Research Revs Up

What Brett Giroir brings to the A&M System

By Rod Davis
A&M System Communications

Growing up in Marrero on the working class West Bank of New Orleans, Brett Giroir, like most teenagers, couldn’t wait to see what was beyond his small town. He got his first chance when he was admitted to Jesuit High School across the river in the Big Easy itself. Science had never particularly interested Giroir, but while studying immunology for an honors biology class his senior year, the young member of an old Cajun family ran into the question that would define his life’s work: “What makes you sick?”

Today, as an acclaimed scientist and vice chancellor for research at The Texas A&M University System, Giroir continues the quest. “It’s still a fundamental question that needs to be answered,” he says. “Yeah, it seemed like a stupid question, a silly question, a juvenile question. But the more sophisticated you get, the harder it is to answer.”

Pursuing the mystery took Giroir on an impressive arc, starting with selection as a National Merit Scholar and then, majoring in biology, as a Harvard Scholar. After receiving his M.D. from UT Southwestern Medical Center in Dallas, Giroir decided to give Texas a little more time. He served as tenured professor and associate dean for clinical affairs at UT Southwestern, where he also held the Associates First Capital Corporation Distinguished Chair in Pediatrics. Giroir is busy with his own research projects, too, developing new treatments for infectious meningitis in children and securing five medical patents, with two pending.

In 1998, Giroir began a long-term involvement with the Defense Advanced Research Project Agency (DARPA). The federal government had become increasingly serious about the threat of biological warfare, and Giroir was asked to join a select panel of academic experts on biology and communicable diseases. One of the panel’s first projects was to develop a scenario for protecting government buildings after a biological attack. The result of that study ultimately led to development of chloride dioxide as a decontaminant. In 2001, that protocol was used to decontaminate the Hart Senate Office Building in Washington, D.C., which closed for three months after an envelope containing anthrax spores was delivered to U.S. Senate majority leader Tom Daschle.

In 2004, Giroir became deputy director of defense sciences at DARPA, and then director of that office two years later. He says the accomplishment of which he is most proud is a brain-controlled prosthetic arm that closely mimics the feel and agility of a natural arm and will provide normal quality of life to upper limb amputees. This year, Giroir received the Secretary of Defense Medal for Outstanding Public Service in honor of his DARPA tenure. While at DARPA, Giroir began working with Dr. Theresa Fossum, then a surgeon and clinical professor at the Texas A&M University College of Veterinary Medicine & Biomedical Sciences, and now also director of the Texas A&M Institute for Preclinical Studies (TIPS). He also met Guy Diedrich, vice chancellor for technology commercialization for the A&M System. Then Giroir started talking to Chancellor Michael McKinney, who was looking for just the right person to pump up greatly expanded system research goals. It was friendly persuasion, but powerful. “I got sucked into the A&M magnet, which is a really great place to be,” Giroir recalls.

In June 2008, with the enthusiastic support of his wife, Jill, and daughters Madeline and Jacqueline, Giroir began unpacking in his new office on the second floor of the A&M System headquarters building about six miles south of the Texas A&M campus. The family couldn’t be happier. “We love it here. It’s a great place to be,” he says. Jill, a graduate of SMU law school, is now involved with veterans programs and other volunteer services focusing on education of underserved children and securing five medical patents, with two pending. 

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Safe haven: Reed Arena served as a shelter for special-needs patients during Hurricane Ike. The Texas A&M Health Science Center community supported federal and state agencies in providing assistance to evacuees.

No time for a desk: Dr. Brett Giroir, on a training mission early this year with the 310th Fighter Squadron at Luke Air Force Base, Arizona, ready to take off in an F-16 Falcon.

First responders
Throughout Ike’s onslaught, the Texas Engineering Extension Service and its Texas Task Force I urban search and rescue team played a critical role in coordinating state and federal search and rescue efforts. In Galveston and Southeast Texas, Texas Task Force 1 performed or coordinated 3,350 rescues by air, ground and water. Before the storm hit, the team helped evacuate 70 hospital patients from Port Arthur and teamed with the U.S. Coast Guard to rescue nearly 100 citizens from the Bolivar Peninsula area.

Texas AgriLife Extension Service sent extension agents to 121 Gulf Coast and inland evacuation hub counties, including 86 extension agents to support animal care. Nearly 40,000 cattle and horses were stranded during the storm.

At the Texas Forest Service, crews used state-of-the-art aerial digital sketch mapping as well as ground-based analysts to evaluate resource damage. TFS provided landowners and the government with a detailed damage assessment report and an online map showing damaged areas. A technical assistance hotline was set up within a few days of the hurricane’s landfall.

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On the Texas A&M campus in College Station, Reed Arena was designated a special needs shelter, staffed and managed by the U.S. Public Health Service.

Additional aid came from the Texas A&M Corps of Cadets, Texas A&M Health Science Center, FEEX Fire Recruit Academy, numerous student organizations and community volunteers.

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Notes from the Chancellor

Michael D. McKinney, M.D.

The Duke of Wellington famously observed that "the battle of Waterloo was won on the playing fields of Eton." It was not just that the young students excelled at cricket and the other sports of the day, but that they learned about leadership, sacrifice and working together toward a common goal. In effect, they developed the kinds of skills that would prevail over the armies of Napoleon and also carry forward into stewardship of their nation for generations to come.

Perhaps lofty thoughts seem out of place on the playing fields of today, surrounded as we often are by ear-splitting cheering from crowds in multi-level stadiums, our attention constantly being hijacked from marching bands to fight songs to Jumbotron. But I think the principle is the same.

One of my delights as chancellor is the opportunity to attend sporting events at all nine of our universities throughout the year. In the fall, of course, it’s mostly football and basketball. If you’ve been looking for me just about any weekend since early September, you’ve likely found me at a game in College Station, Stephenville, Kingsville, Canyon, Prairie View – wherever they have room for one more fan.

It’s always fun. When West Texas A&M University beat Midwestern, Lou Ann and I rode in the homecoming parade, helped light the bonfire and cheered with President Patrick O’Brien and the school’s fantastically friendly students at a pep rally. It pretty much wore us out, and we couldn’t have been happier.

At Tarleton State University, Lou Ann and I joined President Dominic Dottavio from his booth to see it, too. I think that is why all of us are here.

At each game at each of our universities, I come away with a good deal more than a victory smile or a vow to beat ‘em next year. I know that I have witnessed the future. I see it in the hard-working athletes whose dedication carries over into both their studies and post-college careers. I see it in the dedicated faculty and administrators whose lives are models of devotion to ideas. I see it in the faces around me in the stands. I think they see it, too. I think that is why all of us are here.

We rightly take pride in our athletic programs as powerful recruiting tools for prospective students, as impressive showcases for visitors, Athletics open the front doors to our universities, and to the academic excellence that lies within. For many students, and their families, it is an important and decisive introduction to higher education.

The Texas A&M University College of Education and Human Development and the Texas A&M College of Health Science and Medicine are current president of the Texas Medical Association and assistant director of the Texas A&M Health Science Center. He is professor and chairman of the Department of Medicine and the Department of Clinical Practice at Scott & White Clinic. Dr. McKinney is former president of the Texas A&M University System, was president in 1998-99. In addition, Joe T. Williams, M.D., M.M.M., C.F.P., dean of the Texas A&M Science Center Rural and Community Health Institute and assistant professor of internal medicine in the Texas A&M College of Medicine, is current president of the Texas Medical Association, representing the society’s national membership of more than 43,000 physician and medical student members.

Additionally, the Texas A&M University System offers and carries out activities to improve and expand STEM education at Texas A&M University-Commerce. The Texas A&M University System is currently the largest grant funding activity of the QNRF which is an Aggie game at Kyle Field. For the Texas A&M-U.S. Military Academy, we had the added privilege of inviting more than 140 Wounded Warriors from Fort Hood, and later hosting them to burgers and hot dogs at the Reed House. At each game at each of our universities, I come away with a good deal more than a victory smile or a vow to beat ’em next year. I know that I have witnessed the future. I see it in the hard-working athletes whose dedication carries over into both their studies and post-college careers. I see it in the dedicated faculty and administrators whose lives are models of devotion to ideas. I see it in the faces around me in the stands. I think they see it, too. I think that is why all of us are here.

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News Briefs

New student regent selection process underway

Each system university’s student government has until Jan. 1 to recommend five student regent candidates to the chancellor. The chancellor then will select two finalists by Feb. 1; the governor will make the appointment June 1. The current student regent is Anthony H. Cullins, of Dallas.

Texas A&M to offer Ph.D. online for teachers

The Texas A&M University College of Education and Human Development will soon offer a first for a U.S. state institution, an online doctorate in curriculum and instruction. The program, designed for classroom teachers who plan to continue working in public schools while pursuing the degree, was approved recently by the Texas Higher Education Coordinating Board. The first students are expected to graduate in August and will take part of their classes online.

Qatar National Research Fund representatives visit Texas A&M

Qatar National Research Fund (QNRF) representatives visited the A&M campus Aug. 29 to present its flagship program, the National Priorities Research Program (NPRR). QNRF will fund a total of $45 million for the second NPRR cycle with awards ranging from $20,000-$350,000 per proposal per year. The NPRR is the largest grant funding activity of the QNRF and the primary objective of the QNRF will seek to address key national, regional and global needs through research and to pursue research opportunities for which Qatar may have a comparative or competitive advantage.

A&M-Commerce professor wins 11th composing award

Dr.海棠森教授，一位和国家知名的 composer in the Texas A&M-Commerce Department of Music, has received his 11th consecutive ASCPLUS Award. It honors his work as a composer in the 2008-09 academic year, and is based on public performance, composition quality of compositions. Hansen’s work has been performed at Carnegie Hall in New York City, The Kennedy Center for Performing Arts in Washington, D.C., and on national television education.

PVAMU secures $5 million NASA grant

NASA recently awarded Texas A&M University Research $5.5 million to seek methods to ensure the safety of astronauts and delicate flight instruments during NASA flights departing earth. PVAMU researchers will concentrate their efforts to develop designs, processes and materials to ensure the safety of astronauts and delicate flight instruments during NASA flights departing earth.

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J. James Rohack, M.D., a cardiologist from Bryan, Texas, in the Texas A&M Health Science Center College of Medicine, has been named president-elect of the American Medical Association (AMA), the nation’s largest and most influential physician organization.
Texas A&M's Poet-Musician is First Hispanic Studies Ph.D.

By Holly Lambert
Texas A&M University
College of Liberal Arts

Juan Carlos Ureña, assistant professor of modern languages at Stephen F. Austin State University, has earned the first Hispanic Studies Ph.D. ever awarded at Texas A&M University. Ureña defended his dissertation, *History and Poetic Structure of Hispanic Popular Song (The Case for Central America)* this past April and graduated in August.

"The Hispanic Studies program gave me a strong academic foundation in literature and Hispanic culture," Ureña says. "These areas are very important in my professional life, and combining my work as a musician with my work as a literary scholar has been a unique opportunity."

**Musical roots spark new interest**

A Costa Rican performer, composer and songwriter, Ureña worked in music while living in his hometown of San José, traveling around the world performing in concerts and music festivals. He has recorded 10 albums of original music and has contributed to music collections in the United States, Latin America and Europe.

After studying music at the Universidad de Costa Rica, Ureña ventured to Texas with Jeana Paul — a Texan whom he had fallen in love (and later married). In 1995, Ureña moved to Texas A&M's Kingsville and Texas A&M University-Corpus Christi. "I came here because I thought this system was in a unique opportunity."

And Texas A&M’s unique opportunity for Ureña was, in part, a result of collaboration between disciplines and across campuses with Texas A&M in College Station and three Texas A&M System institutions: Texas A&M International University, Texas A&M University-Kingsville and Texas A&M University-Corpus Christi.

Unlike traditional Spanish programs that focus solely in language and literature, the Hispanic Studies Ph.D. allows students to take courses in disciplines such as history, sociology and philosophy. Graduates from this program are equipped to help address the complex socio-economic issues facing the largest demographic minority in the United States.

"I’m very proud of the fact that the first student to get a Ph.D. in Hispanic Studies, but also a first-rate scholar," says Eduardo Espina, professor of Hispanic Studies and director of Ureña’s dissertation. "His first two articles as a Ph.D. in the field have been accepted by referee publications and his dissertation will be published as a book. He is an example to follow for our Ph.D. students."

**Future lies in two greatest loves: music and Hispanic Studies**

Throughout his time at Texas A&M, Ureña worked full time, teaching a full load of classes as an adjunct professor at SFA, commuting from Nacogdoches to College Station, all while taking a full load every semester. Now, he says, he is looking forward to “learning how to relax again.”

The move also suits Jeana, an associate professor of modern languages at SFA, and their three children, Pablo, Bryan and Esteban. "I really like this university. Nacogdoches is a beautiful place to live and to work," Ureña says. "We have a growing department and many enthusiastic students that we hope to send to Texas A&M to continue their studies."

No matter how he splits his time between work and family in the coming year, he won’t lose track of his own creative life and will continue to write, perform and record. "I love to play and compose music," Ureña says. "Music takes me many places."

To preview samples of Ureña’s music, visit his personal website at juancarlos.urena.com. For more information on the Ph.D. program, visit http://hisp.tamu.edu/graduate-phd.html.

Download an MP3 file of his song, "Colores," at our website, tamus.edu/quest.

Research Revs Up

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Welcome to Aggieland: Giroir, wife fill and daugh-
ters Madeline and Jacqueline take in a game at Kyle
Field. Moving to College Station was an enthusiastic
family decision.

children, as she was in D.C. When he’s not training for triathlons, Giroir’s thinking of looking for some land in Brazos Valley countryside to raise cattle as he did before his assignment in Washington. But his eyes remain fixed on his mission. “I came here because I thought this system was in a unique position to solve major problems that now challenge our world. At the top of the list are global health and health security — not only for humans but animals and plants as well. Texas A&M and the A&M System are uniquely positioned to make significant contributions in this area. Another issue essential for economic development and national security is energy independence through environmentally sensitive technologies."

Giroir sees unparalleled opportunities to draw upon and combine system resources, from internationally acclaimed faculty and world-class programs in agriculture, veterinary medicine, public health and nuclear engineering in College Station to environmental engineering programs at Texas A&M University-Kingsville and wind power studies at West Texas A&M University in Canyon. Add to that breadth of resources the system’s unique facilities such as the Texas A&M Institute for Genomic Medicine (TIGM), poised to advance medical applications from the human genome project, and Disaster City, a model for studying catastrophic impacts operated by the Texas Engineering Extension Service (TEEX).

“We need to leverage each other’s resources,” says Giroir. “We need to work together better as a system so that we share people as well as resources to really make an impact.” It costs money to do that, so one of Giroir’s priorities is finding more donor support for research, which he says is key to achieving breakthroughs in all fields. "It’s not just about lighter aluminum for your car, it’s really about developing structural nanomaterials for airplanes, and multifunctioning nanomaterials for solar cells and other energy-harvesting applications. It is about revolutionary biomaterials that could be implanted in your body or used to deliver drugs. All these things are expensive and we need to develop systemwide strategies for research and collaboration in order to realize this potential."

When Giroir enumerates the ever-expanding universe of research, he’s like a kid who can barely sit in his chair. More accurately, he’s an artist – of the sciences – filled with passionate visions about the way things could be. Same as when he was at Jesuit High School. But with perspective. "In science you are trained to be a reductionist, but when you get to some point in your career, you realize that reductionism will not solve the bigger problems. You spend the first five to ten years of your scientific career getting more and more specific and then you reverse that and you see how to fit big things together."

“There are no major problems that can be solved by a single department or even a single college. The innovations really occur at the interfaces among disciplines. And we have to do everything we can as a system to break down and smooth out traditional barriers to cross-discipline collaboration.”

Doing “everything we can” starts where it did with Giroir. With finding and nurturing the people who ask questions and can’t stop until they find answers. “Critical needs for research are not just supporting the best and the brightest but supporting the young faculty who will develop into the best and brightest,” he says. "There is such a shortage of emerging scientists, technologists, engineers and mathematicians. We need to go back to our undergraduates and support them so they get hooked on research and fill that pipeline, and we need to go into the underserved communities as well. We have tremendous ability to do that."

“That’s why I’m here. I see incredible capabilities, people who will really roll up their sleeves to try to solve problems and work together. We have an opportunity to make an impact that I don’t see anywhere else.”
Mixing Engineering with Art

By Lloyd Armbrust
A&M System Communications

You'd never mistake the humble administration office in Building C in the Langford Architecture Center on the Texas A&M University campus for a back lot in Burbank, but look again. The brand new Department of Visualization is poised to become a premiere incubator of technology for the stars. For almost 20 years, hundreds of students from various academic fields have been trained in this building to literally shape the face of visual effects in modern filmmaking. They have gone to work for firms like Pixar, Dreamworks and Lucasfilm, and worked behind the scenes in a litany of productions. Most recently, Pixar’s WALL-E listed 22 Texas A&M students in the credits. When visualization – or “viz” as they like to call the discipline – was given its own department in January 2008, both past achievements and future opportunities were forged into one.

You probably wouldn’t be thinking Hollywood if you had walked into Tim McLaughlin’s office earlier this fall, either. The new visualization department head was surrounded by a clatter of unopened boxes during the first month of school. McLaughlin was the first department head to come back to Texas A&M. “At ILM, we were one of the most famous film franchises in history. By the time Star Wars: Episode I came around, I was in charge of managing the ‘zoo’ – or the 60-something digital creatures in the movie.” His role was to take creatures from concept drawings and bring them into the digital realm. “If you imagine a race, I’m the pit crew boss,” he says. “I’m in charge of making sure that the car is built and performs well for the driver – or this case, the animator.”

McLaughlin stayed at Lucas Films for 13 years. “Very few people get to do something that the rest of the world can go see,” he says. It was what inspired him to come back to Texas A&M. “At ILM, we were always involved in doing world-class work, focusing on doing what’s never been done before and at a level that’s the best in the industry.”

“I want to do the same kind of work here,” says McLaughlin. “We’re talking about bringing in undergraduates, making our own department and pushing the master’s program to the next level. This is a truly unique department that offers students things they won’t find anywhere else.”

One of his most ambitious ideas is to offer a Ph.D. in visualization, which doesn’t currently exist anywhere. It won’t be easy. “This is not an inexpensive program to run,” he says. “We provide computing resources, lab space, video cameras and stage space, and there’s only so much of that to go around. But there is a great capacity for growth in graduate programs.”

Entry level Not long after earning his Bachelor of Environmental Design and Master of Science in Visualization Sciences at Texas A&M, McLaughlin went to work for ILM, a division of Lucasfilm. His first assignment put him in the big leagues right away: a technical director for Jumanji. Then he went on to one of the most famous movie franchises in history. “By the time Star Wars: Episode I came around, I was in charge of managing the ‘zoo’ – or the 60-something digital creatures in the movie.”

His role was to take creatures from concept drawings and bring them into the digital realm. “If you imagine a race, I’m the pit crew boss,” he says. “I’m in charge of making sure that the car is built and performs well for the driver – or this case, the animator.”

McLaughlin stayed at Lucas Films for 13 years. “Very few people get to do something that the rest of the world can go see,” he says. It was what inspired him to come back to Texas A&M. “At ILM, we were always involved in doing world-class work, focusing on doing what’s never been done before and at a level that’s the best in the industry.”

“I want to do the same kind of work here,” says McLaughlin. “We’re talking about bringing in undergraduates, making our own department and pushing the master’s program to the next level. This is a truly unique department that offers students things they won’t find anywhere else.”

Faces in the System

Members of the 2008-09 Chancellor’s Student Advisory Board (CSAB) joined members of the Board of Regents and Chancellor Michael D. McKinney (standing, left) at a breakfast in September. The CSAB, created in 1982, provides an avenue for student leaders to address student issues common to all A&M System campuses. Regents pictured above: Standing, from left: Morris E. Foster, fourth; Gene Stallings, fifth; James P. Wilson, eighth. Standing, from right: Lupe Fraga, first; Chairman Bill Jones, second; John D. White, third; Erle Nye, fourth; Student Regent Anthony Collins, seventh. Seated, right: Ida Clement Steen.
WTAMU freshman program inspires

By Rana McDonald
West Texas A&M University

Regalia-clad faculty filled the convocation stage. Freshmen in the West Texas A&M University class of 2012 squirmed in their seats on the floor of the First United Bank Center. Parents and friends who had come for the annual September event chatted in the surrounding stands. Then Valentino Deng, one of the “Lost Boys of Sudan” who survived that country’s bitter civil war, roosted to stand at the podium. He was followed by one more. No one talked. Except for Deng, who looked out over the crowd and began a story that no one should have to tell, but all should hear.

“I walked for hundreds of miles,” he said. “I...
development issues for economic development for The Texas A&M University System. He also serves as the A&M System's initial contact of point of contact for economic development issues and activities, from local to international. He guides ongoing efforts to leverage the economic development resources of the A&M System to benefit businesses, communities, academic and governmental entities.

Dr. Malcom G. “Gyne” Fearnehough was named associate director of the Texas Veterinary Medical Diagnostic Laboratory Museum in 2008. Fearnehough has served as head of diagnostic services for the agency since 2002, coordinating testing and results generated from various laboratories.

Additionally, he served as agency interim director prior to the appointment of Dr. Tammy Beckham in April. TVMDL is one of the busiest full-service diagnostic facilities in the world, handling more than 220,000 cases a year.

Julie Imke was named director of West Texas A&M University’s new Amarillo Center on July 21. The Center is located in Chase Tower in downtown Amarillo. The Center offers 31 selected upper-level and graduate classes. Imke handles the day-to-day operations and provides assistance to students on matters ranging from financial aid to course offerings.

Dr. Theresa A. Maldonado has been named executive associate vice president for research at Texas A&M University and also will serve as the institution’s interim vice president for research. Maldonado previously was the associate dean for research within Texas A&M’s Dwight Look College of Engineering and deputy director of the Texas Engineering Experiment Station (TEES). Maldonado also holds tenure as professor of electrical and computer engineering.

Kyle Smith was named executive associate director of the Texas AgriLife Extension Service on Aug. 1. Smith, a veteran of nearly 36 years with the Texas A&M System, has served as the agency’s associate director for county programs since 1993. As executive associate director, Smith serves as chief operating officer and AgriLife Extension’s second-in-command. He is responsible for developing and coordinating staffing, supervisory and budgetary recommendations for the entire agency.

Dr. Steven H. Tallant assumed his duties as the 19th president of Texas A&M University-Kingsville on Oct. 1. Tallant previously was provost and vice chancellor for academic affairs at the University of Wisconsin-Eau Claire. Tallant was responsible for all undergraduate and graduate academic programs including the direct supervision of four academic dean’s and the dean of graduate studies. He also provided leadership in several restructuring initiatives, including the creation of the College of Education and Human Sciences and the College of Nursing and Health Services.

Jeffrey S. Vitter was recently named professor and executive vice president for academics at Texas A&M. Previously he was the Frederick L. Hovde Dean of the College of Science at Purdue for six years, where he helped develop a new undergraduate core curriculum designed to provide students with diverse education choices and research experiences within their disciplines. Vitter also holds tenure as professor of computer science.

Lt. General Joseph F. Weber, USMC (Ret.), has been named Texas A&M’s vice president for student affairs. Weber served in assignments worldwide with the U.S. Marine Corps, commanding at all levels and in a wide variety of senior staff positions. His primary duties focused on the training, education and readiness of thousands of service members and civilians as well as the responsibility for their health and welfare.

Nancy W. Dickey, M.D., president of the Texas A&M Health Science Center and vice chancellor for health affairs for the A&M System, worked alongside student volunteers and other Health Science Center personnel. Among all of the 44 students in the inaugural class of the College of Nursing assisted patients, and nearly 70 medical students from the College of Medicine worked in various shifts and double shifts.

“For our students, it can never be as rewarding to do a tabletop exercise as it is to actually sit down beside someone and help them work through what to do when you’ve lost everything and you’re not sure where your next prescription refill or even your next meal may come from,” Dickey said. “Every one of our students walked away tremendously fulfilled with the personal stories that are the glue holding all of those exercises together.”

Aftermath: Urban forester Mickey Merritt marks a storm-damaged tree on Galveston Island.

Sea Aggies head inland
In the aftermath of the storm, coastal residents began the grim task of evaluating the damage. In Galveston, buildings were demolished. Roads were inaccessible. There was no power, no water and no timeline for restoration.

At TAMUG’s Mitchell campus on Pelican Island, where most classes are held, damage was reported at several buildings, and more extensively at a small boat basin.

The day after Ike made landfall, administrators at the A&M System, Texas A&M and TAMUG weighed their options. In light of the severe destruction on Galveston Island, and the impact on housing, the prospect of students being able to return to class in Galveston looked bleak. If classes were to resume, it would have to be in College Station, which put into motion a contingency plan developed after Hurricane Rita in 2005.

Led by Texas A&M’s vice president for operations, Dr. Russell Cross, more than 60 administrators, in conjunction with Dr. Bowen Loftin, executive vice president and CEO of TAMUG, began preparations. The massive undertaking included finding housing and classroom space for the students and professors, and helping them adjust to such a change early in the fall semester.

The wide range of students affected worked nonstop to secure housing for more than 1,600 students and 70 TAMUG faculty members. A helping hand also came from the students, faculty and staff at Texas A&M University-Texarkana, who hosted the Sea Aggie Project, which collected school supplies and clothing for TAMUG students. In less than two weeks, Texas A&M welcomed the Sea Aggies to College Station.

“Hurricane Ike was a devastating storm, but we were fortunate—all of our students, staff and faculty members evacuated safely,” said Loftin. “While two of our three locations in Galveston sustained significant damage, we have been able to quickly recover. Most importantly, we have been embraced by our friends and colleagues in College Station who have made it possible for our students to continue their fall semester there.”

Commencement for TAMUG will be held Dec. 14 at the Moody Gardens Convention Center in Galveston. Special guests include Texas A&M System Chancellor Michael McKinney, Board of Regents Chairman Bill Jones and Texas A&M President Elsa Murano.

After the storm
In the weeks following the storm, the Texas Public Works Response Team (PWRT), led by TEEX and sponsored by the Governor’s Division of Emergency Management, worked to restore critical infrastructure. A team of engineers and geologists from across the country, assembled by Dr. Billy Edge, Bauer Professor of coastal and ocean engineering at Texas A&M, conducted a Hurricane Ike damage assessment. The data they collected will be compiled into a report for the American Society of Civil Engineers to help communities rebuild in a way that can minimize future storm damage.

The storm also had a devastating effect on livestock, and many ranchers were in dire need of water and food for the estimated 20,000 head of displaced cattle and horses in southeast Texas. Prairie View A&M University donated more than 100 round bales of hay to Chambers and Jefferson Counties, and also lent portable panels to aid in the retrieval of cattle and horses.

“Our of the devastation left in the wake of Hurricane Ike sprung a spirit of cooperation and support among our system members unlike anything I’ve seen before,” said McKinney. “We took care of each other not because someone gave us that job, but because it was the right thing to do.”

First response: A Texas Task Force 1 swift water rescue crew searches Galveston’s flooded neighborhoods for trapped residents.

Hurricane Ike
continued from Page 1

Mark M. Ellison, former director of the Emerging Technology Program for the office of Gov. Rick Perry, has been named associate vice chancellor for economic development for The Texas A&M University System. Ellison serves as the A&M System’s initial contact of point of contact for economic development issues and activities, from local to international. He guides ongoing efforts to leverage the economic development resources of the A&M System to benefit businesses, communities, academic and governmental entities.

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Entrepreneurship Bootcamp Offers Disabled Veterans Chance to Make Dreams Come True

By Chrystal Houston
Mays Business School
Texas A&M University

John Reed and his family raise horses and cattle on their 30-acre Double R Ranch outside Gatesville, Texas, but for the former Army sergeant, that’s only part of a larger dream. He wants the ranch to become a refuge for disabled veterans and others suffering from physical or emotional trauma. He wants it to be a place of healing.

Reed knows that’s important. Combat injuries from tours of duty in Iraq and Afghanistan left him with hearing loss, damaged knees and severe emotional issues. “I have real bad PTSD (Post-Traumatic Stress Disorder). The only place I feel comfortable is with my animals. I thought maybe that would work for others,” says Reed, who took medical retirement after leaving the service last year.

It wasn’t long before the veteran also realized that his traumas were destroying his marriage. While medical services were available to him, he couldn’t find help for his wife and children, who had to cope with the man who had returned from the battlefield so changed.

The search for answers led Reed to a new program offered at Texas A&M University’s Mays Business School. He joined 15 other disabled veterans to participate in the Entrepreneurship Bootcamp for Veterans with Disabilities (EBV), which offers wounded veterans a crash course in starting and running a successful small business. Donors underwrite all student costs, including travel and lodging.

Modeled after a program launched in 2007 at Syracuse University, the EBV was offered this year in conjunction with Syracuse through the Center for Executive Development at Mays. It also was provided as part of Florida State University. Students completed a three-week online course followed by an eight-day residency at one of the four participating campuses. Business faculty volunteers provide one-on-one mentoring for the following year.

There’s no “typical” EBV student. Ages range from early twenties to early sixties. Some are amputees, some use hearing aids. They represent different ranks, races, genders and education levels, with varying lengths of service in all four branches of the military.

Many, like Reed, plan to help others who have served their country. A number of the business plans at the Mays bootcamp focus on providing veterans’ services, from launching benefits-oriented websites to setting up affordable housing for the disabled.

Many interim dean Ricky Griffin said that partnering with Syracuse in this venture was “the easiest decision I’ve made in the past 15 months as an academic leader.”

In business: Bootcamp participants, such as retired Army Sgt. Maj. David “Ranger” Kiel (middle, back row), came from different backgrounds, with varying lengths of service in all four branches of the armed forces, but were united by their shared experience of military life.

Borlaug Institute Helps Rwanda

Rwanda’s devastated coffee industry is getting a big boost and international attention thanks to the country’s ongoing involvement with a project led by the Norman Borlaug Institute for International Agriculture at Texas A&M University. Since 2001, the Sustaining Partnerships to Enhance Rural Enterprise and Development (SPREAD) project, in conjunction with the Borlaug Institute, has helped tens of thousands of Rwandan farmers increase their income and improve their quality of life.

In 2007, SPREAD and its project partners presented Rwanda’s first national Golden Cup coffee competition. In August 2008, Rwanda expanded its role to host the world-renowned Cup of Excellence. The top 24 winners in the contest, 19 received SPREAD support with quality control and lot creation. Last October, the project hosted a new post-competition online auction that brought in about $500,000. Winning coffees received bids ranging from $4.20 a pound up to $18 a pound.

“SPREAD efforts have lifted the Rwandan coffee industry to the top of its class, and created a model that will serve the Rwandan people for decades to come,” said Paul Katzfey, CEO of Thanksgiving Coffee Company, a California-based specialty coffee roaster. Upcoming SPREAD activities will help some 6,000 small-scale pyrethrum flower farmers thanks to a partnership with S.C. Johnson Company. It also will help another 2,000 Rwandan farmers involved in chili pepper production and processing.

The Borlaug Institute is working with one of the SPREAD project coffee industry partners in the U.S. to bring Rwandan specialty coffee to Texas A&M in spring 2009.

TAMUQ Seeks More Water for the Planet

Important new research at Texas A&M University at Qatar could mean a major breakthrough to alleviate global water shortages. Based on improved technology, the university’s water and environment research group hopes to be able to desalinate inland water with zero discharge of the brackish groundwater that typically accompanies such operations.

The improvement would have enormous implications for inland regions in Qatar and other areas with limited freshwater resources that have urgent need for affordable water supplies to meet growing demands.

The proof-of-concept research study, led by Dr. Ahmed Abdel-Wahab, will be funded by a $420,000 grant from Qatar Science & Technology Park (QSTP).

For coastal areas, disposal of reject brine is a common practice, but it is a major problem for inland plants seeking to desalinate groundwater because of the need to protect surface and groundwater resources. Zero liquid discharge, in which brine is treated to produce desalinated water and essentially dry salt, would greatly increase the potential for recovering previously unusable groundwater reserves.

The Qatar project will focus on developing inexpensive and environmentally benign desalination techniques that will maximize water recovery and minimize the volume of concentrated brine that needs to be vaporized. The process also will conserve water because of high rates of recovery.

In technical terms, the approach involves combining applications of two-stage reverse osmosis with brine treatment processes. This is designed to remove the salts that can foul the reverse osmosis membranes, which tend to decrease water recovery from brine in the second stage.

The desalination techniques are also expected to require much less energy than thermal desalination and provide environmental benign brine treatment and salt management. Additionally, the research will add a commercial incentive as zero-liquid-discharge salt byproducts become a marketable commodity rather than a waste product.

“The advancement of zero-liquid-discharge science and associated reduction of costs will be of tremendous benefit and will alleviate the water supply challenges faced by the state of Qatar and other communities worldwide striving to meet rapidly growing water demands with limited freshwater resources,” said Abdel-Wahab. “Given the need for zero-liquid-discharge technology and the disadvantages of existing methods, it is imperative to find alternative treatment technologies.”
More than 140 members of the U.S. Army’s Wounded Warriors Program at Fort Hood spent a beautiful fall afternoon enjoying burgers, hot dogs and a little lakeside fishing at Reed House on the Texas A&M University campus, guests of Chancellor Michael McKinney and his wife, Lou Ann. Earlier in the day, the soldiers, including Fort Hood’s commander Lt. Gen. Rick Lynch and his wife, Sarah (top right), were guests at Kyle Field as the Aggies defeated Army.

A moving and emotional experience for all, the Reed House visit gave the soldiers, injured in Iraq and Afghanistan, the opportunity to relax in the presence of an A&M System family that truly appreciated their sacrifices and dedication.

Launched in 2004, the Wounded Warriors Program serves more than 2,300 soldiers and their families.