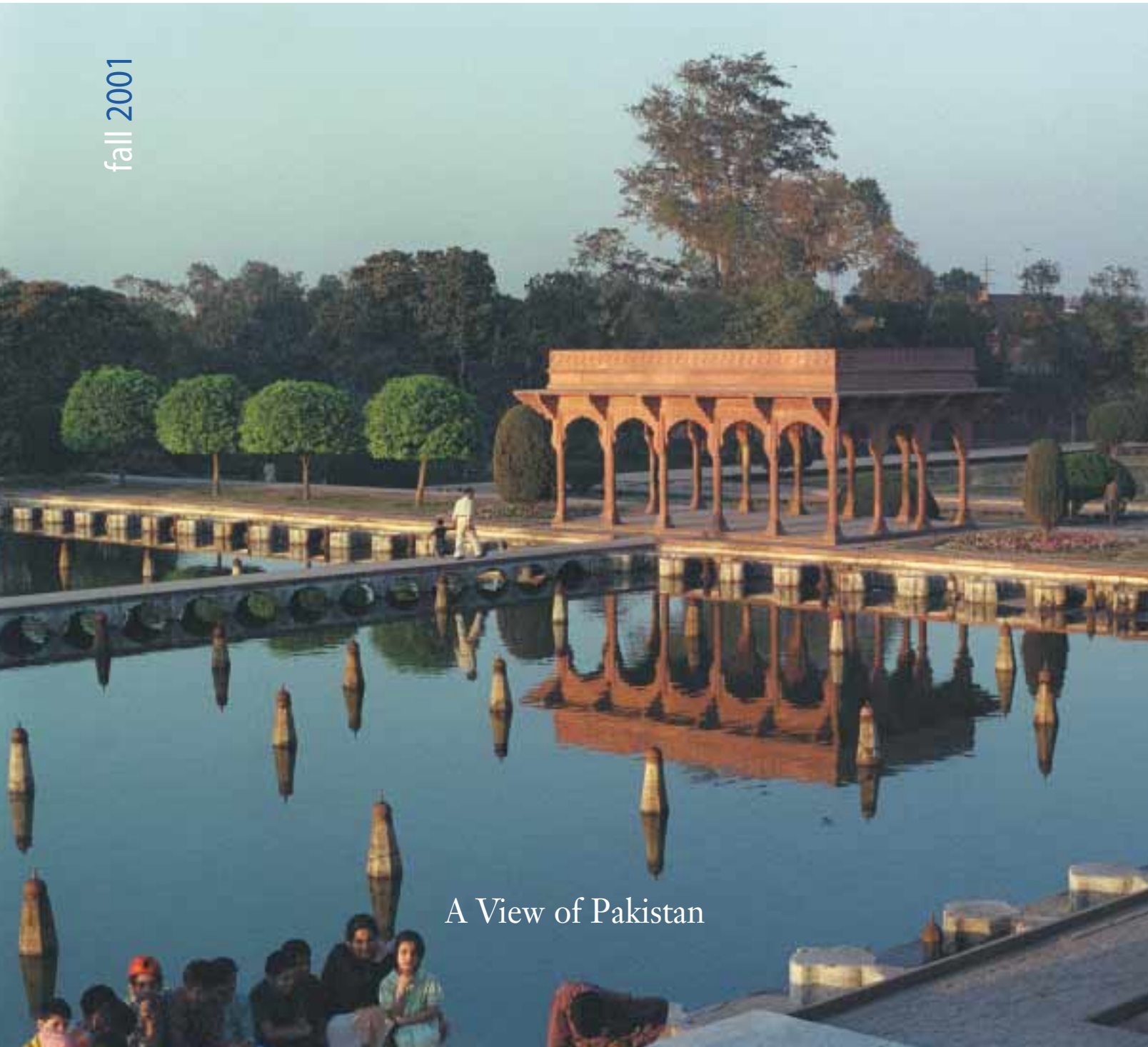
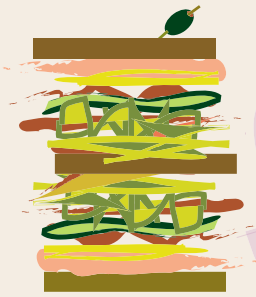
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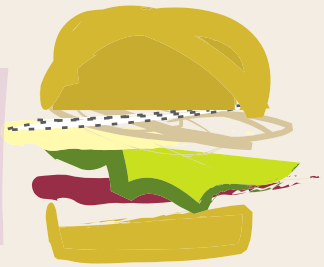
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A View of Pakistan



SANDWICH



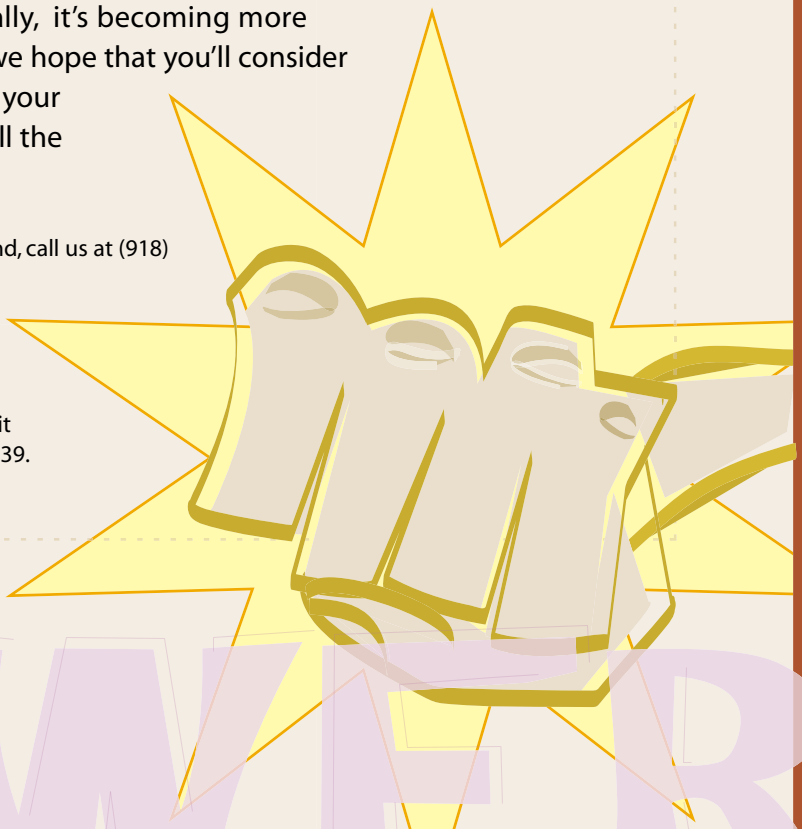
The Hidden Power of a Sandwich

There's energy in your sandwich that goes well beyond calories: There's the power to keep lights burning and computers running. There's power to clean floors and to heat buildings. There's the power to keep TU moving forward.

That's because by "brown-bagging" your lunch instead of eating out, you can save money that could make a real difference to TU's Annual Fund. The University depends on Annual Fund support to meet a variety of operating expenses, from the classroom to the boiler room.

We know that these days especially, it's becoming more difficult to find extra money. But we hope that you'll consider brown-bagging it for TU because your support has the power to make all the difference.

For more information on the TU Annual Fund, call us at (918) 631-2561, or mail your contribution to The University of Tulsa Annual Fund, 600 S. College Avenue. Tulsa, Oklahoma 74104-3189. Or visit our secure online giving page at www.utulsa.edu/development/giving. If you would like to use a credit card over the phone, please call 918-631-3839.



Design by Miranda Heineman

POWER

the university of TULSA magazine

contents fall 2001

features

12 Shedding Tiers

By Bob Lawless

TU catapulted to the second tier in the *U.S. News & World Report's* college rankings — a feat that reflects the University's rising reputation.

18 Making a Difference

By Doug Fishback

Professors Sujeet Shenoi and John Hale are training the first wave of cybernauts — students prepared to battle cyberterrorism.

20 Of Pakistan and Bees

By Harrington & Laurisa Wells

TU biology professor Harrington Wells travelled to Pakistan with his wife, Laurisa, and five children. Laurisa's spectacular images capture the essence of a nation and culture.

28 DaVinci Redux

By Deanna J. Harris

Vocalist. Art restorer. Volunteer. Chemist. TU super-senior Tim Swearingen is the definition of a 21st century Renaissance man.

Cover photography by Laurisa Wells

departments

2 Editor's Note

3 Special Report: 9/11/01

8 Campus News

14 From the U

16 Research

31 Athletics

32 Values & Service

33 Toolbox

34 Partners in Education

36 Alumni News

37 Homecoming 2001

40 Class Notes

45 In Memoriam

48 Calendar

49 Book End

p 3. **9/11**

The indelible mark burned into our nation's psyche on September 11th deeply touched the TU family. We know that one alumnus perished; others experienced first-hand the attacks in New York and Washington, D.C. In this special section, we share their stories as well as words from Pres. Bob Lawless and TU trauma expert Prof. Elana Newman.



Illustration by Sara Bonham



A Lesson from Pumpkins

One of the spookiest things about Halloween is trying to explain it to someone not familiar with this particular American holiday: Depending on their age and disposition, we spend all year convincing our children that wearing mismatched socks and shoes is not okay; avoiding strangers is a good thing; and that saying "please" and "thank you" might ensure a visit from Santa Claus in December. Then comes Halloween, and we dress them up as fruits and dinosaurs, wizards and goblins with princesses thrown in for good measure. We encourage them to knock on the doors of complete strangers and demand goodies. "Give me a treat, or I'll trick you good."

In short, October 31st is the night we encourage our kids to defy convention, and it's all good, clean American fun. Bizarro!

Helping someone understand Halloween is a walk in the park compared to explaining the intricacies of pumpkin carving to someone from, say, Zimbabwe.

Now, imagine that you are not an American; that Halloween and trick-or-treating and cutting up pumpkins are totally alien to your culture. Imagine that you are an international student in Tulsa working on your English language skills at the English Institute for International Students (EIIS) so that you can enroll full-time in University of Tulsa courses. Your assignment for October is to give your group instructions for making a jack-'o-lantern. That is exactly what happened this fall for the more than 50 students at TU's EIIS.

Only in America would you find students from Angola, China, Japan, Lebanon, Oman, Turkey, United Arab Emirates, Saudi Arabia, Venezuela and Yemen carving pumpkins as an MP3 mix of Turkish rap, Sting and the latest Michael Jackson blasted from a car stereo.

In addition to celebrating Halloween, EIIS, in conjunction with the Association of International Students, sponsors events throughout the year to encourage students to use the English language and understand American culture.

There is a seasonal lesson for all of us in the EIIS program: Communication encourages understanding, which in turn enhances tolerance, which in the best of circumstances ushers in peace.

Deanna J. Harris, Managing Editor

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We Do What We Can *A Message from the President*



The past few months have run us all through an extreme gamut of emotions. The anticipation of launching a new school year turned to excitement as we welcomed our most academically distinguished freshman class ever. We celebrated when The University of Tulsa advanced into the second tier in *U.S. News & World Report* rankings, recognizing our ongoing commitment to excellence. And then, on September 11, senseless violence plunged us into new realms of grief and worry.

The initial shock following the terrorist attacks had scarcely begun to settle when we learned of a new tragedy: A light plane crash in Canada took the lives of Jim Pielsticker, chairman and CEO of Arrow Trucking; and Charles Ryan, president and COO of the NORDAM Group. Both men were accomplished business leaders and dedicated TU friends who are deeply missed. Our thoughts and sympathies are with their families.

During good times and bad, the past few months have reminded us of the value of coming together as friends and family, as colleagues and compatriots, to lend mutual support as we reflect not only on our losses, but also on our abiding strength.

During such unstable times, we are constantly faced with the question, "What will we do?" Will we lie low and wait? Will we carry on as if nothing has changed? Will we allow anxieties to distract us from opportunities? What will we do?

The only meaningful answer to this question is as powerful as it is simple: "We will do what we can."

The TU community already has demonstrated this response in many ways. At a campuswide memorial service in the Donald W. Reynolds Center on September 14, students, faculty, staff and friends of many faiths came together to reaffirm shared values of peace, tolerance and respect. They also dug deep into their pockets and gave, overflowing the collection plates several times. One person threw in her pocket change — coin purse and all. Another signed over his $600 supplementary tax refund check. The spirit of giving was as complete as it was spontaneous, and we were able to pass along more than $5,000 to the Red Cross from that single ceremony. We did what we could.

On a more formal front, this year TU is educating its first class of Cyber Corps students under a highly selective National Science Foundation program to produce experts for federal careers in information security. These careers will include counterterrorism and law enforcement roles. As one of only six pioneer institutions in the Cyber Corps program, TU is educating nearly a third of the total inaugural class, which underscores our role as the newly emerged leader in computer security education. This role includes regularly leading the nation in graduating Ph.D.s in computer security. Recent events have reiterated the vital importance of counterterrorist vigilance, and TU has stepped forward to protect our information infrastructure. We are doing what we can.

As a storehouse of expertise, we are finding ways to help. For example, TU psychology professor Elana Newman is traveling to New York City to direct the Dart Center Ground Zero office, which is a specialized counseling and support center to help journalists deal with the psychological repercussions of their important work covering the September 11 terrorist attack and its aftermath. Newman's expertise in trauma and journalism makes her uniquely qualified to head this office, which was established through a $250,000 grant from the Dart Foundation of Mason, Michigan. We do what we can.

Finally, during a time when recession and heightened stress are threatening charitable giving, TU faculty and staff have come through once again, exceeding the $60,000 goal set for our United Way campaign — a goal nearly 10 percent higher than last year's. The campaign also saw more than 75 new first-time donors. Our success here has been amplified by the generosity of Williams, which has stepped up with a pledge to match dollars from new TU donors. Again, we have seen a need, and we have chosen to do what we can.

As proud as we can rightly be of our successes, we have no room to rest. The question, "What will we do?" is one that is constantly before us. It demands a new answer each day. As a member of the TU family, I look forward to joining you as we continue to answer that question in ways that will make a lasting difference even as we make each other proud.

Bob Lawless
President, The University of Tulsa

9.11.01

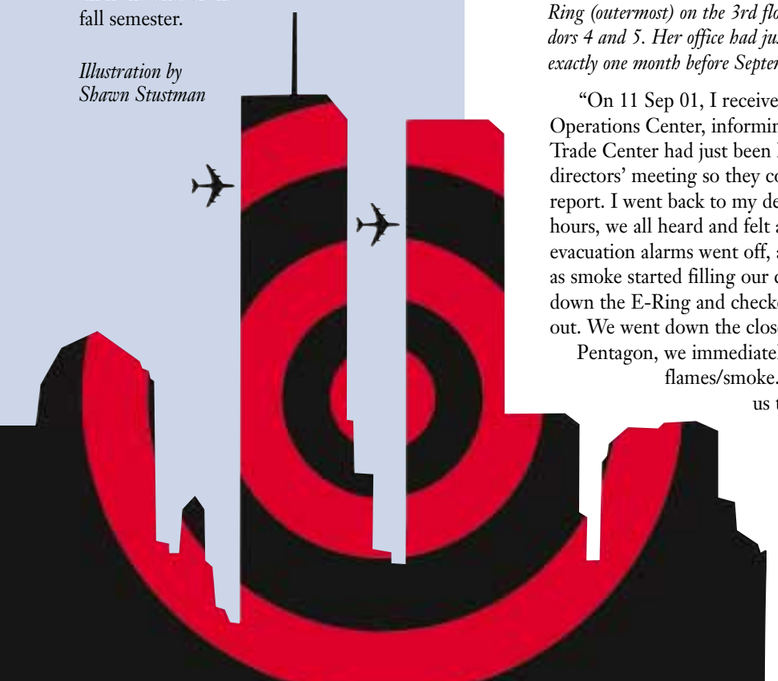
By Teresa Valero,
TU Assistant Professor of Art

Language in any of its forms is a self-contained system of interactive signs that communicates ideas. The students in ART 3273 (typography and graphic production) were asked to take their reaction to the tragic events of September 11, 2001 and combine the syntactic and semantic dimensions of 9.11.01 into a logotype/illustration form. They were asked to take into account word association, the function of a sign relating to a specific concept, level of abstraction, the inherent qualities of typefaces, etc.

What the students created are powerful, haunting images that rivet your attention and reinforce the fact that the phrase "911" will never have the same meaning as before. Through the use of color and typography, the students have captured the horrors of September 11, 2001 and have communicated in a very personal way the deep impact the events of that day have had and will continue to have on us all.

The images shown in this section were exhibited in McFarlin Library until the end of the fall semester.

Illustration by Shawn Stustman



Watching the World Crumble

I was running late for work on September 11, 2001 and was on a ferry en route to the World Trade Center when the attacks began. I watched the attack occur from the deck of the ferry.

Watching the World Trade Center engulfed in flames and later, destroyed, was a surreal experience. That kind of destruction is only seen in movies, and so, as I watched in complete horror, I expected Godzilla to appear at any moment to defeat the evil one and save the world. But Godzilla never appeared, and the World Trade Centers fell. I remember feeling an overwhelming sense of helplessness — knowing that my daughter, Danielle, was in the building, knowing that my friends and colleagues were in the building — and not being able to do anything about it. It is very hard to explain my feelings, even now, because I am still dealing with them. I think about what happened every day. I remember what happened when I go to the funerals of my friends who didn't make it out. I don't know if I'll ever be able to adequately explain my feelings about what happened on the morning of September 11.

Bardhyl Quku, BS '63
Franklin Lakes, New Jersey • Morgan Stanley
Worked on the 73rd Floor of World Trade Center Two

Note: Bard Quku's daughter, Danielle, escaped safely.

Breached but not Conquered

Major Anita M. Raines graduated from TU in 1985 and was commissioned a Second Lieutenant in the Ordnance Corps out of TU's U.S. Army Reserve Officers' Training Corps program. She is currently assigned to the Headquarters, Department of the Army and works in the Office of the Deputy Chief of Staff for Logistics, ODCSLOG, (3 star) front office. Her office was on the Pentagon's E-Ring (outermost) on the 3rd floor, off of corridor 4. The plane hit between corridors 4 and 5. Her office had just completed its move into the renovated wedge exactly one month before September 11th.

"On 11 Sep 01, I received a call at about 0910 hours from the Army Operations Center, informing our office (ODCSLOG) that the World Trade Center had just been hit by an aircraft. I interrupted the General's directors' meeting so they could turn on the television to see the news report. I went back to my desk to continue working and shortly after 0930 hours, we all heard and felt an impact rock our side of the building. The evacuation alarms went off, and people started heading out of the offices as smoke started filling our corridor. My Colonel and I made our way down the E-Ring and checked each of our offices to ensure all made it out. We went down the closest emergency exit stairwell. As we exited the Pentagon, we immediately smelled the jet fuel and saw the flames/smoke. A Defense Protective Service officer waved us through a gate in the construction fencing and told us to run (concerned about secondary explosions from the construction site, etc). Everyone started gathering at the far end of the South Parking lot, and offices were getting accountability lists started when the police announced over their loud speakers that everyone should keep moving, as there was another plane inbound (turned out to be the plane that crashed in Pennsylvania). We moved out and formed up again in Pentagon City, on the other side of I-395, and continued with our accountability checks. We reported our status to the Army Operation Center. All ODCSLOG personnel made it out safely — two of our soldiers were admitted to the hospital for smoke inhalation.

I'm proud to say that even with the profound loss of the personnel in many key Army Staff offices, HQDA didn't miss a beat and immediately began crisis recovery operations and continued to provide strategic level leadership to our forces. The assistance we received from offices throughout the National Capitol Region enabled our personnel to provide uninterrupted support globally.

Since the crash, I have been working the relocation issues for our agency. While all of our ODCSLOG offices were lost due to the crash, structural damage and fire/water damage, we were able to move about 150 of our personnel back into renovated space off of corridor 3 on 3 Dec 01.

MAJ Anita M. Raines, DA ODCSLOG AXO



Illustration by Sara Bonham

View from Abroad

The day after the attacks in the U.S., the people of Frankfurt came together for a silent march around the city. What initially looked like a few hundred people marching silently, showed to be at least one thousand, holding candles, holding each other. It was the most heartwarming experience for me to observe because for the first time in my life, I realized that people of the entire world stood under the same cause — innocent lives taken so suddenly and with such hate is condemned by all walks of faith and race.

My point for this letter is to address all the students of The University of Tulsa that we should not be so ignorant to point the finger at the Muslim or Islamic people. Ignorance is what breeds hate, and for you to point a finger and blame innocent Arab Americans is like pointing your finger at a mirror to yourself. I have heard from my parents of incidents of hate crimes in Tulsa, and it breaks my heart that anybody would terrorize someone's faith and choice of life. These people are Americans as well. They have established themselves as Americans to live the American Dream. As the media has expressed: [Branch Davidian leader David] Koresh does not represent all Christians, and Osama Bin Laden does not represent all Muslims.

This is a time that we Americans are tested in our strength emotionally. We have had the privilege living in a country that has kept us away from such terror; now is the time that we realize that our lives and country have changed and opened a new chapter of our history. We cannot go back to the safety we were once so sure of, but we should not allow such incidents to destroy us as a nation. We should stay strong and support one another as Americans, whether we are Christians, Muslim, Jewish, Atheist. We should not allow the sorrow in our hearts to turn to hate, but open our eyes and let this experience change us into stronger and more compassionate people.

Susi E. Doring, TU junior
Studying in Frankfurt,Germany



Photos by Frank Christel



'He exuded happiness' *Family and friends remember Jayesh Shah*

The family and friends of Jayesh "Jay" Shah (BS '84, MS '87) will never forget the crude violence that took his life September 11, but stronger still will be their memories of an adventurous family man who lived life openly and with an endless supply of good will.

Shah, 38, was vice president of technology at eSpeed International, a division of Cantor Fitzgerald. He worked on the 103rd floor of One World Trade Center, 10 floors above the place where American Airlines Flight 11 hit. For his family, shock turned to determination, as 22 family members and friends rallied at the apartment Shah shared with his wife and three children to support each other and to coordinate aggressive search efforts. Relatives and friends came from Tulsa, Connecticut, Washington, D.C., Detroit, Houston and India. They went from hospital to hospital. They walked the streets, showing Jay's picture to TV reporters. And they hoped. Then, hope turned to grief when his body was recovered on September 28.

Now the family is piecing together a new life, watching out for the children, and remembering.

"Jayesh always had a smile on his face. He was a very happy person, and he exuded happiness," said Niloy Shah (BS '85, MS '89), Jay's brother, friend, and TU classmate. The two took computer science classes together in graduate school. "I was a terrible note taker, and



Jayesh was a great note taker, so I'd always ask for his notes," Niloy recalls. The brothers were so close that Jayesh and his new bride, Jyothi, lived with Niloy and his wife, Darshi (BS '87), for seven months after they moved to Houston from Chicago.

"He was a big family person — a family man," Niloy said. "He had a tremendous love for his kids and for mine and a passion for doing things with them." That passion extended to other pursuits, as well. One month before he was killed, he fulfilled a longtime wish to go skydiving, despite not having yet fully recovered from a torn Achilles tendon.

"He was the best big brother any person could ever ask for. He was also a proud man — proud of his education, his accomplishments, and proud to be an American," said Darshi.

Jayesh earned a B.S. degree in petroleum engineering, but responding to a downturn in the petroleum industry, he went on to earn a master's in computer science. His career with Amoco took him from Tulsa to Chicago and Houston, and then in October 2000 he joined eSpeed and moved to New York.

"He left Jyothi and the kids in Houston so the kids could finish the school year," Niloy said. "Education is very big in our family, and it was important to Jayesh that their studies not be disrupted."

Last June, Jyothi and daughters Nikita (10) and Sonia (8), and son Kevin (6) joined Jayesh in New York. Now, in a sad parallel, the four will likely remain there until the end of this school year, when they will return to Houston, most likely into the home they still own there.

Malti Shah, Jayesh's mother, was living with him when the tragedy struck. She witnessed the World Trade Center attacks from the street during a morning walk.

"One cannot imagine the helpless feeling of watching this situation unfold and knowing your child is in grave danger," she said.

Time, the support of family and friends, and long talks with Mom will help the Shah family deal with the aftermath of their loss. Through it all, they will have each other and memories of a loving brother and son, devoted husband, father and uncle, and an enthusiastic man who made the most of the life he had.

What to Do in Times Like These

In the aftermath of September 11, we asked Elana Newman, TU psychology professor and expert on trauma-related stress, to help us sort through the type of reactions we might expect in ourselves and others. As we went to press, Dr. Newman was en route to New York City, where she will direct the Dart Ground Zero trauma center for media professionals covering the tragedy.

***Q:** The events of September 11th left us in a state of shock. From a psychological perspective, what are the normal reactions for this kind of disaster over a period of time, for instance after two weeks? a month? Six months? or a year?*

A: Reactions to traumatic events vary considerably, ranging from relatively mild, creating minor disruptions in the person's life, to severe and debilitating. Initially, many people may experience feelings associated with one's sense of safety and security being threatened. Responses such as anxiety, fear, fatigue, distraction, worry, helplessness, nervousness, irritability and upset, as well as emotional numbness and personal or social disconnection are common. For the most part, it is highly improbable that individuals not directly affected by the September 11th events will have long-lasting mental or physical health problems. Most people with symptoms find that they fade over time.

Among those who directly experienced, witnessed or lost someone in the attacks, again, reactions vary considerably, but most will experience some symptoms of distress that improve over time.

Q: *Are there specific symptoms of post-traumatic stress that a lay person could recognize in others or in oneself?*

A: Typical problems include not remembering significant parts of what happened, but also distressing fragments of memories that return in physical and psychological flashbacks. Nightmares of the trauma are common, as are depression, irritability, sleep disturbance, dissociation, and feeling jumpy. Children may act younger than their actual age, lose a skill they had already mastered, worry about themselves and others dying or being hurt, and play games that repeat something from the event. These reactions may be short- or long-term, or mild or intense, and may or may not affect the ability to go on with daily life.

Q: *What are the signs that counseling might be beneficial?*

A: If a person finds that important areas of life such as relationships, work, or school are being affected by traumatic stress, counseling may be indicated. Likewise, people who become more and more depressed or anxious or for whom the use of alcohol or other drugs increases significantly may need treatment.

There are a number of successful treatments available for trauma-related disorders that might include medication, anxiety management, cognitive therapy (focusing on thoughts and beliefs), and exposure therapy (helping the person confront painful memories and situations that are realistically safe although still frightening through talking about or imagining them).

Q: *Do you have any tips for discussing/allaying fears of children?*

A: First, parents should take care of themselves as best as possible and process their own reactions with trusted adult friends and colleagues. Children are acutely sensitive to their parents' reactions, so parents need to be sure that they are coping as best as possible.

In general parents should follow their children's lead regarding how much to discuss the event. Certainly parents should be honest with children and explain to them what happened in terms the child can understand. If the child wants to discuss the event in more detail, parents should listen to their child's concerns and respond to questions. Balancing the evil with positive images of helpers and discussing the steps the government is taking to keep people safe can be helpful. For children who were not at the site(s), it may be useful to restrict children's exposure to media images of the event(s) as much as possible. Older children may benefit if the entire family reads, listens or watches the news and discusses it as a family.

In the aftermath of a disaster, parents should try to keep to their children's routines as much as possible, including bedtimes, recreational activities, and family activities. If a child is agitated or upset, increasing soothing activities may be helpful.

Q: *What are the special risks to journalists and photographers when they cover disasters of this magnitude?*

A: Media personnel have an enormous responsibility to accurately portray the truth to the public, in situations where there can be great chaos and uncertainty. As reporters, photographers, broadcasters, etc., they also bear witness to great tragedy documenting the experiences of all those affected by the event. The public also tend to blame the messenger, which adds to their stress. Hence a minority may be at risk for the trauma-related symptoms described earlier.

Editor's note: These responses, in part, are based on a pamphlet that Dr. Newman and her colleagues prepared for the International Society of Traumatic Stress Studies available at www.istss.org



Illustration by Stephanie Ohman

Williams & Williams Communications Endow Chair in EE

The University's energy and telecommunications programs were enhanced at the end of the year when Williams and Williams Communications established an endowed chair in electrical engineering.

Williams donated funds to create the endowment which is designed to recruit and provide ongoing support of a distinguished faculty member in the field of electrical engineering.

Williams Communications will provide ongoing support through internships, collaborative research and consultation.

"The University of Tulsa and The Williams Companies historically have enjoyed a mutually beneficial relationship. I am grateful for Williams' financial support in establishing the Williams/Williams Communications endowed chair in electrical engineering at TU. Additionally, I would like to thank Williams Communications for agreeing to provide technical support to the individual selected to fill the position," said Bob Lawless, TU president. "Partnerships such as these contribute to our commitment to offer exceptional educational opportunities for our students, and we recognize the role The Williams Companies' leadership gift plays in this endeavor."

The professor selected will be responsible for teaching undergraduate and graduate students, creating new academic or research programs, mentoring graduate students in their area of specialization and consulting with business and industry in solving specific problems related to the professor's area of expertise.

"The endowment supports our belief in fostering technological innovation through education and furthers our mission to build a technologically advanced work force in Tulsa," said Howard Janzen, chairman and chief executive officer of Williams Communications.

The target date for hiring the individual is September 2002.

Author with TU ties Wins Nobel Prize

V.S. Naipaul, whose notes, recordings, photos and manuscripts are housed in the Special Collections of McFarlin Library, has been awarded the Nobel Prize in literature.

The TU collection, housed here since 1993, is the life archive of Naipaul, author of *A House for Mr. Biswas* and 20 other works of fiction and nonfiction. Visitors to the collection include Naipaul, who is reviewing personal correspondence and early works for a new book he is writing. He was on campus earlier this spring and is anticipated to return within the next year for additional research.

According to TU English Professor George Gilpin, the award "brings international prestige to TU. Since we have Naipaul's material, this is the place where scholars travel to study his works."

2001 Freshman Class Sets Record High

Members of TU's Class of 2005 are exceptional: A record 58 percent graduated in the top 10 percent of their high school class, with a grade point average of 3.7. With an average ACT score of 26.6, and SAT score of 1240, they are the most academically distinguished freshman class in the University's 107-year history.

"TU's commitment to academic excellence is first and foremost, and this year's freshman class — the best and brightest we have ever welcomed to TU — is smarter and smaller by design," said TU President Bob Lawless. "TU's phenomenal gain in the academic quality of this year's freshman class comes with a decrease in enrollment that was fully anticipated. An advance of this magnitude requires an increased level of selectivity."

13,000 Years of the History of Everything

Pulitzer Prize-winning author Jared Diamond presented his view of the past 13,000 years of history to a TU audience in September. His talk, drawn from his best-selling *Guns, Germs and Steel*, covered a panoply of topics including technology, genetics, genocide, pestilence, weather and geography. The presentation was the first annual TU/Gilcrease Museum Lecture.

Sponsors of the lecture include the Bovaird Foundation of Tulsa.

AHA Supports Student's Research

TU graduate student Sara Kaspar was awarded a $2,000 stipend and named a Student Scholar in Cardiovascular Disease and Stroke Research by the American Heart Association. She will determine if patients with a history of stroke have difficulties using voice mail technology, particularly automated telephone message systems.

Kaspar is a graduate student working on a master's degree in speech language pathology.

Broadcaster Inducted into The Communication Hall of Fame

Kenneth R. Greenwood, broadcaster, station owner, author and educator was inducted into the TU Communication Hall of Fame on October 30.

Greenwood, who began his communication career as a sports broadcaster in 1946, eventually became a radio station owner, then went on to help build and serve as president of Swanco Broadcasting, a group of radio stations that included Tulsa stations KRMG-AM and KWEN-FM.

From 1972 to 1979 Greenwood was chair of TU's Department of Communication. Under his leadership, KWGS-FM became an affiliate of National Public Radio.

Greenwood's list of community awards includes the Mass Media Award from the NCCJ and the Conservation Communicator of the Year from the Oklahoma Wildlife Federation. He was inducted into the Oklahoma Association of Broadcasters Hall of Fame in 1989.

Past inductees to the TU Communication Hall of Fame include Jim Hartz, Bob Losure, Robert Lorton, and the late Phil Dessauer and Saidie Adwon.

Student Wins British Marshall Scholarship

TU English major David McCrary, who admires Don Quixote's idealism and describes himself as a "literature fanatic," has been named a 2002 British Marshall Scholar. McCrary is the third student in TU's history to receive the award.

The British Marshall covers tuition, housing and related costs for two to three years of study in any discipline at any British university.

McCrary, a Tulsa native, was recruited to TU by English professors George Gilpin and James Watson to participate in the Tulsa Undergraduate Research Challenge (TURC).

"We congratulate David on his outstanding success and salute the professors who helped him attain this landmark achievement," said TU President Bob Lawless.

McCrary's professional goal is to bring his passion for literature back to the classroom. He claims Don Quixote as his "patron saint" and personal icon for his perseverance and unabashed idealism. "Despite the greatest of obstacles, Don Quixote set out one day to make the world a better place and he succeeded. Quixote had a vision, and I hope to follow my vision as valiantly as he did his. I want to take up the pen (and chalk) for the same reason Quixote took up the lance," McCrary said.

TU Professor's New Book Examines Motherhood

Sociology Prof. Susan Chase is the coauthor of a book that combines scholarly research on motherhood with real-life accounts of women mothering children.

The book, *Mothers and Children: Feminist Analyses and Personal Narratives*, was published in March by Rutgers University Press.

"We wanted to show how the lives of mothers and their relationships with their children are shaped by factors far beyond their control," says Chase, who divided the book in three themes: how dominant definitions of motherhood are detrimental, how maternity is an object of cultural and political struggle, and how the realities of everyday mothering depend on the circumstances of each mother's and child's life.

O'Brien Novel Republished

The late Darcy O'Brien's book, *A Way of Life, Like Any Other*, which won the Ernest Hemingway Award for Best First Novel, was recently republished by The New York Review of Books with an introduction by O'Brien's longtime friend, Noble laureate Seamus Heaney. O'Brien was a member of the TU English faculty from 1978 to 1996.

Heaney was the first distinguished visiting scholar to hold TU's Darcy O'Brien Endowed Chair, which was established to bring distinguished visiting scholars to the TU campus.

New Editor for the James Joyce Quarterly

Sean Latham has been named editor of the TU-based *James Joyce Quarterly*.

Latham has published articles on James Joyce, William Faulkner, and other topics in modern British, Irish, and American literature. His book, "*Am I a Snob?": Modernism in the Marketplace*, is forthcoming from Cornell University Press. He is coauthoring a new undergraduate textbook on poetry while working to create a significant new online presence for the *James Joyce Quarterly*.

College of Engineering and Natural Sciences



Science Classes for Non-Science Majors

TU Chemistry Professor Gordon H. Purser has garnered international acclaim for his innovative teaching and the development of a curriculum to teach science, math and engineering to college students who are not science majors.

The Award for Innovative Excellence in Teaching, Learning and Technology, which is given to college and university educators "who have made creative contributions to teaching, learning and the use of technology in higher education," was presented by the Center for the Advancement of Teaching and Learning at the 12th International Conference on College Teaching and Learning April 17-21 in Jacksonville, Florida.

Purser's nomination cites his publications in the field of chemical education, his development of a system to improve students' success in freshman chemistry at TU, and his involvement with the Tulsa Science Initiative, an experimental program funded in part by the National Science Foundation to develop new science courses for non-science majors.

Under the initiative, eight new courses have been developed and taught at the University over the past two years. At TU, non-science majors must complete seven hours of science credits. "These courses use scientific research as a way to expose non-science majors to how science is done," said Purser, who has been at TU since 1993.

Purser is one of 50 award recipients from the United States, Mexico, Canada and Europe. Every two-year and four-year college or university is allowed one nomination.

Hall of Fame Inducts New Members

TU graduates Guy Turcotte and Willis "Bill" Wood and Founders and Associates, one of Tulsa's leading foundations, have been inducted into the college's Hall of Fame.

The honor recognizes industry leaders, alumni and faculty members in three areas: outstanding leadership in science and engineering, meritorious service in promoting excellence in science and engineering education, and contributions to community.

Turcotte, who earned a B.Ch.E. degree in 1975, is chairman and chief executive officer of Western Oil Sands and Fort Chicago Energy Partners, two Calgary-based companies.

Wood received his bachelor's degree in petroleum engineering from TU in 1957 and was named a TU Distinguished Alumnus in 1995. He retired in 1998 as chairman and chief executive officer of Pacific Enterprises, a Los Angeles-based utility holding company and parent corporation of Southern California Gas Company, which merged with Enova Corp. to form Sempra Energy.

Can-Crusher Wins Top Award from Oklahoma SPE

Weighing approximately 300 pounds and standing about 5 feet tall, an automatic can crusher was one of several projects created last year by teams of students in a senior mechanical engineering design class taught by professors John Henshaw and Steve Tipton.

"The students built a unique device that is safe, quiet, durable, and it's easy to move, clean, operate and maintain," says Tipton.

The machine, which was designed and built by TU mechanical engineering students Khalid Al-Dosari, Faisal Al-Kaabi, Khalid Al-Jarwan and Mohamed Al-Hosani for use by a group of disabled workers, won the Oklahoma Society of Professional Engineers' Outstanding Engineering Achievement Award in the student category. All four students have graduated since they were in the class.

The device, which is capable of crushing 30 cans per minute, is used at the Woodland Park Home in Tulsa. Woodland Park organizes recycling events as income-generating activities for its disabled residents.

Painted red with sheet-metal sides, the machine has a plastic door on the front so one can see the cans being crushed. Safety switches prevent operation if the door is open. An electric motor drives a roller that pulls the cans between a wheel and a steel plate. The machine moves on rollers that have parking brakes.

College of Business Administration

Online MBA in Top 25 Nationwide

TU's online MBA program, known as the iMBA™, has been named one of the top 25 professionally accredited online graduate business programs in the country by *U.S. News & World Report*.

The two-year, part-time program allows students to interact with classmates and faculty using the Internet, e-mail and CD-ROMS. Students receive course material, complete assignments, and interact with faculty and classmates electronically.

"In today's intense business environment, there are many people who cannot dedicate several years to a campus-based graduate business program," says Richard Burgess, iMBA™ program manager and TU business professor. "This flexible program meets the needs of those students."

A strong emphasis is placed on teamwork and case analysis, and the program is focused on preparing students to be successful executives in technology-driven companies.

Gale Sullenberger, dean of the College of Business Administration, says a distinctive characteristic of the program is the high level of faculty-student interaction, which goes far beyond most traditional campus-based part-time MBA programs.

The college is accredited by AACSB International.

For more information on the iMBA™ or traditional graduate business programs at TU, contact the College of Business Administration at (918) 631-2242; e-mail, graduate-business@utulsa.edu; or visit the iMBA™ website, http://www.imba.utulsa.edu/.

College of Law

Enrichment Program Brings Famous Trials Historian to Campus

Doug Linder, professor of law at the University of Missouri, Kansas City, was on campus as a Distinguished Scholar-in-Residence. He addressed law classes and presented a free public lecture titled "Searching for Law's Heroes," on October 25.

Linder, a noted trial historian, has spent more than five years working on the Famous American Trials website www.law.umkc.edu /faculty/projects/ftrials/ftrials, the Web's largest and most visited collection of original essays, images and more than 6,000 primary documents pertaining to great trials.

Linder is working on a book detailing the battle waged by Professor Anthony Amstrad and the NAACP Legal Defense Fund to eliminate the death penalty in America. He will chronicle the "moratorium strategy" that for a period of several years put a halt to executions and put nearly 600 lives on the line in *Furman* v. *Georgia* — a 1972 case that declared all then-existing death penalty laws unconstitutional.

For more information on upcoming enrichment programs in the college, call Sue Lorenz at (918) 631-5622.

Law and Society After Sept. 11, 2001

The legal and societal impacts of September 11 were the topic of a half-day program presented by the College of Law on November 7. Six sessions were led by law faculty during the day-long event.

Topics and speakers for the program included Raymond Yasser, "When the Unforeseeable Becomes Foreseeable;" Gary Allison, "Praise the Lord and Pass the Ammunition;" Kathleen Waits, "Terrorism - Domestic and Foreign;" Tamara Piety, "Forfeiture of Terrorists' Assets;" Johnny C. Parker, "Insurance Implications: How Does it Affect You?;" and Paul Finkelman, "Civil Liberties in Times of Crisis: A Historical Perspective."

A portion of the proceeds was donated to the Families of Freedom Scholarship Fund.

Student Receives National Scholarship

TU law student Lindsey Albers was one of two recipients of the 2001 George Kerr Memorial Scholarship, presented annually by the American Counsel Association.

The $2,500 scholarship is given to incoming third-year law students who demonstrate academic merit and financial need.

The award is given in memory of George Kerr, the past president of the American Counsel Association, a national organization of law firms that assists financially needy and academically qualified students with scholarships. Kerr was most involved in the association's spirit of nurturing law students and academic endeavors.

For more information on the American Counsel Association, please visit http//www.americancounselassociation.com.



Shedding Tiers

TU climbs in popular U.S. News "Best Colleges" rankings

By Bob Lawless, President, The University of Tulsa

When *U.S. News & World Report* announced its 2002 "America's Best Colleges" rankings this fall, The University of Tulsa advanced to the second tier in the prestigious "national universities" category — an encouraging and expected step forward that confirms the work we are doing in support of our ongoing vision of excellence.

The main reasons for our progress are threefold: TU is getting better support from alumni; we are becoming more selective; and we are drawing stronger students.

The rankings

For the public, the *U.S. News* report is one of the most visible and widely watched benchmarks of performance among higher education institutions. Although it has its idiosyncrasies and limitations (as does any rankings system), schools making a strong showing here can be proud.

The category in which TU competes, "National Universities - Doctoral," this year includes 249 institutions that offer a wide scope of undergraduate programs, masters and doctoral programs. Many of these schools, including TU, feature a significant research component. In other words, our category includes the most comprehensive and competitive institutions in the nation.

Although *U.S. News* publishes the first tier of "Top 50" schools in rank order, subsequent tiers are listed only alphabetically, making it impossible for the public to know exactly where TU falls in the overall ranks. However, given the stature of the "national universities" category and the fact that there are 78 institutions in this year's second tier, we can state that The University of Tulsa is arguably among the top 130 schools in the U.S., out of nearly 1,400 accredited colleges and universities.

Reasons for advance

In recent years, TU has been ranked in the third tier; this year's second-tier ranking brings a much anticipated advance. Sustained, measurable improvement in the objective criteria used by *U.S. News* is lifting us in the rankings, while we continue to work against a substantial subjective component. More about that later.

Increases in alumni giving, freshman class quality, and selectivity have moved TU into the second tier. In 1999, our alumni giving rate was 11 percent — meaning that only 11 percent of TU alumni gave financially to the University. Last year, that number had climbed to 18 percent, and for the fiscal year just ended, that figure stands at 20 percent — an outstanding increase in alumni support that has buoyed us in the rankings. Those of you who have continued contributing or have begun contributing to TU — regardless of the amount — have our heartfelt thanks, because your gifts make a great difference across our campus and in this very visible college ranking survey.

Next, we have become more selective in our admission process. This year we admitted 67 percent of our freshman applicants, compared to 80 percent in 1999. In addition to increasing our overall performance as an institution, this increase in selectivity is designed to boost other factors over time, such as freshman retention and graduation rate.

Corresponding to this increase in selectivity, we have seen an encouraging increase in the academic performance of our incoming freshmen. This fall, a record 58 percent of incoming TU freshmen graduated in the top 10 percent of their high school class; in 1999 that figure was 42 percent. The average ACT score for TU's 2001-02 freshman class is 26.6, up from 24.9 in 1999.

Other areas where we perform strongly in the *U.S. News* rankings include the percentage of faculty who are full time, the high percentage of classes with fewer than 20 students, and the low percentage of classes with more than 50 students.

The reputation factor

The objective factors in the *U.S. News* ranking methodology account for three fourths of a school's total score; 25 percent depends on a subjective "reputation" ranking, which is the single largest variable. Each year, *U.S. News* sends a survey to the presidents, provosts, and deans of admissions of the schools in the "national universities" category. And, while it would be in questionable taste to suggest that this variable introduces the semblance of a "popularity contest," it is fair to say that it acts as an uncontrollable and highly subjective wild card in a school's overall ranking.

The University of Tulsa has not seen recent progress in the reputation variable. Indeed, on a 1-to-5 scale, TU's reputation has remained 2.5 over recent years. This is somewhat frustrating, given our advances in the *U.S. News* objective criteria, our increasing performance, and our ongoing development of facilities and programs fueled by our successful New Century Campaign. Per capita, our students outperform virtually all their peers in competition for prestigious scholarships such as Fulbrights, Goldwaters, and Marshalls. Our special programs, including the Tulsa Undergraduate Research Challenge (TURC) program and new Cyber Corps program in information security, are incubators of excellence that are outstanding by any standards. Our faculty members are innovative educators, active researchers, and prolific publishers. The list goes on and on.

Despite our momentum, it can be difficult to overcome the preconceptions and voting predispositions of the college and university administrators nationwide who vote on reputation rankings. In addition to being based largely on subjective impressions, these predispositions may also skew in favor of coastal schools, which are in higher concentration than inland schools.

At any rate, it is easy to appear to cross the line into "sour grapes" when discussing these issues, and our attitude is far from that. Even while recognizing the limitations of a ranking system such as *U.S. News*, we remain hopeful that over time the top performers will receive the recognition they deserve, and that TU will assume its place among the recognized "Finest Fifty" institutions in the nation.

Future progress

Our future progress in the *U.S. News* rankings will depend on continued performance in the key areas of alumni participation, freshman class quality, and selectivity. At the same time, we will focus on increasing our freshman retention rate and our overall graduation rate. We believe the increased selectivity we have begun implementing will boost those other two numbers, as our admission process increasingly favors exceptionally committed students.

The continued support of our alumni donors and other friends will play a vital part, as well. As The University of Tulsa raises the bar for students, faculty, and staff alike, we will need increased funding to provide merit scholarships, to endow distinguished faculty chairs, to build and maintain facilities, and to continue to provide a remarkable private education at a remarkable value. These resources will translate into increased performance, which will raise our reputation and the value of a TU degree.

Finally, let me again thank you for supporting TU, whether that is by giving financial gifts, by sending your children here, or by succeeding as alumni. Let me also challenge you to look for ways in which you can help TU climb in the ranks. That might involve pledging $10 or $20 as a first-time donor. Or it might mean that you remember to mention our quality programs at the next party you attend. Perhaps you could pass this magazine along to someone who does not know much about our University. Or maybe you spend a couple of hours a month mentoring a TU student who is majoring in your area.

Whatever it is, if you can help, please do. TU is moving in an exciting direction, with new resources and new momentum, and when we capitalize on that progress, we all win.

English 1063 Meets Benjamin Franklin

"Poor Richard," Benjamin Franklin's alter-ego, is known for such quaint sayings as "Haste makes waste" and "Early to bed, early to rise, makes a man healthy, wealthy, and wise." TU's update, courtesy of freshman honors student Jenni McDonald: "If you're going to get up early, go to bed late, so that your body won't have time to realize what it's missing."

McDonald, a member of Professor Andrew Burstein's Freshman Honors Writing class, joined classmates this fall by reading the clever witticisms in the 1743 edition of Franklin's *Poor Richard's Almanack*. Their assignment — craft a few witticisms of your own.

The results suggest that a taste for Franklinian wit may be due for a comeback, as we near the famous founder's 300th birthday.

On the subject of early bed/early mornings, wordsmith and somnambulist Bonnie Brungardt quipped: "Study little, sleep still less; or be as my roommate, and sleep studyless."

Given the fact that students are spending their first months away from home, Julia Wood wrote feelingly, and with Franklinian subtlety: "To cure grief and homesickness, wait one day. Repeat until you forget to wait."

The students' original sayings combine wit with candor in a style that perfectly mimics Franklin:

> "If you're going to get up early, go to bed late, so that your body won't have time to realize what it's missing."

"Learning life by living it is like studying in a burning library —You come out knowing more than when you entered, but by then you're dead." (Scott Patrick)

"Rumors are often started by people who wish they were popular enough to have rumors started about them." (Jenni McDonald)

As Poor Richard himself wrote a quarter of a millennium ago, "Today is Yesterday's Pupil."



Where Does a 330 lb. Fighting Robot Sit?

Wherever the TU Women's Robotics team directs it. In October, the team shipped its remote-controlled, steel-framed, bullet-proof Plexiglas paneled, blue and gold "Hurricane" to San Francisco for a debut appearance on the Comedy Central network's "BattleBots Competition." The Hurricane, a spinning octagonal blue shell with gold spikes, was the first robot built by a team of collegiate women to enter the contest. Although the Hurricane lost its "match", the TU team was very popular. In a sport that is dominated by men, the TU crew was a stand-out.

New on KWGS

Exploring the stories behind the headlines and discovering where art and life intersect — or collide — are the impetus for two new shows launched on KWGS Public Radio 89.5 FM this fall.

In November, KWGS aired "Making Contact," a weekly program that can be heard on Fridays at 12:30 p.m. The program provides in-depth critical analysis beyond the headlines, capturing voices and perspectives rarely heard in the media.

Hosted by novelist and journalist Kurt Anderson, "Studio 360" presents a weekly collection of provocative and moving ideas, ranging from comic books to Wagner, Swiss Army Knives to Woody Guthrie's legacy. The show, which airs on Saturdays at 2 p.m., replaces "Weekly Edition."

Sunday programming will be rearranged, with "Loose Leaf Book Company," airing at noon as a full hour of programming. The Sunday night music line-up will feature "Sound and Spirit" at 6 p.m., while "Folk Salad," airs at 7 p.m. "Folk Sampler" is scheduled for 8 p.m., and "Mountain Stage" moves to 9 p.m.

For complete program scheduling, visit KWGS at <http://www.kwgs.org>.

Much to do About Mucha



On a journey to Europe last year, TU History Professor Joseph Bradley visited the Prague National Gallery and the portrait that was one of the first in the "Slavia" series by Art Nouveau master Alphonse Mucha. Reproductions of the serene young woman in the painting have graced Czech banknotes and posters over the years.

Bradley's striking resemblance to the young woman is simply hereditary: she is his grandmother, Josephine Crane Bradley, painted in 1908 by Mucha. Her father, Charles R. Crane, was a Chicago businessman and patron of the arts. Although he was not of Czech descent, Crane was interested in the causes of national self-determination throughout Eastern Europe at the turn of the 20th century. He arranged for Mucha to come to America, where the artist began the "Slavia" series. Mucha also painted Josephine's sister, who married Jan Masaryk, son of Tomas Masaryk, the first president of Czechoslovakia.

The portrait of Josephine hung in the family home in Madison, Wisconsin, until Prof. Bradley's grandparents retired and moved to California. It was at that point that the portrait was sent to the National Gallery in Prague.

The World's a Stage

Young playwrights from around the world convened last summer in Townsville, Australia, for two weeks of intensive playwriting and script development. Accompanied by 25 tutors, more than 50 writers, aged 18 to 25, met at the World Interplay workshop, where they worked through the process of creating a play.

Michael Wright, TU professor of creative writing and theatre, served as the official U.S. representative. In addition to selecting five young American writers to attend the session, Wright, whose book *Playwriting Master Class* reveals the creative process of seven award-winning playwrights, also served as one of the World Interplay tutors.

TU student Hank Willenbrink went to World Interplay and developed his play, "Mid-Air," which was produced this fall in Kendall Hall's Chapman Theatre.

"The writers not only have the chance to work on their plays, but also to understand different cultures," Wright said, "because participants come from around the world."

During the workshop, the writers had the opportunity to work in small groups, to work one-on-one with tutors, and to receive feedback from the group and their tutors on their plays.

"World Interplay was an amazing experience for me," Willenbrink said. "It introduced me to a wonderful array of cultural, artistic, and personal voices that have forever changed my outlook on my artistic and personal life. I am truly thankful to The University of Tulsa and to Michael Wright for giving me the opportunity and funding to attend such a prestigious and eye-opening conference."

physics for teachers

Anyone who has ever taught physics knows that demonstrations and lab exercises are a must if students are to grasp the material. Demonstrations let students see the principles of physics in action; lab exercises give students a hands-on experience with the concepts. Both breathe life into a subject that otherwise can be hand-to-hand combat for mere mortals.



Even in the best of circumstances, building up a repertoire of demonstrations and lab exercises — and the equipment and confidence to go with them — can take a teacher years. But many Oklahoma high school physics teachers do not enjoy the best of circumstances. Consider their plight: a 1998 report shows that many Oklahoma secondary teachers begin teaching physics without being certified to do so. For them, physics is often an additional, non-specialty subject outside their primary teaching field. (Translated: It would not be unusual to find a biology teacher pressed into service teaching physics.) Such teachers understandably are not well prepared to assemble an inventory of demonstrations and lab exercises on their own. And if they hope to get help from others, they often are disappointed.

An all-too-common introduction for newcomers to physics teaching is to be handed a textbook and the keys to the physics equipment closet. Contents of such closets prove to be something of a mystery. Perennially tight budgets mean that little money is available for upgrading equipment. As the vast majority of Oklahoma high schools have no more than one physics teacher (if they have any at all), most newcomers find themselves sorely in want of a compadre — to say nothing of a mentor — with whom they can exchange ideas. It is no wonder that high school physics teachers suffer the highest turnover rate of Oklahoma K-12 teachers.

TU physics faculty members Jerry McCoy and Saibal Mitra knew of the daunting task faced by new high school physics teachers in Oklahoma and wanted to do something about it. They had an idea: bring new high school physics teachers to TU to jump-start the process of building their own inventory of demonstrations and lab exercises. But the two didn't want simply to present ideas to the teachers that others had developed. Applying their physics knowledge to the old adage, "Give a person a fish and they have food for the day; teach them how to fish, and they will have food for a lifetime," McCoy and Mitra decided to train the teachers to devise their own demonstrations and exercises using equipment readily available in their classrooms.

The two TU physicists had the opportunity to implement their idea with the help of a grant from the Dwight D. Eisenhower Mathematics and Science Education Act. Each year the Oklahoma State Regents for Higher Education distributes federal funds from the Eisenhower Act. Grants are awarded on a competitive basis to educators seeking to improve mathematics and science education in Oklahoma. In 1999, the Regents solicited proposals for projects with the theme of helping new teachers teach math and science. McCoy and Mitra submitted their idea as a three-year, $75,000 proposal entitled "Physics Teachers' Workshop for Demonstrations and Lab Exercises." Their proposal was one of twelve funded statewide.

The two TU physics faculty set to work to turn their idea into a reality. From a pool of statewide applicants, they selected 10 to participate in the first session of the workshop. Most were relative newcomers to teaching physics who'd expressed a need for help. The participants assembled on the TU campus from June 24 to July 7, 2000 for the two-week workshop.

Each day began with a review of a key physics concept, such as Newton's laws of force and motion or Maxwell's laws of electricity and magnetism. McCoy and Mitra gave example demonstrations and lab exercises illustrating each key concept they reviewed. These examples served to "prime the pump" for the work that the participants would do that day.

Next, the group divided into teams of three to brainstorm ways in which to illustrate that day's key concept with a demonstration or lab exercise of their own making. The goal during this segment of the day's activities was to come up with as many ideas as possible as quickly as possible without critiquing any one idea. After generating several ideas, each team selected one for further development.

Though physics equipment can often be expensive and complicated, the participants found that it needn't be so. Securing the materials needed to make their idea come to life was a challenge that found each team scrounging whenever possible or purchasing when necessary. Their goal was to implement their ideas with equipment and materials they could easily find or purchase in their home settings. Styrofoam cups, tape, string and soda straws were routinely pressed into service for the greater good of teaching physics.

After honing their day's work, the teams reassembled for "show and tell." Each group presented their work to the others for evaluation and feedback. After incorporating the others' suggestions, the groups wrote up their finished product. At the end of the workshop, each participant received a copy of the workshop proceedings.

"High school teachers can be a rather abused lot," quipped McCoy, "So Mitra and I went out of our way to pamper the participants with several workshop perks." Each teacher walked away with a frameable certificate attesting to their participation, a stipend of $500, and an additional $500 to spend on any physics equipment they deemed useful. Each participant also received three hours of graduate credit for the workshop with tuition waived — courtesy of the University.

The participants gathered for a follow-up session some months after the conclusion of the summer workshop. The meeting gave the teachers a chance to compare notes on their post-workshop experiences and to collect the $500 in equipment they had ordered. Several teachers commented that "It felt like Christmas!" When asked if they would recommend the workshop to other teachers around the state, the unanimous response was an unqualified "Yes!"

One participant summed up her feelings: "I have attended several workshops where you pay to gain knowledge. At this workshop, you gain knowledge, learn to brainstorm, and as a bonus, get paid, get graduate credit, and receive equipment!"

Consider the experience of Pam Devers who teaches at Pryor High School about 45 minutes northeast of Tulsa.

"I taught physics my first year of teaching — along with five other new classes! Needless to say, the quality of my teaching was not at its best. That was 10 years ago, and I had not taught physics since. Then I got a new assignment to teach Advanced Placement Physics, which is the highest level of physics offered. I was wary about teaching physics again.

"In signing up for the TU workshop, I knew I had to change my distaste for physics. I had originally chosen to teach science because you could get up and DO science, while other subjects bored me with lectures and assignments. What I discovered at the TU workshop was that physics has more 'toys' to play with than any other subject. I enjoyed working out ways to DO different concepts with the other teachers. I also got to buy 'toys' to keep the kids excited about what might otherwise be a boring subject to them.

"Physics is now my favorite class to teach. I have exceptional students who want to climb on a building to drop things off for data, run a Tonka truck down the hall, or demonstrate basic physics to the elementary classes. As an added bonus, my students and I have enjoyed participating in workshop follow-up sessions such as the TU Physics Journal Club." (The Journal Club is a monthly meeting of TU physics students, faculty, alumni, and interested high school students and their teachers from around the Tulsa area.)

So what's next on the McCoy-Mitra agenda? There are two years left in their grant. Both learned how much work — on top of an already busy teaching and research load at TU — was involved in making the workshop a success. Encouraged by their success, they are starting the process again for the next workshop.

Says McCoy: "I got a real kick out of taking an idea and making it a reality. In the process, we are making a contribution to physics teaching in Oklahoma."

Mitra confided, "I had a blast!"

Making a Difference

Computer security program builds on tradition to put TU on the map as an industry leader and a national resource

By Doug Fishback

This time last year, when The University of Tulsa had been named one of six institutions to pioneer the National Science Foundation's Cyber Corps program, no one could have guessed the new sense of urgency that would engulf national security efforts as 2001 drew to a close.

Now, as the U.S. anticipates terrorist attacks and scrambles to update security measures, TU's leadership in information security is coming into sharper focus as a national asset. The University's efforts, housed in the TU Center for Information Security (CIS), have attracted repeated recognition and an encouraging level of funding in recent years, putting TU on the map as a bastion of computer security innovation and education.

This fall marked the first semester of the Cyber Corps program, which subsidizes computer security education for a highly select group of students. In exchange, participants fulfill program requirements, which include earning federal certifications in information security, completing a federal internship and, after graduation, serving a term working for the government as a computer security expert. TU's share of program funding is $2.8 million over three years.

The Cyber Corps program has an inaugural class of 32 students nationwide, 10 of whom are at TU. This group includes a 42-year-old mom working toward a master's degree, a 30-year-old ex-professional rock guitarist, and a 63-year-old retired engineer.

If these do not seem like your typical students, that is because Cyber Corps is not a typical program.

Participants have distinguished themselves through their academic abilities, personal determination, and their commitment to national service.



Photo by Michael Wyke

From left: Professor Sujeet Shenoi and graduate students Gavin Manes, Julie Evans and Rick Ayers are helping put TU on the map as a leader in information security.

A leader in information security

TU's leading role in the Cyber Corps program underscores the place the University occupies on the vanguard of computer security research and education. Through years of quiet program building and dedicated work, TU has bootstrapped itself into a position of prominence in information security and is now receiving recognition and increased support from federal and private sources.

In addition to being named a Center of Excellence in Information Assurance by the National Security Agency (NSA), TU has received nearly $10 million in grants for information security education and research from federal agencies including the Department of Justice and the National Science Foundation.

Most recently, the NSA and the National Institute of Standards and Technology in October selected Shenoi as recipient of a $691,000 grant to fund development of a high-level network monitoring and defense system. The award is part of the Critical Infrastructure Grants Program sponsored by the Department of Commerce. Shenoi's proposal was one of only nine funded out of 133 requests.

The grant will support existing efforts at TU's Center for Information Security. CIS researchers have been developing an "immunological approach" to network security, based on roving agents that patrol a network, much like the specialized cells in the body's immune system. The center also has been developing "war room" tools that monitor networks and present visual representations of computer attacks.

Teaching the teachers

Instead of simply producing computer security workers, TU produces the educators who will bring along the next generation of experts. The ideals of service that underlie TU's participation in the Cyber Corps program also drive this emphasis on educating educators.

TU regularly leads the nation in producing computer science doctorates, the overwhelming majority of whom go on to take teaching professorships at other institutions.

Recognizing TU's role in producing educators, the U.S. Department of Defense has awarded the University a five-year capacity-building grant to educate computer security professors. As part of this plan, the DOD will sponsor graduates from the National War College to pursue doctoral study in computer security at TU.

Successful students

Challenge and opportunity have long been the hallmarks of the TU education and particularly of the programs that Shenoi has directed. TU's involvement in the current Cyber Corps initiative is an outgrowth of the Tulsa Undergraduate Research Challenge (TURC) program, which has been endorsed and supported by the National Science Foundation.

TURC immerses students in a dynamic environment of scholarship and service that combines advanced course work, independent research, and community service commitments. Computer-related service projects have included developing computer forensics with the Tulsa Police Department and providing free network construction and management services to nonprofit agencies.

Through their work with TURC, TU computer security students have been published in industry journals and have presented their work at professional conferences at West Point, the Air Force Information Warfare Center, and elsewhere.

TU's emphasis on advanced scholarship shows up in students' remarkable performance in competition for national and international scholarships. From 1995 to 2001, TU students have won 22 Goldwater Scholarships, 10 National Science Foundation Graduate Fellowships, 4 Department of Defense Fellowships, 4 Truman Scholarships, 4 Fulbright Grants, 2 Morris K. Udall Scholarships, 1 Howard Hughes Medical Institute Fellowship, 1 Phi Kappa Phi Graduate Fellowship, and 3 British Marshall Scholarships — extraordinary for a school of any size, and outstanding for a small private university such as TU.

A bright future

The standards of scholarship and service that have served TU so well promise to keep the University out front in the race to secure the information infrastructure against cyberterrorism and computer crime.

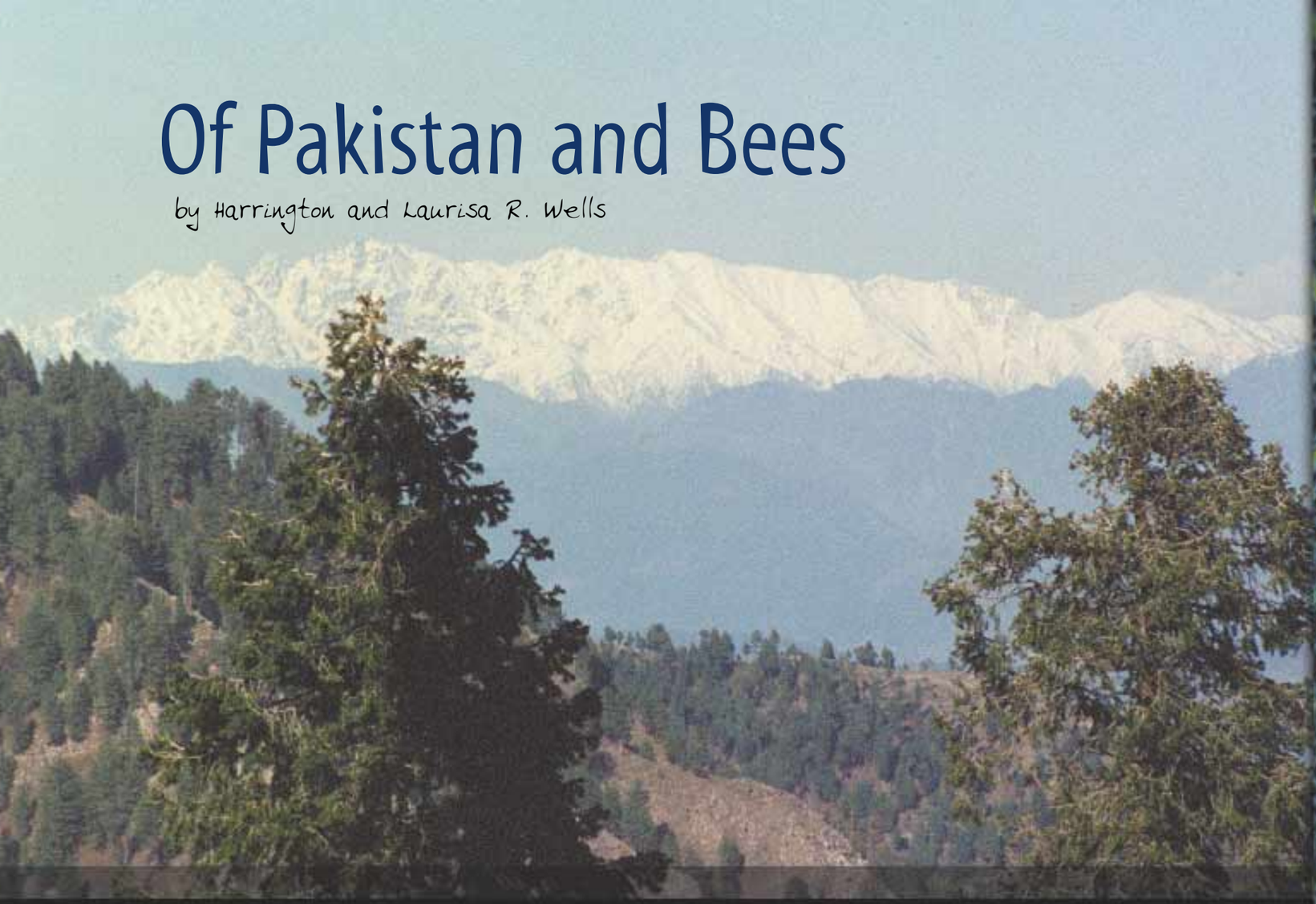
The Cyber Corps program is scheduled to run another two years, and incoming funding will help fuel research and teaching efforts.

These successes are giving TU the opportunity to look into expanding information security and technology programs. Possible scenarios include creation of additional endowed faculty positions, new programs, and new facilities. Although plans are still under study, the coming months should bring exciting and encouraging developments.

"Because of our undisputed strength in the area of computer security, The University of Tulsa enjoys the great privileges and incurs the great responsibilities of leadership," said President Bob Lawless. "Under any circumstance, we must contribute to the full extent of our talent and ability. But especially now, when the nation is under attack, our work takes on an added importance and urgency. I am confident in the role that The University of Tulsa will be able to play in a safer, more secure future, and I am encouraged by the support we have received to date." ■

Of Pakistan and Bees

by Harrington and Laurisa R. Wells



When Harrington Wells, TU associate professor of biological science, dropped by our offices in the early summer to show us the magnificent photographs of Pakistan taken by his wife, Laurisa, we knew that we wanted to share their sojourn with our readers.

In the post-September 11 world, we now view Pakistan as we do the entire Middle East — through an increasingly complicated lens. Our hope is that the Wells' experience reported here provides a small window onto a country that is playing a pivotal role in the Middle East.

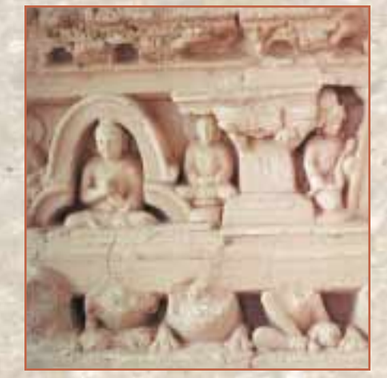
A United States Congress Fulbright Fellowship award gave Professor Wells the opportunity to expand his studies on the behavioral ecology of honeybees to species found only in south-southeast Asia, and to build a long-term research collaboration with scientists at the Pakistan National Agricultural Research Center (Ministry of Agriculture). It also provided his wife, Laurisa, a unique means of completing course work towards a theater degree she is pursuing at the University. Her culturally focused studies unexpectedly intersected with his scientific studies near the end of their five-month stay in Pakistan in the form of a grant proposal for future agricultural work in Pakistan. A third dimension to their stay in Pakistan was how their five children viewed a vastly different culture.

A Diary of Pakistan

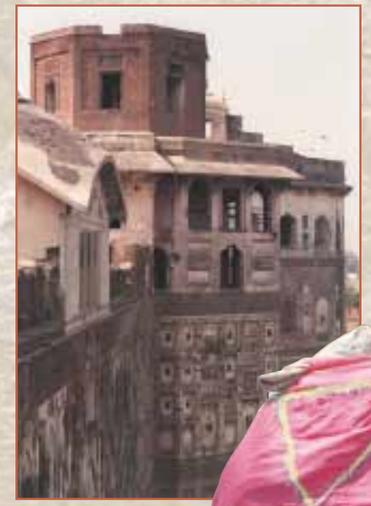
by Laurisa Wells,
Class of 2002

Pakistan is a land of great extremes. The country stretches from the Arabian Sea in the south to K2 in the Himalayas. Between the foothills of the Himalayas and the ocean is a vast arid region where temperatures reach over 120°F in the summer. The primary sources of labor are people and animals such as camels, water buffalo and donkeys (not machines). Mud dwellings still house much of the population in this region. Throughout history, the Indus River and its tributaries, which originate high in the mountains, have supplied the region with water, and the Indus Valley was the site of one of the world's first civilizations.









Taxila

Near Islamabad, we visited the city of Taxila, where several ancient cities have been unearthed, the oldest dating from before 3000 B.C. After being conquered by Alexander the Great, the area was under Greek control. Between the 3rd century B.C. and the 7th century A.D., Taxila was a center for Buddhism. One of the dig sites is the remains of a Buddhist monastery, and many of the terra-cotta Buddhist reliefs are still intact. Unlike the Taliban of Afghanistan, Pakistanis value and protect their historic relics.

Lahore

Islam first arrived in Pakistan during the 8th century, when Arab forces invaded Punjab and Sindh for commercial exploitation. Islamization really began about 1200 A.D. when Turkish invaders conquered the Indus Valley and Northern India and established the Delhi Sultanate.

After 320 years of rule and six dynasties, the Sultanates were defeated by another Islamic group, the Moghuls. The ruler Akbar solidified the Moghul Empire by supporting the local nobility and marrying into each family. However, his wives (some Hindu, some Muslim) were permitted to keep their own customs. The great-grandson of Akbar (son of Shah Jahan, who built the Taj Mahal) murdered his brothers and imprisoned his father in order to secure the position of ruler. Unlike his predecessors, he was intent on establishing an Islamic state in India. The present day city of Lahore was once an important Mughal government center, matching Delhi and Agra (India) in its importance. Gardens with complex water-works were an integral part of Mughal aristocracy.



When we visited Shalimar Gardens, the guard said that for 50 rupees he would turn the fountains on for us. So we watched the water fountains cascading into the pools of water from the old throne in which the Maharaja once sat, and then walked some of the paths around the pools.

Another day we toured two tombs from the Mughal period. The tombs reminded us of India, except these are decaying and not restored. We also toured a famous mosque, where I draped my dupatta over my head like a pro. (Women must cover their heads inside a mosque.) My son, Alan, kept twisting his head to peer in at my face, then tried to pull the scarf off my head. Many Pakistanis asked if we were Muslim and did not seem to believe us when we said no.

Near the mosque is the Lahore Fort. Benjamin, our guide, showed us around and told us the history. He was particularly excited about an area called the Black Cobra Room, but it was blocked off to visitors for restoration. Undaunted, he managed to persuade the guard to let us in and then to show us how the room got its name. The ceiling is covered with small, round mirrors, and when the guard lit a torch and swung it in a circle, the reflection in the mirrors looked like many pairs of snake eyes glaring down and weaving about. That was pretty spectacular!







The Indian-Pakistani Border

One night we went to the Indian border — 30 minutes east of Lahore — and watched the closing of the border. The crowd of people, cheering for Pakistan, pushed and jostled about so severely that the girls and I left the crowd before the show was over. Harrington and our son, David, had better luck on the men's side. They actually saw the lowering of the Pakistani and Indian flags, which signified that the border was shut for the night. Then the two crowds on either side of the gated border started yelling at each other and erupted into a mini riot, so we all left.

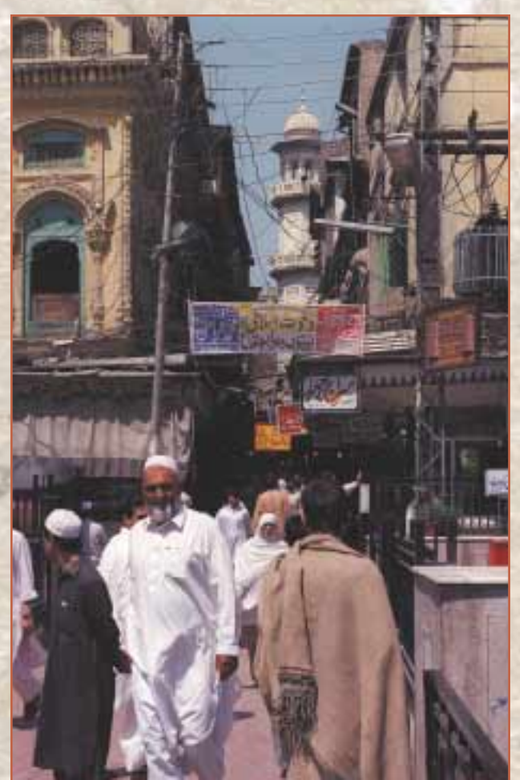
Peshawar

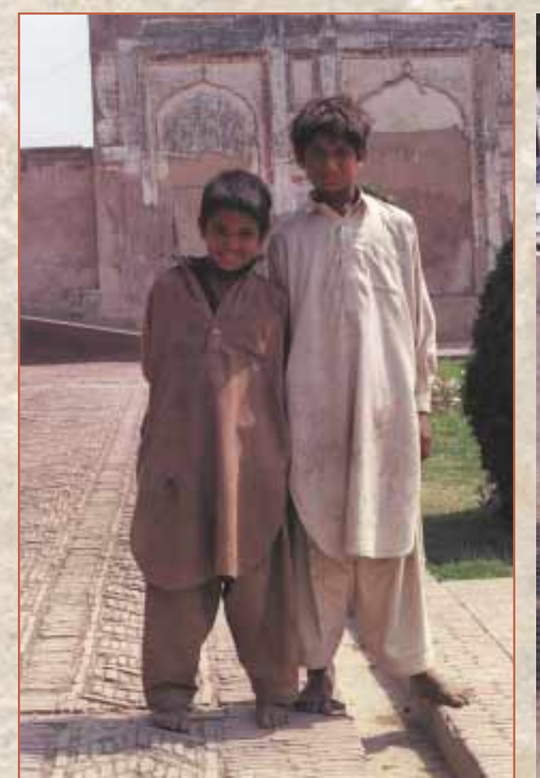
On the western side of Pakistan at the base of the Khyber Pass is Peshawar. It is big and smog-enshrouded. By late April, it was also incredibly hot.

We went to the bazaars in the Old City, a part of town that was very crowded, and where we attracted too much attention. One older man came running out of his shop calling, "Hello, children! Children! Welcome!" That only succeeded in terrifying our kids. The shop owner looked quite pleased as he informed me that he has six children: "My two wives — six children!"

The bazaar was flooded with Afghan refugees, and most women were covered with the Afghan version of a burqua — usually light blue tents that completely covered the woman including the face, which was hidden by a mesh in the cloth. Several times women came right up and peered at me through those mesh face covers, and once a woman trailed behind me through a bazaar. It was very disconcerting because I could not even see their eyes. In other parts of Pakistan, if a woman wears a burqua, it is the more familiar black style associated with Arab women, where the eyes are visible and usually smiling.









The Khyber Pass

The best part of our trip to Peshawar was our excursion up the Khyber Pass.

We arranged a tour through the Pakistan Tourist Development office, which included a Land Cruiser, a driver, and a burly gunman toting an AK-47.

We were not alone in our trek up the mountain, as there were many trucks and buses full of people along the way. At the top of the pass, we could look down and see the Afghanistan border. Several young boys offered to sell us a collection of Afghan money, which is not worth the paper it is printed on, but a nice souvenir nonetheless.

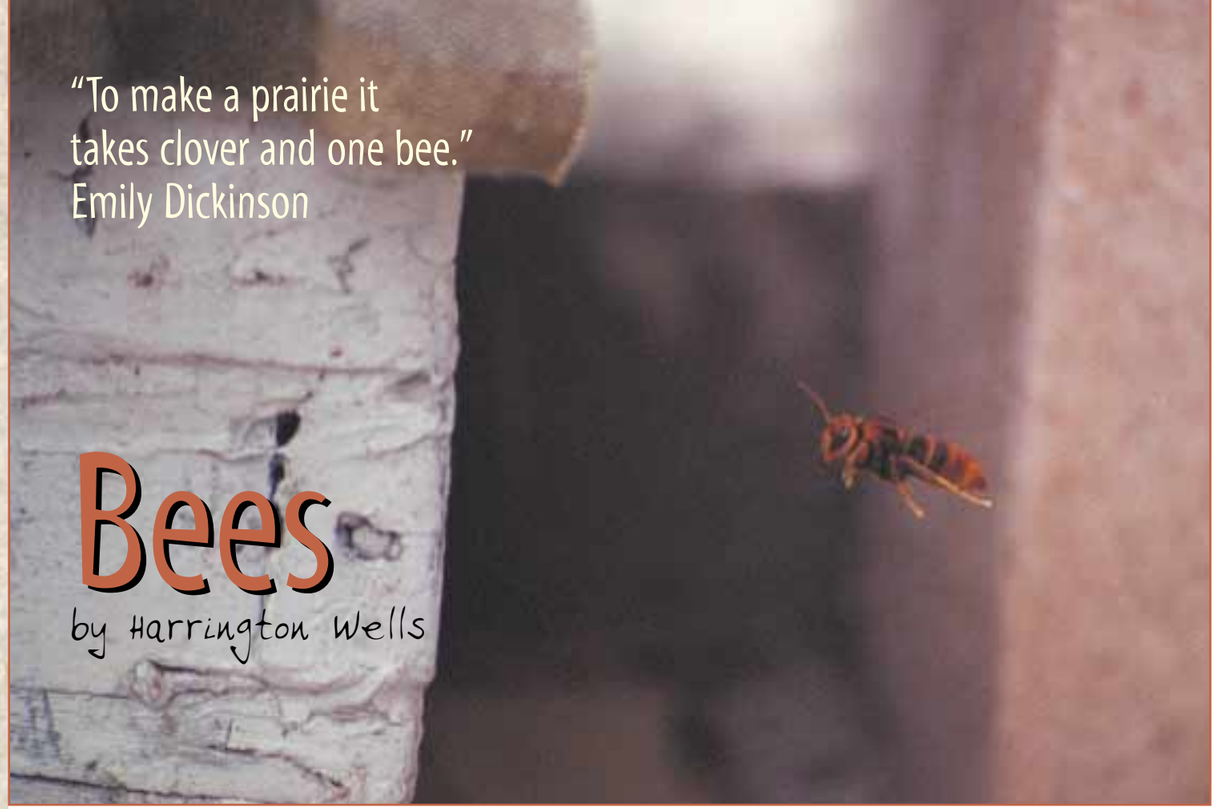
Pakistani Wedding

We felt very honored to be allowed to share in two Pakistani weddings, which are actually very complicated. About a year before the actual wedding, another ceremony binds the couple together. It is something like an engagement, except more permanent. They are basically considered married at that point but they still live with their parents and are not allowed to go out together alone (they are still chaperoned). The wedding lasts from two to four days, depending on the families' incomes. The bride wears different clothing on each day for the different ceremonies. The second day is called Mehndi Day. (Mehndi is the Urdu word for henna.) All the women get together to celebrate, although I was told that they do not

actually paint the henna on their palms at this point. The third day is the day that the couple is joined together. The wedding dress is bright red and decorated with gold springs stitched on like beads. She is painted with heavy make up and wears false eyelashes. Also, all through the ceremony she is not supposed to smile or talk. The bride appears quite miserable to westerners, but we were told that if she smiled and laughed, the families would think she was not taking her marriage seriously. The fourth day is a celebration hosted by the groom's family.

Pakistan is a country of great social contrast, as well as ecological diversity, in a politically turbulent region (surrounded by Iran, Afghanistan, China, Azad Kashmir, and India). Current estimates are that half of the population earns less than $30 (U.S.) per month, which is considered the poverty line. Most earn a living in agricultural fields or by herding animals in small rural villages. Nevertheless, Pakistanis are an optimistic people, and with good reason after ten years where huge strides have been made in human rights, particularly for women. The new government is limiting military spending and is working on major economic reforms. Hopefully, Pakistan's economic future will show dramatic improvement. ■





Bees

by Harrington Wells

Honeybees are important pollinators for both agricultural and natural systems, and provide a cash crop for beekeepers (honey). They have been kept by farmers from ancient Egyptian times to the present, and their flower fidelity has attracted the curiosity of successive generations of scholars for nearly as long.

I too am interested in how physical cues, such as flower color, affect a honeybee's flower choice, but with a view on how an organism with a nervous system much simpler than our own solves complex problems involving relations between differences in reward and flower morphology, and between competing ecological factors such as starvation and predators.

Although honeybees occur worldwide, only one species exists outside of south-southeast Asia. By comparing the behavior of different honeybee species to specific situations, I was able to test theories about the underlying criteria that determine the foraging decisions of pollinators in general and honeybees specifically. My studies in Pakistan were focused on ecological ideas about risk-based foraging.

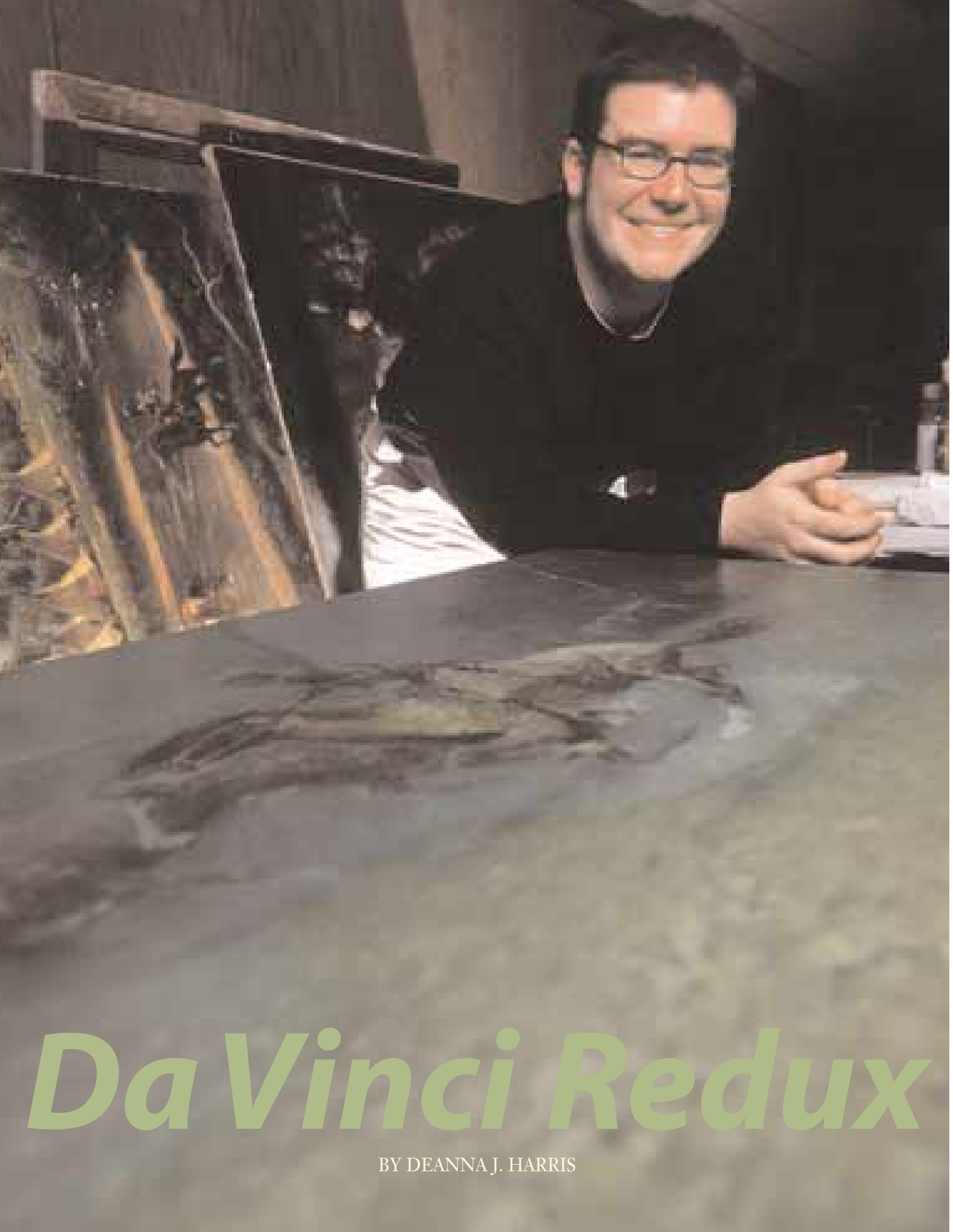
The organisms involved in my study were the honeybee species *Apis dorsata* and *Apis cerana* in Pakistan, and *Apis mellifera* in the U.S. Both the Asian hive bee (*A. cerana*) and the European honeybee (*A. mellifera*) are true hive bees. Both nest in enclosed areas such as hollow tree-trunks and crevasses in rocks (or commercially in boxes). The Asian hive bee has a hive defense behavior to thwart wasp predation while the European honeybee does not (at least the varieties common in the U.S.). Wasp predation is a major threat to beekeeping in south Asia but not in the U.S. (The photo above shows a wasp at Asian bee hive entrance). The rock honeybee (*A. dorsata*) is not a true hive bee; it builds open combs hanging from branches and cliffs (and buildings), but has not been kept domestically.

Unlike the true hive bees, *A. dorsata* is seasonally migratory. Due to its large size and aggressive disposition, rock honeybees are not prey items for wasps. Nectar resources in Pakistan follow a seasonal progression from the coast to higher elevations as the temperature warms (to 120^0 F at lower elevations), and are not abundant year round anywhere in Pakistan. Starvation leads to the Asian hive bee frequently absconding (abandoning the nest site) in search of "better pastures" and the migratory habit of the rock honeybee.

Risk-based foraging decisions take into account reward distributions as well as average reward. The classic test for risk-based foraging is to give foragers the choice between a consistent reward and an intermittent, but greater, reward where there is not a difference in the average rewards. The foraging concept in terms of starvation-risk is that if the average reward is sufficient for survival then foragers should choose the consistent reward, whereas if the average reward is insufficient then foragers should choose the variable reward due to the possibility of obtaining a greater than average reward. Predation risk is lowered by spending less time exposed to predators. A variable reward offers the chance of lower and higher exposures to predators than the consistent reward. Energy-maximization-based foraging only considers average reward per unit time, and memory-limitation models predict the foragers cannot make the time-linked comparisons needed for either energy-maximization or risk-based foraging.

My studies found that the Asian hive bee is a risk-averse forager, choosing the consistent reward over a variable reward. This occurred on both patches of blue and white flowers and patches of blue and yellow flowers. In contrast, A. dorsata is risk-insensitive on patches of blue and white flowers but color constant on patches of blue and yellow flowers (like the European honeybee). Consistent with those results was my finding that when presented flower choices that resulted in different exposure times to predators (time on the flower patch), but yielded the same average reward per round trip from the hive, Apis cerana foragers favored neither flower type. Corresponding to these results was the observation that wasp attacks occur at the hive entrance rather than on bees foraging on flowers. Thus predation-risk does not appear to be shaping the behavior of foragers. A further test also revealed inconsistencies between forager behavior and the starvation-risk model. When presented a flower patch where the variable reward offered the greater average reward, foragers still chose the flower color offering the consistent reward; so bees may be simply interpreting a variable reward as a flower type already extensively visited. All this may eventually allow us to increase agricultural productivity by selecting different honeybees for different pollination goals or for different environments. ■





Da Vinci Redux

BY DEANNA J. HARRIS

Tim Swearingen said that his friends and neighbors in Duncanville, Texas, would be surprised to learn that he is not a music major. One of his two older sisters minored in music, and his family has always been involved with local choirs and musical productions. The people of Duncanville wouldn't be alone. Anyone who's heard the dramatic tenor perform in TU Opera Workshop productions or with the Sharp Chapel Singers would probably be equally stunned. Although Swearingen has studied music for 10 years — most recently with TU voice professor Susan Goldman Moore — he decided awhile ago that opera was something he could always do on the side.

On Swearingen's first day at The University of Tulsa, he enrolled as an art history major, intrigued by the impact of art on society. (His favorite artist, Lord Frederick Leighton, who painted "Flaming June," reputedly influenced women's fashions for decades.) Alas, he was an art history major for exactly one day.

"Actually, it was less than a day," he recalls. "I love art and understanding the history of art is wonderful, but after about six hours as an art history major, I decided, 'Art is something I can do on my own.'"

"There is something very elegant about the way chemistry functions. The way a chemical formula cascades to where it should be — from a long, extremely complex set of equations to something very simple — is beyond fantastic. It's beautiful."

Tim Swearingen

His second day on campus, he became a chemistry major and will graduate in May 2002 as a chemistry major because he loves the science: "There is something very elegant about the way chemistry functions," he says. "The way a chemical formula cascades to where it should be — from a long, extremely complex set of equations to something very simple — is beyond fantastic. It's beautiful."

What soul except an artist would so eloquently describe a science?

Last summer, Swearingen worked for Colgate-Palmolive in Piscataway, New Jersey, a 45-minute train ride from New York City.

"The most important thing I learned at Colgate-Palmolive was the value of trade secrets," he said. That and how to secure half-price tickets to arguably the most famous theatre district in the world. Over the course of 12 weeks, he managed to squeeze in 20 Broadway shows and visit a gaggle of museums and most tourist attractions — while making deodorant.

Since his freshman year, Swearingen has worked closely with Prof. Tom Harris conducting research on the ability of titanium dioxide (TiO_2) to form an aerogel (an extremely low-density solid). The TiO_2 aerogel can absorb energy from ultraviolet light, which it uses to destroy certain compounds — and has the potential for purifying water. The nature of the aerogel peaked NASA's interest for use purifying water on the mission to Mars.

"Working with Professor Harris was wonderful," Swearingen says. "When I switched to chemistry it was because of my high school science teacher. My research with Professor Harris spurred my interest in the environment, and I plan to attend law school with an emphasis in environmental law."

While it is true that many college students change majors several times before graduating, most are looking for their niche. Not so with Tim. What makes his on-the-side pursuits special is the fact that he does each one so astonishingly well. He has an impressive string of awards and scholarships, most notably a Goldwater and a Morris K. Udall Scholarship. (Not surprisingly, Swearingen is a member of the Tulsa Undergraduate Research Challenge.)

As vice president of the American Chemical Society Student Affiliates at TU, Swearingen wanted to encourage an understanding of the relationship between art and science among members. He tried in vain to get Gayle Clements to speak to ACS. (The only conservator in Oklahoma, she directs the state's only conservation lab at Gilcrease Museum in Tulsa.) Swearingen's internship in the Gilcrease Conservation Lab sprung from their initial meetings.

Swearingen's first task in the conservation lab was to analyze lead-based adhesive from three murals by Oscar Berninghaus. Then, in preparation for a major 2003 exhibition of the museum's collection of Frederick Remington, Swearingen began work on "Stampede", the signature piece of the collection.

"Before I started removing the varnish, Gayle had the painting x-rayed by Dr. Patrick Lester," Swearingen noted. "X-raying reveals the brush strokes and any underdrawing, which is vital for artists and art historians studying the work."

Although he expects to be in law school when the Remington exhibition opens at Gilcrease, Swearingen plans to visit the show.

To the long list of Swearingen's interests must be added his work in the community. He is a volunteer at a Tulsa-area hospice and modestly confesses, "I just talk to the patients. It doesn't take much from me, and it means a great deal to them."

Opera. Art. Chemistry. Compassion.

"Tim is truly a Renaissance man," Clements says. "He loves the work, and his dedication and work ethic are exceptional. "

So, too, is he. ■

THE UNIVERSITY OF TULSA

Women's **Basketball** 2001-02

Date	Day	Opponent	Time
November			
5	**Mon.**	**Spartak Moscow (Russia)(Exh.)**	**7:00 p.m.**
11	**Sun.**	**Houston Jaguars (Exh.)**	**2:00 p.m.**
17	Sat.	@Bertha Teague Classic (at Stillwater, Okla.) Tulsa vs. Oklahoma State	6:00 p.m.
18	Sun.	@Bertha Teague Classic Tulsa vs. Oklahoma	8:00 p.m.
21	Wed.	@Western Michigan	6:00 p.m.
27	**Tues.**	**Oral Roberts**	**7:00 p.m.**
30	**Fri.**	**Arkansas-Little Rock**	**7:00 p.m.**
December			
2	**Sun.**	**Arkansas-Pine Bluff**	**2:00 p.m.**
5	**Wed.**	**Arkansas**	**7:00 p.m.**
15	Sat.	@UMKC	2:00 p.m.
17	Mon.	@Fun in the Sun Shootout! (at Cancun, Mexico) Tulsa vs. Pepperdine	TBA
18	Tues.	@Fun in the Sun Shootout! Tulsa vs. Oral Roberts/Furman	TBA
30	**Sun.**	**Rice***	**2:00 p.m.**
January			
3	**Thurs.**	**Nevada***	**7:00 p.m.**
5	**Sat.**	**Fresno State***	**2:00 p.m.**
10	Thurs.	@UTEP*	8:00 p.m.
12	Sat.	@Boise State*	8:00 p.m.
17	**Thurs.**	**San Jose State***	**7:00 p.m.**
19	**Sat.**	**Hawaii***	**2:00 p.m.**
24	Thurs.	@Louisiana Tech*	7:00 p.m.
26	Sat.	@SMU*	2:00 p.m.
31	Thurs.	@Fresno State*	9:00 p.m.
February			
2	Sat.	@Nevada*	9:00 p.m.
7	**Thurs.**	**Boise State***	**7:00 p.m.**
9	**Sat.**	**UTEP***	**2:00 p.m.**
14	Thurs.	@Hawaii*	11:00 p.m.
16	Sat.	@San Jose State*	9:30 p.m.
21	**Thurs.**	**SMU***	**7:00 p.m.**
23	**Sat.**	**Louisiana Tech***	**2:00 p.m.**
March			
2	Sat.	@Rice*	2:00 p.m.
5-9	**Tues.-Sat.**	**WAC Tournament**	**TBA**

*Western Athletic Conference games **Bold** indicates home games
All times are central time and subject to change
All home games played at the Donald W. Reynolds Center

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Design by Israel Lopez

Seniors:
Mia Williams, Carla Morrow, Rachel Hall and Leela Farr.

Get caught in the storm



Grand-Slam Celebration

The opening of the Michael D. Case Tennis Center December 13 and 14 included a visit from tennis legend John McEnroe. During his visit, "Mac" played an exhibition match with members of the TU Tennis program. The center includes a 54,000-square-foot tennis pavilion with spectator seating, conditioning and training facilities, lounges, essential support facilities including bath and locker rooms, lighted outdoor courts and indoor courts, and electronic scoreboards. Look for a pictorial tour of this impressive facility in the next issue.

McLaughlin Named Verizon First-Team Academic All-American

Senior defensive end Drew McLaughlin was named to the Verizon Academic All-America first team as selected by the College Sports Information Directors of America (CoSIDA).

McLaughlin is the fifth TU football player to earn Academic All-America merits, and his selection marks the fourth time since 1995 that the Hurricane has placed a player on the team. Offensive center David Millwee won in 1995, and defensive back Levi Gillen was a two-time selection in 1996 and 1997.

McLaughlin has maintained a 3.60 cumulative grade point average in accounting. He is the only Western Athletic Conference student-athlete named to either the first or second-team.

Named second-team all-WAC by the league's coaches two weeks ago, McLaughlin finished his senior season with 81 tackles, including 13 stops for -57 yards.

Against Hawaii, McLaughlin totaled 10 stops, including five tackles for -14 yards, one sack for -4 yards and one forced fumble. McLaughlin completed his career with 189 tackles and 21 tackles for -97 yards in lost yardage.

To be nominated, the student-athlete must be a starter or important reserve with at least a 3.20 cumulative grade point average (on a 4.0 scale) for his career.

McLaughlin and junior teammate Michael Dulaney were named to the Verizon Academic District VI Football Team in November, and both were eligible to earn All-America status.

Tulsa Women Golfers Ranked Second Nationally

In the Golfweek/Sagarin Golf Ratings, The University of Tulsa women's golf team was ranked second nationally behind Auburn at the end of the fall season. The Hurricane had a rating of 72.58, while Auburn's rating is 72.35.

Three-time first-team All-American Stacy Prammanasudh was the nation's top-ranked golfer, while sophomore Suzie Fisher was ranked fifth nationally. Since her freshman season, Prammanasudh has been ranked among the top-10 golfers in the nation.

This year, Prammanasudh has placed first in two tournaments, including the Big 12 Invitational and the Stanford Women's Intercollegiate, and has a 71.0 stroke average. She began the season with a third-place performance at the NCAA Fall Preview and finished the fall campaign with a fifth-place finish at the Auburn Tiger Invitational. Prammanasudh scored a course record 13-under par at the Stanford Golf Course in Palo Alto, California.

During her career, Prammanasudh has placed among the top 10 in 29 of 37 career tournaments, and has finished among the top 20 in 34 of those events. She has 21 top 5 finishes. With eight tournament victories, Prammanasudh is tied with Jody Rosenthal (1981-85) for the second most tournament titles in school history. Nancy Lopez holds the record with 11 tournament wins.

Fisher placed among the top-10 in three of four fall tournaments. She carded fourth place finishes at the NCAA Fall Preview and the Stanford Women's Intercollegiate. Fisher had a 73.6 stroke average during the fall season.

Building Community: Consider The Investment



By Clifton L. Taulbert

September 11, as horrendous as it was, has re-awakened our minds and re-focused our hearts on the value and need for community — good, satisfying relationships — within our lives and at all levels of our living.

To ensure an environment of community, where the quality of life is defined by the relationships we build and sustain, we must consider the individual investments required. The value we place on community in our highly industrialized society will help determine what we invest, how frequently we invest and the value we place on our expected return.

The "human touch" is essential to building community. Along with our society's widespread technology, we want to always have time and place for face-to-face contact. The environment that welcomes community must always include people, their conversations, their pats on the back, their looks of approval or disapproval. Only people and our actions can build and sustain an environment where all are welcomed.

Since September 11, the personal acts of New Yorkers have given new meaning to care and concern, the twin pillars of community. Hands were held and hearts were mended by acts of unselfishness. Just the simple question, "Are you alright?" took on new meaning in a world silenced by unparalleled acts of violence.

America and our communities will need this same sense of unselfishness tomorrow and beyond, when we are not facing the agony of terrorism. To ensure a nation of communities where freedom and democracy include an outpouring of compassion, we must value daily unselfish acts as our personal investment. The return on such investments within the lives of those we touch will be immeasurable.

I encountered such daily unselfish acts as a young boy growing up in the Mississippi Delta. The ordinary "Porch People" of my childhood built community for me, even while enduring the great tragedy of legal segregation. Without their daily investments of unselfish living, my life and my dreams would not have been sustained in the midst of the emotionally devastating Jim Crow laws.

As a writer, some 40 years later, I have looked back on their lives and have distilled their investments of good living into timeless and universal life principles called the Eight Habits of the Heart. The Habits of the Heart they displayed are the same ones seen in New York. They are not held captive by race, gender, geography or time. These habits focus our "investment strategy" to build community every day:

- Nurturing Attitude: Continue to slow down our lives to know others and to care unselfishly.
- Responsibility: Continue to show and encourage personal involvement as an opportunity in spite of technological conveniences.
- Dependability: Continue to find ways to be there for the benefit of others.
- Friendship: Continue to strengthen the bonds that bind us together through all the times we'll face.
- Brotherhood: Continue to extend our reach beyond comfortable to welcome those who may be different.
- High Expectations: Continue to believe in others, expecting the best and talking it up.
- Courage: Continue to do right things even in the face of adversity and with no one covering our back.
- Hope: Continue daily actions in words and deeds that reflect our belief in tomorrow in spite of what we see.

The well-spring of care and concern must be replenished daily. This will not happen without our explicit will to consider the investment required of each one of us wherever we are. Investing in the Eight Habits of the Heart will ensure the presence of community within our lives and within the world we share.

Editor's note: Clifton Taulbert is an author, motivational speaker, and a member of The University of Tulsa Board of Trustees.

Career Services: A Lifetime Benefit for Alumni

TU alumni remain eligible for services offered by The University of Tulsa Office of Career Services, even if they live outside the Tulsa area.

With estimates that today's typical college graduate will change jobs eight to ten times over his or her working life, there is an unprecedented role for ongoing career counseling. In fact, about a quarter of Career Services' clients last year were alumni, according to Mike Mills, director of career services.

"There's a misconception that once graduates have entered the workplace, they are beyond the kind of services we offer," Mills said. "That's not the case. An important part of our mission is providing ongoing support for alumni. To help reflect the extent of our mission, last year we changed the name of our office from Career Planning and Placement to Career Services. We're not here simply to place you in a job; we're here to provide service throughout your career."

The TU Office of Career Services has reciprocal agreements with similar offices at other universities, so TU alumni living outside Tulsa may be able to get help at an institution closer to them.



The Career Services team is ready and available to help alumni advance their careers. From left: Mike Mills, director of Career Services; (seated) Marie Hammond, career counselor; Shelly Holly, career counselor; and Karen O'Hara, recruiting coordinator. Not pictured: Sherri Alexander, secretary.

Services offered

Career Services offers a variety of free services, some of which are available through the website http://www.utulsa.edu/CareerPlanning/. There you can find an online job bank that lists available positions from a variety of employers. Through the Career Services website, alumni and students also can enter information into the eRecruiting.com online system, which helps match employers and employees. (Alumni wanting to use this system should first contact The Office of Career Services for help gaining access and getting started.)

In addition to providing online resources, Career Services offers counseling in exploring career options, changing careers, and honing interviewing skills. A variety of questionnaires and other assessment tools can help clients understand their aptitudes and interests more fully. A career library with employment journals and periodicals, including major newspapers, is an additional resource. Those wanting to pursue graduate education will find reference material on a variety of graduate programs. Finally, a five-station computer lab allows visitors to work up resumes, cover letters, or surf the Net for job opportunities.

"We offer a variety of tools to help people make career moves that are right for them," Mills said. "Whether someone is a student, a recent graduate, or a longtime alum, we're here to help however we can."

For more information on available services, or to partner with Career Services as an employer, contact Mike Mills, director of career services, at (918) 631-2552, or email michael-mills@utulsa.edu.

partnersineducation

Rising to the Challenge

Annual Fund supporters come through for TU

The last few years have brought increased support for the TU Annual Fund, signaling a new enthusiasm for giving and a greater appreciation of the role that alumni gifts play in the life of TU. This rise in giving includes a more than 30 percent increase in annual operating dollars during fiscal year 2001, ended last May.

This encouraging trend in support has been both a grassroots success story and the result of leadership by "Annual Fund Challengers," who have graciously stepped forward with funds to match qualifying gifts from alumni. In all, our recent success is a proud example of the great things that can happen when the TU community creates and then rallies around an opportunity.

For this increased support, we would like to offer a sincere and hearty "Thank you" to the friends who have given to our Annual Fund, and to the Challengers who have inspired and then multiplied the impact of those gifts. Your assistance — especially during the increasingly lean times of the last year or so — has been a tremendous benefit to TU.

Friends who support the Annual Fund do not simply "make a difference," they keep TU's doors open. Through unrestricted gifts made to the fund, the University is able to meet general operating expenses, purchase supplies, subsidize research and teaching, pay utility bills, and maintain facilities. While the purchases made with Annual Fund dollars are not always as visible as new facilities or new faculty chairs funded with endowments and specially earmarked funds, they are unmistakably essential to the survival of TU.

As part of the recent increase in Annual Fund giving, we have seen an exciting rise in gifts from alumni. From 1996 to 2001, the percentage of TU alumni who give to the University climbed from a modest 11 percent to a much more respectable 20 percent.

Alumni support is important both on the budgetary level and in sending the message that TU is a worthwhile investment. In fact, the alumni giving rate is one of the factors that *U.S. News & World Report* uses in its rankings of the nation's best colleges and universities. Increased alumni support over the past three years played a central role this fall in boosting The University of Tulsa into the second tier of the *U.S. News* "national university" rankings (See "Shedding Tiers," page 12.).

As The University of Tulsa moves forward in its mission to produce leaders, continued support for the Annual Fund will play a crucial role in our success. For gifts already received and for gifts yet to be given, all of us at TU offer our gratitude and our pledge to make the most of your support.



Fueling Technology

Duane Wilson, Conoco vice president of fuels technology (second from left) presents an annual corporate support check to TU President Bob Lawless last October, as Provost Roger Blais (right) and Peter LoPresti, associate professor of mechanical engineering (left), look on. Through Wilson's efforts, Conoco has been a generous ongoing supporter of research and minority student engineering scholarships at the University.

Patrons Honored at Annual Thanks for Giving Event

Members of TU's President's Council were honored at "Thanks for Giving" in the Great Hall of the Allen Chapman Activity Center November 12. More than 350 guests attended the event, which featured dinner, remarks from TU First Lady Marcy Lawless; President Bob Lawless; and Fulton Collins, chairman of the Board of Trustees. The program also included celebratory toasts and entertainment from TU's Jazz Combo in a set featuring student Karen Gossell singing Duke Ellington's "I'm Beginning to See the Light," and "America, the Beautiful."

Membership in The President's Council recognizes TU patrons who have made a gift of $1,500 or more for the year. It is one way the University acknowledges the generous support of some of its most committed friends.



TU First Lady Marcy Lawless and President Bob Lawless greet Phil (BS '73, JD '76) and Mece (BS '75) Eller.



Warren (BS '47) and Vesta Wilkerson share a laugh with the President.



Fulton and Susie Collins smile for the camera with Marcy and Bob Lawless.



The Lawlesses greet Bob (BS '61) and Sandy ('61) West.



Student Karen Gossell fronts the TU Jazz Combo under the direction of Vernon Howard, applied associate professor of music.



Marcy and Bob pose with Nick (BS '70) and Barbara (BS '70) Allen.



SMART FASHION BEGINS WITH TU.

Let your wardrobe do the talking with a tie and cummerbund in TU gold and blue.

This proud ensemble, custom designed by Ed Beshara of Beshara's Formal Wear, not only adds a little pizzazz to a tuxedo, it also shows the world you're a dyed-in-the-silk Golden Hurricane. Now that's a fashion statement!

In addition to turning heads, you can help turn others toward TU with your show of affiliation.

The TU tie and cummerbund set is available through the Office of Alumni Relations at a cost of $100, of which $60 is a tax-deductible gift to the TU Alumni Association. Complementary gift wrapping in TU blue and gold is available. For more information, call (918) 631-2555.



HOMECOMING 2001

Friends. Football. Food. Fun. TU's Homecoming 2001 was everything it should be — a celebration of the world's best alumni — You! If you missed the festivities this year, start making your plans now for 2002. We're already working to make next year's Homecoming unforgettable.



Ms. Homecoming's family and friends in attendance were: (l-r) Jackie Chilton, James Williams, Ruby Lucas and Eva Beard



2001 Homecoming honorees: (l-r) Jessie Carter, Ms. Homecoming; Marcy Lawless; Ellis Jenkins, J. Pascal Twyman Award; Steve Stevenson, Distinguished Alumnus; Bob Lawless, Michelle Beale, Distinguished Alumna; and Steve Turnbo, Distinguished Alumnus.



Bob and Marcy Lawless applaud the 2001 Homecoming Planning Committee: (l-r) Sara Hughes, Jennifer McIntyre, Vic Bailey, Darren Croley, Lindsay Rodgers, Sarah Smith, and Rhonda White.

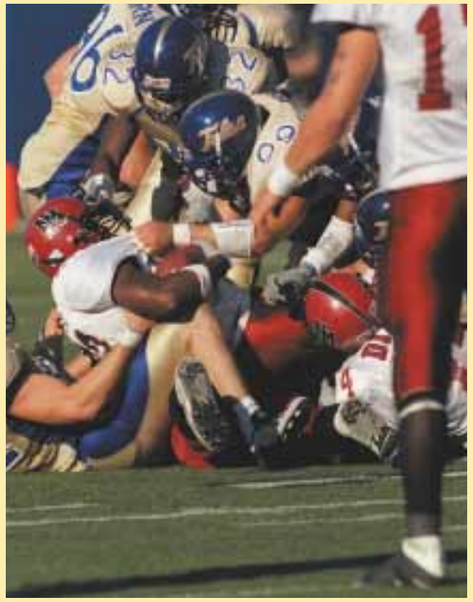


Out for the count! Campus yard decorations included a clearly stunned Aggie.





Homecoming King Clint Campbell and Queen Tina Tran were honored during half-time festivities by Bob & Marcy Lawless as well as the TU family.



We yelled and cheer, but the Golden Hurricane fell to the New Mexico Aggies. Don't worry. Be happy. We will return!



Hip, hip, Hooray! for Jessie Carter, Ms. Homecoming 2001



Past and new Distinguished Alumni were honored: (l-r) Howard Twilley, Margaret Wier, Ben Henneke, Genave Rogers, Bob McCay, Fred Setser, Jack O'Brien, Don Prey, Clarence Oliver, Arnold Brown, Steve Turnbo, and Michelle Beale.



The very best part of Homecoming is laughter shared with friends old and new. Ellis and Jean Jenkins enjoy a good laugh with Bob and Dixie Klink at the alumni dessert reception.



Distinguished Alumna Michelle Beale was honored by the College of Law during a luncheon. She's joined by Dean Martin Belsky (r) and (l-r) Jennifer Bryant and Rachel Blue.



Genave Rogers, Susan Boyd and Gene Tucker at the College of Business Administration reception.



Kim Volkl Owens (BSBA ’95, ’97) married **Dave Owens** (’91) on May 19, 2001. The wedding party included TU alumni **Cristin Cox Murphy, Andrea Klahr Delgiorno, Megan Owens Bennett, Amy Owens**, and **Rich Wales**. Kim serves as a member of the TU Alumni Association Board of Directors and helped plan TU Homecoming 2001. The couple reside in Tulsa.



In Memory of Annette E. Watkins
Gamma Tau 1982

Family and friends gathered Oct. 6, 2001 during Homecoming weekend to dedicate the **Annette E. Watkins** Memorial at the Kappa Alpha Theta House on TU’s campus. The memorial project renovated the patio area, fondly known as “Theta Beach.” Annette held two degrees from TU, the B.S.Ed. ’89 and a J.D. ’93. Among those gathered for the dedication are (l-r): **Max Watkins** (BS ’63, JD ’67), Janna Watkins, Allison Watkins Radcliffe, **Lisa Wilson** (BS ’86, MS ’88), Laura Cassody, **Jeannine Dunnegan Larm** (BSBA ’85) and **Michele Beaver Keeling** (BS ’85).

1940

Paul Y. Burns (BS ’41) is professor emeritus of forestry at Louisiana State University in Baton Rouge and has written of his World War II experience as a weather officer.

1950

Randall Capp (BS ’51) has retired after 38 years with the Tandy Corporation. The Capps celebrated their 50th wedding anniversary on July 29.

Don Seago (BS ’58) reports that he has “finally retired for the third time.” After retiring in 1978 from the Air Force as a Lt. Colonel at Little Rock Air Force Base, Arkansas, he moved to Chicago, taking the position of Director of Flight Operations for International Harvester (Navistar Corporation). After retiring from Navistar, he was employed as a Senior Flight Test Captain for Raytheon Aircraft Co. in Little Rock. In May 2001, he retired from Raytheon, with 43 years of flying various types of aircraft. Don and Anna Lea spend time between their homes in North Little Rock and Surprise, Arizona.

1960

Richard Reid (BS ’61) has published his first book, *Debris*, an action novel centered around the NASA space station. Richard earned his MA in Humanities from the University of Houston. He has won several awards for his writing, including best short fiction at the Houston Writer’s Conference in 1999.

William Scobie (BA ’61, MA ’67) has released a new CD, “Echoes of Dreams.” William, a veteran of the Dallas Symphony, is on the Texas Touring Artist roster for the Texas Commission of the Arts and performs regularly as a recitalist.

Duke Griffey (BA ’64) has been promoted to executive vice president of BancorpSouth in Shreveport, Louisiana. Duke and his wife, Lynda, have two daughters.

Charles W. Mohr (BA ’66, MA ’72) opened his own consulting business, Charles Mohr and Associates, LLC, which specializes in custom software training. Prior to opening his own business, Charles worked for Brattle Systems and COM2001.com of Del Mar, California.

C. John Turnquist (BA ’66) received the Presidential Rank of Distinguished Executives, awarded by President George W. Bush on September 28, 2001. Turnquist is a 32-year veteran of the Office of the General Counsel, U.S. Department of the Navy, and has received three other meritorious executive rank awards.

Julie Woodruff (BA ’68, MA ’73) has received a teaching excellence award from Tulsa Community College.

Bill Gottfried (BS ’69) serves as president of Houston-based companies, Gottfried International, Inc. and Petroleum Satellite Corporation. Bill is working with NASA on the development of a commercial imaging and remote sensing system for the International Space Station.

1970

Ed Cadenhead (BS ’72, JD ’80) has published his first novel, *Down and Out*. The book follows the trials of small-town Oklahoma teen athletic star Anthony “A-Rod” Rodman, who gets unwittingly pulled into a world of drugs, gangs, and violence. His ill-advised involvement with a gang leader implicates him in a murder. The book is published by 1st Books Library.

Elaine Perett Hanner (BS ’72) has been elected province director of alumnae for Kappa Kappa Gamma fraternity. Elaine will be working with alumnae associations in Oklahoma and North Texas. She also has served as advisory board chairman for Delta Pi Chapter at TU.

Carol A. Lambert (BA ’72, MA ’77) was elected to the Honor Society of Phi Kappa Phi and received her doctorate in audiology from the University of Florida in December 2000. Carol is president of Audiology Consultants of Tulsa, Inc. Her son, Read Minshall, is a freshman at TU.

Sally Kucera Uebelacker (BA ’72) received her juris doctorate from the University of New Mexico in May.

Beverly Mays Hodges Raymond (BS ’73, MA ’75) published a novel, *Kennedy’s Daughter - Castro’s Bastard*. Beverly lives in St. Petersburg, Florida.

Debbie Endres Givens (BS ’74) was named the Tulsa Public Schools 2001 Teacher of the Year. Debbie, a seventh grade language teacher at Carver Middle School, has been with Tulsa Public Schools since 1976.

Brenda Crawford Clark (BS ’75) has published her first book, *Body Sense: Balancing Your Weight and Emotions*. Brenda and her husband, **Bob Clark** (BS ’74), live in Tampa, Florida.

Richard G. Eichhorn, Ph.D. (JD ’76) is an assistant professor of Economics at Coe College in Cedar Rapids, Iowa. Richard and his wife, **Margaret Anne New Eichhorn** (BS ’92) have two children, Jack Kendrick and Owen Hunter.

James M. Goss (BS ’76) was named vice president of public relations and marketing for CentraState Healthcare System.

Michael McRuiz (BFA ’76, MA ’86) is a graphic arts instructor at Tulsa Community College.

Michael Wortham (BS ’78) works with BP in Houston as the project general manager in the upstream division. Michael and his wife, Beverly, have two sons. Justin is a freshman at TU majoring in computer information systems. Their younger son, Ross, is a senior in high school.

Kevin A. Clark (BA ’79) is a contributing writer to the new book *Wireless Rules*, by Fred Newell and Kay Newell Lemon. Clark authored the chapter titled “The Future of Marketing in a Wireless World.” The book, published by McGraw-Hill, addresses new marketing strategies for customer relationship management using emerging wireless technologies. Clark is currently program director, business strategy and brand management, for IBM Personal Device Brands in Research Triangle Park, North Carolina. He is responsible for the IBM ThinkPad notebook computer brand, IBM NetVista desktop computer brand, and IBM WorkPad handheld device brand. He lives in Chapel Hill, N.C., with his wife, Heidi J. Sawyer-Clark, who is a children’s etiquette instructor and former president of the Chapel Hill Garden Club.

1980

Greg Frizell (BA ’81) is a district judge for Oklahoma. He spoke at the Phi Alpha Theta initiation ceremony.

Becky L. Medley (BS ’81) was elected to a term as trustee of Coffeyville Community College. Becky also serves as vice chairman of the Montgomery County Democratic Central Committee and is a past president of the local National Education Association chapter.

Radonna Tims (BSN ’82) is a nursing instructor at Tulsa Community College.

James David Richardson (BS ’83) is a U.S. Army major and has been assigned to serve in Fort Sill as the operations officer for the Army Schools System’s regional office. James received his masters degree in International Studies from the University of Oklahoma.

John Figari (BA ’85) has completed his third year in the doctorate program in Romance Linguistics at the University of Texas-Austin. Prior to pursuing his Ph.D., John spent eight years at a Benedictine monastery in Arkansas.

Pamela Grossman Fromelt (BS ’85) is a senior manager with Deloitte & Touche LLP in its health care practice. Pamela was named to URAC’s Disease Management Advisory Committee in August.

Amber Raymon Merchant (BS ’85) is manager of Customer Systems for Blue Cross and Blue Shield of Oklahoma. Amber and her husband, Chuck, have two daughters, Kayla and Carolann.

Veronica Barranco Marks (BA ’86) is corporate communications manager at Digital Recorders, Inc. Veronica and her husband, Jim, live in Carrollton, Texas, with their two children, James, 15, and Andrew, 11.

Rodney Newman (BA ’86) was appointed senior pastor of Crown Heights United Methodist Church in Oklahoma City.

Brian Porter (BA ’86) has written a book, *When Nationalism Begins to Hate*, which was reviewed in the *Times Literary Supplement*.

Patrick Porter (BS ’86) has taken the position of senior reservoir engineer (Western team) for Newfield Exploration Mid-Continent in Tulsa. Patrick lives in Broken Arrow with his wife, Kelly, and their two children, Allison and Jacob.

A. Nadine Haley (MA ’87) was named assistant professor in Metropolitan State University’s College of Professional Studies.

Vera Budway (BA ’88) is the director of the Action Network for Southeastern Europe at the East-West Center in Prague.

Louis Henry Iselin (BS ’88) and **Huong Vuong Iselin** (BA ’89) welcomed a son, Joshua Thai, on May 14. Louis and Huong also have two daughters, Megan, 7, and Rachel, 3.

Eric Hunter (BS ’89) has been promoted to director of planning for Schaller Anderson, Inc. at the corporate office in Phoenix, Arizona. Eric previously served as chief operating officer for Maryland Physicians Care, MCO.

Melissa R. Spears (BA ’89, MS ’93) is coordinator of registration and records at Southwest Missouri State University-West Plains. SMSU is located in Melissa’s hometown of West Plains, Missouri.

Tory Baker (BS 89, MBA ’96) has been promoted to director of financial planning and analysis for the NORDAM Group. Tory joined the company in 1998 as senior financial analyst.

1990

Jennifer Maddy Halleck (BS ’90) and **Michael D. Halleck** (BSEE ’89) were married in 1997. Their daughter, Talia Quinn, was born October 19, 2000. Michael is the president at Halleck-Willard Inc., and Jennifer manages her own company, Air Compliance Engineering. The couple live in Northglenn, Colorado.

Chrystie Meziere (MS ’90, Ph.D. ’94) is a psychology instructor at Tulsa Community College.

Thad Satterfield (BA ’90) and his wife, **Andrea Nevaril Satterfield** (BA ’90), have moved to Park City, Utah, where Thad has been named headmaster at the Colby School. Thad and Andrea have two children, Andrew, 6, and Abby Jane, 4.

Rene Bassett Butler (BA ’91) and husband, Tracy, are pleased to announce the arrival of a daughter, Kathryn Goodrich, born November 2, 2000. Rene is an attorney at Bassett Law Office in Wood River, Illinois.

Joseph “Boyd” Hoffman (BS ’91) lives in St. Louis with his wife, Christine, and their three-year- old daughter. Boyd owns an insurance consulting practice, Paramount Insurance Advisors.

Susan Kamphaus (BA ’91) has received a teaching excellence award from Tulsa Community College.

Kristi McKnight (BS ’91) married Clay Carlisle on March 31. Matron of honor was **Robin Waters Sanders** (BS ’91). Kristi is a senior analyst with Sabre. The couple lives in Arlington, Texas.

Kari Phillips Kovzan (BA ’92) **and Steve Kovzan** (BSBA ’91) live in Prairie Village, Kansas, with their three children — Sam, 10; Mary Kate, 6; and Claire, 1. Kari teaches elementary French, and Steve is vice president of financial operations for National Information Consortium.

Lance Lovett (BA ’92) works as a graphic designer for Nike, Inc. in Portland, Oregon.

Chad Bonham (BA ’93) began the year 2000 on a happy note — he married his wife, Amy, on New Year’s Eve 1999. They live in Broken Arrow, where she is a second grade teacher at Arrow Springs. 2001 has been a banner year for Chad: He was hired in February as the program director of KMRX-FM (LIVE 101.5) in Tulsa. In September, Chad was accepted as a lifetime member of the *Kingston National Registry of Who’s Who* for the 2002 edition. In October 2001, his first nationally published book, *Wrestling With God*, was released and is currently being distributed to several major mainstream and Christian bookstore chains.

Tony DuPré (BA ’93) and **Coleen Carr DuPré** (BA ’94) announce the birth of their second child, Kaitlyn Eileen, born July 27. Their son, Trevor, is 3. The family lives in Plano, Texas.

Ana K. Garcia (BS ’93) is assistant corporate controller for L & B Realty Advisors, Inc. in Dallas.

Shawn Madigan Smith (BA ’93) and husband, **Brent** (BA ’92), have moved to Houston. Shawn will be attending law school at the University of Houston, and Brent is an assistant professor in the business school at Rice University.

Votes of confidence

Democracy, technology all in a day's work for Bill Welsh

by Doug Fishback

For most, making sure nothing goes wrong at work could involve double checking calculations or backing up important data files. For TU alumnus Bill Welsh (BS '63), a little insurance at work sometimes involves a small fleet of planes and a temp pool borrowed from a nearby military base.

Such precautions aren't unreasonable when missing a deadline just might be unconstitutional.

Welsh is chairman of Election Systems & Software (ES&S), the world's largest election management company. ES&S develops and markets voting devices and software and provides end-to-end election management services for domestic and international clients. The company has counted about 60 percent of the U.S. national vote for the past four presidential elections and last year alone managed more than 5,700 elections.

Last November, ES&S systems were in use in more than 1,800 U.S. counties as voters went to the polls for the general election. Given the fundamental importance and the logistical complexity of elections, Welsh and company leave nothing to chance: They had four business jets and two turboprops on standby, as well as more than 1,000 temporary employees, some drawn from Offut Air Force Base in Omaha, Nebraska. ES&S staff were ready to be anywhere at a moment's notice to help iron out unexpected kinks. Fortunately, it was a smooth year.

"One way we measure success is by the number of times we have to scramble a jet," Welsh said. "Last November we flew only four times, which was a record low."

And, since it is likely to be the first question on people's minds, no, ES&S was not involved in the controversial "butterfly ballot" issue in Palm Beach County, Florida, that helped spawn a protracted recount and appeals process in the Bush vs. Gore presidential race.

ES&S has been there, however, to provide options and answers for officials wanting to upgrade election equipment and processes following the Florida controversy. This summer, the Florida Association of Counties exclusively endorsed ES&S as the vendor to help the state modernize voting. Two months later, after extensive testing and review, the Florida Division of Elections certified several key ES&S products, clearing the way for election officials in the state's 67 counties to initiate contract discussions with the company.



Bill Welsh holds an ES&S iVotronic touch-screen voting device.

Interestingly, however, in a year when electoral complications made dramatic history and states like Georgia and California began to contemplate $300 million system overhauls, business was not all that great, according to Welsh.

"Upgrading election systems can be an expensive process, and when the federal government raised the possibility of providing funds to help states modernize, the response of many states was to put plans on hold to see how much federal assistance would become available," he said. "I've advised lawmakers that the best thing they could do would be to make a quick and clear decision on federal involvement so the rest of the system could move forward."

And there is a lot of room to move. Older, less-reliable technologies such as punch cards and mechanical levers are still prevalent. Although the punch-card system is subject to problems such as "hanging chads" and overvoting, and mechanical lever systems have not been manufactured since 1978, these two technologies still are used by more than half of the U.S. voting public, according to Welsh. Replacing just these technologies with more modern systems nationwide would require up to six years and as much as $6 billion.

In the absence of still-uncertain federal assistance, this burden would fall squarely on the county governments that administer elections. Especially now, these counties face increasingly complex questions about how to spend revenue.

"Our biggest competitors are not, in fact, other elections systems companies out there, but the other budgeting priorities at the county level," Welsh said.

One county that has made the commitment to election upgrade is Dallas County, Texas, which Welsh proudly points to as a case study in what ES&S can do for its clients. In 1997, the county began by purchasing optical scanning units from the company, which read ovals marked on a paper ballot. (This system is the statewide standard in Oklahoma and elsewhere.) More recently, Dallas County made the leap into 21st century voting when it purchased 400 of ES&S's iVotronic™ touch-screen units. These portable battery-powered devices, which look like a cross between a laptop computer and an Etch-a-Sketch, allow users to cast votes simply by touching their choices on screen. In addition to providing a high-tech interface, the units can be customized to present ballots in multiple languages and formats.

In fact, the features of the iVotronic help Dallas County conduct early voting pursuant to a 1996 law enacted to increase voter participation. Under this system, voters can report early to one of 34 polling places throughout the county, where, based on language preference and the races and questions in their home precincts, the iVotronic will present the correct choices from among 1,500 different ballot designs, Welsh said.

"Trying to do that with crates of paper ballots at multiple locations would be incredibly expensive, wasteful, and a logistical nightmare," he said. "Increasing voter participation depends on offering more convenience, and convenience is best served by advanced solutions. The Dallas County system is a wonderful example of how technology can serve and improve the democratic process."

Maryland is gearing up for a four-county test with touch-screen (also known as DRE) technology, and Georgia is considering implementing the technology statewide, Welsh said.

ES&S also has tapped the international elections market. In 1997-98, the company modernized voting on a national scale in Venezuela, moving that country to optical scanner-based voting. ES&S also has installations in Guam, the Republic of Palau, Canada, and the ARMM region of the Philippines.

As a young man beginning college during the initial explosion of transistor technology, Welsh had a keen interest in solid-state physics. He majored in engineering physics at TU, where he was a dedicated student, enrolling in 18 to 20 hours a semester and working as a research assistant for Jersey Production Research Company (Now Exxon). He also participated extensively in intramural sports and was a member of the Sigma Chi fraternity. (Bill's brother, Bob Welsh, also was a TU Sigma Chi brother.)

Welsh joined General Electric straight out of college and spent 10 years with the company, where he advanced quickly and wound up running GE's advanced planning in GE lighting unit. It was during this time that he also completed a masters in business administration from Clemson and Furman Universities.

The challenge and opportunity of a technology-based startup led him from GE to Indiana-based Hi-Tek Lighting, where he served as Vice President of Marketing. From 1977 to 1993, he was President, CEO, and board member of Valmont Industries, Inc., a producer of support structures for the communications industry, street and highway lighting standards, and agricultural irrigation systems.

His successful track record allowed Welsh to mothball his suits in 1994, but after a leisurely year of golf and skiing, boredom drove him back to the corporate world. "I realized age 54 was not the time to retire," he said.

In 1995, he returned to business as President and CEO of American Information Systems, which brought him into the election systems industry. In 1997, AIS acquired Business Records Corporation's election division, a move that would produce Election Systems & Software, which he chairs today.

Welsh also serves as chair of Ballantyne of Omaha, Inc., a leading manufacturer of motion picture projection and specialty lighting equipment. He was named to this post in September, having served more than a year on the board. Welsh also was a board member for Guarantee Mutual Life Co. until its merger with Jefferson-Pilot and is currently a trustee for Creighton University, as well as past chairman and executive board member for the Greater Omaha Chamber of Commerce.

Welsh and his wife, Charlene, have a son, Bill; a daughter, Barrie Welsh Pietranico (BA '88); and three grandchildren. Barrie is also a graduate of the University of Tulsa. The couple visit Tulsa as often as they can; Charlene's parents live in a local retirement community.

Although there is a lot of history between his current success and his TU days, Welsh makes a special point of crediting his TU education, and he reaffirms the wisdom of placing an MBA atop a solid engineering foundation: "The background that I got at TU in engineering physics has been extraordinarily useful. While I can't say that I sit here and engineer things day in and day out, in every business I've been in, my background in physics, engineering, and mathematics has served me extraordinarily well. I look back at the four years I spent at TU as both highly productive and highly formative in terms of what I ended up doing and where I ended up going."



Brandy Snider McCombs (BA '97) was published in *Pathways to Independence; Reading, Writing, and Learning in Grades 3-8*. Brandy, the mother of twin sons, teaches Spanish part time at Fox High School.



Brent Lewis (BS '98) married Kathy Mitchell on February 2. **Mike Hodges** (BS '99) was a member of the wedding party. Brent is a software consultant, and Kathy is employed by the Magic Empire Council of Girl Scouts. The couple lives in Broken Arrow.

Mike Bynum (BS,'94) was named Oklahoma Teacher of the Year at an awards ceremony during the Oklahoma State Fair in Oklahoma City in September. He teaches advanced chemistry and physics and coaches basketball at Charles Page High School in the Sand Springs School District. Bynum was chosen from among 12 finalists by a statewide panel including business and community leaders and journalists. He has taught for seven years.

Michael Stefany (MA '94) attends the University of Kansas, where he is pursuing a master's degree. He did research in Moscow and Kazakhstan on the 1986 Alma-Ata ethnic riots.

Gembong Baskoro (MS '95) is completing his Ph.D. program at the Technische Universiteit Eindhoven, Netherlands.

Kelton B. Harrison (BSBM '95) is attending the Mays School of Business at Texas A&M University.

Connie Allyn Hebert (MS '95) will complete her Ph.D. in biomedicine at the OSU College of Osteopathic Medicine in December 2001. Connie has three children, ages 12, 7, and 1.

Joyce Mattingly Pacenza (BA '95) is employed with the Tulsa County Law Library.

Christopher Mark Peterson (BA '95) will be appearing in a Chicago Shakespeare Theater production of Sondheim's *Pacific Overtures*. Christopher will be returning to his performance in *Les Miserables* when the production concludes.

Sebastien Colom (BA '96) was married August 18 in France.

Ashish Gupta (BSBA '96) is a manager at Intel in the Online Services Division. Ashish is attending TU's iMBA program.

Mark Magnuson (BA '96) is pursuing his master's degree in European History at the University of Stockholm. Mark's research is on immigration to coastal towns in northern Sweden.

Lisa Palluconi (BA '96) received her Juris Doctor from Harvard Law School and will complete her master's in Public Administration from the Kennedy School of Government in June. Lisa has accepted a job with a law firm in Washington, D.C.

Gregory Thomas West (BS '96) and his wife, **Robyn Graul West** (BS '96), live in Aberdeen, Scotland. Greg works for British Petroleum, and Robyn works for The Pampered Chef. The couple celebrated their fifth wedding anniversary on July 13.

Justin Byren (BA '97) is an attorney at Hughes & Luce in Dallas. Justin has published an article on NAFTA in the *Texas International Law Journal*.

Sarah Cloud (BS '98) received her master's degree in Water Resource Management from the University of Nevada. Sarah will pursue her doctorate in environmental studies and management at UNLV.

Missy Nichols Matlock (BSBA '99) and husband, **Tim Matlock** (BSBA '93), are pleased to announce the arrival of a daughter, Camryn Paige, on March 12.

Mindy Tiner (BA '99) joined the CDR Assessment Group, Inc. as the business services coordinator. Before joining CDR, Mindy was the associate director at the Center for Nonprofit Management in Tulsa.

Stacy Davis (BA '98) passed her oral examinations with distinction at the University of Notre Dame.

David Ahn (BA '99) serves as a Marine Corps lieutenant and also is a law student at the University of San Diego.

Jeffrey Randal Wade (BA '99) is working toward his master's degree in social work at the University of Oklahoma.

2000

Justin Ray Dean (BS '00) is an electrical engineer for Schlumberger in Bartlesville, Oklahoma. Justin's job assignments have allowed him to travel to the Congo, Tunisia, Scotland and Venezuela.

Lauren Deaton (BA '00) has completed her first year in library science at the University of Texas-Austin.

Kevin Gray (BA '00) has completed his first year at the Bush School of Government and Public Service at Texas A&M University.

Melissa Marshall (BS '00) and **Eric Raasch** (BS '00) were married July 22, 2000 at the Tulsa Garden Center. TU alumni in the wedding party included **Seth Smith** ('01), **Chris Hare** (BS '00), **Kent Gooch** (BS '01), **Matthew Bray** (BS '99), **Vanessa Richards** (BA '00), **Rashel Jones** (BA '00), **Jennifer Taylor** (BS '99), **Joanna Michalopolus** (BS '00) and **Jean Aydelotte** (BA '00). The couple lives in Oklahoma City.

Timothy James McCollum (MA '00) has been awarded a fellowship by the American Indian Studies Research Institute to pursue his Ph.D. at Indiana University in anthropology. Tim was honored by the Central States Anthropological Society with the Leslie A. White Award.

Brad Spear (BS '00) joined Sterling Integrated Communications as Production/Traffic Manager.

2001

Ryan J. Carson (BA '01) is studying clinical psychology at Harvard University Graduate School.

Susan Elizabeth Cook (BA '01) is engaged to **Seth Alan Conaway** (BS '01). Susan is completing an internship with the Metropolitan Museum of Art in New York. Upon completion of her internship, Susan will attend graduate school at the University of Cincinnati College-Conservatory of Music in Arts Administration.

Brent Alan Holmes (BS '01) and his wife, Rebekah, are pleased to announce the birth of their daughter, Liriel Josette Holmes, born August 16.

Jennifer Hover (BA '01) has been crowned Miss Missouri 2001. Jennifer represented Missouri at the Miss America Pageant on September 22 in Atlantic City, New Jersey, where she was named one of the top 20 finalists. Jennifer was escorted onto the stage during the evening gown competition by her brother, TU freshman Alex Hover.

Melinda Okonek (BA '01) is working for McNeil Consumer Healthcare in Wichita, Kansas as a pharmaceutical representative.



Jenny Wilson (BA '99) and **Wade Clark** (BS '98) were married October 7, 2000 at Sharp Chapel. TU alumni in the wedding party included **Mimi Gabrielson** (BS '01), **Krista Utter** (BS '97, MS '99), **Levi Gillen** (BS '97), **Jeff Utter** (BA '97), **Wes Caswell** (BA '98), **Justin Reich** (BA '98), **Jason Jacoby** (BA '98) and **Jody Sparks** (BA '98). Jenny works for WorldCom, and Wade is a product manager at Williams Communications. The couple lives in Tulsa.



Shelley D. Wright (JD '98) and **Erik T. Bruskotter** (BSBA '95) were married February 14 at the Grand Old House in Grand Cayman. The wedding was attended by fellow TU alumni **James Schelin** (BS '94) and his wife, **Telisa Webb Schelin** (BS '94, JD '98); **Jay Coffey** (BS '95) and **Thomas Bruskotter** (BS '66). The couple lives in Denver, where Erik works as a regional sales manager for U.S. Medical, and Shelley works in the staff counsel office for The Hartford.

Slick Character

Hays Leads U.S. Bobsled into Olympic Competition



USBSF photo by Nancie Battaglia

If alumnus Todd Hays does his job well, you won't see that much of him on TV in February—until he gets to the Olympic podium, that is.

As the driver for Team USA's two- and four-man bobsleds and one of the fastest-rising stars in winter sports, Hays is leading the charge toward U.S. bobsledding's first Olympic medal in more than 40 years. A string of victories in recent competition, including two- and four-man silver medals in December's World Cup competition in Igls, Austria, suggests that momentum may be ideal for Hays and team leading into the 2002 Winter Games in Salt Lake City.

Hays, 32, was a member of TU's 1991 Freedom Bowl championship football team. After a hoped-for career with the Canadian Football League's Toronto Argonauts fell through, he fell back on his other sport, kickboxing. He won a national title in that sport in 1993, and the following year discovered bobsledding when the U.S. Bobsled and Skeleton Federation slid through his South Texas stomping grounds on a recruiting tour. He was an alternate on the 1998 U.S. bobsled team, and in the years since then has rapidly advanced through the ranks.

The Games of the XIX Olympiad run February 8-24, 2002.



Katrina Anne Schutz (BFA ’97) and **Brad Alan Eaton** (BFA ’97) were married on June 2 at Lake Tahoe, California.



Heather Mayfield (BA ’99) lives in Mill Valley, California and will be completing her MA in Intercultural Ministry from Golden Gate Theological Seminary. Heather spent time in West Africa where she researched African music.

In Memoriam

1920

Elsie L. Brockman (BA ’27) passed away January 28.

1930

Elbert V. (Bert) Gunn (BS ’30) passed away July 5.

Allen W. Hamill, Jr. (BS ’35) passed away October 1.

Roberta Dee Morris Logan (BS ’35) passed away July 14.

Richard (Dick) Sahlender (’37) passed away July 14.

Caroline Davis (BA ’39) passed away September 12.

1940

John Botkin (BA ’42) passed away September 21.

Katherine “Peggy” McKelvey McAulay passed away September 25.

Jane Wade Shannon (BA ’42) died March 19, 2001, in Bartlesville, Oklahoma, where she had lived for 50 years.

L.D. Moore (’42) died April 14, 2001. He was a member of the 1941 Golden Hurricane football team, which was recently inducted into the TU Athletic Hall of Fame.

Richard D. Bryan (BS ’43) passed away June 23.

Wendell E. Monger (BS ’44) passed away July 12.

Jeanne Harry Studenmund (BA ’45) passed away August 18.

Fred Sanford Erwin (’46) passed away June 16.

Jon T. Lawrence passed away August 14.

Billie (Bill) Stewart (BS ’47) passed away September 15.

Billie Jean Kelly Davis (BA ’48) passed away September 7.

Jerry D’Arcy (BS ’49) passed away August 28. In 1973, Jerry was named a TU Distinguished Alumnus and was a long-time TU supporter.

Sam Lagreca (BS ’49) passed away July 30.

James Mowry Mitchell (BA ’49) passed away August 28.

James Ragsdale passed away October 1.

1950

Raymond Lee Constant (BS ’50) passed away June 25.

John H. McMinn (BS ’50) passed away March 18.

James F. (Jim) Ormond (BS ’50) passed away May 25.

Margaret Wooten Robertson (BS ’50) passed away September 14.

Charles D. Lewis (BS ’51) passed away May 4, 1999.

Banks McDowell, Jr. (BA ’51, Ll.B ’54) passed away February 18.

Jack F. Keeter (BA ’52) passed away July 25.

Lt. (Ret.) Forrest R. Ratliff (BA ’52, MS ’54) passed away May 20.

George Allen Covey (BS ’52, MS ’53) passed away July 14. Mr. Covey was inducted into the Engineering Hall of Fame in 1984.

Chloe Ann Dowdy Hicks (BS ’53) passed away June 15.

James Joseph Elliott (BS ’54) passed away September 6.

Robert C. Gimlin, Jr. (BS ’55) passed away July 22.

Carol A. Hockenson Wilson (BA ’55) passed away June 22.

Samuel “Sam” Porter Jett (BS ’57) passed away August 13.

Robert Earl “Bob” Jones (JD ’58) passed away July 16.

Arthur R. Pool (BS ’59) passed away July 4.

1960

Captain Donavon G. Wilkerson (BS ’61) passed away May 16.

Thomas Patrick Canavan (BS ’62) passed away June 23.

Warren Clifton “W.C.” Carmichael (MA ’62) passed away August 1.

Patricia Ann Clough Peterson (BS ’62) passed away July 18.

Jay D. Howard (BS ’64) passed away September 19.

M.R. “Butch” Featherston (BS ’68) passed away July 29.

Ella May Perkins Wall (BS ’69) passed away July 15.

1970

James D. Coggburn (BS ’70) passed away October 3.

Jan Dirk Feenstra (BS ’70) passed away February 1.

Thomas S. Yancey, Jr. (BS ’71) passed away December 11.

George T. (Ted) Bynum (BS ’73) passed away September 12.

Lydia Lou Haynes (MS ’73) passed away August 2.

Chris Alan Rice (BA ’73) passed away June 16.

Michael James Rohleder (BS ’73) passed away September 2.

Elizabeth Anne Cronin-Layon (JD ’74) passed away June 8.

Dr. Michael D. Farrar (BS ’75) passed away July 31.

Richard Martin Harkness, MD (BS ’76) passed away July 21.

Roswitha VanHorn (BS ’76) passed away January 2.

1980

Mitch Nalley (BS ’83) passed away June 22.

Jayesh “Jay” Shah (BS ’84, MS ’87) died September 11 in the World Trade Center attack. (See story on page 6.)

Mark William Foresman (BS ’87) passed away April 28.

LeAnn Mary Grosso Lobato (JD ’89) passed away June 18.

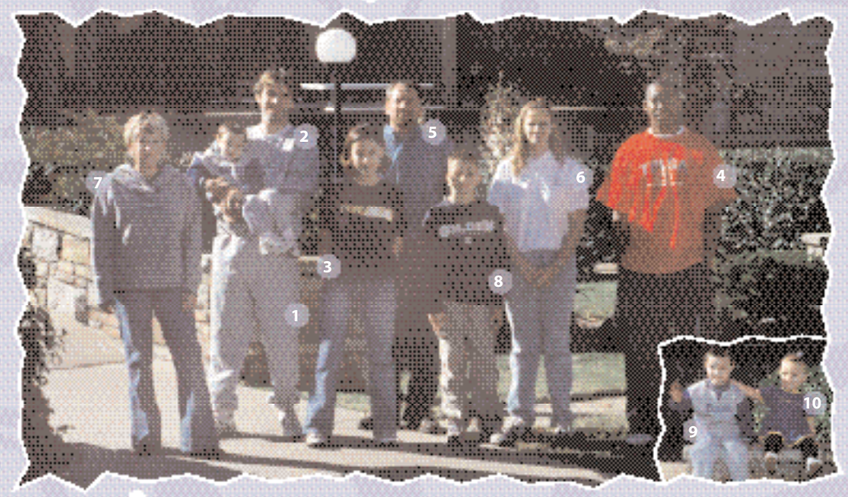
1990

Jason Heath Clark (BA ’93) passed away August 22.

Sean Layton (BA ’94) passed away August 3.

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9. Little King Kids Sweat Outfit	2-4T	$32.00
10. Little King Girls One-Piece Tulsa Cutie	6-18m	$30.00
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A TU Alumni Association program, www.tulsa.bkstr.com/tulsa



*Western Athletic Conference games. All times are central time zone. Dates and times are subject to change. **Bold indicates**

Men's Basketball 2002

Date	Opponent	Time
January		
3	at Nevada*	9:05 pm
5	Fresno State* (ESPN2)	11:00 pm
10	**UTEP***	**7:05 pm**
12	**Boise State***	**7:05 pm**
17	at Louisiana Tech*	7:00 pm
19	at SMU*	7:35 pm
24	**San Jose State***	**7:05 pm**
26	**Hawaii***	**7:05 pm**
28	**Rice***	**7:05 pm**
31	**Fresno State***	**7:05 pm**
February		
2	**Nevada***	**7:05 pm**
7	at Boise State*	8:30 pm
9	at UTEP*	8:05 pm
14	**SMU***	**7:05 pm**
16	**Louisiana Tech***	**7:05 pm**
21	at Hawaii*	11:05 pm
23	at San Jose State*	9:30 pm
28	at Rice*	7:05 pm
March		
5-9	WAC Tournament	TBA

January 2002

18
Friends of Finance luncheon: Robert Tippee, editor, *Oil & Gas Journal*

19
Scholastic Art Awards. Call School of Art for details, 631-2202

24
• Exhibit: Faculty Showing, through February 15. Reception
• Faculty Concert Series: "Woodwind Treats," Leonard Garrison & Shannon Scott, Tyrrell, 7:30 p.m.

28
Recital: Béla Rózsa Student Composition Competition, 8:00 p.m., Tyrrell Hall

31
Theatre: "An American Musical Revue," Chapman Theatre, Kendall Hall, through February 3

February

5
Buck Franklin/Presidential Lecture: Morris Dees, ACAC

14
Theatre: "New and Dangerous Ten-Minute Play Fest: Various Works," Theatre Two, Kendall Hall, through February 16

17
Concert: University Orchestra, Philbrook, 3:00 p.m.

21
• Exhibition: Visiting artist Roger Shimomura, Alexandre Hogue Gallery, through Mar. 29
• Faculty Concert Series: "Frothy French Melodies," Tyrrell, 7:30 p.m.

22
Dedication, TU Legal Clinic, 10:00 a.m.

24
Concert: TU Band, Location TBA, 3:00 p.m. - 4:00 p.m.

March

2
Don Quixote Concert: Scott LaGraff & Andrew Hudson, Tyrrell, 8:00 p.m.

3
• Béla Rózsa Memorial Concert: Competition winners, Tyrrell, 3:00 p.m.
• 2002 WAC Basketball Tournament, Reynolds Center, through March 9.

6
Presidential Lecture: Brian Green, physicist and author, *The Elegant Universe*, Great Hall, ACAC, 8:00 p.m.

7
Tulsa Law Review symposium featuring Morton Horowitz

21
• Phi Beta Kappa Visiting Lecture: Richard Saller, "The Character of Ancient Rome," McFarlin Faculty Study, 7:30 p.m.
• Faculty Recital Series: "Music of Women Composers," Anna Norberg & Derry Deane, Tyrrell, 8:00 p.m.

24
Tulsa Oratorio Chorus' 10th Anniversary Concert, Brahms' *German Requiem* with Tulsa Philharmonic, Performing Arts Center, 3:00 p.m. - 4:00 p.m.

28
Reception for visiting artist Roger Shimomura

April

2
Theatre: "A Little Night Music," Chapman Theatre, Kendall Hall, through April 7

4
• 34th Annual Gussman Student Exhibition & Reception: 4:30 p.m., Alexandre Hogue Gallery, through April 26
• Faculty Concert Series: "An Evening of Elegant Baroque," Dr. Joseph Rivers & Derry Deane, Tyrrell, 7:30 p.m.
• Engineering & Natural Sciences: Hall of Fame, Great Hall, ACAC

11
Concert: Jazz Bands, Location TBA, 8:00 p.m. - 9:00 p.m.

14
Chorale Concert: Location TBA, 3:00 p.m. - 4:00 p.m.

18
Engineering & Natural Sciences: Honors & Awards Assembly, Great Hall, ACAC

21
Concert: TU Bands, Location TBA, 3:00 - 4:00 p.m.

23
• Darcy O'Brien Lecture: Ron George, Chief Justice, California Supreme Court
• Theatre: "In the Night: Meditations on Dreams & Darkness," with food, various venues, through April 28

28
Concert: University Orchestra, Philbrook, 3:00 p.m.

May

2
Graduate Exhibition & Reception: Alexandre Hogue Gallery, through May 31

3
Law: Alumni Gala

9
Friends of Finance: Student Investment Fund

20
Colloquy: Sharp Summer Colloquy in Wroxton, England, through June 14

*For more information on this Golden Hurricane Club event, call 918.631.2570.

For the most current and updated listing of TU events, check the Web calendar at www.utulsa.edu



That's AMORE. Peter Michael, TU professor of geosciences, served as chief scientist aboard the U.S. Coast Guard Cutter *Healy* during a 65-day Arctic Mid Ocean Ridge Expedition. Michael led scientists from Lamont Doherty Earth Observatory, Woods Hole Oceanographic Institution, and Oregon State University in exploring the volcanic activity in Gakkel Ridge, three miles below the arctic cap. He was joined by TU students Paul Schmieder and Joel Donohue in the adventure of a lifetime. A full story of the expedition will appear in the spring 2002 edition of *The University of Tulsa Magazine*.

-Deanna J. Harris



Ruth Hall Mayo

A Legacy of Friendship

As an active contributor to the enterprises of Tulsa's renowned Mayo family, an inspired friend of the arts, and a dedicated member of Trinity Episcopal Church, Ruth Hall Mayo lived a life firmly rooted in business, compassion, service, and philanthropy.

Although that lifetime ended last February, her vision and generosity will make a lasting difference to Tulsa and to TU.

In addition to advancing a long list of Tulsa institutions, including Children's Medical Center and the YWCA, Ruth and her late husband, Cass Allen Mayo, Jr., were longtime TU supporters who took a special interest in the College of Business Administration. In 1985, the Mayos funded the college's first computer lab, created a student lounge, and established recognition and award programs for business faculty and for MBA students. In 1996, Ruth honored her husband's memory through an endowment to subsidize four years of tuition for business undergraduates displaying academic excellence and leadership.

Ruth's love of the arts, which led her to study fine art and interior design at the University of Texas, also inspired her to support Tulsa arts institutions. At TU, this commitment took the form of the Ruth Hall Mayo Visiting Artist Program, which provides funds to bring accomplished artists to campus for student workshops and lectures.

In addition to supporting large capital projects such as the construction of the Donald W. Reynolds Center, Ruth established the Ruth Hall Mayo Charitable Remainder Unitrust in 1996, making TU a beneficiary of her estate. Through prudent investment, this substantial gift will provide a perpetual benefit to generations of TU students, and it will stand as a permanent testament to Ruth Hall Mayo's commitment to excellence in education. In addition to supporting the Mayo Visiting Artist Program, the Unitrust will endow Presidential Scholarships, which are vital to TU's ability to recruit and retain the most talented students.

For more information on planned giving to The University of Tulsa, contact Jan Cavin, vice president for institutional advancement, at (918) 631-2565.

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