arts (NEA).

A professor of theory and composition, Paxton was given the funds for the support of the composition of several works, including a work for piano solo, a work for 10 percussionists, incidental music for a play by Shakespeare and a soundscore for a television fairy tale.

The Texas Tech composer is among 16 American composers from nine states who will receive fellowships totaling \$275,000 and ranging from \$7,000 to \$25,000.

Funds received through Composers Fellowships may be applied to the composer's time, costs for using an established electronic or experimental facility and other expenses related to the composer's own creative activity.

The grants were recommended by a nine-member panel of composers, musicians and educators who reviewed 309 applications. According to Antoinette Handy, acting director of the NEA's Music Program, the panel evaluated applicants' audio tapes and musical scores to judge demonstrated artistic quality and creative ability.

"This category is one of the Music Program's most competitive," Handy said. "The United States boasts many very fine composers. These fellowships will enhance the efforts of the most exceptional talents selected from the pool of the fiscal year 1989 applicants."

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REF: 3-3-19-90

CONTACT: Brad Cope, (806) 742-2294

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LUBBOCK -- Former Texas Tech University School of Music student Susan Graham made her solo debut March 17 at Carnegie Hall, singing "Das Knaben Wunderhorn" with the New Jersey Symphony.

Later this year, she will perform roles with the Seattle Symphony, the Michigan Opera Theater and the Minnesota Symphony.

A mezzo-soprano, Graham also will appear this season in two Santa Fe Opera productions: as Dorabella in Mozart's "Cosi fan Tutte" and as the composer in Richard Strauss' "Ariadne auf Naxos."

A Midland native, Graham made her operatic debut while she was a student at Texas Tech when she performed the role of Hansel in "Hansel and Gretel," a role she later recreated with the Eugene (Oregon) Opera.

Studying with Sue Arnold and Mary Gillas, Graham received both a bachelor of arts degree and a master of music degree at Texas Tech.

She performed in the Texas Tech productions of "1776," "Die Fledermaus," "Der Rosenkavalier," "Pirates of Penzance," "The Student Prince" and "Sweet Betsy from Pike."

She participated in the 1987 Merola program of the San Francisco Opera where she appeared in productions of "Gianni Schicchi" and "Suor Angelica."

Graham was selected to be a Metropolitan Opera National Council winner, and in 1987, she received the prestigious Schwabacher Award from the San Francisco Opera.

Of her performance in the title role of Massenet's "Cherubin," Peter G. Davis of **New York Magazine** reported: "Susan Graham had only to appear and toss off Cherubin's ecstatic 'Je suis gris' to let us know that a major talent had arrived."

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FOR IMMEDIATE RELEASE

REF: 4-3-19-90

CONTACT: Chris Patterson
or Steve Kauffman

LUBBOCK -- "Humanities Perspectives in a Health Care Setting" will be the focus of a lecture series sponsored by the South Plains Friends of the Humanities.

The series, free and open to the public, is scheduled for 7 p.m. March 27, April 3 and April 10 in the Community Room of the Mahon Library, 1306 Ninth St.

David Cummins, president of South Plains Friends of the Humanities, said the presentations are being offered in an effort to exchange information and ideas about ethical issues related to medical care and research.

"Following the lectures, audience members will be invited to express themselves on the issues discussed," he said. "We want the series to be an active public forum."

The first lecture, March 27, will feature Ronald Rainger, assistant professor of history at Texas Tech University. Rainger's research has focused on the history of medical technology.

During his presentation, Rainger will analyze the Tuskegee experiment. The experiment forced Black men infected with venereal disease and incarcerated in the Tuskegee Prison in Alabama to go without medical treatment so the progression of the disease could be observed. Rainger's discussion will concentrate on the application, or the failure to apply, current medical technology to patients especially when cost is a factor.

John Morrow, professor of biochemistry at the Texas Tech Health Sciences Center, will present the second lecture of the series April 3. Morrow will address the ethical issues surrounding biomedical experimentation and the acquisition of information that may or may not have practical applications. Much of his lecture will focus on Nazi experimentation on Jews during World War II.

The final lecture will be April 10. Daniel Benson, professor of law at Texas Tech, will examine a person's right-to-die. Benson will review the Cruzan case, which recently was argued before the U.S. Supreme Court. The case involves Nancy Cruzan, who has been unconscious for five years following an automobile accident. Cruzan's parents want to allow their daughter to die by withholding nutritional feedings administered through a tube.

Benson will address the ethical issues brought up by the case and explore the rights of unhealthy individuals, the family members or legal guardians, the health care facilities and the individual health care providers.

For more information about the series, contact David Cummins at 742-3626.

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EXTENDED CALENDAR

REF: 5-3-19-90

CONTACT: News and Publications

(**MEDIA ADVISORY:** This Texas Tech extended calendar is compiled to let you know of upcoming events. Dates, times and locations of events catalogued several months in advance may be subject to change. If you need more information, call News and Publications at 742-2136.)

- MAR 27** Seminar -- "Art Nouveau and the Vienna Secession," sponsored by the Women's Council of the West Texas Museum Association
11 a.m., Texas Tech Museum Kline Room
- Lunch and Dinner series sponsored by the Friends of the University Library and Southwest Collection
noon, University Library Croslin Room
- MAR 28** Symposium -- "Conflicts of the '90s: The Siege by Animal Rights Activists," sponsored by Texas Tech University and Health Sciences Center and the Texas Society for Biomedical Research
TTHSC through March 29
- Lecture -- "Australian Institutes: Public Architecture in an Emerging Culture," by Guenter Lehmann, associate professor in the Texas Tech College of Architecture
4 p.m., Architecture Gallery
- MAR 29** Lecture -- John Kenneth Galbraith, professor emeritus of economics at Harvard University
8:15 p.m., University Center Allen Theater
- MAR 30** Distinguished Engineers Luncheon
sponsored by the College of Engineering
11:45 a.m., University Center Ballroom
- MAR 31** Junior recital -- Paige Brown, soprano
3 p.m., Hemmle Recital Hall
- Graduate recital -- Yuh-Yun Li, piano
5 p.m., Hemmle Recital Hall
- APR 1** Junior recital -- Eric Smith, bass
5 p.m., Hemmle Recital Hall

CALENDAR/PAGE 2

- APR 2 Faculty recital -- David Matthews, oboe; Richard Redinger, piano
8:15 p.m., Hemmle Recital Hall
- APR 3 Faculty Awards Convocation
3:30 p.m., University Theater
- Seminar -- "Impressionism in Sight and Sound," sponsored by the
Women's Council of the West Texas Museum Association
11 a.m., Texas Tech Museum Kline Room
- Lecture -- Arthur Schawlow, inventor of the laser and Nobel
laureate in physics, sponsored by the Dads and Moms Association
7:30 p.m., Chemistry Building Room 49
- Seminar -- Howard Nash, molecular biologist with the National
Institutes of Health, sponsored by the Institute of Biotechnology
7:30 p.m., location to be announced
- APR 4 Lecture -- "Henry David Thoreau: Beware of All Enterprises that
Require New Clothing," by Malcolm Holzman, architect with the
New York architecture firm of Hardy-Holzman-Pfeiffer,
sponsored by the College of Architecture
4 p.m., Architecture Building Gallery
- Graduate recital -- Victoria Daniel, percussion
8:15 p.m., Hemmle Recital Hall
- APR 4-7 Texas Association of Museums annual meeting
Lubbock Plaza Hotel
- APR 5 Thomas Dolby concert CANCELLED
- APR 5-6 Symposium -- "Adolescent and Adult Risk Taking: Research,
Intervention and National Policy Issues,"
sponsored by the department of human development and family
studies and the department of psychology
University Library Special Collections Room
- APR 5-8, 12-15 "Taming of the Shrew" by theater department
Texas Tech University Theater
through April 8 and 12-15

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CALENDAR/PAGE 3

- APR 6 Kappa Kappa Psi/Tau Beta Sigma District VI Convention
School of Music through April 9
- APR 6,7 "South Plains Regional Science and Engineering Fair,"
sponsored by the College of Engineering
4-6 p.m., Lubbock Municipal Coliseum through April 7
- Backstage Dinner Theater presented by Texas Tech Music Theater
7 p.m., University Center Allen Theater through April 7
- APR 7 Southwestern Intercollegiate Horse Judging Contest,
hosted by the College of Agricultural Sciences
8 a.m., Livestock Arena
- APR 8 Non-degree recital -- Melba Valdez, piano
3 p.m., Hemmle Recital Hall
- APR 9 Symposium -- "Ancient Sport," sponsored by the Texas Tech
Classical Society and the Archaeological Institute of America
- Concert -- percussion ensemble
8:15 p.m., Hemmle Recital Hall
- APR 10 Seminar -- "Fin-de-Siecle -- Symbolism and Expressionism: Moreau,
Redon, Ensor, Munch," sponsored by the Women's Council of the
West Texas Museum Association
11 a.m., Texas Tech Museum Kline Room
- Conference -- sixth annual All-University Conference on the
Advancement of Women in Higher Education,
sponsored by the Women's Studies Council
noon to 6 p.m., University Center Ballroom and Lubbock Room
- Concert -- University-Civic Chorale
8:15 p.m., Hemmle Recital Hall
- APR 11 Lecture -- "Regional Architecture and Its Preservation,"
by F. Blair Reeves, professor emeritus, University of Florida
4 p.m., Architecture Gallery

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CALENDAR/PAGE 4

- APR 12 School of Law Awards Day
3 p.m., Law School Forum
- "Taming of the Shrew" by theater department
Texas Tech University Theater through April 15
- Concert -- Jazz Bands II and III
8:15 p.m., Hemmle Recital Hall
- APR 14 University Theater 25th Anniversary Celebration
11:30 a.m. to 10:30 p.m., campus and off-campus locations
- Concert -- U.S. Air Force Band
8:15 p.m., University Center Allen Theater
- APR 17 Ph.D. recital -- Susan Grisanti, guitar
8:15 p.m., Hemmle Recital Hall
- APR 18 College of Architecture Awards Day ceremony
4 p.m., Architecture Gallery
- Concert -- Trombone Ensemble
8:15 p.m., Hemmle Recital Hall
- APR 20 College of Agricultural Sciences Honors Banquet
- Concert -- Jazz Band Festival
8:15 p.m., University Center Allen Theater
- APR 21 Concert -- Jazz Band Festival
8:15 p.m., University Center Allen Theater
- APR 22 Concert -- Scholarship Showcase Concert
3 p.m., Hemmle Recital Hall
- Senior Exit Dinner
sponsored by the Ex-Students Association
University Center
- APR 22-28 Faculty and Staff Book Exhibit
sponsored by the University Library through April 28
University Library Croslin Room

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- APR 24 Seminar -- Roger Beachy, director of biotechnology program at Washington University in St. Louis, Mo., sponsored by the Institute of Biotechnology 7:30 p.m., location to be announced
- Concert -- University Symphonic Band 8:15 p.m., Hemmle Recital Hall
- APR 26-29 Play Texas Tech Lab Theater
- APR 27 Last day of regular law school classes
- APR 28 Music Theater Scenes 8:15 p.m., Music Building Choir Room
- APR 28-MAY 3 MFA Exhibit -- Tom Guffey Art Building Fine Arts Gallery through May 3
- APR 29 Concert -- Harp Ensemble 3 p.m., Hemmle Recital Hall
- APR 30 Concert -- Varsity Bands 7:30 p.m., Hemmle Recital Hall
- MAY 1 Law school final examinations begin through May 11
- Concert -- University Symphony Orchestra 8:15 p.m., Hemmle Recital Hall
- MAY 2 Last day of classes, TTHSC School of Nursing
- Student Honors Convocation sponsored by the Office of Academic Affairs noon, University Center Courtyard
- MAY 2-4 Class of 1940 50th class reunion activates sponsored by the Ex-Students Association
- MAY 3-6 KOHM-FM Radiothon '90
- MAY 4 Last day of classes, TTHSC School of Medicine

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- MAY 4-9** Spring 1990 final exams, at university and School of Nursing
- MAY 6-11** Saturday Morning Art Project
Art Building Fine Arts Gallery
- MAY 7-11** Final exams, School of Allied Health
- MAY 8** Lunch and Dinner series sponsored by the Friends of the
University Library and Southwest Collection
noon, location to be announced
- MAY 9** Seminar -- Eric Davidson, molecular biologist at the California
Institute of Technology,
sponsored by the Institute of Biotechnology
7:30 p.m., location to be announced
- MAY 10-25** Texas Tech classes held at Junction Center
- MAY 10** Board of Regents committee meetings
- MAY 11** Last day of law school final examinations

Board of Regents formal meeting
- May 11** Dads and Moms Association "Parents Graduation"
3 p.m., University Center
- MAY 12** Spring 1990 general university commencement
9 a.m., Lubbock Municipal Coliseum
Individual college graduation ceremonies
10 a.m.-1 p.m., various locations on campus

School of Law hooding ceremony
speaker, Joe Jamail of Houston, one of Fortune's 500 richest
attorneys in America,
4:30 p.m., Lubbock Municipal Auditorium
- MAY 13** Sinfonietta concert -- Lubbock Symphony Orchestra
3 p.m., Hemmle Recital Hall

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CALENDAR/PAGE 7

- MAY 19 4-H Judging Contest
sponsored by the College of Agricultural Science
- Health Sciences Center commencement
Lubbock Memorial Civic Center
- MAY 28 First summer session law school classes begin
- MAY 31-JUN 3 National Cowboy Symposium and Celebration
Texas Tech University Center
- JUN 1,2 Ex-Students Association Board of Directors meeting
Marriott River Center in San Antonio
- JUN 5 First summer session university classes begin
- JUN 10-12 Annual High School Counselor Conference
sponsored by Office of New Student Relations
- JUN 11-AUG 3 TTU/GTE PREP
on campus through Aug. 3
- JUN 14,15 Freshman orientation
on campus
- JUN 18,19 Freshman orientation
on campus
- JUN 19-29 Summer Youth Classes at Texas Tech Museum
- JUN 21,22 Freshman orientation
on campus
- JUN 25-26 Freshman orientation
on campus
- JUN 27 Last day of first summer session law school classes
- JUN 28,29 Freshman orientation
on campus
- JUN 28-30 Law school final examinations through June 30

CALENDAR/PAGE 8

JUL 4	University/Health Sciences Center closed for Independence Day
JUL 5	Second summer session law school classes begin
JUL 13,14	First summer session final exams
JUL 17	Second summer session classes begin
JUL 17-27	Summer Youth Classes at Texas Tech Museum
JUL 23-24	Transfer student orientation on campus
JUL 26,27	Transfer student orientation on campus
JUL 21	Dads and Moms Association Mid-Summer Board Meeting in Arlington
JUL 30,31	Freshman orientation on campus
AUG 2,3	Freshman orientation on campus
AUG 2	Board of Regents committee meetings
AUG 3	Board of Regents formal meeting
AUG 6	Last day of second summer session law school classes
AUG 6,7	Transfer student orientation
AUG 7-9	Law school final examinations through Aug. 9
AUG 9,10	Freshman orientation on campus
AUG 13-18	Law school first year orientation and legal process classes
AUG 17,18	University second summer session final exams through Aug. 18

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- AUG 20 Fall 1990 law school classes begin
- AUG 27 Fall 1990 university classes begin
- AUG 30 Red Raider Club Kickoff Banquet
- SEP 28 Century Club Dinner
sponsored by the Ex-Students Association
- Lunch and Dinner series sponsored by the Friends of the
University Library and Southwest Collection
7 p.m., location to be announced
- SEP 29 Texas Tech Homecoming
- SEP 21 Livestock Day
sponsored by the department of animal science in conjunction
with Golden Spur Weekend
Livestock Arena
- National Golden Spur Award Banquet
sponsored by the Ranching Heritage Association
Lubbock Memorial Civic Center
- SEP 22 Ranch Day
sponsored by the Ranching Heritage Association in conjunction
with Golden Spur Weekend
Ranching Heritage Center
- OCT 12 College of Agricultural Sciences distinguished alumni luncheon
noon, location to be announced
- OCT 14-21 "50 Years of Discovery: Lubbock Lake Landmark Celebration"
Lubbock Lake Landmark site and University Center
- OCT 14 Lubbock Lake Landmark dedication ceremony
1 p.m., Lubbock Lake Landmark site
- OCT 26,27 Family weekend
sponsored by the Dads and Moms Association
on campus

CALENDAR/PAGE 10

- OCT 29 Lunch and Dinner series sponsored by the Friends of the University Library and Southwest Collection
7 p.m., location to be announced
- NOV 2 University Distinguished Alumni Dinner
sponsored by Ex-Students Association
Lubbock Plaza Hotel
- NOV 15 Pig roast and Outstanding Agriculturalist Award ceremony
sponsored by the College of Agricultural Sciences
6 p.m., location to be announced
- NOV 18 Senior Exit Dinner
sponsored by the Ex-Students Association
- NOV 21 Classes dismissed at noon for Thanksgiving
- NOV 26 Classes resume
- DEC 4-14 Fall 1990 law school final exams
- DEC 7-12 Fall 1990 university final exams
- DEC 15 Fall 1990 university commencement

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FOR IMMEDIATE RELEASE
REF: 6-3-20-90
CONTACT: Margaret Simon

LUBBOCK -- Due to listener demand, Lubbock's classical radio station KOHM-FM will resume its 18-hour daily program format on April 1. The station once again will be on air from 6 a.m. until midnight seven days a week.

KOHM also has announced the appointment of Charles "Chuck" Veazy as station manager. A Texas Tech graduate with a degree in broadcasting, Veazy was formerly manager of station KTXT-FM.

Rejoining KOHM-FM as development director is Casey Cline. Also a Texas Tech graduate, Cline was formerly executive director of the Tomball Regional Arts Council.

Clinton Barrick is the station's new music director. Barrick is studying for a degree in music at Texas Tech.

Shelley Hall Bates has assumed the presidency of the KOHM-FM board of directors. Other officers include Lloyd Senn, president-elect, and Margaret Simon, secretary-treasurer.

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MEDIA ADVISORY

REF: 7-3-20-90

CONTACT: Steve Kauffman

LAWLESS' SWITCH TO HIGHER EDUCATION LEADS TO NATIONAL ROUNDTABLE

LUBBOCK -- When Robert W. Lawless began work in July 1989 as president of Texas Tech University and Health Sciences Center, he met varied expectations of how a business executive could make the transition to college administration.

However, Lawless actually was returning to academia after a seven-year stint as a top executive at Southwest Airlines. Prior to his 1982 move into the corporate world, Lawless held business faculty and university administrative positions for 13 years at the University of Houston. The University of Houston where Lawless earned a bachelor's degree in mathematics. His doctorate in operations research is from Texas A&M University.

After being selected last spring from a national search to fill U.S. Secretary of Education Lauro Cavazos' vacated presidency, Lawless said, "Everyone in Lubbock is talking about 'this businessman' coming to take over Tech's presidency. Yet everyone here (at Southwest Airlines) considers me as an academician in the business world."

The former chief operating officer at Southwest Airlines already is making good on promises to make Texas Tech a first-class research institution. On March 6, Texas Tech was among eight top research universities in the nation to be invited to a Roundtable Workshop on the Organization and Management of Universities at the National Academy of Sciences in Washington, D.C. The discussions during the workshop, according to organizers, will help outline management, organization and decision-making structures of universities during the next decade and into the 21st century.

Invited because the university is considered an emerging research institution, Texas Tech was the only Texas university represented among the other noteworthy participants: Massachusetts Institute of Technology, Princeton, Rutgers, University of California-Los Angeles, University of Illinois-Chicago, University of Wisconsin-Madison and Washington University in St. Louis.

Lawless is available for telephone or personal interviews about the roundtable discussions and their possible impact on higher education in the nation.

SOURCE:

Robert W. Lawless, Ph.D., (806) 742-2121

President, Texas Tech University and Texas Tech Health Sciences Center

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CONTACT: Steve Kauffman

(MEDIA ADVISORY: You are invited to the lecture about forensic facial reconstruction at 7 p.m. March 28. Private interviews with the lecturer on the afternoon of March 28 may be arranged by contacting Neven P. Lamb at 742-2228.)

LUBBOCK -- Karen T. Taylor, forensic artist with the Texas Department of Public Safety (DPS), will lecture about the criminal investigation service of forensic facial reconstruction and predicted-aging at 7 p.m. March 28 at Texas Tech University.

Speaking in Room 76 of Holden Hall, Taylor will discuss the profession and will feature cases she has completed while working for the DPS criminal investigation division in Austin. The lecture is open to the public at no charge.

Forensic art, a relatively new facet of criminal investigations, utilizes scientific formulas and clay sculpture to reconstruct faces on unidentified human skulls. The reconstructions are based on information such as age, race and sex provided by forensic anthropologists.

Taylor also is consulted on cases involving missing children. In these cases, using a photograph of the missing child, Taylor applies aging and growth pattern principles to produce an aged image. The artist can render a current likeness of the child aged as much as several years after the photograph was taken.

Taylor attended the University of Texas School of Fine Arts, the Chelsea School of Fine Art in London and the Federal Bureau of Investigation Academy. She is a founding member of the Forensic Art Subcommittee of the International Association for Identification.

The lecture is sponsored by the Anthropological Society of the department of anthropology.

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MEDIA ADVISORY

REF: 9-3-21-90

CONTACT: Jennifer LeNoir

TEXAS TECH RESEARCHERS STUDY SEVERE WEATHER

LUBBOCK -- Texas has recorded more tornadoes than any other state in the nation. As a result, Texas tornadoes rank among the largest, most long-lived, costliest and deadliest anywhere in the world.

Texas lies at the southern end of what is commonly referred to as "tornado alley." Tornadoes generally form during severe thunderstorms. A key element in the formation of such storms is warm, moist air within the lowest few thousand feet of the atmosphere.

Researchers at Texas Tech University in atmospheric sciences, wind engineering, disaster research and glass testing are seeking to understand the damage caused by intense wind conditions and are searching for ways to reduce weather-related destruction.

Colleen Leary, a professor with Texas Tech's atmospheric science group, is studying data that has been collected using the Doppler radar system. Leary is analyzing the structures and deep inner workings of dangerous or potentially dangerous storms.

The Doppler radar system allows meteorologists to obtain a three-dimensional view of a storm from the inside out. The system will allow forecasters of the future a more efficient and complete weather outlook and aid them in issuing more precise severe weather warnings to predict tornadoes, severe thunderstorms, wind shear conditions and flash floods.

The Wind Engineering Research Center was established in September 1988 at Texas Tech University. Kishor Mehta, a civil engineering professor and director of the center, focuses his research on the effect of wind on buildings, people and motor vehicles.

"The basic objective is to find out how to make use of wind and how to prevent damage caused by it," said Mehta.

Texas Tech University has been involved in disaster research for 20 years. Its engineers are investigating ways to better construct houses and buildings for protection against severe storms. Researchers are particularly interested in mobile homes because of their light-weight construction.

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James R. McDonald, director of the Institute for Disaster Research at Texas Tech, said the institute's scientists have developed criteria for buildings to protect schools, hospitals and other structures from excessive wind damage.

Researchers from the institute travel to wind-damaged sites around the world. The research team has examined hurricane damage in Australia, Canada, Mexico and the tornado-prone portions of the United States.

Working in conjunction with the Institute for Disaster Research, glass researchers are interested in reducing damage to structures caused by all natural disasters. Researchers of glass concentrate on strong wind impacts and are working to develop economical and practical techniques of construction to minimize damage created by high winds.

One project through the Glass Research and Testing Laboratory at Texas Tech involves researchers evaluating laminated glass for use in hurricane- and earthquake-prone regions. The plastic inner layer of the glass helps keep broken glass within the window frame and away from people.

Long-range goals of the window glass research program include the use of data in formulation of a universal design recommendation for all building codes.

SOURCES:

Colleen A. Leary, Ph.D., (806) 742-3417

Professor with Texas Tech University's atmospheric science group

Richard E. Peterson, Ph.D., (806) 742-3418

Director of the atmospheric science group and professor of atmospheric science

James R. McDonald, Ph.D., (806) 742-3479

Director of the Institute for Disaster Research at Texas Tech and civil engineering professor

Kishor C. Mehta, Ph.D., (806) 742-3475

Director of the Wind Engineering Research Center at Texas Tech and civil engineering professor

H. Scott Norville, Ph.D., (806) 742-1930

Director of the Glass Research and Testing Lab at Texas Tech and civil engineering associate professor

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MEDIA ADVISORY
REF: 10-3-21-90
CONTACT: Jennifer LeNoir

COMMON SENSE TIPS WHEN TORNADOES HIT

LUBBOCK -- When tornadoes and severe storms form in West Texas, advance warning is often impossible.

"There's a real hazard in West Texas because these storms can break right on top of us. Many storms start here and then shift eastward, giving people in Wichita Falls or Oklahoma some advance warning. Here, we often don't have warning in advance," said Richard E. Peterson, director of the atmospheric science group.

Engineers and scientists at the Texas Tech University Institute for Disaster Research offer these safety tips when a tornado strikes:

- * Even if you have little access to broadcast storm warnings, it pays to closely observe any rapidly changing weather condition that could signal a tornado, such as a progression from intense hail to deafening quiet.

- * In a home, seek shelter in a closet or room protected by as many interior walls as possible. Never waste time opening windows to counteract pressure differentials. It's a misconception that buildings will explode if windows are closed, says Peterson.

- * Never remain in your car or in a mobile home. Often vehicles are picked up and smashed by tornadoes and high winds. (Most people who died in the April 1979 twister that struck Wichita Falls were killed in cars, adds Peterson).

- * If you're outdoors, seek shelter in a depression or culvert to avoid flying debris, the cause of most damage and injuries. Don't take shelter in drainage ditches.

- * Be aware of tornado season in your region. Tornadoes are most likely to hit during late winter in the Gulf region and southern-tier states. In late March and April, they tend to strike the lower Mississippi, Tennessee and Ohio River valleys, and they're most active in April and May in the western plains.

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TORNADO/PAGE2

Researchers at the Institute for Disaster Research say their analysis of the misconception that "rapid pressure changes cause buildings to explode," was an instrumental factor that led the National Weather Service (NWS) to change its public warning system.

"The NWS no longer issues bulletins telling people to open windows before taking cover. The message now is don't worry about indoor pressures, just take cover," Peterson said.

Peterson and other researchers with Texas Tech University's Tornado Intercept Team, are working to dispel faulty hypotheses and to contribute new knowledge about severe storms. The team is composed of atmospheric science graduate students who track severe storms that might spawn tornadoes and document storm activity with video equipment.

SOURCES:

James R. McDonald, Ph.D., (806) 742-3479

Director of the Institute for Disaster Research at Texas Tech and civil engineering professor

Richard E. Peterson, Ph.D., (806) 742-3418

Director of the atmospheric science group and professor of atmospheric science

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MEDIA ADVISORY

REF: 11-3-21-90

CONTACT: Jennifer LeNoir

NEXT GENERATION RADAR REDUCES STORM THREATS

LUBBOCK -- NEXRAD, an acronym for Next Generation Radar, will pave the way in replacing existing radar with up-to-date systems that will aid forecasters and weather researchers.

Colleen Leary, a researcher with Texas Tech University's atmospheric science group, is working with a team of about 85 other researchers to study data that has been collected using the Doppler radar system. Leary is analyzing the structures and deep inner workings of dangerous or potentially dangerous storms.

The radar system allows meteorologists to obtain a three-dimensional view of a storm from the inside out. The system will offer forecasters of the future a more efficient and complete weather outlook and aid them in issuing more precise severe weather warnings to predict tornadoes, severe thunderstorms, wind shear conditions and flash floods.

The system will be of significant value to safety control technology for agencies such as the Federal Aviation Administration, the Department of Commerce-National Weather Service and the Department of Defense. The NEXRAD radar will be installed in strategic weather stations throughout the nation within the next two years. The system will greatly enhance safety conditions both in the air and on land, including naval operations located on islands and coastal areas where hurricanes and typhoons are often a threat.

SOURCE:

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MEDIA ADVISORY
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FOCUS ON GLASS RESEARCH

LUBBOCK -- The Glass Research and Testing Laboratory (GRTL) at Texas Tech University evaluates the effects of a wide range of projectiles, which may be picked up and turned into missiles that may strike window glass during severe weather.

Working in conjunction with the Institute for Disaster Research at Texas Tech, glass researchers are interested in reducing damage to structures caused by all natural disasters, but their concentration is on strong wind impacts. Researchers are working to develop economical and practical techniques of construction to minimize window glass damage created by high winds.

In the laboratory, missile launchers can propel roof gravel, hailstones, small timber and other projectiles at glass specimens in a velocity-controlled environment. Scientists record the missile impact velocities with an optical timing system.

H. Scott Norville, director of the GRTL, has participated in several storm damage surveys for the Institute for Disaster Research and GRTL, including the survey of window glass damage in downtown Houston, resulting from Hurricane Alicia in 1983.

The chemical plant explosion that rocked the Texas Panhandle town of Pampa in November 1987, killing three people and causing property damage within a six-mile parameter, also became a field laboratory for researchers from Texas Tech University's glass research facility.

Researchers at Texas Tech have shown that glass strength is reduced by exposure to the environment. Strength is reduced by 40-60 percent from new glass strength over a period of 15-20 years.

Norville currently is involved in the study and testing of laminated glass. Norville, who began this research in 1985, says that the advantage of laminated glass is its plastic inner layer.

He traveled to San Francisco in 1989 to investigate damage caused by the October earthquake, and he says numerous deaths and injuries could have been prevented if laminated glass had been used in the windows of high rise buildings.

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When building glass fractures in the after shock of an earthquake, he said, it is this inner plastic layer keeps the glass inside the window frame and off the streets and people below.

Long-range goals of the window glass research program include the use of data in formulation of a universal design recommendation in all building codes. This universal design methodology will lead to safer and more consistent design of windows.

SOURCE:

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Director of the Glass Research and Testing Lab at Texas Tech

MEDIA ADVISORY
REF: 13-3-21-90
CONTACT: Jennifer LeNoir

TEXAS TORNADOES

LUBBOCK -- Tornadoes and the state of Texas go hand-in-hand, say researchers at Texas Tech University. The state's geographic location is central to the converging of the meteorological ingredients of tornadoes. As a result, Texas has recorded more tornadoes than any other state in the nation.

This year will mark the 20th anniversary of the deadly Lubbock tornado that left 26 people dead when the West Texas city was hit on May 11, 1970. Property damage was estimated at \$135 million.

In September 1988, several dozen tornadoes were associated with Hurricane Gilbert, which produced its worst hurricane-related damage at Kelly Air Force Base in San Antonio.

One of the earliest tornadoes on record in Texas was a killer: On April 28, 1893, 23 people died in Cisco. On May 15, 1896, Sherman lost 76 residents. Tied for the greatest death toll is the Goliad tornado of May 18, 1902, and the Waco tornado of 1953, each with 114 deaths. The Waco tragedy occurred on May 11, 1953, the same day that another tornado killed 11 people in San Angelo.

The White Deer tornado of April 9, 1947, is notable not only for its 68 deaths and the devastation of the Texas Panhandle city of Glazier, but also for its duration: the twister was on the ground for more than six hours, with its path extending across Oklahoma into Kansas at a distance of 221 miles.

Eleven people died in the April 2, 1957, tornado in Dallas. Movie footage obtained in the storm provided some of the most quantitative information ever obtained on tornado winds.

Texas lies at the southern end of what is commonly referred to as tornado alley. The greatest tornado frequency is along the Red River Valley and extending west to the South Plains. From the Lower Valley northwest to far West Texas, the likelihood of tornadoes is slight; however severe storms (like the devastation at Saragosa in 1987) still may occur.

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TEXAS/PAGE 2

April, May and June are the months with the most tornadoes, and most of the extraordinary storms have come then. The proximity of Gulf of Mexico moisture, however, can fuel tornadic storms during off seasons, especially in the fall when tornadoes may come in a flurry. Tornadoes are most common in the afternoon and in the evening. Sometimes they accompany a hurricane's approach to land.

SOURCE:

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FAX (806) 742-1615**MEDIA ADVISORY****REF: 14-3-21-90****CONTACT: Jennifer LeNoir****FUNDING FOR DISASTER RESEARCH**

LUBBOCK -- The Institute for Disaster Research and the Glass Research and Testing Laboratory at Texas Tech University are supported by grants from the state and federal government and from private industry. Among the largest grants of a total funding of nearly \$2 million are:

- * A four-year grant in the amount of \$881,029 from the Department of the Air Force for evaluation of fracture patterns, fallout patterns and lacerative hazards presented by window glass broken by low-level blast waves. The project also includes \$250,000 field test expenditures.
- * A \$270,000 National Science Foundation (NSF) wind field experiment project for field experiments involving wind pressures on low-rise structures.
- * A \$25,000 grant from Allstate Foundation, a branch of Allstate Insurance Co., to study prevention of wind damage to homes from thunderstorms and tornadoes.
- * A National Science Foundation annual grant of \$90,000 is being used to study the structures of groups of thunderstorms when they form together to create hazardous conditions. Radar exposes parts of the storms located deep within the center of dangerous systems.
- * A \$41,000 contract from the Monsanto Chemical Corporation, St. Louis, Mo., for the formulation of a comprehensive design guide for window glass.
- * A \$30,000 grant from the National Science Foundation to study critical flaws on weathered window glass surfaces using scanning electron microscopy.
- * A \$2.7 million grant anticipated from the National Science Foundation for a multi-disciplinary research project with Colorado State University to study severe weather and wind research. The NSF already has awarded \$157,000 of the grant to the Wind Engineering Research Center.

SOURCES:**Richard E. Peterson, Ph.D., (806) 742-3418**

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CALENDAR WEEK MARCH 23-30
REF: 15-3-21-90
CONTACT: News and Publications

(MEDIA ADVISORY: This Texas Tech calendar is compiled to let you know of upcoming events and upcoming releases and to serve as a reminder of releases already sent. If you need more information, call News and Publications at 742-2136.)

- MAR 23** University offices and health sciences center administrative offices closed for spring break
- MAR 27** Seminar -- "Art Nouveau and the Vienna Secession," sponsored by the Women's Council of the West Texas Museum Association
11 a.m., Texas Tech Museum Kline Room
- Lunch and Dinner series sponsored by the Friends of the University Library and Southwest Collection
noon, University Library Croslin Room
(release ref: 8-3-15-90)
- Lecture -- "The Tuskegee Experiment," by Ronald Rainger, assistant professor of history at Texas Tech
sponsored by the South Plains Friends of the Humanities as part of the "Humanities Perspectives in a Health Care Setting" series
7 p.m., Mahon Library Community Room
(release ref: 4-3-19-90)
- MAR 28** Lecture -- "Australian Institutes: Public Architecture in an Emerging Culture," by Guenter Lehmann, associate professor in the Texas Tech College of Architecture
4 p.m., Architecture Gallery
- MAR 29** Lecture -- John Kenneth Galbraith, professor emeritus of economics at Harvard University
8:15 p.m., University Center Allen Theater
- MAR 30** Distinguished Engineers Luncheon
sponsored by the College of Engineering
11:45 a.m., University Center Ballroom

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REF: 16-3-21-90

CONTACT: Preston Lewis

(MEDIA ADVISORY -- Copies of the OPRR report are available to news media by contacting Preston Lewis at the TTUHSC News and Publications Office, at (806) 743-2143.)

LUBBOCK -- "No substantive evidence" supports charges of animal misuse against a Texas Tech University Health Sciences Center (TTUHSC) sleep researcher, and the investigation into those charges is being dropped by the National Institutes of Health.

That is the conclusion of an 11-page report issued today by the Office For Protection from Research Risks (OPRR), the NIH office which investigates complaints of improper use of research animals. The investigation vindicates the animal use protocols and research methods used by sleep researcher John M. Orem of the TTUHSC physiology faculty.

Orem's laboratory, office and animal holding facility were broken into and vandalized July 4 by the Animal Liberation Front (ALF). In addition to damaging \$70,000 in laboratory equipment, the intruders stole five cats, research records and videotapes. In September, the People for Ethical Treatment of Animals (PETA) filed with OPRR a formal complaint against Dr. Orem and Texas Tech.

The OPRR report investigating the PETA charges concludes that, "The purported evidence provided by PETA consists almost entirely of stolen copies of published scientific papers and USDA inspection reports. All of these materials were readily available through legal means from medical libraries or directly from USDA under Freedom of Information Act requests.

"The only evidence not available through legal means consisted of the photographs of the stolen cats and the stolen videotape of Dr. Orem's standard laboratory preparation, neither of which revealed any violations of the PHS (Public Health Service) Policy. The remainder of the evidence consists of excerpts of PETA-solicited opinions of Dr. Orem's research from various individuals represented by PETA as experts.

"The USDA reports demonstrate that their system for identification and correction of deficiencies at TTUHSC was and is functioning exactly as intended by the Animal Welfare Act. The only legitimate deficiencies in the program of animal care and use at TTUHSC had been identified and corrected as a matter of routine regulatory oversight long before the criminal activities of the ALF or the subsequent allegations filed by PETA.

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OPRR FINDINGS/PAGE 2

"OPRR concludes that there has been no substantive evidence presented or found that would support the contention of noncompliance with the PHS Policy on the part of Dr. Orem or the University. To the contrary, a consistent pattern has emerged that demonstrates that university officials, veterinary and animal care staff, and investigators at TTUHSC have a clear understanding of the intent of the PHS Policy and a dedication to appropriate care and use of laboratory animals.

"As a result of this investigation, OPRR has no reason to consider further action on these allegations and considers this matter closed," the report ends.

Responding to the OPRR report, TTUHSC Research Vice President Kenneth Barker, Ph.D., said "We are pleased that the OPRR findings confirm what we have known all along, that Dr. Orem's research methods are humane and that our animal care and use policies are working. It is time now for the institution to put this issue behind us and for Dr. Orem to continue the high quality research which has made him one of the nation's foremost basic scientists in the field of sleep physiology."

Orem said, "This incident shows that the intent of the animal rights activists is to stop biomedical research using animals rather than to ensure the humane treatment of animals. The activists' charges of animal cruelty are pretenses that they use to accomplish this goal. I am outraged to have stood as the accused in this incident when I was, in fact, the victim of their illegal acts."

The OPRR report is the second by an NIH agency to find Dr. Orem's research methods to comply with the intent and the spirit of the federal regulations overseeing the care and use of research animals. In the fall, the National Heart, Lung and Blood Institute (NHLBI), which funds Dr. Orem's research into the neural mechanisms of sleep, sent a fact-finding team to Lubbock.

That NHLBI team concluded the charges against Dr. Orem were unfounded and the animal protocols he followed were exemplary. Further, the team reported the review process used by the health sciences center to protect animals in research "is a model of excellence."