

BULLETIN

Issued by the Division of University Relations

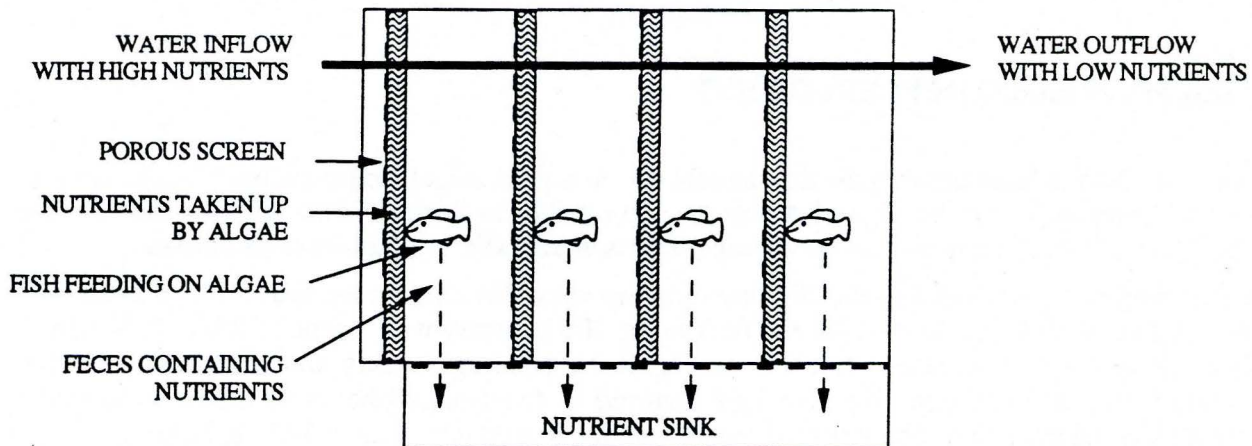
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BIOLOGISTS' WORK EARNS PATENT

Biologists Ray Drenner and Durward Smith along with environmental science graduate students Stacy Basham, Regina Steinkamp and Don Day have been conducting research to determine how a newly patented "Ecological Filtration System" can reduce excessive levels of nutrients such as nitrogen and phosphorus from sewage and agricultural runoff in river water.

The United States Patent Office granted recognition and protection of the system on Oct. 19, according to Jan Fox of research and sponsored projects, who encouraged the patent application in 1992. Two years of research have been supported by more than \$100,000 in funding from Tarrant County Water Control and Improvement District Number One.

The district is searching for ecological alternatives to standard engineering practices used to remove nutrients from polluted waters. The system consists of porous screens placed vertically in a channel (see illustration below). Algae growing on the screens take up the nutrients from the water. In turn, the algae are eaten by fish, and the fish discharge the algae in their feces, which fall to the bottom of the system for eventual removal.



The system provides an alternative to approaches such as engineered wetlands, Ray noted during an interview for the September issue of *Pollution Engineering*. According to Ray, the system appears to be three times more efficient than wetlands in removing nutrients at summer temperatures. The removed nutrients can be reused as organic fertilizer and the algae-eating fish, such as tilapia, may even be safe for human consumption, provided tissue tests do not indicate toxicants. If toxicants are present, the system can be used to remove them as well. Ray and Durward, with the help of the TCU students and the water district, now are testing to see if the system operates at winter temperatures.

EIF ASSISTS HIGH SCHOOL STUDENTS

Advice given by a group of Neeley School students may help some area high school students win a \$2,000 prize in a national competition.

Six TCU students participating in the William C. Conner Foundation Educational Investment Fund (EIF) this fall are serving as advisers to 30 students from the High School for Finance and Communication participating in the AT&T Collegiate Investment Challenge.

Each of the 6 five-member teams began the contest with a fictional \$500,000 to invest in securities. The students have the option to buy, sell or short sell any stock listed on the New York, American or Over-the-Counter stock exchanges. The team that experiences the largest gross gain during the contest wins the \$2,000 prize.

The Neeley School adopted H\$FC as a part of Fort Worth Independent School District's Adopt-a-School program in 1992 following an informal relationship of several years. The business school shares its facilities and resources of faculty, staff, students and executives-in-residence to enhance the educational experiences of H\$FC students and to encourage them in their educational and career goals.

Marshall Willard, an H\$FC economics teacher and the faculty sponsor of the school's program, said Neeley School students are offering the teams of freshman through senior students assistance on an as-needed basis and by appointment.

EIF members serving as coaches to the H\$FC teams are G.T. Barden, Willie Donnellan, Todd Dulak, Michael Polino, Tara Wokaty and Aaron Reed.

Organized 20 years ago this fall, the EIF was the first truly comprehensive student-managed fund in the United States. Currently valued at nearly \$1.2 million, the EIF was established with a \$600,000 donation from the late Dr. William C. Conner, co-founder of Alcon Laboratories. The EIF has paid more than \$1 million in annual distributions to TCU and Baylor School of Medicine's Department of Ophthalmology.

SOZA WINS GOLD IN PUERTO RICO

Swimmer Walter Soza became the first athlete to win a gold medal for his native Nicaragua in 43 years of competition in the Central American and Caribbean Sports Games held recently in San Juan, Puerto Rico. Competing in the Olympic sports were 5,000 athletes from 28 countries.

Walter won the gold medal in the 200 individual medley. He also earned fourth place in the 400 intermediate with a time of 4:41.42 and fifth in the 200 butterfly with a time of 2:07.52. His first-place victory was celebrated with the raising of the Nicaraguan flag and the playing of that country's national anthem. He also was featured in front-page photos in many Nicaraguan newspapers the next day. The last gold medal won for that country was in 1950 in boxing.

"It was great to win," he said, "and a great honor for me and my native country."

The Puerto Rico competition was a requirement for Walter to be eligible to compete in the world championships this summer and in the 1996 Olympic games for Nicaragua. A resident of the United States for the last seven years, he attended high school in San Antonio.

CAROLING EVENT TO RING IN SEASON

"Carols by Candlelight," an annual campus celebration of the holiday season, will be held Dec. 13 at Robert Carr Chapel. The free event is open to the public.

At 10:15 p.m., crowds will begin gathering for the popular musical/visual event, which will soon celebrate its 20th season, said organizer Emmet Smith, who will play the organ. Caroling will begin at 10:30 p.m.

Although University Minister John Butler will offer a Christmas prayer, the event is not a church service but an opportunity for the TCU community to sing favorite carols, Emmet said. Musical selections will be performed by the Southwestern Baptist Theological Seminary's bell choir under the direction of TCU alumna Cynthia Dobrinski. The TCU Chapel Choir, directed by Ron Shirey, also will perform two Christmas anthems — John Rutter's "Shepherd's Pipe Carol" and Alfred Burt's "O Harken Ye."

The singing of "Silent Night," accompanied by both bells and organ, will close the evening at 11 p.m. Hot cider will be served to departing carolers.

DANCERS WILL EXPLORE 'SECRET AGENDA'

"Seniors' Secret Agenda," a free dance concert featuring the works of six TCU advanced choreography class members, will be performed tomorrow (Wednesday) at 8 p.m. in the Ballet and Modern Dance Building Studio Theatre.

Works featured in the concert were choreographed by Alexia Adcock, Heather Hutton Coomer, Carrie Cozart, Laura Hiszczyński, Kristin Houck and Crystal Valteau.

Dances will include:

- A contemporary ballet with four dancers choreographed by Kristin to music by Bobby McFerrin and Yo-Yo Ma;
- "Get Free," a video choreographed by Carrie to music by Vanessa Williams that incorporates special effects, animation and excerpts from a speech by John F. Kennedy;
- Two works choreographed by Alexia. "Depth of a Soul," with music by Peter Gabriel, deals with emotional frustration. "The World is Full of Carrots," set to music by Tool, expresses "the need for diversity and change;"
- Other pieces include "From Inside Out," a dance video choreographed by Crystal; "Whine," a piece by Heather using music by the Beatles; and "Whispers of Water," by Laura.

MERRIMENT ON MENU

Yeoman service from Chancellor Bill Tucker, the merry vice chancellors and several faculty and staff members will serve the annual Late Night Study Break Breakfast to students and other sleep-deprived finals week participants from 11 p.m. Dec. 14 to 12:30 a.m. Dec. 15 in the candlelit Student Center main cafeteria. Mr. and Mrs. Santa Claus and their elves, who will come bearing baskets of candy, are scheduled to visit the diners.

A full breakfast of eggs, bacon, sausage, hash browns, muffins, coffee, juice, milk and hot cider will be served. Faculty and staff members are welcome to attend. The cost is \$2 per person.

MAYS IS SCHOLARSHIP AWARDEE

Junior Charlsie Mays is recipient of the *Fort Worth Star-Telegram*/George Dolan Memorial Scholarship for 1993-94.

Funded by the *Star-Telegram* and its parent organization, Capital Cities/ABC, the scholarship honors the late Dolan. The widely known humorist was a columnist for the Fort Worth newspaper for 31 years before his death in 1988.

Majoring in advertising/public relations and minoring in English, Charlsie is a member of the Word of Truth Gospel Choir and a social sorority. She also is an algebra tutor for high school students. On the advertising staff of *The Daily Skiff*, Charlsie served as an intern at the Austin Convention and Business Visitors Bureau during the last two summers.

MBA STUDENT HOLDS BOLEN AWARD

Jason Kulas, currently in his first year of M.B.A. studies, is recipient of the R.E. "Bob" Bolen Scholarship for 1993-94.

First given 1991, the award is financed by the Bolen Scholarship Fund, endowed by gifts and pledges of more than \$100,000 in recognition of nearly a decade of Bolen's leadership as Fort Worth's mayor. The award is designated for an undergraduate or master's degree candidate whose career choice is in business or public service.

An executive-in-residence in the Neeley School of Business, Bolen joined the University's staff in 1991 in a part-time position as senior adviser to Chancellor Bill Tucker. In addition to other responsibilities, he counsels students planning careers in business and industry and assists the Tandy American Enterprise Center in building and marketing an executive education consortium.

Jason, studying marketing and finance at TCU, received a Bachelor of Arts degree with a major in chemistry and a minor in religious studies from Southern Methodist University earlier this year. While an undergraduate, he held an SMU Memorial Scholarship and was a member of the SMU varsity football team in 1989-90. A volunteer tutor at Dallas' Stonewall Jackson Elementary School, Jason was an officer in SMU's Student Foundation, headed a committee in its student senate and was an officer in Phi Gamma Delta fraternity. Currently he works with Dun & Bradstreet in Fort Worth as a systems support specialist and is a graduate assistant in TCU's marketing department.

TWO LISTED ON ALL-SWC TEAMS

Two Horned Frog athletes, Royal West and Reggie Anderson, have been named to the *Dallas Morning News*' All-Southwest Conference Team. A defensive lineman, Royal was TCU's representative on the first team defense. The junior was credited with nine sacks, 76 tackles and a league-leading 17 tackles for losses. Last week *Football News* announced its selection of Royal to its third-team all-America squad.

Named to the second team defense, Reggie, a junior, was described in the *The Dallas News*' 1 listing as "perhaps the best athlete on Horned Frog defense."

CANDIDATE TO VISIT FRIDAY

Robert A. Seal, university librarian at the University of Texas at El Paso, will be a guest on campus Friday. A candidate for the director's position of the Mary Coats Burnett Library, he will be presented at a 1:30 p.m. reception in the Faculty Center. For interested faculty and staff members, a question/answer session will follow.

CLIBURN EVENT TO AIR DEC. 15

"The Ninth Van Cliburn International Piano Competition: A Life in Music," which opened last May on campus and concluded June 6 with the announcement of the 1993 winners, will premiere Dec. 15 on Channel 13. The PBS nationwide presentation will take a look at the 35 competitors and their work toward international acclaim.

The drama is highlighted by recital and concerto performances filmed during the competition. Segments will include Van Cliburn, American composer Morton Gould, jurors, Conductor Jerzy Semkow and pianist/educator Russell Sherman, as well as the competition entrants.

The documentary, underwritten by Mobil and Tandy corporations with additional funding by a grant from The Meadows Foundation, is scheduled for 8-10 p.m.

NEELEY SCHOOL TESTS PROJECT

Rarely do opportunities and challenges faced by business professionals fall neatly into a single area such as management or law. A personnel issue, for example, which could be addressed deftly given only legal opinion, quickly becomes murky when considered from a management perspective.

Yet, business schools are filled with individual courses that speak to various areas of business in an isolated fashion, and in the past, few opportunities have existed to help enlighten students on how information in the various courses fit together.

Recent changes in accreditation standards by the American Assembly of Collegiate Schools of Business have prompted business schools to consider how to formalize the synthesis of business education.

This fall the Neeley School has been testing a prototype "integrate project" that requires students in four graduate-level classes to consider a detailed case study and propose an action plan to a fictional board of directors, explained Rob Rhodes, academic director of the M.B.A. program.

"If you teach two classes in isolation, and you fail to see their connection, it really skews your whole view of things," Rob said. "It seemed to the AACSB, which decided to change the standards, that it would be very useful to make some of those connections between classes much more explicit."

Students from the classes that cover business law, organizational behavior, statistics and economics are assigned to teams that review a business case over several days. Following careful analysis, teams defend their recommendations before an imaginary board of directors. Grades for the teams' efforts are decided jointly by the four professors, who include Chuck Becker, Roger Paffenberger and Larry Peters in addition to Rob.

Changes in the Neeley School M.B.A. program that address some of the new AACSB requirements are scheduled to be implemented in fall 1994 following approval.

"Because we wanted to be in a position to implement quickly, we felt like the integrated project met the requirements, but moreover, it was something that logistically we could pull off and do nicely," Rob said. "Hopefully we will learn what we've done right and what we haven't and be able to make some changes next year."

FROGS COMPETE AT SMU WEDNESDAY

The Horned Frogs' swimmers and divers will compete tomorrow (Wednesday) against Southern Methodist University. The event will be in Dallas.

During the recent competition in their home pool against Texas A&M, the men lost 100-143 and the women lost 97 to 146 to the Aggies.

"We were emotionally ready to swim, and so was A&M," said Coach Richard Sybesma. "They did a good job against us and won some crucial events that made a difference in the outcome."

The Frogs performed well, the coach added, "And we will have to focus on beating them at the Southwest Conference championships in March."

First-place finishes for TCU included:

- Sheila Hewerdine, 200 butterfly, 2:05.94;
- Leah Springstead, 1-meter diving, 239.63;
- Julie McCormack, 100 freestyle, 53.12;
- Tama Salter, Sara Widmeyer, Stacey Gabriel and Laura Wade, 400 relay, 3:37.56;
- Ron Forrest, 200 freestyle, 1:41.94, and 500 freestyle, 4:37.83;
- Walter Soza, 200 intermediate, 1:54.39;
- David Doggett, 3-meter diving, 279.45;
- Cleith Pascoe, 1-meter diving, 296.85.

STAFF APPOINTMENTS

Director of undergraduate business programs at the University of San Francisco since 1987, **Margaret Saunders** joined the staff Nov. 15 as coordinator of the Neeley School's student resource center. A 1980 graduate of the University of California at Berkeley, where she was named to Phi Beta Kappa, she currently is working toward a Master of Education degree in counseling at the University of San Francisco.

John Fleck, who joined the staff Nov. 15 as programmer/analyst in Information Services, formerly was curriculum coordinator for IBM Skill Dynamics for three years. Awarded a national directors award in that position in 1991, he had been associated with IBM since 1967 in its marketing divisions and as senior instructor in its European Education Centre. The Illinois native, a member of the U.S. Tennis Association, earned the B.S. degree at Western Michigan University in 1966.

MUSICIANS MARKET CAROLS

Kappa Kappa Psi, the University band fraternity, will be selling Christmas carols in the Student Center Tuesday (today). Patrons of their roving art may purchase from three to 12 carols to be performed by a small ensemble of wind and percussion instruments anywhere on campus Friday.

NOTES ON FOLKS

A review by **Fred Erisman** (English) of *Playing Cowboys: Low Culture and High Art in the Western* by Robert Murray Davis (University of Oklahoma Press, 1992) has been published in *Montana: The Magazine of Western History*.

MBA student **Chris Westfall** is appearing in "The Fantasticks" at Theatre Three in Dallas on Thursdays and Sundays through Jan. 2. Chris has appeared in several local productions, including "City of Angels" at Casa Manana. He performed as the host of the Batman stunt spectacular at Six Flags and has been seen on the soap opera "Days of Our Lives."

Sympathy is extended to **Gerald Gabel** (music), whose wife, Jeraldine, died Nov. 25 after a lengthy illness. The Honolulu native was active in the Texas Composer's Forum. A memorial service will be held on campus in January.

Sympathy is extended to **Sandra Tobias** (scholarships and financial aid) whose husband, W.C. "Toby" Tobias, died suddenly Nov. 26. Funeral services were held Nov. 30 in Alabama.

Alumnus **G. Curtis Jones Jr.** of Vienna, Va., has been elected president of the Division of Higher Education of the Christian Church (Disciples of Christ). To assume the position Jan. 4, he currently is with the Federal Quality Institute. Active in the Disciples Student Fellowship before completing the B.A. degree here in 1960, he returned for his master's in political science after a year at Yale on a Rockefeller fellowship and two years in the Army.

Bob Cooter (education) has co-authored a book chapter titled "Instructional techniques for making subject area textbook materials more comprehensible for readers at risk." He co-authored the chapter with D.R. Reutzel of Brigham Young University. It appears in a textbook published by Allyn and Bacon titled *Teaching reading to high risk learners* (Wood to Algozzine, 1994).

Joe Law (writing center/English) recently took part in the Britten Birthday Festival sponsored by the University of Maryland. He presented a paper called "Tidying Vere and Hearing Melville: Benjamin Britten's *Billy Budd*" and also took part in a panel discussion on "Literary Aspects of Britten's Librettos."

Rotary International Club South of Fort Worth has twice hosted University international students and **Al Mladenka** (International Student Affairs) as speakers at recent luncheons. **Daniela Geleva** of Bulgaria and **Pavel Douleпов** of Russia, together with Al, were invited guests at the Sept. 21 meeting. During the program, Daniela and Pavel provided information on their student status and their reasons for applying for international admission. They also responded to questions from the audience. Al and **Nancy Najera** were guests of **Will Stallworth** (physical plant) at the Nov. 16 program. Nancy, who is from Mexico, talked of her decision to attend TCU and related her experiences as a student. She also discussed NAFTA with individual members. In addition, the club has invited 20 international students to attend a special Christmas luncheon this month. Rotarians' families will be present.

"Strategy Instruction in a Literature-Based Reading Program," an article written by **Cathy Block** (education), appeared in the November issue of *The Elementary School Journal*. Cathy also presented a paper "Producing Generalization: Students as Co-Teachers and Co-Researchers" at the 43rd annual meeting of the National Reading Conference in Charleston, S.C., on Dec. 4.

Nowell Donovan (geology) led two recent field trips. Students from Wichita Falls Episcopal High School accompanied him to the Meers Fault in southern Oklahoma, an active structure that last moved about 1,000 years ago when it produced an earthquake with a Richter magnitude of about 7.2. The other trip, organized for Wichita State University's geology department, involved a demonstration of sequence stratigraphy in the upper Cambrian rocks of the Slick Hills in southwestern Oklahoma.

WAYLAND UNIVERSITY HONORS FRYE

"For excellence in his profession, expression of his Christian faith, devotion to his family and loyalty to his Alma Mater," Bob Frye was presented the Distinguished Alumni Award by Wayland University during its Nov. 19-20 Homecoming activities. He was given a plaque, which included a picture of the 85-year-old institution.

One of four Wayland graduates honored during the weekend and publicly recognized during a Homecoming chapel service, Bob was graduated from the Plainview institution in 1961 after attending on a basketball scholarship and serving as co-captain his senior year.

The English professor, who with his wife Alice serve as Danforth Foundation Associates, was cited as "nationally respected as a scholar and teacher. He is a popular reviewer for professional journals as well as for local media markets in Fort Worth. He has published more than a dozen articles and essays for professional journals and has presented scholarly papers and chaired sessions at some 50 professional meetings in 17 states. It also was noted that he was TCU's Piper Professor nominee in 1985 and currently is TCU's nominee for National Professor of the Year for the Council for the Advancement and Support of Education. Among Bob's honors from TCU also included in the Wayland program were the Chancellor's Award for Distinguished Teaching in 1992, the Burlington Northern Teaching Award in 1989 and Honors Professor Award in 1981, as well as the T. A. Abbott Award for Faculty Excellence from among faculty members at all U.S. colleges and universities.

TCU IN THE NEWS

Jonathan Ogujiofor (University Ministries), who serves as minister with minority students as well as vicar-in-charge at St. Simon Chapel, was quoted extensively in a Nov. 26 *Star-Telegram* feature story. In "Stop Six chapel gives African immigrants a touch of home," writer Gracie Bonds Staples described the missionary outreach work of Fort Worth's St. Simon of Cyrene Episcopal Church through a chapel established to minister to African Anglicans. In addition to liturgical differences between Episcopal churches in the United States and Africa, Jonathan noted: "There is a big difference in the cultural background of those who are native Africans, and it's difficult for us African blacks who've become Americanized to understand. The issue of divorce was cited as an example. "That is one of the reasons an African will feel very at home with an African priest," he said, "knowing what you don't tamper with. You don't ever advise breaking up. Family structure is the root of everything."

Actor **Chris Westfall**, (a M.B.A. candidate in the Neeley School) was profiled along with his actress wife Lisa-Gabrielle Greene in the Dec. 1 *Fort Worth Star-Telegram* story "2 for the Show" In addition to his full-time studies, Chris is a professional actor currently appearing in *The Fantasticks* at Dallas' Theatre Three through Jan. 2.

Lady Frog **Janell Hunter**, who led the women's basketball team last season with 220 blocked shots, was featured in a large photo in the Nov. 26 issue of *The Fort Worth Press*. The issue also carried stories about this year's men's and women's teams.

Tenor **Richard Estes** (music) performed the world premiere of Robert Chumbley's "Songs of Persuasion" with mezzo-soprano Virginia Dupuy and the Omaha Symphony Chamber Orchestra in November. The *Omaha World Herald* said "The two singers were effective in this new work, especially Estes, who communicated the intensity and longing of this music."

Chuck Williams (management) discussing the nature of corporate cultures said NBC made a \$100-million mistake in allowing David Letterman to leave the network for CBS in an Associated Press story that appeared in Thanksgiving Day edition of the *Fort Worth Star-Telegram*. The AP story was distributed nationally by the news wire service.

Calendar of Events

- Dec. 7 --Library director candidate Patricia Kelley will be available for a question-and-answer session at a 1:30 p.m. reception in the Faculty Center.
 --Reservations due for Dec. 14 TCU Woman's Club Christmas luncheon.
 --Women's basketball, TCU vs. Colorado, 5:30 p.m., Daniel-Meyer Coliseum.
 --Men's basketball, TCU vs. Middle Tennessee State, 7:35 p.m., Daniel-Meyer Coliseum.
 --Handel's *Messiah*, Fort Worth Chamber Orchestra and Southwestern Baptist Theological Seminary Oratorio Chorus, 8 p.m., Ed Landreth Auditorium.
- Dec. 8 --Advent service, noon, Robert Carr Chapel.
 --OSP Christmas lunch, noon, Student Center ballroom.
 --The Cliburn at TCU series presents Avery Fisher Prize-winning pianist Yefim Bronfman, 8 p.m., Ed Landreth Auditorium. For ticket information, call 738-6533.
 --"Seniors Secret Agenda," a free ballet performance featuring the works of six senior dance students, 8 p.m., Ballet and Modern Dance Building Studio Theatre.
- Dec. 9 --Last day of classes.
- Dec. 10 --Study days through Dec. 11.
 --Kappa Kappa Psi Fraternity performs Christmas carols on campus.
 --Library director candidate Robert A. Seal will be available for a question-and-answer session at a 1:30 p.m. reception in the Faculty Center.
- Dec. 13 --Final examinations through Dec. 17.
 --"Carols by Candlelight," an annual musical/visual event, 10:30 p.m., Robert Carr Chapel. Hot spiced cider served.
- Dec. 14 --TCU Woman's Club Christmas Luncheon, with a "Christmas Treat" by Richard Estes, 11:30 a.m., Woodson Room, Student Center.
- Dec. 14-15 --Late Night Study Break Breakfast, 11 p.m.-12:30 a.m., Student Center main cafeteria.

OFFICIAL ABSENCES

Students listed below must make up any class assignments that were missed. It is the responsibility of the student to arrange with his/her professor for the makeup. If you have any questions, call Ext. 7855.

Members of the mens golf team who missed classes on November 29, 30 and December 1 to participate in a tournament at Las Vegas, NV:

Adams, Slade Bangert, Ben Boisvert, Robert Flynn, Michael Zinnecker, Deron

Members of the Army ROTC Brigadier Drill Team who missed classes on Friday, December 3 to represent TCU in Natchitoches, LA:

Benton, Aaron Cain, Brutrinia Evans, Michelle Faz, Ebelardo Hallmark, Nathan
Hopkins, Melody Horst, Diana Johnson, Curtis Magill, Eric Schnardthorst, D

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Information Redacted