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Buzzin’ the Pi Mile

My 6-year-old son, Tyler, and I ran our first Pi Mile race in April. We didn’t stand out, other than my son completed the race 100 percent under his own efforts — in a time of 37:26 — and I am extremely proud.

I’ve been a “recreational” runner for several years. This was just my son’s second 5K road race. He ran his first 5K last fall as a 5-year-old. He occasionally performed one-mile runs in kindergarten PE and really enjoyed it. That’s where his interest began.

In the Pi Mile, he completed the first 1.5 miles before wanting to slow down and walk. Our routine is to walk portions up hills and run the flats and down hills. In fact, he cranked out the first mile in a time of 10:55. And he toughed out the entire distance of the “big hill” up North Avenue without stopping to walk!

Our real motivation for participating in the Pi Mile was, of course, an opportunity for me, my wife, Amanda, and our sons, Tyler, Tanner, 4, and Tucker, 6 months, to spend an opportunity for me, my wife, my mother, and my father.

Patricia Dabrowski now1,500 miles without stopping to walk! We received the Alumni Association’s inviting travel brochure, but unfortunately my husband, Charles, and I are getting older. We have been married 55 years and I’m sure you can add our college age to that. We will not be traveling again, but we have traveled the world.

One of our fondest memories is an ancient volcano an eclipse of the sun that can only be seen every 100 years. We’ve had Christmas in Switzerland and visited the ancient ruins at Machu Picchu in Peru. We were guests of two

Charles and Mary Byrd visit Cusco, Peru

now Occidental Petroleum Corp.

We’ve been to Greece three times. We’ve played golf in Scotland and been to Australia, many many times. Three years in a row we golfed in Bermuda.

We’ve captured our travels on and slides. It’s been a beautiful

Mary Byrd
Tulsa, Okla.

Defining Who We Are

In the Spring TECH TOPICS there is an article about the results of a survey titled “Who We Are.” As I looked over the list of topics, I saw they were all about money and success.

These are worthy goals, however, are there no alumni who are involved in charitable organizations? Surely among them there are some people of faith, people who give of themselves for others. Human beings are body, soul and spirit.

All of us must define “Who We Are” not only in terms of our accomplishments, but in terms of what have we done for others.

Adding that concept to the survey would have, hopefully, given a more complete picture of the alumni instead of one that seems so self-centered.

Mike Norcom
Clinton, Miss.
SPOOKTACULAR HOMECOMING
FUNTASTIC FAMILY WEEKEND WILL BRING THOUSANDS BACK TO CAMPUS

Homecoming will be spooktacular. Family Weekend will be funtastic. Both events will bring thousands of alumni and families to the Georgia Tech campus. This fall especially, Homecoming will be an occasion for alumni to visit old haunts — it comes on Halloween weekend, Oct. 27-29.

Come September, however, Georgia Tech rolls out the white and gold carpet to welcome the parents and family members of students. On the weekend of Sept. 16-17, families will be given an up-close look at study programs, financial aid and life on campus as well as the chance to ask questions of Dean of Students Gail Disabatino.

Family Weekend will also feature a tailgate event before the Tech and University of Connecticut football game, a reception at the award-winning Campus Recreation Center on Sept. 16 and the opportunity to attend a murder mystery dinner theater on Sept. 17.

During Homecoming, everyone is invited to see what goes buzz in the night at this year’s Haunted Buzz Bash, an all-alumni party in the festival area of Bobby Dodd Stadium’s West Stands. Later that evening, the skies will light up with a spectacular fireworks display.

Homecoming activities also include the State of the Institute address by President Wayne Clough, a slate of stimulating seminars, campus tours, class reunions, the Ramblin’ Wreck Parade, a pregame tailgate on the Tech Tower lawn and a classic Atlantic Coast Conference football game between the Yellow Jackets and the Clemson Tigers.

“We have something planned for everyone,” said Kara Allen, director of events. “Alumni in the classes of 1980, 1965 and 1955 will not want to miss their reunion parties. All other classes are invited to attend Buzz Bash, which will be a blast with the return of the fireworks show.”

Homecoming activities begin with a seminar featuring alumni Larry Huang, an entrepreneur turned racing enthusiast, at 6 p.m. Thursday, Oct. 27 at the Georgia Tech Hotel and Conference Center. Huang, IM 73, is a co-founder of Ciena Corp. and drives a race car bearing the Georgia Tech logo and school colors.

A wine tasting that samples the trends of 2005 in the wine market follows the seminar at 7 p.m.

Alumni will be invited to attend a series of informative and entertaining seminars from 9 a.m. to 3:30 p.m. on Friday, Oct. 28 at Georgia Tech’s Global Learning and Conference Center, which adjoins the hotel.

President Clough will also present the State of the Institute address at 3:30 p.m. in the Global Learning Center. Buzz Bash will begin at 7:30 p.m.

Saturday’s activities begin with the uniquely Tech Ramblin’ Wreck Parade at 8 a.m. along Fowler Street. A pregame tailgate party will be held on the Tech Tower lawn.

Alumni who graduated more than 50 years ago make up the Old Gold Society and will have a postgame reunion at the Alumni/Faculty House. If the football game kickoff, which will be announced later, is after 5 p.m., the Old Gold Society will hold its reunion at 9:30 a.m.

Alumni may register online for all activities at gtaalumni.org/homecoming.

BUZZwords Celebrates 10 News-breaking Years

Ten years ago, the Georgia Tech Alumni Association boldly stepped into the unfamiliar territory of cyberspace and launched its electronic newsletter BUZZwords.

The immediate focus was on the upcoming 1996 Summer Olympic Games in Atlanta and Georgia Tech’s role as home of the Olympic Village.

During the past decade, BUZZwords has covered everything from the anniversary of streaking, hand-wringing over the approaching millennium, a campus stunned by the horror of 9-11 and the observance of President Wayne Clough’s 10 years at the helm of the Institute.

Although its name was changed to BUZZwords, the newsletter was originally called Bee-mail and distributed by e-mail once a week. The launch mechanism was a bit quirky. Copy had to be converted to a text format and routed through a process that fell far short of the definition “user friendly.”

The newsletter’s April 24, 1995, launch carried a “welcome from cyberspace” message by Georgia Tech President Wayne Clough to the initial 2,700 e-mail readers.

“When I started at Georgia Tech way back in 1999, one of the first courses I had to take was how to operate a slide rule,” Clough wrote. “In my senior year, I got to take one of Tech’s first formal courses in using a computer. It was a good thing that I was a co-op student or I would have graduated a year too early.

“I still have my slide rule, but it was one of the first road-kills on the information highway,” Clough said. “As a long-time e-mail user, I appreciate the power of today’s technology and I am glad we are one of the first institutions to use it to connect our alumni to Georgia Tech.

BUZZwords is now distributed on the first business day of each month and goes to 56,000 Georgia Tech alumni and friends.
Connected to Tech

New Alumni Association chair seeks to engage more grads, friends

By Maria M. Lameiras

In his new role as chairman of the Georgia Tech Alumni Association Board of Trustees he assumed July 1, J. William “Bill” Goodhew is committed to the primary mission of the Association as a service for the Institute and its alumni.

However, he said the Association also functions to cultivate future alumni and friends of Georgia Tech.

“We are here to make friends for Georgia Tech. Alumni are our primary mission, that’s what we are here for, but there are other groups we need to focus on as well. Future alumni, young people who need to consider Georgia Tech, parents and friends of Georgia Tech who support the school but who aren’t alumni are all important,” said Goodhew, IM 61.

“Tech has many friends who didn’t go to Tech but who love the school and provide support. Our job is to continue making those friends for Georgia Tech.”

Challenges include engaging an evolving alumni base that is more diverse and alumni from satellite campuses in Savannah, France and Singapore.

“We are evolving as Georgia Tech is evolving and we want to make sure we are doing it right. We are all Tech people and we have to make sure we are doing the right things for those alumni. Our international base is growing and we have to recognize that these are alumni who don’t come to the main campus and who don’t attend football games,” Goodhew said.

“One of the tougher jobs we have is to become involved with the increasing number of Tech alumni who did not get their undergraduate degrees from Tech, but who earned graduate degrees here. It is a popular concept that people have a stronger tie to their undergraduate university than to their graduate university, but if 25 percent of our alumni base is made up of students who were graduate students at Tech, we have to address their needs as well.”

Regardless of what campus or degree program a Tech alumnus went through, Goodhew said the benefits are the same for all.

“The biggest benefit Georgia Tech alumni have is the network of knowing other people who went to Tech in order to make their lives smoother.”

Bill Goodhew wants to serve all Georgia Tech alumni, including those from satellite campuses here and abroad and graduate programs.

Goodhew is a vice president of Intelligent Systems. Previously, he was president of Peachtree Software, which was sold to Automatic Data Processing in 1994.

“E-mail is the least intrusive way to get our message to alumni quickly and it is the most efficient way for them to receive news from the Alumni Association,” he said. “We have to recognize that our alumni are inundated by thousands of messages and we have to keep the Tech message out there for them in a way that is convenient for them.”
Yellow Jackets around the country will spring into action Oct. 8 for the eighth-annual TEAM Buzz community service day.

Last year, more than 3,000 students, alumni and faculty, including members of 40 alumni clubs across the United States, participated in the event, which started as a campus initiative in 1997 as a way to foster good relationships with the communities around Tech.

Past alumni club projects have included building with Habitat for Humanity, sponsoring blood drives, working at food banks and landscaping at housing projects.

“Service to others is an integral part of the Georgia Tech tradition,” said Jane Stoner, senior manager of clubs for the Alumni Association.

“TEAM Buzz provides participants with the opportunity to dedicate their time to service, establish new bonds with their community and celebrate their volunteer experience,” Stoner said.

For information on how to participate in TEAM Buzz events in Atlanta and around the country, visit the Georgia Tech Alumni Association Web site at gtalumni.org or contact Stoner by e-mail at jane.stoner@alumni.gatech.edu or by telephone at (404) 385-2216.

Black Alumni Affinity Organization Chartered

The Georgia Tech Black Alumni Organization was chartered as an Alumni Association affinity group in July.

The purpose of the organization is to promote and facilitate the engagement of black alumni with the Alumni Association and the Institute as a whole in the areas of professional and social networking, recruitment and retention of students, student relations, preservation of Tech’s black history and involvement in Roll Call.

Previous efforts to foster connections among Tech’s black alumni occurred in the 1980s when a Minority Affairs Committee was organized.

“This organization is an evolution of the Minority Affairs Committee,” said Lisa Cupid, ME 80. “GTBAO intends to build on the strengths of the former organization while embracing the contribution that four decades of black alumni have made to Georgia Tech.”

For more information, contact Jeff Colburn, director of Alumni Association Clubs and Groups, at (404) 894-9279 or jeff.colburn@alumni.gatech.edu.
Surrounded with Opportunity
Alumnus gives his time, knowledge to help people, science advance

By Maria M. Lameiras

Growing up in a middle-class family of Czechoslovakian descent in New York City, George Rabstejnek knew what was expected of him, but he also had the support at home to achieve those goals.

Many years later, as a member of the Georgia Tech Advisory Board, Rabstejnek, IE 54, was one of those behind the effort to change the culture at Tech to help the students able to get into the Institute to finish as well.

“We were dedicated to hard work, a sense of responsibility to family and the importance of national values. We went to public schools and we were given a strong work ethic,” Rabstejnek said. “In the summers when other kids were playing baseball, we were doing math problems, although there was plenty of time for sports. We were encouraged to skip grades when possible and I graduated a year earlier than the other kids my age.”

After seeing a poster offering a full Navy ROTC scholarship through the Holloway program for those who could pass a three-hour exam, Rabstejnek jumped at the opportunity.

Several weeks later, Rabstejnek received notice through the mail that he’d won the scholarship. At 17, he enrolled at Georgia Tech.

“I knew of Georgia Tech and I knew the Ramblin’ Wreck song, but I didn’t know a soul in Atlanta,” he said.

He flew to Atlanta, knowing he didn’t have enough money to fly home again until Christmas.

“I’d never been away from home before and it was challenging socially because I had no friends or contacts. I had a long, ethnic last name, a funny New York accent and I was pretty young. To be honest I was miserable. I would have done anything to get out of there,” Rabstejnek said.

“Tech also had a very hostile way of greeting new students. At orientation they told you to look to your left and to look to your right and that only one of you would make it to graduation. It only got worse from there. The academic program started out with physics and math, two programs that were notorious for dropping students out,” he added.

As time went on, Rabstejnek adjusted to life at Tech, enjoying his Navy ROTC activities, as well as joining Phi Kappa Sigma fraternity, serving as chapter president in his senior year. He became involved in many campus organizations and intramural sports, including joining the gymnastics team.

When he graduated in 1954, Rabstejnek was commissioned into the Navy, but immediately took a two-week leave to go to Pittsburgh, where Westinghouse offered him a job that would be waiting for him after he finished his Navy commitment.

“Because of the economy and my own background I knew I didn’t intend to stay in the Navy as a career, but I felt it was practical getting on someone’s payroll because I was told if you were a veteran coming back, you were guaranteed a job,” he said.

He went from Pittsburgh to Pensacola, Fla., for Navy flight training, expecting to serve in the Korean War when his training was complete, but the war ended just about the time he got his wings and he was sent to the Naval Air Test Center in Patuxent, Md.

When he got out of the Navy in 1958, Rabstejnek spent a short time with Westinghouse before taking a job with IBM in Poughkeepsie, N.Y., where he met his wife, Patsy.

From IBM, Rabstejnek was recruited to work for Harbridge House, a management-consulting firm founded at the Harvard Business School that served the government and private industry sectors.

“It was a very, very demanding organization. My first report went to the editorial staff and came back completely covered in red lines. I thought, ‘Oh my gosh, I’m not good enough for this company.’ From then on I would study every comment the editors would make and worked on my writing and analytical skills. Then things began to work very well,” he said. He ultimately became chairman and CEO.

Rabstejnek chaired a study on the strategic mobility of the United States for the Joint Chiefs of Staff that was presented to the president. This led to many programs in airlift, sealift and pre-positioning of military ships.

The then-president of Lockheed Martin and chairman of the Georgia Tech Advisory Board read the study and contacted Rabstejnek to ask him to serve as a trustee on the board.

Rabstejnek agreed and began working with other board members on two important issues: “One, why were we losing so many outstanding students? These students had high SAT scores and straight A’s coming into Tech and they were not making it. Second was addressing the needs of students from minority groups. We were trying to think of ways to provide better support for each individual. We learned a lot from the athletics program, ways of providing tutorial assistance and support to help outstanding people come along,” he said.

“I also suggested, in a challenge to the faculty, that perhaps we were losing students for pedagogical...
Rabstejnek said age doesn’t define him. “We are surrounded with opportunity. Just because you are beyond 65 or 70 it doesn’t mean there isn’t a lot to do.”

reasons. In the days of ‘look to your left, look to your right,’ my question was if we were bringing in three very qualified students, why should two be gone by graduation? It seemed that Tech put hurdles in the way that were so high it was almost an institutional determination to eliminate two-thirds of the class. We tried to stimulate new ideas to encourage and enable people who were intellectually capable of handling the workload and to give them the motivation to succeed.”

Rabstejnek served seven years on the board, including a stint as chairman, and witnessed some major changes to the Institute, including the embrace of strategic planning in all departments.

While on the advisory board, Rabstejnek was chief executive officer of Harbridge and helped oversee the sale of the firm to Coopers Lybrand, now PriceWaterhouse Coopers, in 1994. “It gave me the opportunity to conclude my career with Harbridge House. I wanted to retire at 60, and at 62 I retired for two weeks. That was not satisfactory to Patsy or me, so I thought perhaps I would divide my time and give half to public service and half to consulting, which is not a lot to do,” Rabstejnek said.

“However, at the moment, the opportunity. Just because you are beyond 65 or 70 it doesn’t mean there isn’t a lot to do,” Rabstejnek said. “I suspect you do reach a point where you retire to your home in Cohasset, Mass., Rabstejnek, 73, doesn’t think he will retire to his home in Cohasset, Mass., serving his third year as chairman of the Massachusetts Eye and Ear Infirmary, a Harvard medical school teaching hospital. As a member of Draper Labs, Rabstejnek convinced then-president and chief executive officer, retired Air Force Maj. Gen. Ralph H. Jacobson, to expand the mission of the lab.

Rabstejnek organized a meeting with the president of Massachusetts Eye and Ear Infirmary, which led to a discussion of Draper’s microelectronics technologies and helped Rabstejnek form a Neural Prosthesis Research Center exploring the use of microelectronics to perform neurological functions and led to the development of an improved version of the cochlear implant, a retinal implant, vestibular stimulation devices and voice prostheses.

Although he is in his final year as chairman of Massachusetts Eye and Ear, Rabstejnek, 73, doesn’t think he will retire to his home in Cohasset, Mass., when his term is done. “We are surrounded with opportunity. Just because you are beyond 65 or 70 it doesn’t mean there isn’t a lot to do,” Rabstejnek said. “I suspect you do reach a point where you are not contributing as much as you would like, and you must be sensitive to that. However, at the moment, the intellectual challenges and prospects for technological contributions to mankind are enormous and it is a privilege to have the opportunity to participate.”

GT
Highest Honor

Three professors invited to White House to receive awards

Three Georgia Tech faculty members have received 2004 Presidential Early Career Awards for Scientists and Engineers, the nation’s highest honor for professionals at the outset of their independent research careers.

In June, professors Ali Adibi, David V. Anderson and William P. King were honored at the White House in a ceremony presided over by John H. Marburger III, science adviser to the president and director of the office of science and technology policy.

The awards, established in 1996, honor the most promising researchers in the nation within their fields. Eight federal departments and agencies annually nominate scientists and engineers to receive up to five years of funding to further their research in support of critical government missions.

Adibi, an associate professor in the School of Electrical and Computer Engineering, was nominated by the Department of Defense for his research contributions to optical storage by exploring two-center holographic recordings and to chip-scale all-optical information processing modules by investigating wavelength crystals and nanophotonic approaches.

Anderson, an assistant professor in the School of Electrical and Computer Engineering, was nominated by the National Science Foundation for pioneering the design of embedded signal processing and control systems that perform significant processing in analog as well as digital circuits. This research in cooperative analog-digital processing is enabling potential advances in low-power embedded systems and smart sensors, such as assistive devices for the hearing impaired. Anderson’s work is being integrated into an online master’s design program and into outreach courses for practicing engineers and system designers from industry.

King, an assistant professor in the Woodruff School of Mechanical Engineering, was nominated by Sandia National Laboratories, a Department of Energy National Nuclear Security Administration Defense Programs Laboratory, for his work on heat transfer and thermomechanical processing at micrometer- and nanometer-length scales and for his innovations in nanomanufacturing. The award cited the importance of his research for homeland defense and nuclear security, as well as for the impact his work has had on the commercialization of nanotechnology.

PECASE winners are chosen from among professors who received NSF CAREER awards in the past year.

This year, five Georgia Tech assistant professors received CAREER awards — Frank Dellaert, computing; Roshan Vengazhiyil, industrial and systems engineering; Samuel Graham, mechanical engineering; Milos Prvulovic, computing; and Monica Gaughan, public policy.

Tech now has 101 CAREER award winners and is second in the country behind the University of Illinois, according to Sandi Bramblett, director of Tech’s office of institutional research and planning.

Alumna Named Athletics Director

Mary McElroy, MBA 00, was named director of intercollegiate athletics at Georgia State University in July, joining a select group of women charged with managing NCAA Division I athletics programs.

McElroy previously served as Tech’s senior associate director of athletics and senior woman administrator.

McElroy said her job will be a challenging one.

“We have 17 varsity programs and we are studying adding football.”

McElroy, who earned a bachelor of science degree from the U.S. Naval Academy in 1987, came to Tech in September 1999 as a graduate student. She joined the athletics staff the following June.
Ivan Allen College Dean Sue Rosser addressed the dramatic decline in the number of women pursuing degrees in information and computer technology at a Baltimore symposium in June.

“Women’s interest has reached the lowest level ever, with only 0.3 percent of incoming freshmen women in 2004 expressing an interest in majoring in computer science. This represents an 80 percent drop between 1998 and 2004,” Rosser told the group of more than 250 women who gathered for the symposium organized by the University of Maryland, Baltimore County’s Center for Women and Information Technology.

Rosser said the conference had been in the works for a year and a half and was not staged in response to controversial comments made in January by Lawrence Summers, the president of Harvard University.

The Ivan Allen dean was in the audience when Summers, speaking at a National Bureau of Economic Research conference, said innate differences between men and women might be one reason why fewer women succeed in science and math careers.

According to The Boston Globe, at least one woman, a biologist from MIT, walked out during Summers’ speech.

A Baltimore Sun reporter asked Rosser in June what she thought of the Harvard president publicly questioning the abilities of women.

“Those words could only serve to discourage young women who might have wanted to go into science and engineering fields,” she responded.

It’s going to take more than words to erase the trend in technology fields. Rosser said university curriculums need to be rewritten.

“Broadening the ICT curriculum to present a wider view of ICT and its uses, with examples that center on humans, life and animals is likely to appeal more to women,” Rosser said in her speech. “For example, the introductory course developed by Mark Guzdial at Georgia Tech in which students dissect a computer-animated scene of wildebeests charging over a ridge from ‘The Lion King’ particularly appeals to women.”

Rosser traveled to Baltimore to participate in the creation of a five-year plan to help women around the world gain greater access to — and leadership in — information technology careers.

She wrote “The Science Glass Ceiling” last year to identify obstacles that prevent women engineers and scientists from advancing in university faculty ranks. Rosser also is involved in two National Science Foundation programs that fund and support female faculty, ADVANCE and Professional Opportunities for Women in Research and Education.

Rosser said women who do find work in information technology are “concentrated in the lowest-paid positions, closest to the most tedious, hands-on making of the products and furthest from the creative design of technology.”

“Men predominate in the decision-making, creative design sectors as venture capitalists, computer scientists and engineers producing start-ups, new software and hardware design.”

Removing barriers which prevent equal access for women to information technology jobs not only provides economic equality but also provides access to higher-paying jobs for women,” Rosser said.

Although technology has enabled women to connect to their employers from home, telecommuting may not be the best career move.

“The flexibility and casualization of the work force which telecommuting permits may hurt wages, benefits and long-term stability overall. Although it creates and/or increases the double burden for women who can mind children while working at home, some women prefer this option to no work at all,” Rosser said in her speech.

She said curriculum progress is being made at Georgia Tech and that new computational media and human-computer interaction programs at the Institute have more appeal to women.

In her speech, Rosser explained why interaction is an important factor to consider.

“The men design hardware systems in ways reflective of their perspective on the world, which tends to place priority on data and ignore relationships between people. Women, socialized to value connections and relationships, tend to feel uncomfortable with the hard-systems approach and as users find that the technology fails to aid much of the real world work. The design inhibits or fails to foster good teamwork and other co-worker relationships. Because the design does not reflect their view of priorities in the organization and work, and actively ignores the reality of power and gender relations, women tend to be excluded, and exclude themselves, from hard-systems design.”

A

Anuja Elizabeth D. Mynatt, an associate professor in the College of Computing, was named director of the Graphics, Visualization and Usability Center effective July 1, and also chosen a “Top Innovator” in technology by Atlanta Woman Magazine.

Aaron Bobick, former GVU director, is chair of the Interface Computing Division in the College of Computing.

Mynatt, MS ICS 89, PhD 95, brings “an incredible breadth of experience to GVU,” said College of Computing Dean Rich DeMillo.

She is an internationally recognized expert in the areas of ubiquitous computing and assistive technologies — examining the social and design implications of having computer technology continuously present in aspects of everyday life. As one of the principal researchers in the Aware Home Research Initiative, she investigates the design of future home technologies, especially those that enable older adults to continue living independently as opposed to moving to an institutional care setting.

“Over the last decade a lot of people have studied ways to make information technology more ‘user friendly,’ but Beth was the first to ask how technology would change if we started with the needs, desires and limitations of human users. You can see her influence everywhere as she has had a transformational effect on the field,” DeMillo said.

Mynatt also has played a pivotal role in creating Tech’s new PhD program in human-centered computing, which brings together studies in human-computer interaction, learning sciences and technology, cognitive science, artificial intelligence, robotics, software engineering and information security.

Mynatt was one of 10 metro Atlanta women featured as “Top Innovators” in the July/August issue of Atlanta Woman Magazine.

“Having a fundamental role in creating the new HCC PhD program here at Tech is among the accomplishments I’m most proud of,” Mynatt said. “As GVU director, I can continue to shape and increase positive opportunities for students and get excited about the impact we are having on various populations using technology.”
CULTURAL BASTILLE

Ferst Center foments a student invasion

By Karla Jennings

For many students, the Robert Ferst Center for the Arts is a red brick Sphinx crouched above the campus green. Few enter its domain, considered an elitist venue for an older off-campus crowd that can afford, say, $50 a ticket to hear violinist Pinkus Zuckerman.

Ferst Center artistic director Jay Constantz is demolishing that perception by enticing students to take over this cultural Bastille. He’ll stop at nothing to do so, bringing in Russian country/western singers, Chinese ballet dancing to Pink Floyd, whatever convinces students that the Ferst serves them.

Since arriving in 2002, Constantz has listened to individual students and focus groups, responding with innovative programming that’s almost doubled student attendance, from 1,177 in the Ferst’s 2001-02 season to 2,120 in 2004-05. Still, that’s only 13 percent of the student population. He estimates it will take a decade to make the Ferst the cultural nexus for all students.

Constantz said arts-savvy students aren’t just better scholars, they’re better leaders. He is developing tomorrow’s nonprofit leadership.

“If you look at any board of any nonprofit in the city of Atlanta, odds are you’ll find a Georgia Tech graduate,” he said. “Georgia Tech develops some of the better nonprofit leaders because they’re entrepreneurs, they know how to look at something from different perspectives, to figure out how to make it work.”

He cites the Metropolitan Atlanta Arts Cultural Commission, The Atlanta Opera, Woorduff Arts Center and the Alliance Theatre as important institutions with boards that include Tech graduates and adds that other nonprofits such as libraries and hospitals also depend on Tech grads for leadership.

This follows Tech President Wayne Clough’s dictum that exposure to the arts is vital for students to become well-rounded citizens. Arts experience makes students smarter, more sophisticated, more imaginative, more understanding of human nature and more successful at whatever they pursue in life, Constantz said.

When Constantz took over the job, his predecessor told him that “his only problem was that his students kept taking the equipment apart and trying to rebuild it to make it better.” Constantz’s greater concern is that Tech students are a hard audience to sell, noting that “an engineering and science campus does not necessarily focus on the new arts.”

He has experience dealing with tough sells. After 15 years as the Fox Theatre’s assistant general manager, he ran Midtown’s First Night (a family-friendly New Year’s Eve celebration), then took over Miami’s Bayfront Park Management Trust. The trust was intended to turn a crime-ridden park into a safe and popular public area, but it had sunk $500,000 in debt. In two years, Constantz not only erased the debt, but made a profit, turning Bayfront Park into an artistic and commercial success.

He took a salary cut to come to Tech. “I love this,” he said, “the idea that I get to bring in artists that the students are interested in seeing and help them develop a taste for the arts.”

He’s approached about 100 times a year by performing arts companies, of which about 25 will reach the stage at Ferst. He seeks student-friendly shows that fit the 1,100-seat Ferst. For instance, intimate dance numbers or small, nonmusical plays would get lost in its cavern, while names such as Josh Groban, who can sell out Philips Arena, are unfathomable.

He has plenty of exciting performers to choose from. This fall he’ll bring The 5 Browns — five Juilliard-trained brother-and-sister classical pianists who are all in their 20s. Another booked musician is renowned Chinese pianist Lang Lang, also in his early 20s, while the Beijing Modern Dance Company will perform “Rear Light,” based on the music of Pink Floyd’s “The Wall.” The Russian country/western/pop group Bering Strait will perform in March.

Constantz wants to unite students with the arts community through free workshops offered to various campus groups. The Beijing Modern Dance Company and the Atlanta Ballet may offer master classes in dance, while the London/New York-based Aquila Theatre drama troupe, which performs at the Ferst in February, will offer a student acting class at DramaTech, the student theater.

Constantz firmly believes in freedom of speech and artistic expression and he takes risks on shows. Comedians appearing at the Ferst often treat adult topics with adult language, while the tango dance troupe Julio Bocca and Ballet Argentino, which performs in February, features men dancing with men and women dancing topless.

What Constantz said he ultimately wants is for students to feel comfortable taking chances on new art. He cites one student who met his girlfriend at a show at the Ferst and later rented the entire facility so that he could propose to her there.

Now that was someone who felt at home with the Ferst.
Designing Minds

Tech construction ‘huge catalyst,’ garners 20 top awards

By Karla Jennings

During the past decade, Georgia Tech has undergone a phenomenal construction boom that has transformed the campus, a transformation that has garnered 20 new facility awards — 12 of them national.

The transformation was ignited by Atlanta winning the bid to host the 1996 Summer Olympic Games and Georgia Tech being designated home of the Olympic Village.

In addition to creating a housing boom to accommodate the Olympic athletes, and later Georgia Tech students, Alexander Memorial Coliseum was gutted and completely renovated, and an aquatic center, acclaimed as one of the “most attractive and technologically advanced international swimming facilities in the world,” was built next to the Student Activity Center for Olympic swimming, diving and water polo competitions.

Post-Olympic plans called for enclosing the aquatic center and President Wayne Clough appointed a Student Activity Center 2 committee to redesign the facility.

“The whole idea was that the aquatic center would be the anchor,” said Mike Edwards, SAC2 committee chair.

Seven years later, the Campus Recreation Center opened its doors. Designed by the St. Louis firm of Hastings & Chivetta, the 300,660-square-foot CRC is opulent, with a fifth-floor indoor track, a 15,000-square-foot fitness center with cardiovascular equipment, cable television, the Olympic pool and hot tub and a 184-foot water slide.

“Club Tech,” as students quickly nicknamed it, cost $45 million. Not a penny was from the state. Most funds came from alumni donations, student fees and CRC memberships (open to students, staff, faculty and visiting alumni). The CRC received the Recreation Management magazine’s 2004 Outstanding Facility Award, the National Intramural & Recreational Sports Association 2005 Outstanding Sports Facilities Award and Building Design & Construction magazine’s 2005 Gold Award.

“We are setting monthly visit attendance records like crazy,” said Edwards, who is now Tech’s director of campus recreation. The CRC’s visitors jumped from 372,400 in 2003-04 to 550,600 in 2004-05.

Across campus, a more discreet award winner dwells within the J.S. Coon’s Edwardian facade, which conceals an extensive renovation.

“Our biggest challenge was in unifying a facility that had been designed in bits and pieces,” said principal architect Andy Akard of Atlanta’s Jова/Daniels/Busby Architects. Partner Stanley Daniels is a 1960 architecture grad.

A century of stop-gap renovations had connected disjointed floor levels and an inner wve. The architects wanted to preserve the building’s historic integrity while incorporating modern amenities and accommodating the needs of two different departments.

The building was gutted but retained its cast-iron central staircase and architects turned the weve into a 10,000-square-foot addition, converting the shop wing into offices and a mezzanine. In recognition of its elegant solutions, Jова/Daniels/Busby received the American School & University 2003 Architectural Portfolio citation for Educational Design Excellence in Outstanding Buildings (renovation/modernization category).

Across Midtown’s Fifth Street Bridge is a steel-ribbed glass prow that encloses a staircase serving Technology Square, Tech’s $122 million Midtown flagship. Since opening in 2003, Technology Square has received more than a dozen awards, including the Urban Land Institute’s 2004 Development of the Year, the Local Project of Excellence award and the U.S. Green Building Council’s 2003 LEED Silver Certification.

The five-building complex covering 1.1 million square feet was designed by Atlanta’s Thompson, Ventulett, Stainback and Associates architectural firm, a project spearheaded by Thomas Ventulett, BS 57, Arch 58. Homer “Bo” Crum, Arch 67, was the square’s senior principal architect. Their challenge was to turn three blocks of Midtown decay into a vital technology nexus.

“The I-75/85 expressway was serving as a river,” Ventulett said. “It just divided the campus from the city.” There was nothing on the asphalt river’s east bank but decaying buildings marooned in spindly weeds. However, potentially lucrative Midtown collaborators such as BellSouth and Turner Broadcasting beckoned beyond the wasteland. Tech planners also wanted to create a desperately needed student social center.

In architectural jargon, establishing a Tech presence in Midtown required “engaging adjacent properties.” Ventulett said the challenge was to “harmonize an academic campus with a rundown neighborhood. What from the neighborhood do you focus on to create that harmony?”

The focus became the Biltmore Hotel, a historical anchor serving as the visual fusion point for the anchor of Technology Square.

“It has a good focus as you’re looking east on Fifth,” he noted. “Even the materials of brick and limestone became an influence. They became the principal materials. The limestone is a natural-made material, the brick is handmade. It gives an immediate, naturalistic, humanistic scale.”

The firm created a dynamic pedestrian magnet at Spring and Fifth streets. “We moved the buildings back,” Ventulett said. “We gave up space to have parallel parking. When you do that, you immediately begin to animate the street. And when you’ve got food, it’s open both day and night.”

Every resident business or department at Tech Square synergizes with the whole, including a hotel/conference center, the Advanced Technology Development Center, College of Management and Georgia Tech Foundation. Planners moved Tech’s bookstore to the square along with eating establishments and sidewalk-shading trees.

“What I like to think about is the future of it — it’s just going to get better,” Ventulett said. “It’s a huge catalyst for all kinds of great things for Midtown.”

White-and-gold Tech trolleys shuttle between Tech Square and the CRC, passing by other award-winning facilities — the Structural Engineering & Material Research Laboratory, Ford Environmental Science & Technology Building, U.A. Whitaker Biomedical Engineering Building and the Manufacturing Research Center. For students beginning their metamorphoses into tomorrow’s engineers and leaders, the buildings they see as they ride past are reminders that excellence requires more than textbook knowledge. It requires strong vision and outstanding design.
Y Libraries

Today’s college students want ‘collaborative centers’

By Kimberly Link-Wills

Library designs for the Y Generation focus more on computer workstations and Internet connections than card catalogs and reference books.

Stanley Daniels, Arch 60, designs libraries for colleges throughout Georgia. He says although Americans born after 1976 turn to a library’s technological capabilities, books and the shelves that hold them will not disappear.

Daniels and colleague Roy Abernathy of the Atlanta architectural firm Jova/Daniels/Busby delivered a Power Point presentation on designing libraries for the Y Generation to the American Library Association at its national convention in Chicago in June.

“Library is not just a place for books but an information center,” said Daniels, who explained that Y Generation college students — lifelong users of computer technology — learn differently than the Baby Boomers who turned to alphabetized World Book encyclopedias.

According to the ALA presentation, the first members of Generation Y were born at about the same time as the first personal computer and they have “a different mind-set” from even the Generation Xers who came before them.

Daniels and Abernathy cited examples of how Generation Y has that different mind-set. “There has always been MTV, they don’t have a clue how to use a typewriter, they have never owned a record.”

Y Generation libraries, they said, must be inviting as a place to learn and grow, create engagement and provide choices.

“The main level of the library has been transposed, but the stacks are still there. Will books become obsolete? No, there’s just a wider range of choices,” Daniels said. “The Y Generation may be more comfortable researching online than flipping through a book. They’ve grown up with technology.”

Daniels also designs law offices and has seen the effects of technology-based information in that realm as well. “The reference books are online rather than physical. Law firms used to have a lot of emphasis on their libraries. They were centerpieces representing the firm’s abilities. You don’t see the law library now. That information is online,” Daniels said.

While college libraries offer online reference materials, they need to be “collaborative centers,” Daniels said, pointing to a research study at Emory University’s library that showed students moving the furniture around to facilitate a study group — and provide an opportunity to socialize.

“Multitasking is endemic with this generation,” he said.

That multitasking is one reason why some college libraries are now offering food and drinks and places for conversation.

At Georgia Tech, Jazzman’s Cafe, a chain coffee house that also sells sandwiches and salads, will open along with the rest of the renovated east commons by the end of the year.

Located on the east side of the library’s first floor, the commons did house a reading lounge, periodicals and a computer cluster. The revamped commons will include group computer workstations, areas for reading and display spaces for student art and winning design projects. The reading area also will have the capacity to be transformed into a 150-seat theater space.

In 2002, the west commons was overhauled and now features 100 computers as well as scanners, video capturing and editing equipment and Web development tools.

Daniels urged ALA convention-goers “not to resist the change” in library design in order to better serve the Y Generation.

“Books are not going away,” said, must be inviting as a place to learn and grow, create engagement and provide choices.

TheHill

U.S. Innovative Edge at Risk

The United States is experiencing global competition, especially from Asia, that is challenging its innovative edge in science and technology. Speaking at the American Chemical Society’s 229th national meeting in San Diego in the spring, Diana Hicks, professor and chair of Georgia Tech’s School of Public Policy, said many foreign governments have been strengthening their educational and research programs. As a result, the gap is closing between the United States and its overseas competitors, with Asian countries — China, South Korea, Japan, Taiwan, Singapore and India — showing particular gains.

“Will the United States own the technology of the future? Probably not all of it and only if we compete harder to maintain our current position,” Hicks said.

The number of researchers in Asia has grown rapidly as more Asians, especially the Chinese, earn doctoral degrees. At the same time, the number of U.S. citizens pursuing doctoral degrees has been decreasing.

In addition, the number of Asian students studying for doctoral degrees in the United States dropped 19 percent in just four years, 1994 to 1998. That’s disturbing because those students had helped make up for the dearth of U.S. born students enrolled in science and engineering, Hicks said. Foreign students often remain in the United States for research jobs, contributing to the nation’s knowledge base.

From 1995 through 2001, China, South Korea and Taiwan increased gross research and development spending by about 140 percent, while the United States increased its investments by only 34 percent.

Another disturbing signpost, she said, is that 68 percent of all domestic research and development money in the United States now comes from the private sector. Nearly three-fourths of this money goes toward development instead of basic research, in which researchers try to gain greater knowledge of a subject without specific applications in mind.

“Basic research is important because it sets up the country for the next generation of technology so we don’t run out of innovations,” Hicks said. “Funding basic research is the role of the public sector, and yet federal spending for basic research in engineering and the physical sciences has shown little or no growth in the last 30 years.”

Since 1988, the number of U.S. patent applications for innovations originating in Asia increased 789 percent. In contrast, U.S. patent applications for homegrown technology grew at a rate of 116 percent.

The United States’ share of science and engineering papers published worldwide fell from 38 percent in 1988 to 31 percent in 2001. Western Europe, which evidenced a 36 percent share in 2001, now one-ups the United States. During the 1988-2001 period, Asia’s share of published papers grew from 11 percent to 17 percent.

Although scientific papers don’t always have immediate commercial applications, they remain an important measure of our knowledge base, Hicks said.

“It’s a sign that you have highly skilled people who are producing the necessary knowledge for later applications,” she said.

Yet in the late 1990s, the actual number of published papers from U.S. researchers also began to wane, which is startling, Hicks said.

“The number of pages in journals like Nature or Science can only grow so fast. If Asian and European nations increase their scientific capability faster, they crowd out some of our efforts, which reduces the perceived achievement of younger U.S. scientists. Although U.S. researchers will work far harder than previous generations, they will not command the same dominating position in world science as did their predecessors.”

A member of the Task Force on the Future of American Innovation, Hicks spoke recently in Washington, D.C., where the coalition of business and academic leaders called for increased federal spending for basic research.

“We’re still a very competitive country, but it’s important to look at the long-range implications of these benchmarks. Maintaining our leadership role in science and innovation is critical to economic strength and national security.”
Taking the Helm
Chou appointed chair of School of Physics

As the newly seated chair of the School of Physics at Georgia Tech, Mei-Yin Chou is focusing on growth. Chou, a professor of theoretical condensed matter physics, hopes to institute a biophysics program and expand the School of Physics faculty from its current 27 members to about 40 within the next seven years.

“Physics must continue to play a vital role in the institutional development of Georgia Tech by performing frontier research and by providing an outstanding educational environment,” Chou said.

“Our strengths are that we have very good faculty members and scientists. This is a good intellectual group. We want to improve the community so faculty and students will feel this is a productive environment,” Chou said. “I’m a strong believer that the whole is greater than the sum of its parts.”

Chou, who earned her doctoral degree at the University of California at Berkeley, received research fellowships from the Alfred P. Sloan and David and Lucile Packard foundations. She also is the recipient of the Presidential Young Investigator Award from the National Science Foundation and the Sigma Xi Young Faculty Award from Georgia Tech.

“In the past, the traditional way of looking at bio-related phenomena has been by using the biologist’s point of view,” Chou said. “But there’s a way physics can contribute, mainly by using experimental techniques developed for physics as well as applying methods in theoretical physics to the study of biological systems.”

Former chair Ron Fox remains at the School of Physics as a Regents professor.

Distinguished Professor
Furst gets College of Computing faculty designation

Merrick Furst, associate dean of undergraduate programs for the College of Computing, has been named Georgia Tech’s first distinguished professor of computing.

The new academic designation recognizes exceptional faculty in strategic fields. The College of Computing will establish only two of the distinguished professorships, the equivalent of an endowed chair.

Before his arrival at Tech in 2002, Furst was a computer science professor at the University of California at Berkeley, where he served as president and director of the International Computer Science Institute and helped establish its Center for Internet Research.

Furst previously was a professor and associate dean of computer science at Carnegie Mellon University, co-founded its master’s program in computational finance and founded Andrew’s Leap, a summer program for academically talented high school students.

He is recognized for his seminal research in algorithms, complexity theory, artificial intelligence planning, machine learning and cryptography. Furst co-invented probabilistic circuit analysis and is the originator of modern research in artificial intelligence planning, which is based on the application of planning graphs.

Furst has published more than 25 articles and books, received three U.S. patents and the first Presidential Young Investigator Award and created several commercially successful software artifacts.

As the College of Computing’s associate dean for undergraduate programs and faculty development, Furst has created a freshman seminar series, is revamping the undergraduate computing programs and is advancing research in Internet systems.

Logistics Institute Recognized Third Consecutive Year

The Logistics Institute, a collaboration between the National University of Singapore and Georgia Tech providing research and education programs in global logistics, has won accolades for the third consecutive year.

Located on the NUS campus, The Logistics Institute-Asia Pacific was given the “Best Education Course Provider” title at the 2005 Asian Freight and Supply Chain Awards in Hong Kong.

Widely regarded as the most authoritative and prestigious for the cargo industry in Asia, the awards recognize excellence in companies from Europe, North America, the Middle East and Asia in 41 industry-specific categories.

The Logistic Institute provides logistics expertise for industries focusing on global logistics, information technology, industrial engineering and supply chain management.

Executive Assistant
Sue Ann Bidstrup Allen, a professor in the School of Chemical and Biomolecular Engineering for the past 17 years, stepped into the role of executive assistant to the president on June 1. She replaces Gary May, who was named the Steve W. Chaddick chair of the School of Electrical and Computer Engineering.

Wayne Clough said Allen has an outstanding record as a faculty member and administrator. “Her experience, understanding of the Georgia Tech culture and her excellent people skills make her an ideal choice.”

Striking Gold
Father-son research team looks at cancer detection in white light

Georgia Tech chemistry professor Mostafa El-Sayed and his son, also a medical researcher, have discovered that binding gold nanoparticles to a specific antibody for cancer cells could make disease detection easier.

“Gold nanoparticles are very good at scattering and absorbing light. We wanted to see if we could harness that scattering property in a living cell to make cancer detection easier. So far the results are extremely promising,” said El-Sayed, who published the findings with son Ivan El-Sayed, an assistant professor of otolaryngology at the University of California, San Francisco Medical Center, in the May 11 edition of the journal Nano Letters.

Many cancer cells have a protein, known as an epidermal growth factor receptor, all over their surfaces, while healthy cells do not express the protein as strongly. By binding the gold nanoparticles to an antibody for the epidermal growth factor receptor, the researchers were able to get the nanoparticles to attach themselves to the cancer cells.

“After we added the nanoparticle-bound antibody to cells, using a simple technique known as darkfield microscopy, we saw the cancer cells light up under the microscope,” said Ivan El-Sayed. “The healthy cells don’t bind the particles well and are dark compared to the cancer. Since the particles have color, we can test multiple antibodies at the same time with a white light.

“Using simple optics, we can develop low-cost techniques for rapid automated detection of cancer in biopsies. Further, we hope to use the scattering and absorption properties to develop techniques to detect cancer in humans without a biopsy.”

Mostafa El-Sayed said the results are instantaneous. “If you take cells from a cancer-stricken tissue and spray them with these gold nanoparticles that have this antibody, you can see the results immediately. The scattering is so strong that you can detect a single particle.”

Ivan El-Sayed added, “Our findings also have strong implications for this technique’s value to cancer research. By watching the particle change colors in living cells, we can identify molecular interactions within the cells. This may help us unravel the inner workings of a cancer cell and produce better treatments.”

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Visionary Leader

Don Chapman personifies entrepreneurial spirit

By Gary Goettling

Don Chapman has started, headed, bought or sold more than 20 companies, including the Opti-World chain of vision-care stores and Tug Manufacturing, which produces ground-support equipment for airports. And yet, like the true entrepreneur he is, Donald L. Chapman still isn’t ready to declare success.

“I’m not ready to quit,” said the 1961 industrial management graduate from Georgia Tech, “so I don’t know that I consider myself successful yet.”

His latest venture is ChapCo Investments, a printing press brokerage and real estate and technology investment company he serves as CEO and chairman.

“It’s a lot of fun for me,” said Chapman of his entrepreneurial career. “I love what I do and wouldn’t want to do anything else. The most boring thing in the world to me would be a desk job with some big company.”

Another important chairmanship Chapman holds is on the board of the Georgia Tech Foundation. His two-year term started in July following stints as a Foundation trustee, treasurer, vice chair and chair-elect.

“This is an important time for Georgia Tech as Tech becomes the global university,” Chapman said. “The Foundation’s role, as always, will be to support and advise the Tech president. And there will be a lot going on over the next two years. We’ll have important things to do.”

Chapman’s supporting role at Tech is the latest in a long list of volunteer activities on campus. A Roll Call contributor for the past 34 years, he is a past president and trustee of the Alumni Association and has served on the Ivan Allen College Campaign Steering Committee, the Student Success Center Major Gifts Committee and advisory boards for both the College of Management and Georgia Tech.

He has been an Alexander-Tharpe Fund contributor for 22 years and once served as the fund’s vice president and as a board member of the Athletic Association.

“Georgia Tech did a lot of good things for me, so I’m paying back a debt I owe,” he explained.

In 2002 Chapman received the Joseph M. Pettit Alumni Distinguished Service Award, the Alumni Association’s highest recognition for service. He was also the first recipient of the Alumni Association’s George Griffin Community Service Award, presented to him in 1993.

His community involvement extends well beyond North Avenue. Chapman is former chairman of Leadership Atlanta and has worked with various diverse civic and community organizations, including the Georgia Society to Prevent Blindness, the Metropolitan Atlanta Chamber, United Way, the Georgia Public Policy Foundation, the Community Foundation, the Chief Executives’ Organization and the Atlanta Association for Retarded Citizens.

More recently, he was appointed by Gov. Sonny Perdue to represent the Fifth Congressional District on the State Board of Technical and Adult Education, serving on the Economic Development Committee and chairing the Operations and Management Committee.

Chapman and his wife, Beverly, have three children and five grandchildren.

As an Air Force ROTC student at Tech, Chapman was president of Beta Theta Pi fraternity, president of Phi Delta Epsilon honor fraternity, business manager of The Rambler magazine, a member of Omicron Delta Kappa and a member of the Scabbard and Blade military honor society.

After graduation, he was commissioned a second lieutenant and served three years in the U.S. Air Force.

Chapman’s first job after leaving the military was with Oxford Industries as an assistant to the vice president.

“I got all of the difficult assignments,” Chapman remembered. “It was quite a valuable learning experience.”

Chapman worked his way up to a position as divisional manager for Oxford, but the seed of entrepreneurship had been planted.

In 1974 Chapman joined forces with a private investor named Tedd Munchak. The partners bought low-performing companies with growth potential and managed them to financial health, then sold them.

His latest venture, ChapCo Investments, is a good example of Chapman’s approach. The company’s sales were about $700,000 annually when it was sold to Chapman and Munchak in 1977. When the company was sold 21 years later, annual revenues topped $50 million.

Patience, an eye for the long term and building companies with solid value, as opposed to aiming for a quick profit, are hallmarks of his business philosophy, according to Chapman.

“The entrepreneurship world is all about leadership,” he said, adding that success means “caring about your people first and your customers second.”

The most familiar of Chapman’s companies was Opti-World, a one-stop vision and eyewear franchise he and his partners founded in 1983. Opti-World grew to 61 Southeastern stores before it was sold to LensCrafters in 1995.

Business Atlanta’s 1989 Entrepreneur of the Year, Chapman received the Atlanta Chamber of Commerce’s Phoenix Award in 1992 and 1997.

“I’ve had a pretty good ride — aided by some outstanding mentors and great associates,” he said.
Giving Back

Woodruff Foundation Takes Lead in Support of Nanotechnology

The Robert W. Woodruff Foundation has pledged $5 million for construction of the Nanotechnology Research Center at Tech.

The facility already has a matching commitment of $45 million from the state of Georgia contingent on the Institute providing $35 million toward the project. With the Woodruff Foundation’s lead commitment, a total of $30 million in private funds remains to be raised.

The Nanotechnology Research Center will have 30,000 square feet of clean room research space, which will make it one of the nation’s largest clean room facilities, an essential element of nanotechnology research. The facility is designed specifically to support interdisciplinary research, applying nanoscience and nanotechnology to many disciplines including biotechnology, and offer access to researchers from universities and industries in the region, helping to create new nanotechnology industries and attracting industries that will benefit from nanotechnology.

"Nanotechnology will have a significant impact on the economy of the future and regions that take the initiative will have a head start in generating and attracting economic development," said President Wayne Clough.

The nanotechnology center "will be a magnet for high-end economic growth for the city, state and region," he said.

Scientific-Atlanta Delivers $1 million for Research Facility with ‘Untold Promise’

Scientific-Atlanta presented a $1 million check to Georgia Tech toward the construction of the Molecular Science and Engineering Building at groundbreaking ceremonies in April.

H. Allen Ecker, EE 57, MS EE 58, executive vice president of Scientific-Atlanta, and Glen P. Robinson Jr., Phys 48, MS Phys 50, one of the six original founders of Scientific-Atlanta, were on hand to present the check to Tech President Wayne Clough.

"Georgia Tech and Scientific-Atlanta have a long-standing and mutually supportive relationship," said Clough. "This latest expression of generosity and support is certainly in keeping with the confidence they have placed in us for many decades. It was entirely fitting that our old friends Glen Robinson and Allen Ecker were on hand to present this wonderful gift.

"The molecular sciences and engineering facility will provide the research facilities necessary to battle an array of diseases.

"This facility is the result of a vision shared between Georgia Tech’s scientists and engineers," said College of Engineering Dean Don P. Giddens. "The intersection of these two disciplines offers untold promise for vastly improving the quality of life, such as cancer treatment that does not kill healthy tissue."

The $60 million building is the final structure in Tech’s Biotechnology Complex, which includes the Bioengineering and Biosciences, Environmental Sciences and Technology and Cherry Emerson buildings, and will further the shared goal of the first three facilities — fostering interactions between scientists and engineers whose research interests intersect. Research in the facility will focus on materials and the molecular basis of their structures and properties.

"The rapidly increasing ability of scientists to understand materials at the subatomic, atomic and molecular levels is paving the way for the development of remarkable new substances," said Gary B. Schuster, dean of the College of Sciences.

Paying it Forward

Former scholarship recipient helps students in need

If he hadn’t received a full scholarship, Francis “Bo” Godbold would never have been able to earn his degree in industrial engineering at Georgia Tech.

Orphaned by age 13, Godbold wanted to attend Tech after visiting campus as a high school student. Finances were a problem, however, so he was not hopeful about his prospects. An offer of a full scholarship changed all that, and Godbold ultimately realized his dream. Now semiretired as president of Raymond James Financial, Godbold continues to serve as vice chairman of the $2 billion firm.

While the merit-based President’s Scholarship has become a national success story in terms of attracting and retaining the highest-achieving students to Tech, assisting highly qualified students who also have financial need has long been a challenge.

If there is anyone who understands that challenge, it is Godbold, IE 65, who has worked with Jerry McTier of the Office of Student Financial Planning and Services to create undergraduate scholarships for Tech students.

"The students who are selected to receive this type of aid must meet the same rigorous academic standards as all other prospective Tech students. The fact that these academically successful students are not from the wealthiest backgrounds is a good thing for our student body as a whole. I think it sends a strong and important message that what you set your mind on achieving is way more important than your financial circumstances," McTier said.

In 1999, Godbold and his wife, Betsy, initiated an undergraduate scholarship program that has covered 50 percent of education costs for five talented students, two of whom graduated in May.

They recently renewed their support to benefit even more students, beginning with two entering freshmen this fall and adding two freshmen per year through fall semester 2010. The awards are designated for students coming from specific counties in Florida, South Carolina and Tennessee.

"Through my involvement with the Foundation board and getting to know the students we’ve been able to help through scholarship support, I have become even more enthusiastic about the mission and the quality of Georgia Tech than I was as a student," said Godbold, a trustee of the Georgia Tech Foundation. "There are so many deserving, hardworking students from outside of Georgia who have so much to offer the Tech campus. Betsy and I are delighted to have the chance to offer these wonderful young people the same opportunity that was offered to me more than 40 years ago."

Scholarships Honoring Alumni Awarded

Two new scholarships honoring Georgia Tech alumni have been awarded to students entering Tech in the fall semester.

Elizabeth Ward, of Atlanta, received the Lt. Tyler Hall Brown Scholarship, which will be given each year to a Woodward Academy graduate who has been accepted to Georgia Tech. Ward was chosen for her academic excellence and service to her community, based on Brown’s reputation as a leader with a passion for serving others.

Brown, Mgt 01, HTS 01, was killed in combat in Iraq on Sept. 14, 2004.

The John Young History Maker Scholarship recipient was Lindsey Hankins, a graduate of Bishop Moore High School in Orlando, Fla.

Hankins, who plans to study chemical engineering, received the scholarship from the Central Florida Georgia Tech Club, which established it to honor former NASA astronaut John Young, AE 52.
By Maria M. Lameiras

Charter members of the Georgia Tech chapter of Engineering Students Without Borders made the first of two planned trips to La Lima, Honduras, in May to fix the town’s water system.

Two of the students on the trip, Brenda Vargas, a senior civil engineering major, and Angharad Pagnon, a junior mechanical engineering major, helped found the group at Tech in 2004 with Marcus Millard, ChE ’97.

“My mother always wanted me to be a doctor, but I told her the only way I’d ever do that is with a group like Doctors Without Borders,” said Pagnon, 19, who was born in Nice, France, and raised around the world, including the United States.

“The whole idea of going to a developing country to help people was always something I liked,” said Pagnon, president of the Tech chapter.

The group, which has about 35 members, assessed the town’s water system on the May trip and will return to La Lima within the year to implement the repairs they deem necessary after analysis of the data gathered.

On an engineering mission Edward McCallum, left to right, Brenda Vargas, Brian Garney, Laura Premenke and Angharad Pagnon (kneeling) visit with children in La Lima, Honduras.

The scope of the project is greater than we first anticipated and now we need to determine what needs to be done and what the best way to solve those problems would be without disrupting water delivery,” Pagnon said.

“We mapped out the water distribution system for the town and also took various water-quality and water-capacity tests. We looked at the system and saw what some of the problems were and we saw what repairs were being done,” he said.

The students met with experts at a university in Honduras, as well as a local pump distributor and a well digger to get a handle on the resources available in the area.

Tests done by the students showed that water from the well was good quality, but by the time the water reached homes in the area it was contaminated when it came out of the taps. Also, the water tower may need to be raised to provide adequate water pressure to deliver water to all areas served by the system or replaced entirely because of its poor condition, Pagnon said. Pipes to the village may also need to be replaced if studies determine that they are too small to supply the village’s water demand.

“We are not sure when we will go back because we want to make sure we have a very well-thought-out plan. By October we will have determined whether we will be able to go back in December to implement repairs. We want to make sure when we go back that we have taken care of everything and that the design passes all of the clearances and that we are doing what the community wants us to do,” Pagnon said.

Vargas, former president of the chapter, said working with the group gives students the opportunity not only for hands-on learning, but to make a real difference through their work.

“We will be able to put our knowledge to use and we are being trusted to get something done for someone,” Vargas said. “Everyone should want to do this for other people. When you think about the number of people without clean water in the world, it is amazing.”

The group raised more than $50,000 for the trips from private and corporate donations, fund raising and support from the Georgia Tech Student Foundation.

Yellow (Jacket) Submarine

A team of Georgia Tech graduate students competed in the eighth International Autonomous Underwater Vehicle Competition at the U.S. Navy’s Space and Naval Warfare Systems Center in San Diego in August.

Led by John “Jack” Griffin, a graduate student in intelligent systems in the College of Computing, the team of graduate and undergraduate students built their submarine and competed in the competition for the first time this year.

Students on the team are Melissa Cataldo, Daniel Cooksey, Lucas Garza, Brian Lockwood, John Parish, Tyler Smith and Rick Uhlman.

Griffin, who has been involved with the group since just after it started recruiting last year, said the team began construction on its vehicle in faculty adviser Tucker Balch’s BORG lab in the College of Computing after a semester of fund raising and another of planning and design.

“We started from scratch. We built the hull from clear PVC tube and the frame is 80/20 aluminum. The motors are trolling motors for boats and the controllers were bought, but a lot of it has been hand machined and hand built at Tech,” Griffin said. “We are very grateful to Dr. Balch for the advice and support of the BORG lab in making this project possible.”

The team’s Nautilus submarine was required to demonstrate its autonomy by completing three tasks rendezvousing with a “docking station,” inspecting a pipeline and marking a break in it and homing in on an acoustic beacon and breech within the zone marked on the surface of the underwater arena with floats.

The battery-powered “robotic” subs had to fit within a box 6 feet long by 3 feet high and weigh less than 140 pounds. Bonus points were awarded for crafts weighing less than 110 pounds. The vehicles were also required to operate autonomously, with no control, guidance or communication from a person or any off-board computer.

A goal of the competition is to foster links between young engineers and the companies, universities and government agencies involved in AUV development, according to the competition sponsors.

For more information on the competition and for results, visit http://www.auvsi.org/competitions/watercraft. GT
fifteen years ago and fresh out of Tech’s graduate business school, Mark Brookshire created StockTrak, a stock market simulation program now used by 80 percent of the nation’s leading graduate and undergraduate business schools.

Brookshire, who earned a master of science in management from Tech in 1989, jokes that by the mid-1990s the success of the program looked like it would make him “the Charles Schwab of play money.”

That was before the Internet and a Stock-Trak Web page designed by some Georgia Tech students changed the dynamics of his business. High school educators began contacting him to create brand accounts for their school programs using his stock market simulations.

In 1997, Brookshire developed a high school program that has grown to about 200,000 students a year. Stock-Trak reaches about 40,000 to 45,000 college students each year. Now that Stock-Trak has almost saturated the market of U.S. business schools, Brookshire is taking Stock-Trak international.

In 1988-89, the graduate investment courses Brookshire was taking at Tech consisted only of reading textbooks and listening to lectures. Yet, the financial world beyond academia was going through an upheaval.

“All these mergers and acquisitions were going on,” Brookshire said. “Kohlberg Kravis and Roberts was buying out RJR Nabisco and the whole mergers and acquisitions scene really started to explode in Atlanta.”

Brookshire could hardly stand not being involved.

Brookshire’s father gave him $2,000 when he graduated from high school at 18. Instead of buying a car or a stereo system, Brookshire invested the money in stocks.

“I was just fascinated with the stock market. I was good with math and numbers. It just all seemed to make sense to me,” he said.

After receiving his bachelor’s from Virginia Tech, Brookshire pursued his master’s at Georgia Tech believing he might follow a career in banking or investments.

While his classes were beneficial, Brookshire said he realized students were missing a hands-on opportunity to experience how the stock market worked.

“I went to the professor and said, ‘Give us some Monopoly money. Let’s have a little trading competition,’” he said.

While the professor, Craig Ruff, liked the idea, Brookshire said he saw problems keeping up with the stock portfolios of 30 students. And Brookshire said the leading software only offered hypothetical markets, hypothetical stocks, hypothetical news events and hypothetical changes in stock prices.

“I thought, ‘We can do better than that,’” Brookshire said.

Initially, he just traded stocks and options because that is all the program that he wrote,” Brookshire said. “I was doing it out of my apartment. I’d just gotten married. I turned one of our bedrooms into my little brokerage office, brought in a couple of extra phone lines and a fax line. We traded at end of the day prices, so every day from 6 o’clock to 10 o’clock at night, I’d come in and sit there for four hours from Monday through Friday for 10 weeks, just waiting for the phone to ring in case any of those 30 students wanted to make a stock trade.”

At the end of the 10-week trading period, he met with Ruff and the students and gave them a survey, including three major questions. Did Stock-Trak help you learn anything about the stock market? Did it help you learn about trading options? Do you recommend your professor continue to use this service for future classes?

Thirty out of 30 students responded, “Yes, yes and yes.”

Ruff, too, was convinced. “As long as you want to do this, I’ll be a customer of yours,” he said.

“It was fabulous,” said Ruff, who now teaches at Georgia State University and continues to use Stock-Trak. “There was a competitive program that traded based upon the prices in the Wall Street
states participating — the name of the state with dot-com.

At the outset, Stock-Trak only offered stocks and options. But it soon added futures, bonds and mutual funds. “Whatever the professors were asking for, whatever the textbooks were talking about, I kept adding more and more securities to my program. Back in the late 1990s, international diversification became the hot topic. Instead of developing a portfolio of U.S. equities, we needed to look at other markets. I started adding Europe, Asia and South America to my data feed.”

Stock-Trak Portfolio Simulations is now located in Duluth, Ga. During the past four years, Brookshire has traveled to Europe to market Stock-Trak. This year, he has worked out an agreement with the publisher of leading investment books in Europe and Asia to promote Stock-Trak. “Europe and Asia are starting to jump on the concept of having a trading simulation as part of a class. That’s where the business is going to expand,” Brookshire said.

Instead of just reading about investments and reading about the stock market and listening to the professor, it makes more sense to jump in. Give the students $100,000 or 100,000 euros or 100,000 pounds. Give them a brokerage account with this fictitious money in it and let them go trade real stocks, real options and real futures. It’s just pretend execution.”

Brookshire said he runs about 800 different competitions on his Web page. “That’s what keeps the students motivated,” he explained. “They see their name and they see their portfolio value every day. It’s the only class where you get immediate feedback based on what the markets did that day. The students are so competitive that it makes them pay attention and that’s why the professors really love it.”

The students have 24-7 access to their personal accounts and their rankings in the class. The professor can log in and see the class rankings and see what trades each student makes.

When Stock-Trak’s Web page went online in 1996, Brookshire said from one semester to the next he went from having 13 employees to eight people to six people to two people. He also thought that once he put up the Web page, it was a permanent addition.

“Then I realized that the Web page is a living, breathing representation of the company,” he said. “We are making changes to it almost on a daily basis, trying to make our Web page easy to understand, responding to professors’ comments, adding new markets — Tokyo, Hong Kong and Singapore. “My staff has grown back to seven people and a couple of part-time people. We are all Web designers and customer service people. If the phone is not ringing and we’re not talking to professors or talking to students, we are constantly changing the Web page.”

Partnerships include McGraw-Hill publishers and Comsock, which provides all domestic and international data feeds. But he also has other partnerships, including the Wall Street Journal, Barron’s Magazine, TheStreet.com, Investor’s Business Daily and Financial Times.

Newspaper and radio stations have promoted Stock-Trak competitions with subscribers and listeners. The business program host of a Los Angeles radio station held a competition for listeners. Every semester for the past two years, Barron’s has hosted a challenge to any college student and any professor. The winners receive $2,000 and a round-trip flight to New York City and dinner with the editor.

The man on the street can also give his market skills a risk-free test. For $20, Stock-Trak will set up a stock market simulation and provide a brokerage account for three months. Every month several hundred people randomly land on the Web page — www.stocktrak.com — sign up, pay their $20 and test their savvy against the market.

It gives them hands-on learning in a risk-free environment — just as Brookshire intended.
The Ramblin’ Roll

1950s

E. Patrick Epps, ME 56, has been reappointed to the Georgia Aviation Hall of Fame board by Gov. Sonny Perdue. Epps is founder and operator of Epps Air Service and has personally logged more than 8,000 flying hours as a commercial pilot. Epps also flies his aerobatic Beechcraft Bonanza in local air shows. He previously served as a test engineer for Boeing on prototypes of the 707. After training in the U.S. Air Force, Epps became a military pilot and flew the Boeing C-137 Stratotanker and later the Fairchild C-123 Provider. Epps and his wife, Ann, have three children.

S. Guy Middleton, IM 58, has been named to the Georgia state licensing board for residential and general contractors by Gov. Sonny Perdue. Middleton, of Dahlonega, Ga., is a farmer and businessman who owned and operated a development and construction company for more than 30 years. Middleton also serves on Perdue’s Quality of Life and Economic Task Force and previously served in the state Senate, for which he was chairman of the health and human services committee, vice chairman of the agriculture and reapportionment committees and a member of the appropriations, education and ethics committees. He is a past chairman of the Lumpkin County Water and Sewer Authority and the Lumpkin County Economic Growth and Steering Committee. A Marine veteran, Middleton and his wife, Anita, have three grown children and three grandchildren.

1960s

Gerald R. Harris, EE 67, has been elected as a fellow of the American Institute for Medical and Biological Engineering. He also received the U.S. Food and Drug Administration’s 2005 Award for Excellence in Laboratory Science. The award and $2,000 prize were for his work in developing accurate and reliable measurement techniques for characterizing medical ultrasound devices. Harris, a research engineer at the FDA’s Senior Biomedical Research Service, is the ultrasonics laboratory leader in the FDA Center for Devices and Radiological Health. He lives in Rockville, Md., with his wife of 37 years, Linda.

Rich Harwell, IM 64, was appointed by the systems engineering committee of the Government Electronics and Information Technology Association to lead the major revision of “Processes for Engineering a System.” The manual is considered to be the primary U.S. systems engineering standard for systems containing products made up of hardware, software, firmware, personnel, facilities, data, materials, services, techniques or processes or combinations thereof. A fellow of the International Council on Systems Engineering, Harwell was one of the four principal authors of the current version of the standard. After retiring from Lockheed Martin, he founded SYSTEM Perspectives, a consulting firm specializing in process development and interactive seminars concerning systems engineering based in Alpharetta, Ga., where lives.

Keith Huddleston, EE 64, MS EE 70, PhD 78, was recognized for exceptional management of the three-nation Medium Extended Air Defense System technical demonstration in Italy in May. His detailed assessment and explanation of the U.S. technology-transfer restrictions mitigated European objections and led to the award of the first international design and development contract. Huddleston is a former researcher at the Georgia Tech Engineering Experiment Station and a former member of the Institute’s electrical engineering faculty. He and his wife, Victoria, have three grown children and six grandchildren and live in Maitland, Fla.

Collectors’ Edition

Alumnus turns accumulation of books into a business

By Maria M. Lameiras

Little did Samuel Gibson know that the upturn of a copy of “Leaves of Grass” by Walt Whitman while he was a student at Georgia Tech would lead to a collection of more than 15,000 books, thousands of which he is now offering for sale in a unique bookshop in Ben Avon, Pa.

“Accumulated is more the proper word than collected. Although there are some collections which I formed intentionally, much of it has not been with a clear goal, it was just buying books,” Gibson said with a laugh.

Many of the books have been stored in boxes in Gibson’s garage since he and his wife, Ella, moved from the city to the suburbs of Pittsburgh in 1986. At 78, Gibson felt it was time to relinquish some of his literary treasures.

Gibson opened his shop, aptly named Gibson’s Book Collection, in June in the former offices of the international student exchange service he operated from 1988 until 2001 as a third career. Previously, Gibson spent 16 years in campus ministries and another 20 years in urban and community ministries with the United Methodist Church.

Of the approximately 10,000 mostly hardback books currently on the shelves, Gibson said, “there are some of limited value, but almost every time I open a box there are some I find that I am amazed at.”


“I have gone through the books to find ones that are possibly of higher value and we’ve isolated about 1,000 books valued from $25 to $500,” Gibson said.

Most of the books, however, sell for $5 to $10 apiece.

“The question I get the most is, ‘Have you read them all?’ My standard answer is, ‘Books are not to read, books are to have.’ That is said only partly in jest because I find that some books are truly objects of art,” Gibson said.

Growing up on a farm just outside of Troy, Ala., “we didn’t have a great number of books at home and neither did my school libraries, but I read every one I could get my hands on,” Gibson said.

His father didn’t quite understand his youngest son’s affinity for the written word.

“He’d say, ‘Boy, can’t you ever get your head out of a book?’” Gibson recalled with a laugh. But relatives told him he came by the trait honestly. His mother, who died of complications of appendicitis when Gibson was 11, had been a great reader.

Thinking back, Gibson remembered some of the positive influences in his life on books and reading.

“Dr. Walker in the English department at Tech taught the world literature course. I will always be grateful to him and to Georgia Tech for the kind of eye-opening influences of that course. For all of the technical studies we had, there was a liberal arts part they insisted on and I was grateful for that,” Gibson said.

He earned his bachelor’s degree in architecture from Tech in 1947 and immediately enrolled in the Yale University Divinity School. It was at Yale, where Gibson earned two master’s degrees, in theology and the history of religion, that his accumulation of books began in earnest.

“My social ethics professor gave us a book list the first semester and I thought, ‘My gosh, I’ll never read all these books,’” Gibson said. “But since I started and began to accumulate books, I think I’ve invested a small fortune in moving them. When we moved to our present home in 1986, I had to have a separate truck come and move 500 boxes of books and I’ve accumulated many books since then.”

Although he attributed some of the bulk to “library sales and church book sales,” others were purchased more thoughtfully.

Some of Gibson’s more prized books remain in his private library at home, including a collection of about 70 books on the Civil War, books on the Civil Rights movement, many volumes of the works of T.S. Eliot and e.e. cummings and a compilation of books illustrated by artist Lynn Ward.

Gibson hopes to have all of the books sold by July 2007.

“At that point I will be 80 and I will be ready to do other things that I want to accomplish,” he said.

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Alums Among Most Influential Atlantans

Nine Georgia Tech alumni are among a list of the 96 “Most Influential Atlantans” as chosen by the Atlanta Business Chronicle. Tech alumni were cited in four out of eight featured categories, including education, business, health care and government/politics.

William “Bill” L. Jorden, CE 65, MS Sané 70, has joined the Atlanta office of Barge Waggoner Sumner and Cannon Inc. as a senior engineer. Jorden has more than 38 years of consulting experience on a wide variety of civil and sanitary engineering projects including parks and recreational facilities, water and wastewater systems, hydrologic and hydraulic projects and solid waste facilities. Previously, he owned and operated his own engineering company, W.L. Jorden & Co. Inc., in Atlanta for more than 25 years.

Richard C. Kessler, BS 68, IE 69, has announced the development of the Grand Bohemian Hotel and Residences project in St. Petersburg, Fla. Kessler is president and CEO of The Kessler Enterprise Inc./The Kessler Collection based in Orlando, Fla. Scheduled to break ground in January, the Grand Bohemian will be St. Petersburg’s first luxury mixed-use, contemporary hotel and residential development.

James Arthur “Flip” Lyle, IM 67, was inducted into the El Paso Athletic Hall of Fame in Texas in May. Lyle, 60, has competed in 323 multi-sport events, including triathlons, duathlons and Ironman competitions, since his first at age 40. Lyle lives in El Paso.

Edmond R. Rondeau, Arch 69, has joined the real estate development office at Georgia Tech as general manager. He lives in Atlanta.

J. Richard Williams, Phys 62, MS Phys 64, PhD 67, has been named dean of the college of engineering and mines at the University of Alaska Fairbanks. Williams most recently served five years as dean of the college of engineering at the United Arab Emirates University. He has more than 30 years of experience in academic and research administration, including stints at Georgia Tech, the University of Idaho and California State University Long Beach. Williams’ position at the University of Alaska Fairbanks will be a full professorship and he will oversee operations at the college, including academic planning and attracting outside funding. Williams’ research interests are in the areas of renewable energy and nuclear power.

Samuel R. Williams, ME 64, has been named a fellow of the American Society of Mechanical Engineers. Williams is retired as chief engineer from a 45-year career at The Timken Co. He lives in Dublin, Ga.

Charles G. “Gary” Betty, CHE 79, has been elected to the board of directors for Equifax Inc. Betty is president and chief executive officer of EarthLink Inc. Betty’s term as a director will extend through 2006 and he will serve as a member of the board’s finance committee.

Eric J. Bruce, IM 73, has been named corporate head of technical operations for King Pharmaceuticals Inc. in Bristol, Tenn. Bruce has more than 20 years of manufacturing experience. He most recently served as vice president of operations at Mallinckrodt Pharmaceuticals in St. Louis, where he managed and integrated nine state-of-the-art pharmaceutical and specialty chemical manufacturing facilities. In his new position, Bruce will oversee manufacturing, quality and supply chain logistics.

Annie Hunt Burriss, MS CP 79, has accepted a position as an associate provost and the university president’s deputy for community relations at Oglethorpe University in Atlanta. Previously, Burriss served as executive director of the Governor’s Commission for a New Georgia. She and her husband, William, live in Atlanta.

Carol Chandler-Wood, IM 79, founder and owner of Total Learning Concepts Inc. of Lilburn, Ga., has opened a second center in Loganville, Ga. Total Learning Concepts is a professional tutorial service that provides educational assistance to students of all ages and levels of ability. TLC also provides customized programs for individuals or corporations with special educational requests. Chandler-Wood lives in Atlanta with her husband, Steve Wood, ME 82. Steve has been employed with Delta Airlines as an engineer for 21 years. They have one daughter, who attends Auburn University.

Bill Chastain, IM 79, has been named executive director of technical operations for King Pharmaceuticals Inc. in Bristol, Tenn. Bruce has more than 20 years of manufacturing experience. He most recently served as vice president of operations at Mallinckrodt Pharmaceuticals in St. Louis, where he managed and integrated nine state-of-the-art pharmaceutical and specialty chemical manufacturing facilities. In his new position, Bruce will oversee manufacturing, quality and supply chain logistics.

Chastain is the author of three books — the biographies “Spurrier: From Heisman to Head Ball Coach” and “Payne at Pinehurst: The Greatest U.S. Open Ever” and a novel, “The Streak.” Chastain, who has been a sportswriter for 22 years, lives in Tampa, Fla.

Robert “Bob” D. Collet, MS EE 79, has joined Science Applications International Corp. as vice president and chief engineer for the transformation, training and logistics group. Collet also will serve on the company’s systems engineering council and support the pursuit of strategic business opportunities. He lives in Oak Hill, Va.

Ted Coughlin, CE 77, became licensed as a professional civil engineer in June after a career in sales and as a disaster reserve engineer with the Federal Emergency Management Agency. He is now a senior design engineer designing potable water pump stations for California Water Service Co. in San Jose, where he lives.

Anne Fay, Phys 77, MS EE 78, retired June 30 as a lieutenant colonel after a 32-year career with the U.S. Air Force Reserve. A ROTC cadet at Georgia Tech, she was commissioned upon graduation and began her Reserve duties as an electrical engineer with the 321st Strategic Missile Wing at Grand Forks Air Force Base in North Dakota, followed by stints as flight test director and project officer with the satellite communications branch at Wright-Patterson Air Force Base in Dayton, Ohio. Most recently, Fay served as program manager leading the Taiwan-Air Force Office of Scientific and Technological Research Nanoscience Initiative. Fay, the recipient of the Air Force Meritorious Service Medal with oak leaf cluster and the Air Force Commendation Medal with two oak leaf clusters, lives in Redondo Beach, Calif., where she works as a systems engineer with Northrop Grumman Mission Systems.

R. Christine Fortenberry, IM 71, owner of Fortenberry Construction Inc., received the 2005 WYCA Woman of Achievement Award in March. Last November she was named 2004 Partner of the Year for Cobb County. She lives in Powder Springs, Ga.

Charles E. Hodges, ChE 75, has been elected to the board of directors of TAPPi, the leading technical association for the worldwide pulp, paper and converting industry. Hodges is senior vice president of manufacturing for the Southern region for Georgia-Pacific Corp. in Crockett, Ark. Hodges has been a TAPPI member since 1977 and has participated in the Southeast and Gulf Coast local sections. He and his wife, Kathi, live in Crockett.

Edward Iacobucci, EE 75, is president and CEO of DayJet Corp., a new airline that plans to operate the nation’s first “per-seat, on-demand” jet service to transform regional business travel beginning in 2006. Founded in January 2002 under the research and development
code name Jetson Systems, DayJet Corp. has been developing the enabling technologies and operational infrastructure for a new option in regional transportation. The company is based in Delray Beach, Fla.

“Per-seat, on-demand” jet service means a passenger only pays for the seat reserved, not the whole aircraft, and that the passenger flies where and when it is convenient for him.

Fred Kitson, MS EE 75, has been appointed vice president of Motorola Labs’ applications, content and services research center of excellence. Kitson was previously head of mobile and media systems research for Motorola Inc.

Michael McCallum, EE 70, received a PhD in mathematics education from the University of Georgia in May. McCallum is a math professor at the DeVry Institute of Technology in Atlanta. He lives in Grayson, Ga.

Steve McGill, AE 71, has been named president and chief operating officer of SMT Dynamics, an electronic manufacturing service company in Anaheim, Calif. McGill lives in Highlands Ranch, Colo., with his wife and two of his children. The couple’s oldest son is a freshman at the University of Edinburgh in Scotland.

William D. “Will” McKnight, BC 79, has been named to the board of directors of First Bank of Georgia in Augusta, Ga. He is president of McKnight Construction Co. McKnight and his wife, Janet, live in Augusta.

Jim Meredith, IE 78, has accepted a position as senior safety manager for the secretary of the U.S. Department of the Interior’s office of occupational health and safety in Denver. Meredith returned to Denver after serving eight years as regional safety engineer for the Bureau of Reclamation in Sacramento, Calif. He and his wife, Ruby, and their children, Alex and Lauren, live in Littleton, Colo.

Ana T. Ramos, ChE 79, MS OR 80, has been named chief information officer at Oriental Financial Group Inc. in San Juan, Puerto Rico. Ramos lives in Rio Piedras, Puerto Rico.

Gary Alan Smith, IM 79, and his wife, Elizabeth, celebrated their silver wedding anniversary on June 14. Smith is director of materials management for the New York City Housing Authority and is responsible for procurement, warehousing and distribution of material to support 185,000 apartment units within the five boroughs. He and his wife live in New York City.

Mark V. Smith, IM 79, of Savannah, Ga., was named to the Georgia State Board of Technical and Adult Education by Gov. Sonny Perdue in July. Smith is the managing hotel partner of Mulberry Inn and chief executive officer of South Atlantic Utilities. He is the chairman of the Savannah International Convention Center, a member of the Historic Savannah Foundation Board, former chairman of the Savannah Area Convention and Visitors Bureau and a former trustee of the Coastal Heritage Society. He and his wife, Kim, have two children.

Ronald A. Veith, IE 79, has joined the Belk College of Business at the University of North Carolina-Charlotte as director of the MBA program. Veith is a former partner with

**Broadcom developer finds quality time for work, family**

By Maria M. Lameiras

A lumna Tom Quigley doesn’t personally get to enjoy the revolutionary contributions he has made to broadband cable technology. The cable-modem service doesn’t reach the 148-acre horse farm near Franklin, N.C., where he and his family live in the midst of the Blue Ridge Mountains.

Quigley, EE 84, was honored in June as a Broadcom fellow by his company for his part in the development of the broadband cable modem that catapulted its meteoric success.

Senior director of advanced broadband architectures for Broadcom Corp., Quigley works the majority of his time from a home office. He moved his family there in 2000 from Lawrenceville, Ga., a suburb of Atlanta.

Quigley founded the cable modem group and ran the business unit until 2000. Since its founding in 1991, Broadcom has become the acknowledged industry leader in the microelectronics industry for digital cable TV, cable data moderns and data networking.

Quigley has authored numerous patent articles and papers about cable modern architecture, cable modern performance analysis and communications protocol design. He is a member of the Georgia Tech Council of Outstanding Young Engineering Alumni and the School of Electrical and Computer Engineering Advisory Board and served as a trustee of the Georgia Tech Alumni Association Board of Trustees from July 2001 through June 2004.

“Broadcom was a start-up company and it was a real pressure cooker. I was one of their early employees and I ran the whole research and development division. We grew it from nothing and that was a hugely stressful thing,” he said.

“Some people love it, but I had a hard time trying to balance family and doing an impossible job.”

The company went public in 1998 and afterward Quigley had the freedom to make a change.

“It was really a stress-reduction kind of a move. A lot of people in the high-tech industry thrive on the stress and hectic pace, but it was going to kill me,” Quigley said.

“I wanted to quit or retire, but the company convinced me to take an extended sabbatical.”

While looking in the north Georgia area for land to build a summer home, Quigley and his wife, Mary, discovered the land where they would build a home for them and their children, Sean, 15, and Clara Jean, who will be 13 on Aug. 31.

“The amount of work and travel comes in cycles and brings different demands, but I think I have a happy balance of travel and work along with living out here,” Quigley said.

Since moving to North Carolina, the family has branched out in their recreational activities and they now have four Tennessee walking horses and Quigley has built a number of hiking and riding trails throughout the property.

“We have 148 acres in the head of the Tesseentee Valley surrounded by National Forest Service land. It network is in the middle of nowhere. It is very rural, very wild,” Quigley said.

At first, his children had a hard time adjusting to the isolated area.

“My son says we moved to ‘a complete lack of infrastructure,’” Quigley said with a laugh. “But they both love their school and they have interests it would be hard to satisfy in the city. My daughter rides horses and they both love the outdoors. My son likes to hike and we could literally ride horses or hike right off our property into National Forest land.

The Bartram Trail surrounds the valley where we live.”

Recently, Quigley has been working on a project for Broadcom to link video, high-speed data, mobile phone and voice-over-IP technologies in one system.

“There is an awful lot of interest in integrating cellular service and the Wi-Fi network so if you walk into your house on your cell phone, the system picks the call up and routes it over the hardened data network. Doing that sort of quadruple play or quad-broadband to give consumers one bill and four services represents a significant dollar figure in the space of the consumers’ budget. I think there’s a real synergy in doing that,” he said.

One of seven Broadcom fellows chosen in the history of the company, Quigley said he was very honored by the designation.

“Too often in the high-tech industry engineers work hard and don’t get the credit. Broadcom believes in engineering excellence, that is what drives us, and it is an honor to be recognized for that hard work,” he said.
Burdell & Friends

Accenture, the global management- and technology-consulting firm. He joined UNC Charlotte as an adjunct instructor of management in 2003 and most recently served as a full-time assistant professor of business at Johnson & Wales University. He and his wife, Lori, and their two children live in Charlotte, N.C.

Thomas G. White, Mgt 74, of Fox Lake, Ill., has been appointed director of the Selective Service System for Region I and will be responsible for agency operations in 18 Northeastern and Midwestern states.

1980s

Jennifer Williams Amos, Mgt 88, has been selected to present a session at the National Council for Teachers of Mathematics conference in Denver in November. Amos, who is among the 5 percent of teachers who have been recognized multiple times in “Who’s Who Among American Teachers,” teaches at a middle school in Douglas County, Colo. She lives in Castle Rock, Colo., with her husband, Will, and two children.

Omer Bakkalbasi, MS IE 86, PhD 89, has joined Chainalytics as vice president of the company’s inventory planning practice. Bakkalbasi will be responsible for leading the development and delivery of Chainalytics’ inventory service offerings to leading companies in the manufacturing, wholesale and retail trade and logistics service provider industries. Bakkalbasi lives in Atlanta.

James R. Borders, ME 83, has been inducted as a member of The Buckhead Coalition, a chamber of commerce-type organization for north Atlanta. Borders is president and chief executive officer of Novare Group Holdings. He lives in Atlanta.

Edward Gene Cape Jr., ChE 86, PhD 91, and Karen Louise Obeb were married June 5 at the Glen Island Harbour Club in New Rochelle, N.Y. Cape is the managing partner and founder of the Sapphire Group, an investment company in Manhattan. From 1991 to 1996 he was an assistant professor in the chemical engineering and medicine departments at the University of Pittsburgh. The couple live in New York City.


Marc Corsini, IM 80, and his wife, Susan, announce the birth of a daughter, Isabella Olivia, on April 24. Isabella joins brothers Nicholas and Matthew at the family’s home in Birmingham, Ala. Corsini is president of Corsini Consulting Group, a business coaching and strategic planning firm based in Birmingham.

Alex Lewis Sterling Croxton, IE 85, MS IE 89, has graduated from the New Orleans Baptist Theological Seminary with a master’s degree in divinity. Croxton lives in Suwanee, Ga.

Richard Curtis, CE 83, MS CE 89, has been named a fellow of the American Society of Civil Engineers. Curtis is a principal engineer with Epic Consulting Inc. of Marietta, Ga., and is responsible for geotechnical engineering, environmental consulting and materials testing and engineering services. He and his wife, Vicky Chouery Curtis, CE 82, MS CE 85, live in Powder Springs, Ga., with their children, Maria, Christopher, Melissa and George.

CharlesDickson, ChE 84, MS EnvE 01, and his wife, Nooren, announce the birth of a daughter, Brianna Nicole, on April 27. The family lives in Fairfax, Va., where Dickson works as the global profit improvement manager for ExxonMobil Refining and Supply.

John Dryden, CE 85, was promoted to director of sales for the Northwest region for Vanguard EMS in Beaverton, Ore. He and his wife, Sheila, live in Portland, Ore.

Marianne Ashley Gardner, AE 84, has been promoted to systems engineering manager for Lockheed Martin Space Systems in Sunnyvale, Calif. Gardner and her husband, Bob, live in Sunnyvale.

MitchellGinn, Arch 82, of L. Mitchell Ginn and Associates Inc. has been chosen by Southern Living magazine to design the 2006 Southern Living Idea House. The house will be built on Daniel Island, S.C., and will be open to the public in the summer of 2006. L. Mitchell Ginn and Associates, located in Newnan, Ga., designs traditional custom homes throughout the Southeast.

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HEALTHY AND WISE

Millions receive alumnus' self-care information

By Kimberly Link-Wills

Don Kemper has dedicated his life to providing the public with sound health care information. The founder, CEO and chairman of Healthwise has long believed in making informed decisions. He chose Georgia Tech for his graduate education after reading that the health systems program founded by Harold Smalley in 1958 was the best in the country.

Kemper arrived on campus in 1968, but interrupted his Tech studies for a two-year stint with the U.S. Public Health Service in Washington, D.C. What he learned there changed his life.

“I heard a talk by the assistant surgeon general, who said the greatest untapped resource in health care is the consumer. It bit home with me,” Kemper said.

He also was a new father and turned to “Dr. Spock’s Baby and Child Care” for information on the development of his infant daughter.

“I wanted a Dr. Spock for the whole family,” said Kemper, who broached the idea of a self-care handbook to his superiors at the Public Health Service. “I was told, ‘Nobody’s asked us to do it.’ It was ahead of its time.”

Kemper, who earned a bachelor’s degree in engineering sciences at the University of Texas, returned to Tech in 1971 and earned his master’s degree in health systems engineering that same year, followed by a nine-month graduate program in public health at the University of California at Berkeley. He then landed in Boise, Idaho, where he joined the nonprofit Health Systems Inc.

“It was an experimental program to rock the boat,” Kemper said of the federally funded organization that offered public education and training for health care workers.

He was instrumental in launching a program for mothers on family health care and put “Common Sense, Common Health” on Boise public television.

When Health Systems dissolved in 1975, Kemper founded Healthwise, also a nonprofit. He had three employees and funding from the Kellogg Foundation.

Kemper, the father of five ages 13 to 36, realized his dream of a “Dr. Spock for the whole family” a year later with the release of “Healthwise Handbook.” Healthwise published the 16th edition of the self-care guide in 2004.

According to the Healthwise Web site, “The book covers more than 200 health problems with information about prevention, home treatment and when to call a health professional; how to prepare for doctor visits and communicate effectively with the doctor; how to make wise decisions about tests, medications and surgeries; how to make lifestyle choices to improve health; and how to prepare and what to do for public health threats.”


The medical self-care and health promotion handbooks Kemper has co-authored together have sold more than 28 million copies. He also created the vision for the Healthwise Knowledgebase, an electronic health information and decision-support tool that was delivered to its first customer, the Aetna call center, in 1994.

The Knowledgebase now has some 30,000 Web pages that instantly provide information on drugs, disorders and diseases.

“Twice every second someone is turning to our information, 200,000 times a day,” Kemper said.

In Georgia, the Knowledgebase is on the Web sites of Piedmont Healthcare in Atlanta, the University Health Care System in Augusta and South Georgia Medical Center in Valdosta. Piedmont also distributes the “Healthwise Handbook.” Licensing fees for Healthwise products generated a reported $16.2 million in 2004.

Kemper met Molly Mettler when they were working together on Kellogg Foundation-funded medical projects for the elderly. He recruited her to head Healthwise’s Growing Wize program for seniors and later asked her to be his wife.

Together they wrote “Healthwise for Life,” a self-care guide for people age 50 and better, and “Information Therapy: Prescribed Information as a Reimbursable Medical Service.”

Kemper believes the concept of information therapy will be Healthwise’s lasting legacy.

The book says information prescriptions are “as important to a patient’s health as any test, surgery or medicine. Unlike free-floating health content on the Internet, information prescriptions — called information therapy — are delivered electronically to people right before or after a doctor visit, test or surgery, when they receive medicine or at any other specific ‘moment of care.’”

“The book shows doctors, health plans and hospitals how to implement information prescription models so that consumers and doctors can better communicate in today’s time-limited environment.”

Three decades have passed since Kemper launched Healthwise with three employees. Over the last 30 years, the organization’s ranks have grown to 150.

Kemper wants his employees to be as healthy as the consumers Healthwise serves. There are bikes in the lobby that employees are free to take for a ride. They are encouraged to take a break from their desks and go for a walk. And Healthwise workers can bring their dogs to the office. On any given day, there may be a dozen dogs, including Kemper’s “pound puppy,” in the Healthwise headquarters.

“It’s a very friendly place to work,” Kemper said.
South Pacific divisions.

in the South Atlantic and numerous projects as a com-
of Engineers, overseeing in support of the U.S. Army.

as major business endeavors environmental projects as well

ment. He is responsible for the leadership of the ecosystems market seg-

Peter T. Madsen, MS CE 80, has been named to the Environmental Advisory Council by Georgia Gov. Sonny Perdue. Madsen, of Fayetteville, Ga., is vice president of CHEM HILL and is responsible for the leadership of the ecosystems market segment. He is responsible for major water resource and environmental projects as well as major business endeavors in support of the U.S. Army. Previously Madsen served in the Army and the Army Corps of Engineers, overseeing numerous projects as a commander and division engineer in the South Atlantic and South Pacific divisions.

Madsen and his wife, Linda, have three children.

Carlos A. Muniz, EE 80, of Palmetto Bay, Fla., was named sales and marketing manager at Paneltronics Inc., a manufacturer of custom instrumentation panels and power distribution panels for the automotive, commercial vehicle, specialty vehicle and marine industries in Hialeah Gardens, Fla.

Todd Braselton O’Dell, Arch 84, has been elected chairman of the Beaufort County, S.C., Design Review Board. The board is responsible for the aesthetic review of all development along the major corridors in Beaufort County. O’Dell is president of O’Dell Architects, past president of the Hilton Head chapter of the American Institute of Architects and a past member of the board of directors of the South Carolina chapter of the AIA. He lives in Hilton Head Island, S.C., with his wife, Kim, and their son, Chase.

Steve F. Pierce, MS IE 87, was awarded the 2005 Citizen of the Year Award for the Huntsville-Redstone chapter of the Association of the United States Army in March. Pierce is chief of the studies and analysis division of the Army Space and Missile Defense Command’s Future Warfare Center in Huntsville, Ala. Pierce, who earned a bachelor’s degree in civil engineering from the U.S. Military Academy at West Point, retired from active Army duty in 1997 as a lieutenant colonel after 20 years in field artillery weapons systems and operations research. He and his wife, Debbie, have seven children and live in Huntsville.

Richard A. Salem Jr, IM 84, a former Tech football player, recently joined AREVA, a worldwide leader in the nuclear industry that is involved in all aspects of the power cycle including mining, enrichment, fuel fabrication, reactors, spent fuel reprocessing and waste disposal. Salem is the procurement and contracts manager for AREVA’s government operations group. He lives in Las Vegas.

William Schneck, ME 83, recently graduated from the U.S. Army War College, receiving a master’s degree in strategic studies. He was promoted to colonel and in May assumed command of the Engineer Brigade, 28 Infantry Division (Mechanized). Schneck currently chairs the mitigate sub-integrated project team of the Pentagon’s joint improvised explosive device defeat task force and is responsible for the fielding of next-generation protection for U.S. vehicles, personnel and facilities in Iraq and Afghanistan. Schneck and his wife, Catherine, live in Lake Ridge, Va.

Art Sheldon, MS CP 81, was named chairman of the Gwinnett Transit Advisory Board in May. Sheldon lives in Duluth, Ga.

Sandra Reeves Smith, IM 82, was installed as the 2005-06 president of the Junior League of DeKalb County, Ga., at the organization’s annual meeting in May. She and her husband, Rob Smith, IM 82, live in Decatur, Ga., with their daughter, Stephanie, a sophomore at Georgia Tech.

Zulma Toro-Ramos, PhD 88, has been named dean of Wichita State University’s college of engineering. Toro-Ramos, who assumed the post Aug. 1, is the college’s first female dean. She also is the first Hispanic to hold the position. Toro-Ramos was previously dean of the school of engineering and applied sciences at the University of New Haven, a private college in West Haven, Conn.

Eric A. Weinstock, MS GeoPhys 80, has been promoted to vice president at CA Rich Consultants Inc. in Plainview, N.Y.

Paul “Pete” F. Wellborn III, ICS 86, has been named to the board of directors of the Georgia Technology Authority by Gov. Sonny Perdue. Wellborn is an attorney specializing in technology law and is the founding partner of Wellborn & Wallace in Atlanta. Previously, he was a partner at Arnall Golden Gregory law firm.
Icing on the Groom's Cake

For many years, Jane Henry delighted in the fact that she could boast of attending more Georgia Tech football games than her alumnus husband, Stanley. Little did she know, he had a secret. “I used to kid him because I had only missed one game — on our wedding day,” she said.

Although the afternoon game didn’t interfere with the 7:30 p.m. wedding, the couple had picked the date because the pre-Thanksgiving match wasn’t an important game for Tech.

After 25 years, he made his confession. Stanley admitted he and his brother had gone to the game on the day of their wedding, Nov. 20, 1948, to watch the Yellow Jackets rout the Citadel 54-0.

Because her husband had taken their son to Indian Guides camp on two occasions, she figured he missed three games.

“He let me tell that story for 25 years,” Henry said of her late husband. “He was on time for the wedding, but he didn’t let me know he’d gone to that game.”

Henry has missed only one other game.

“Three years ago I went to the south of France with my niece and our plane left just about time for kickoff,” she said.

An Atlanta native, Henry had been a Tech fan long before her long-standing record began.

“I had been going to Tech football games since I was in high school. I started dating Stanley when I was in high school. He played in the Tech band in the prewar days and I actually sat in the band with him,” Henry said.

“My son-in-law takes me now. We are a big Tech family. My oldest daughter, Pamela, attended with a Tech football player. My youngest daughter, Margaret, attended with a Tech football player and my daughter’s daughter, Sarah, is coming to Tech this fall. My son-in-law, Ryan, is a Tech football player and my son’s son, Andrew, is a Tech football player,” Henry said with a laugh.

Jane and Stanley Henry were married Nov. 20, 1948 — after Stanley attended the Tech game.

William S. Henry, graduated from Tech with a Bachelor of Science in Engineering degree in 1979. His sister, Cecilia Henry Kurland, graduated from Scott College, but came back and got her master’s degree in industrial management at Tech in 1978.

Stanley Henry, who died in 1992, was due to graduate from Tech in 1943, “but he took a world cruise with World War II,” she said.

Henry said her husband had his own way of teasing his loyal Tech fan wife. “I went back to teaching after taking a 20-year vacation to raise my children. In DeKalb at that time they required a master’s degree. I took my master’s courses at Ogletorpe University, but I found it easier to take my sixth-year degree courses from the University of Georgia. When I got my degree, it was black and red and I brought it home and put it up on my husband’s chest. He looked at it and said, ‘Well, there are some people who have дан- друфт and there are some people who have athlete’s foot and then there are others who have degrees from Georgia,’” she recalled with a laugh.

Barry Pate (EE 73, MS EE 74), and my son, Kelly Reese Bonk, IE 97, and Andy Bonk, MS ME 92, announce the birth of a son, Cade Frisbee, 6, and Margaret, 4, and brother, Andrew Louis, on Feb. 10. Jimmy also lives in Centreville, Va.

Eric Brown, AE 91, recently accepted a position as Accenture as a manager of supply chain consulting. He and his wife, Stephanie, and their children, Alexandra, 4, and Mitchell, 1, live in Ridgefield, Conn.

Steven Chan, BC 92, of Duluth, Ga., opened a quick-casual Asian restaurant called Cafe Sampilan on Howell Mill Road in Atlanta in March and an upscale Chinese restaurant called Sampilan next door in April. The family also owns three other Atlanta restaurants, Tin Drum, Thai Spice and Thai Diner.

Beau Clark, CE 94, and his wife, Christina, announce the birth of a son, Cade Frisbee, on Jan. 15. Clark is president of Blackrock Construction in Jacksonville Beach, Fla., where the family lives.

Benjamin Cowan, CS 93, and his wife, Joan, announce the birth of a son, Charles Alexander. Joan Cowan was born in Duluth, Ga.

Chris Cuniff, IntA 97, and Mandy Meador Cuniff, IntA 96, graduated from the Georgia Institute of Technology with a master’s degree in public affairs in May. A&M University with a master’s degree in public affairs in May. A&M University with a master’s degree in public affairs in May. A&M University with a master’s degree in public affairs in May. A&M University with a master’s degree in public affairs in May. A&M University with a master’s degree in public affairs in May. A&M University with a master’s degree in public affairs in May.

Luke Davis, CE 97, MS CE 99, and his wife, Katie, announce the birth of a son, Joseph Scott, on June 9. Davis works as a senior programmer/analyst for Open Technology Group Inc. The family lives in Edgewater, Md.

Lynn Deutsch, MS CP 90, has been appointed to the Master Teacher and Academic Coach Implementation Committee by Georgia Gov. Sonny Perdue. The committee was created to recognize Georgia teachers who are impacting student achievement. The Master Teacher Recognition Program will create a pool of teachers from which academic coaches will be chosen. Academic coaches will be released from teaching for part of the day to work with other teachers, induct new teachers, analyze student achievement data, make recommendations for school improvement and implement the new Georgia Performance Standards Curriculum. Deutsch is currently employed in the Charter School Compliance Office of the Georgia Department of Education. She and her husband, Barry, have three children and live in Dunwoody, Ga.

Brian S. Dietzman, IntA 96, graduated from the Bush School of Government and Public Service at Texas A&M University with a master’s degree in public affairs in May. An Army captain, Dietzman lives in West Point, N.Y.

Sean W. Dobson, Biol 96, graduated from medical school at Wake Forest University in May and is now performing his anesthesiology residency at Duke University. Dobson lives in Winston-Salem, N.C.

Linda Adams Dunlap, EE 92, and Sean Dunlap, EE 92, announce the birth of a son, Scott Thomas, on March 1. Scott joins sister Kelly and brother Stephen at the family’s home in Norcross, Ga. Sean is a software engineer at Broadcom and Linda is a full-time mother.

William Gregory Elliott, ME 95, and his wife, Susan, announce the birth of a son, Ryan Thomas, on March 10. Ryan joins brother Scott, 2, at the family’s home in Greenville, S.C. Elliott is a project engineer.

Liza Lovejoy Fritchley, Mgt 97, and Andy Fritchley, ME 96, announce the birth of a daughter, Tatum Elizabeth, on May 3. Tatum joins twin brothers Aaron and Nathan, 2, at the family’s home in LakeCorra, Ga. Andy is a Web developer with B&K and Liza is vice president of senior services for West Georgia Health System.

M. David Galin, EE 90, has been named a partner in the law firm of Renner, Otto, Boiselle & Sklar in Cleveland. He and his wife, Sharon, and their children live in Shaker Heights, Ohio.

Kareen Crutchfield Gallen, ME 96, and Kevin Gallen, Biol 96, announce the birth of a son, Quinn Michael, on Jan. 4. Karen is an engineering team leader for Arifex Inc. and Kevin is an orthopedic surgeon.
Nunn Gets Franklin Award for Lifetime of Public Service

Former Georgia Sen. Sam Nunn, EE 93, has received the 2005 Benjamin Franklin Medal for distinguishing public service in recognition of his lifetime of service. Nunn has served as a member of the Georgia House of Representatives, a U.S. senator for 24 years and currently as co-chair and CEO of the Nuclear Threat Initiative. Nunn also serves as a distinguished professor in the Sam Nunn School of International Affairs at Tech. Nunn is well known for his devotion to the reduction of global threats from nuclear, biological and chemical weapons discarded after the breakup of the Warsaw Pact countries in the late 1980s. His bipartisan cooperation with Republican Sen. Richard Lugar resulted in the Nunn-Lugar Cooperative Threat Reduction Program that provided assistance to the former Soviet Union and its satellite republics for the destruction of excess weapons.

The Benjamin Franklin Medal for Distinguished Public Service was established in 1987 by the American Philosophical Society to honor exceptional contributions to the general welfare of the world. The medal is the society’s highest award for distinguished public service and the sciences. The Franklin Medal is given to only one person and is not awarded every year. Previous winners include retiring Supreme Court Justice Sandra Day O’Connor, Irish human rights advocate Mary Robinson and former South African President Nelson Mandela.

Sam Nunn

Steve Lowo, EE 91, has been named to the State Children’s Trust Fund Commission by Georgia Gov. Sonny Perdue. Lowe, 10th Congressional District representative, is an engineering consultant with CSL Consulting Inc. He and his wife, Wendy, have one son and live in Jasper, Ga.


Dana Ringle Matlock, EE 97, and James “Jamie” Matlock IV, BC 98, announce the birth of son, Austin James, on April 19. Dana is an information technology solutions manager with UPS Supply Chain Solutions and Jamie is a project manager with Beavrs Enterprises. The family lives in Chamblee, Ga.

Jimmy Matthews, CE 95, a captain in the U.S. Air Force, graduated from the Air Force Institute of Technology with a master’s degree in nuclear engineering. He is stationed at Fort Belvoir, Va., where he works with the international counter-proliferation program in Central Asia. He lives in Alexandria, Va.

Elizabeth Gramling Folsom Fahey, EE 91, has been named as a surgical oncology fellow at the University of Texas-San Antonio’s School of Medicine.

Rathmann, Arch 95, present-ed “Body and Architecture: Explorations from Composition to Theory-driven Space” at A Beginner’s Mind: The 21st National Conference on the Beginning Design Student at the University of Texas-San Antonio in February. Rathmann is a professor at architecture at the Savannah College of Art and Design. He and his wife, Robin, live in Savannah, Ga.

Raymond Rogers, Phys 91, has accepted a position as a product engineering manager for Electricfil Corp. Rogers lives in Whitmore Lake, Mich.

Mary Russell, EE 92, and Jeff Sanders were married.
May 14. Russell is a product manager with Adtran. The couple live in Huntsville, Ala.

Johan Samuel, IE 93, and his wife, Elaine, announced the birth of their son, Miller Jake, on May 12. Miller joins brother Nathan at the family’s home in Charlotte, N.C.

Sherman is a regional director for Eclipsys Corp.

Almeena Parsons

Kimberly-Clark. The couple live in Atlanta.

David, of Smyrna, Tenn., and his wife, Kelly, of Hampton, Va., announce the birth of a daughter, Alexandra Brady, on May 19. Smith is an aerospace engineer.

Vicky Smith

PhD 95, and Michael Polashock were married Feb. 19. Smith works in the corporate research and development division for Kimberly-Clark. The couple live in Roswell, Ga.

Dana Gentry Stevens

ChE 95, and her husband, David, of Smyrna, Tenn., announce the birth of a daughter, Jourdan Cady, on Feb. 2. Stevens is a full-time mother.

Neal E. Venter

Mr. and Mrs. Venter announce the birth of a daughter, Ella Marie, on May 5. Neal is a senior engineering analyst with Curtis-Wright Electro-Mechanical Corp. in Cheswick, Pa. The family lives in Murrysville, Pa.

Kristi Nichole Welch

IE 96, and John Infield were married on Feb. 6 in Steamboat Springs, Colo. Welch works as a human resources administrator with Whole Foods Market in Denver.

Todd Whittemore

ChE 91, transferred to Singapore in May to serve as process coordinator and launch manager for Shell Eastern Petroleum’s new ethylene cracker complex slated for start-up in mid-2009. He and his wife, Megan Lane Whittemore, ChE 91, and their children, Courtney, 7, Brenden, 5, and Katie, 2, have relocated to Singapore from Houston.

Hans Wilson

MBA 92, and his wife, Lisa, announce the birth of a son, Kurt, on April 12. Kurt joins brothers Hans Jr. and sister Kiersten at the family’s home in Peachtree City, Ga. Wilson is a certified public accountant with NCR in Peachtree City.

Michael Yin

PITC 93, has been appointed vice president of marketing for Positive Networks in Overland Park, Kan. Yin will direct the marketing and branding strategies for Positive Networks and its leading managed remote access service, PositivePRO.

2000s

Bethany Avington Atkinson

MBA 01, and Thomas Atkinson, BS 96, ME 97, of Decatur, Ga., announce the birth of son Luke Thomas on May 7. Bethany is in tennis sales for Adidas in Georgia and Florida. Thomas is a financial analyst for Delta Airlines.

Margaret Bolton

MECH 03, has accepted a position as an engineer with ALZA Corp., a Johnson & Johnson pharmaceutical company in Vacaville, Calif.

Charley F. Brown

BS Biol 04, was promoted to associate at Needle & Rosenberg, an Atlanta-based law firm.

John Hardison

CmpE 01, and his wife, Bonnie, announce the birth of their son, Rose Lynette, on May 5. The family lives in Gurley, Ala.

Hardison is a civilian computer engineer for the Department of Defense.

Brandi Hight

IE 02, and Howard Lanier, ChE 99, were married May 30. The couple live in Berkeley, Calif.

Kirin Kumar

Mgt 05, has joined the softball coaching staff at the University of Tulsa as an assistant coach. Kumar was a utility player for the Yellow Jackets softball team, playing mostly at second base. Kumar will work for former Tech assistant coach John Bargfeldt, who was hired as head coach at the university in June. Kumar played under Bargfeldt at Tech during the 2004 season. Kumar will relocate to the Tulsa, Okla., area.

Olivia T. Luk

Chem 00, received her law degree from the Washington College of Law on May 22 and has joined Powell Goldstein law firm in McLean, Va., as a patent attorney after five years with the U.S. Patent and Trademark Office as a patent examiner. Luk lives in McLean.

David A. McClain

IE 02, started a private financial advice practice in January. McClain’s practice specializes in advising affluent clients using Monte Carlo simulation, a type of spreadsheet simulation that randomly generates values for uncertain variables over and over to simulate a model. McClain lives in Greenwich, Conn.

Isaac Pendergrass

CmpE 02, has joined the Albany, Ore., office of The Prudential Real Estate Professionals as a broker. Pendergrass previously worked as a control systems engineer.

Kevin S. Rees

BS ME 02, has been named a fellow of the American Society of Mechanical Engineers. Reece, chief of the maintenance engineering division for the U.S. Army Aviation Engineering Directorate, lives in Corpus Christi, Texas.

Dan Schultz

MS CP 01, was named planning and zoning director for the city of Sugar Hill, Ga., in June. Schultz will be responsible for overseeing the update of the city’s land-use map, the creation of a town center master plan and the regular expansion of city limits through annexation. Schultz previously was a senior planner in Jackson County, Ga. He holds a master’s degree in public administration from Florida State University and a bachelor’s degree in political science from Kansas State University and is a certified planner with the American Institute of Certified Planners. He and his wife, Blaine, and their two children live in Buford, Ga.

Virginia Smith

BS ME 03, is serving two years as a Peace Corps volunteer in Samoa. When she began the assignment in July 2004, Smith was working for Lowe Engineering, which gave her an extended leave of absence to work with the Peace Corps rather than allow her to resign. Smith is working on several water projects to bring clean water to villages in Samoa.

Rafael E. Suazo

CE 04, an ensign in the U.S. Navy, recently graduated from the Basic Civil Engineer Corps Officer School.

Fleming Heads Commercialization Initiative

Stephen Fleming, Phsy 83, an Atlanta investor and entrepreneur, was named to head Georgia Tech’s new commercialization initiative designed to streamline the handling of intellectual property, accelerate the licensing of technology and make resources more readily accessible to business and industry.

Fleming will head commercial services at Tech. His responsibilities include evaluation of invention disclosures, marketing of Georgia Tech intellectual property and assistance to faculty members interested in forming start-up companies. The initiative will also expand the universities in the rate of technology licenses granted to start-up companies. Overall for fiscal year 2004, Georgia Tech licensed 15 start-up companies, received 35 patents, filed 277 invention disclosures and brought in $2.3 million in revenue.
Deaths

1920s

Claude T. Grizzard Jr., CE 28, of Atlanta, on May 17. He was a partner, past president and chairman of Grizzard Advertising and Grizzard & Haas. Mr. Grizzard was president of the Mail Advertising Service Association International in 1938-39 and a founder of the Associated Mail Advertising Agencies. He was a lifetime member of the Salvation Army Advisory Board, a two-term director of the Atlanta Chamber of Commerce and co-chairman of the Atlanta Plan of Improvement Campaign. The Atlanta chapter of the National Society of Fundraising Executives awarded him its Lifetime Achievement Award. He also received the Atlanta Advertising Club’s Silver Medal Award.

Francis Marion Hill, GE 27, of Atlanta, on May 17. He began his teaching career at Georgia Tech in 1930 and was promoted to full professor in the Department of Engineering Science and Mechanics in 1955. He retired from teaching in 1973.

Survivors include son Craig M. Hill, Phys 68, MS Phys 69, PhD 75.

1930s

Philip S. Commins, GS 36, of Atlanta, on July 8. He was employed by National Linen Service before and after serving in the Army during World War II and worked his way up to plant manager. In his retirement years, Mr. Commins volunteered with Meals on Wheels and played tennis well into his 80s at the Bitsy Grant Tennis Center.

Charles L. Cover, ChE 38, of Fredericksburg, Texas, on May 6. He served as a Navy lieutenant commander during World War II and earned a Bronze Star. He later was a captain in the Naval Reserve. Mr. Cover retired from Exxon.

Edward S. Crouch, EE 32, of Griffin, Ga., on April 14. He retired from Crouch Co. Inc.

William J. Davis, Cle 34, of Atlanta, on April 27. A member of Phi Delta Theta at Tech, he was vice president and general manager of building products for Alcoa Aluminum Corp.

Coye V. Edwards, CE 34, of Louisville, Ky., on July 4. He retired from the Army Corps of Engineers.

Lyman A. Hall Sr., Cle 32, of Marietta, Ga., on May 28. A co-op student at Georgia Tech, he shared the same name as the institute’s second president but was not related.

He worked for the Technique and as the night manager at Atlanta’s Ship Ahoy restaurant. Financial woes during the Depression forced him to drop out of Tech just shy of graduation and take a job with the Atlanta Constitution as a circulation district manager. He also took photographs for the Constitution and other newspapers, including the Chicago Tribune.

At the outbreak of World War II, Mr. Hall returned to Tech to earn a certificate in meteorology and served as an Air Corps instructor at Southern Field in Americus, Ga. He founded Hall Printing Co. in Marietta in 1951.

Donald C. Johnston Sr., TE 37, of Duluth, Ga., on April 13. He was an Alexander-Tharpe Fund member and had given to Roll Call for 57 years. Mr. Johnston was the retired owner of Strawberry Creek Enterprises. Survivors include son Donald C. Johnston Jr., IM 71.

J. Guyton Parks, GS 37, of Montgomery, Ala., on Jan. 12. He retired from the Advertiser Co.

Robert G. Strauss, ME 32, of West Hartford, Conn., on Feb. 6. During World War II, he served as a Navy diver in both the Atlantic and Pacific oceans and was discharged as a lieutenant commander. His professional career included the design of pneumatic tools at Ingersoll Rand and work at the Embart and Plax Corp.

Mr. Strauss also was the manager of research and development at a Monsanto facility and held several patents in plastic processing. Survivors include nephew Kenneth McLain, Phys 59.

Grant H. Weaver, IM 39, of Atlanta, on March 10. He retired from Life of Georgia/Southland Life Insurance.

1940s

Herbert M. Abelson, IM 42, of Hixon, Tenn., on April 26.

James Edwin Chambers, EE 42, of Atlanta, on June 5. He served in the Army Signal Corps during World War II. As a radio announcer and for many years a local radio program that broadcast on Sunday mornings. He also was a designer and an owner of the Dandridge Golf & Country Club.

Ruben T. “R.T.” Felknor, CE 47, of Dandridge, Tenn., on May 27. A Navy veteran of World War II, Mr. Felknor worked for Southern Railroad and American Enka before founding Felknor Real Estate & Auction Co. in 1961. Mr. Felknor, who served as a commissioner in Tennessee’s Jackson County, also was a high school football game announcer and for many years had a local radio program.

Benjamin “Davis” Fitzgerald Jr., IM 43, of Atlanta, on July 7. A member of Phi Delta Theta fraternity, Mr. Fitzgerald interrupted his Tech education to serve in the Navy as a lieutenant during World War II. He was vice president and assistant treasurer of the Trust Co. of Georgia.

Delbert Van Fletcher, ChE 40, of West Grove, Pa., on May 20. He worked for the DuPont Co. for 39 years and was instrumental in the development of such products as DDT, Teflon, Malathion and Tupperware.

After retirement, Mr. Fletcher became a master gardener.

Dannette Mays Gillis, ChE 48, of Coveland, Fla., on March 25. She served with the Army in India during World War II and worked at the Esso Refinery in Baton Rouge, La. She resigned to pursue a degree in theology at Emory University and became a pastor with the Florida Conference of the United Methodist Church in 1950. He retired in 1986.

Edward E. Hara, ME 41, of Seabrook, Md., on April 24.

James L. Harris, IE 49, of Alabaster, Ala., on July 8. He retired from Southwire Co.

Ernest W. Karlin, ME 48, of Delray Beach, Fla., on May 3. He was president of Karlin Associates Inc.

Louie Page Latham Jr., IM 42, of Atlanta, on July 22. He was the third-generation head of Latham Time Corp. He moved the company from a manufacturer of wall and watchman clocks and later computerized systems for schools. In his spare time, Mr. Latham crafted intricate clocks. He also volunteered with the Salvation Army, Wesley Woods Geriatric Center and the Tommy Nobis Center.

John E. O’Keefe Jr., CE 49, of Alisquippa, Pa., on June 6. The son of John E. O’Keefe Sr., ChE 1902, he served in the Navy during World War II as a radio tech-

Tennis Ace Russell Bobbitt Dies

Georgia Tech tennis star Russell Bobbitt, IM 40, played the first postwar match at Wimbledon in 1945.

“The Queen Mother, bless her heart, was just a great tennis fan,” Mr. Bobbitt told the Atlanta Journal-Constitution in 2000. “The grass was perfect, like playing on a golf green. Playing at Wimbledon is like playing at the hallowed halls.”

Mr. Bobbitt, a resident of Sandy Springs, Ga., died June 16.

He grew up near Georgia Tech’s tennis courts and was mentored by the legendary Bitsy Grant. As a Tech student, he teamed with Bill Moore to win the Southeastern Conference doubles crown in 1938. He reached the doubles semifinals of the U.S. Championships in 1940. Mr. Bobbitt also served as president of the Atlanta Lawn Tennis Association and as vice president of the Georgia Association of Tennis.

While serving in the Army during World War II, he was selected to play the first exhibition doubles match at Wimbledon’s All England Lawn Tennis Club in six years.

He worked near the Georgia Tech campus as a C&S Bank vice president at its North Avenue branch until his retirement in 1975. Mr. Bobbitt also served as a president of the Buckhead Rotary Club during the early 1970s.
nician in Corpus Christi, Texas. A member of Phi Delta Theta fraternity at Tech, he launched the computer applications office for the American Bridge Division of U.S. Steel. He retired as the office’s chief engineer in 1985. He helped establish Our Lady of Fatima Church and School, was a highly awarded leader in the Boy Scouts of America and, as an advocate for the hearing impaired, served on several government committees and advisory panels. Survivors include son Francis “Patrick” O’Keefe, IM 85.

Richard O. Lowrey, AE 43, of Madison, Conn., on April 29. He played on the Georgia Tech Cotton Bowl team in 1943 and landed on Okinawa in 1945 as a Marine during World War II. He retired from Lockheed Martin Marietta in 1987 as the division manager for advanced design.

Charles Norris Martin Jr. IM 40, of Roswell, Ga., on June 13. He was commissioned as a Navy ensign in 1943 and discharged as a second lieutenant in 1946 after serving in the Pacific during World War II and earning commendations including the Bronze Star. He was the owner of Martin- Johnson Printing Co., publisher of the Atlanta Suburban Reporter and the writer of its editorial column. He served as president of the Georgia Press Association and the East Point Chamber of Commerce and as a member of the Fulton County Board of Education. Mr. Martin received the Georgia Press Association’s award for the “most fearless editorial” in 1960, a distinguished service award from the U.S. Chamber of Commerce and was chosen by Time magazine as one of Atlanta’s “Hundreds Leaders of Tomorrow” in 1958.

Charles E. “Ed” McGinnis, EE 49, of Tampa and Orlando, Fla., on April 28. He helped develop the earliest radar-jammer equipment in the Pacific during World War II. His career included work with the National Security Agency, the CIA and the University of South Florida.

Floyd Mitchell Jr. IM 43, of Columbus, Ga., on May 15. He was an Alexander-Tharpe Fund member and chairman of the board of the Columbus Computer Center.

Rend T. Parham, IM 48, of Carrollton, Ga., on July 18. A staff sergeant in the Army Air Corps during World War II, he served as a B-29 radar operator on 31 combat missions in the Pacific Theater and received the Distinguished Flying Cross and the Air Medal. He retired as an industrial engineer from Uniroyal Inc.

Richard C. Reed Jr. ME 48, of Lake Worth, Fla., on April 30.


Charles Edward Turner, CE 42, of Atlanta, on July 1. He served as a B-17 bomber pilot and instructor in Europe during World War II. After graduating from the Emory University School of Dentistry, he served in Korea with the 7th Cavalry Division. He retired from active military duty as an Army colonel in 1974 and returned to Emory as an associate professor of prosthodontics.

Edwin S. Voorhees, ME 42, of Murfreesboro, Tenn., on March 31. An Alexander-Tharpe Fund member, he retired from Middle Tennessee State University.

Russell B. Watson Jr. IM 49, of Tyler, Texas, on June 8. He founded and operated the largest retail brick and fireplace company in east Texas. Mr. Watson was a member of the group that worked to establish Texas Eastern University, now the University of Texas at Tyler. He served as a state committee member for the Texas Democratic Party and was among the founders of the Tyler Museum of Art. Mr. Watson also was a member of the board of regents for the Texas State Technical Institute.

Fred H. Woodruff, EE 48, of Jackson, Miss., on March 19. He worked for 40 years in sales, marketing and management with Siemens Energy & Automation Inc. and its predecessors, Allis-Chalmers and Siemens Allis.

1950s

Stanley E. Berman, IE 57, of Marietta, Ga., on July 11. He retired as a computer consultant with GE after 35 years of service.

M. Devon Bogue, CE 50, of Big Canoe, Ga., on June 19. He was director of the Fulton County Health Department’s Environmental Health Division and the regional director of the U.S. Environmental Control Administration. He ended his career in Washington, D.C., where he worked at the Communicable Disease Center. Mr. Bogue held executive positions with private engineering firms doing solid waste management and resource recovery programs throughout the country. He also worked with the Keep Pickens Beautiful campaign in Georgia’s Pickens County.

Nathaniel S. Clark, Text 35, of Walterboro, S.C., on May 7.

Kenneth W. Faulkner, IM 50, of Atlanta, on April 23. He served in the Army Air Corps during World War II and was a prisoner of war after his B-17 was shot down over Germany. He launched the Ken Faulkner Co. in 1961 and served on the rules committee of the National Cottonseed Products Association and as president of the Association of Cottonseed Products Dealers. Mr. Faulkner also served as a ruling elder for Presbyterian Church USA and volunteered for Head-Start programs.
Integrated Circuit Inventor Jack Kilby Dies

Nobel Prize winner Jack Kilby, the inventor of the integrated circuit and recipient of an honorary doctorate from Georgia Tech, died June 20 in Dallas. He invented the first monolithic integrated circuit, which laid the foundation for the field of modern microelectronics. Mr. Kilby was awarded the Nobel Prize in physics in 2000. Tech awarded him an honorary doctorate in 2001.

“If my opinion there are only a handful of people whose works have truly transformed the world and the way we live in it,” Mr. Harry E. Ford, Thomas Edison, the Wright Brothers and Jack Kilby,” Texas Instruments chairman Tom Engibous said in a statement. “If there is ever a seminal invention that transformed not only our industry but our world, it was Jack’s invention of the first integrated circuit.”

A World War II Army veteran, he earned a bachelor’s degree in electrical engineering at the University of Illinois before joining Centralab in Milwaukee, where he worked with transistors. Mr. Kilby received a master’s degree in electrical engineering at the University of Wisconsin.

He moved to Dallas to work for Texas Instruments in 1958 and developed the idea of the integrated circuit. The same year, the company announced the first chips for customer evaluation in 1960. Two years later Texas Instruments won its first major integrated circuit contract to design and build a family of 22 special circuits for the Minuteman missile.

In 1970, Texas Instruments named Mr. Kilby director of engineering and technology for the Components Group. Mr. Kilby retired from Texas Instruments in 1985, but continued consulting work with the company until his death.
Rapid Success

Mark Teixeira spent only one season in the minor leagues before becoming a starter for Texas in 2003. The next year he exploded, becoming one of the most feared sluggers in the American League.

By Gary Libman

After being named the Maryland high school player of the year in 1997 and 1998, Mark Teixeira was drafted by Boston and could have signed with the Red Sox. Instead of turning pro, Teixeira attended Georgia Tech.

“I wanted to go to college at 18 to continue to be a kid — to have fun and also get my education,” he said sitting at his locker before a game in Anaheim this season.

“I knew I could have been a professional at 18 and succeeded, but you can never get back your college years, no matter what you try to do. Nothing can compare with the fun you have in college.

Attending Tech turned out to be an excellent choice.

Teixeira, 6-2, won the Dick Howser Trophy in 2000 as the National Collegiate Player of the Year during one of three outstanding college seasons, 1999-2001. While on campus he also met his wife, Leigh Williams, ID 01.

The Texas Rangers selected him in the first round of the June 2001 player draft. Teixeira spent only one season, 2002, in the minor leagues before becoming a starter for Texas in 2003. The next year he exploded, becoming one of the most feared sluggers in the American League. He finished fifth in home runs (38) and seventh in runs batted in (112).

Teixeira, 25, was pounding the ball even harder midway through this season. The 6-foot, 3-inch, 220-pound first baseman had reached these heights only four years after leaving Tech.

“He can hit any pitch in the strike zone for a home run. That’s what probably separates him from other hitters,” said Texas third baseman Hank Blalock, an American League all-star the last two seasons. “A lot of guys need the ball to be in a certain zone before they can hit it out.

“I think he’s already one of the best power hitters in the game. There’s no stopping him from being consistent and hitting 40 to 50 home runs every year.”

This rapid success doesn’t surprise Teixeira.

“To be honest,” he said, “I’ve never failed at the game. At every level I was always very successful. I think that builds confidence, and I didn’t want it to be different once I got to the big leagues.

“Part of me is very happy with the way things are going,” he said. “That’s me, stepping outside myself and looking at what I’ve accomplished.

“But the other part of me knows that I can be much better,” said Teixeira, wearing a blue Rangers T-shirt and shorts and a pair of flip-flops before the game, “and that’s the part that drives me to keep working. Fear of failure makes you work harder.”

Teixeira said he trains rigorously, but it was hard to play 162 games a year after shorter college and minor league seasons.

“We play 162 games in 180 days. Nothing can prepare you for that. Every night 40,000 people are cheering you on, and even more people are living and dying on every game you play. So you have to be on top of your game every night,” he said.

When he reached the Rangers, the minor league third baseman was asked not only to hit and field but to move to first base.

“I think it added a degree of difficulty, but it made every day new and interesting, and I like the challenge,” Teixeira said.

While acclimating to first base, he learned to deal with other challenges.

“In your rookie year, you go to all the new ball parks and face pitchers you’ve never faced, and a lot of things are thrown at you,” he said. “There’s the media and long-lost family that all of a sudden want to be your friend. Once you learn to deal with those things, it becomes easier. You perform better.

Teixeira said Tech was ideal for both developing as a player and getting a college education.

“Georgia Tech had everything I wanted,” he said. “It had a great baseball program, great academics, a beautiful campus, and when I visited, it just felt right when I met everybody.”

Teixeira continues to keep in touch with baseball coach Danny Hall and often speaks with Tech players when he visits Atlanta and hits with them in the batting cages.

“He stays very involved,” said Hall. “This May when we won the ACC tournament championship we were on the bus from Jacksonville to Atlanta. We were probably an hour out of Jacksonville and my cell phone rang. It was Mark congratulating us on winning.”

THE TEIXEIRA FILE

• Starred at Tech 1999-2001
• Won the Dick Howser Trophy in 2000 as the National Collegiate Player of the Year
• While at Tech, met future wife, Leigh Williams, ID 01
• Selected in the first round of the June 2001 player draft by the Texas Rangers
• Voted starting first baseman for the American League in 2005 All-Star Game.
“We’ve got some seasoned players with a lot of experience, but behind them is a lot of inexperience. Some of these new players are going to have to step it up a level.”

By Neil B. McGahee

Georgia Tech head football coach Chan Gailey’s third season ended on a high note with the Yellow Jackets posting an eighth-consecutive winning season and an eighth-straight bowl appearance — a 51-14 thrashing of Syracuse in the Champs Sports Bowl in Orlando, Fla.

“I think anytime you win like that, it carries over into the off-season,” Gailey said. “but that was what — eight months ago? We all know we’re only as good as what we’ve done lately. What we did then really doesn’t matter now, especially with the schedule we’re facing.”

Indeed, the Yellow Jackets’ 2005 schedule may be the nation’s toughest. The Jackets face last year’s national runner-up Auburn, Virginia Tech, Miami, Duke and Virginia on the road and play Clemson, Connecticut, North Carolina, North Carolina State, Wake Forest and Georgia at home.

“It’s a tough schedule, that’s for sure,” Gailey said. “I know it’s a coaching cliche, but you have to take it one game at a time. If you start looking at it as ‘oh no, we’re playing eight teams that were bowl eligible last year and six of them won,’ you can’t worry about all that. Right now, we’re worried about Auburn. When it comes time for North Carolina, we’ll worry about North Carolina.”

Tech’s defense, ranked 12th in the nation last year, expected to return 10 starters led by All-ACC middle linebacker Gerris Wilkinson, all-conference defensive end Eric Henderson and safety Chris Reis. Instead, the defense lost three players to academics, injuries and legal problems.

“We have quite a few of our defense returning but we have to work on building depth because of the people we lost,” Gailey said. “Our starting defensive line is pretty good with Henderson, Mansfield Wrotto, Adamm Oliver and Darryl Roberts. We’ve got some seasoned players with a lot of experience, but behind them is a lot of inexperience. Some of these new players are going to have to step it up a level.”

With Wilkinson anchoring the middle linebacker spot, the weak and strong side positions are up for grabs. Junior KaMichael Hall was moved to the strong side to capitalize on his pass rushing skills, leaving four redshirt players to compete for the weak side opening.

Opposition quarterbacks will have their hands full with safeties Dawan Landry and Chris Reis and cornerbacks Dennis Davis and Kenny Scott roaming the secondary.

Gailey said the challenge will be molding an effective offensive line. Only one player, guard Matt Rhodes, is a returner from last year. Even senior Brad Honeycutt will change positions, moving to right tackle after starting the last two years at right guard.

“We’re pretty athletic, but there are a lot of spots open and not very many guys with experience,” Gailey said. “Brad has a lot of quickness and strength. He’ll have to work on technique and consistency, but he can be a very good tackle.”

After misfiring at times in the regular season, quarterback Reggie Ball played one of his finest games in last year’s bowl game, passing for 207 yards and two touchdowns and winning the Most Valuable Player award. Gailey said he wants to see more of that kind of play from his junior signal caller.

“Reggie had a good spring,” Gailey said. “He continues to mature in the game. He handled some adversity last year and we hope that made him a stronger person and player. Really it’s all up to him. How good does he want to be? How consistent does he want to be?”

Former ACC rushing leader P.J. Daniels enters his senior season ranked fifth on Tech’s all-time rushing list with 2,416 yards.

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Former ACC rushing leader P.J. Daniels enters his senior season ranked fifth on Tech’s all-time rushing list with 2,416 yards.

“We’re in good shape in the running game,” Gailey said.

“Daniels, Chris Wood and Rashan Grant are returning and Tashard Choice, who transferred from Oklahoma, gives us four strong backs. The key for us is for these backs to stay healthy and avoid injuries.”

Last year’s freshman sensation wide receiver Calvin Johnson rewrote the Tech freshman record book with 48 receptions for 837 yards and seven touchdowns, earning the ACC Rookie of the Year award.

“The defenses are going to be paying a lot more attention to Calvin this year, so he has to take it upon himself to get better and become an even more well-rounded player,” said Gailey. “Last year, he wasn’t good with motion and moving around, but this year he’s much more mature so he can handle it.

“I’m also expecting a good year out of Damarius Bilbo. He has finally bought into the idea that wide receiver is a great spot for him, but he has to be a consistent wide receiver. If he can do that he has a chance to be very good.”
**Zupan Stars in ‘Murderball’**

Georgia Tech alumnus Mark Zupan stars in “Murderball,” a documentary film about quadriplegic wheelchair rugby that has electrified audiences since its release in July.

Zupan’s story follows the top-seeded U.S. team’s quest to win the gold medal at the 2002 world championships in Sweden and the players’ frustrations with negative misconceptions and stereotypes.

Zupan, who has been training at the Georgia Tech facilities and began playing quad rugby at the Shepherd Spinal Center in Atlanta, was paralyzed in a 1993 auto accident. After a half of rehabilitation, he transferred to Georgia Tech and began playing quad rugby in August in the world championships in Gifu, Japan.

A ferocious competitor, Zupan joined the U.S. Quad Rugby Association’s Atlanta team and later

the Texas Stampede in Austin. He quickly established himself as one of the premiere players in the league, winning four most valuable player awards and selection to play on the U.S. team that won the bronze medal in the Athens Paralympics.

Zupan said he doesn’t feel like a movie star, but he has rubbed shoulders with Hollywood celebrities and appeared on television several times, has his own ad for Reebok shoes and has been recognized in airports.

“I’m just grateful that the movie is answering questions that people won’t ask,” Zupan said. “It’s a big misconception that people in chairs can’t do anything.”

**Tech Athletes, Coaches Among Nation’s Elite**

It was a good year for Georgia Tech sports.

Thirty-three Yellow Jacket athletes were named to All-ACC teams last year, including three Players of the Year, three Rookies of the Year and four Coaches of the Year and Georgia Tech athletic programs placed 31st in the final National Association of Collegiate Directors of Athletics all-sports rankings for the second consecutive year. Tech’s 526 points equaled its 2003-04 ranking.

Schools are awarded points according to final standings in 20 sports — 10 men’s sports and 10 women’s sports — sanctioned by the National Collegiate Athletics Association. Georgia Tech sponsors 17 varsity sports, but indoor and outdoor track and field aren’t counted so the Yellow Jackets can earn points in only 15 sports.

All but one of the top 30 schools field all 20 varsity programs.

Fourteen Tech teams advanced to postseason play in 2004-05 — football, volleyball, men’s basketball, men’s swimming and diving, women’s swimming and diving, men’s indoor and outdoor track, women’s indoor and outdoor track, men’s tennis, women’s tennis, golf, softball and baseball.

Three Tech teams — women’s tennis, softball and baseball — won ACC tournament titles and four teams — volleyball, women’s tennis, softball and baseball — won ACC regular-season championships.

Eight Tech programs — men’s basketball, volleyball, golf, baseball, softball, women’s tennis, women’s indoor track and women’s outdoor track — finished ranked among the nation’s Top 25 including Top 10 rankings in golf, baseball, volleyball and women’s tennis.

Other athletics highlights include: Georgia Tech was the only school in the nation that won a football bowl game and at least one game in the NCAA men’s basketball and baseball tournaments.

Tech is one of only eight schools in the nation that won a football bowl game and at least one game in the NCAA men’s basketball tournament.

Tech’s golf and baseball teams were ranked No. 1 in the nation last year and four teams — golf, baseball, men’s basketball and women’s tennis — reached the Top 5 while volleyball, softball, men’s swimming and women’s indoor and outdoor track were all ranked in the Top 25.

Junior Chauncey Howard won a third consecutive NCAA title in the high jump as well as her sixth-straight ACC title.

The football team earned an eighth-consecutive bowl game.

Volleyball standout Lynette Moster, high jumper Howard and softball pitcher Jessica Sallinger were named ACC Players of the Year.

Football wide receiver Calvin Johnson, tennis All-American Kristi Miller, softball player Aileen Morales and pitcher Matt Wieters were voted ACC Rookies of the Year.

Coaches Bond Shymansky (volleyball), Lynnette Moster, volleyball standout Lynette Moster, high jumper Howard and softball pitcher Jessica Sallinger were named ACC Coaches of the Year.

**Alumnus Selected for U.S. Crew Team**

Jordan Smith, CEE 03, a former member of the Georgia Tech crew, won a place on the U.S. rowing team that will compete in August in the world championships in Gifu, Japan.

Smith, who has been training at the Penn AC rowing club in Philadelphia since graduation, and his teammates, Micah Boyd and coxswain Chase Phillips from the University of Wisconsin, needed to win two races and equal a qualifying time in the men’s pair with coxswain finals at the national testing regatta at Lake Murray, N.J., July 24.

They won the first race by four seconds and, after a sloppy start, won the second race by one second. But there was still a qualifying time that had to be met.

“At 1,000 meters to go, we were one second off the time,” Smith said. “Chase reminded us that we were racing for the chance to represent the United States and we pushed harder until we crossed the line and collapsed — we had no more to give. Our heads were throbbing and our legs were cramping and we looked for our coach. He raised his right hand and gave us a thumbs-up. We earned the right to represent the United States by 0.259 seconds.”

**Hall Fields Five-year Contract**

Head baseball coach Danny Hall, the winningest coach in Georgia Tech history, signed a five-year contract that will keep him in Atlanta until 2010.

“We’re very happy that Danny Hall will be our baseball coach for a long time,” said athletics director Dave Braine. “All he does is win with class and with good kids. He is the perfect fit for Georgia Tech.”

Hall has compiled a record of 529-230, averaging 44 wins per year, a Tech record for coaching victories in any sport season. He has led Tech to the NCAA tournament in 11 of his 12 years, including five regional championships and College World Series berths in 1994 and 2002.

Named ACC Coach of the Year in 2005 for the third time in his career, Hall has led the Yellow Jackets to four regular-season conference championships and three ACC tournament titles.

“I’m very excited to be staying at Georgia Tech,” Hall said. “I feel like this is home and I feel very privileged to stay here with my players, the administration and the fans. We are fully committed to having our baseball team remain at the top nationally. I look forward to trying to make the program even better than it is now.”
RAISING CAPITAL

Small Business grants give 'stamp of approval' to start-up companies

By T.J. Becker

Raising capital, a perennial challenge for start-ups, has gotten even tougher in recent years. Yet companies with innovative technologies may get some help from Uncle Sam.

The Small Business Innovation Research program and its sister entity, the Small Business Technology Transfer program, earmark more than $2 billion a year for small companies to conduct research for the federal government. While it must be cutting-edge research, not just an improvement on an existing widget, companies retain the rights to any intellectual property and are encouraged to commercialize the technology.

Companies in Tech's Advanced Technology Development Center incubator that have won awards give the programs an enthusiastic thumbs-up.

Orthonics Inc., which is developing new biomaterials for spinal disc repair, won a Small Business Technology Transfer grant for $100,000 last fall from the National Institutes of Health. "Launching any new company is difficult, but biotech start-ups have particular challenges," said Steve Kennedy, Orthonics' CEO. "It takes a long time to get to market — and a lot of money — so you can't bootstrap in traditional ways. This is no-strings-attached money from the federal government to do research and development."

Cash is king

Unlike a bank loan, the Small Business Innovative Research and Small Business Technology Transfer awards don't need to be repaid. Nor do companies have to give up equity. Depending on the federal agency sponsoring the research, the awards are either grants or contracts. Phase I awards, which run as much as $100,000, are given to explore the technical merit or feasibility of an idea. Phase II awards, which run as much as $750,000, are typically used to build a working prototype.

"SBIR money really brought down the technical risks for us," said Dave Burgess, director of business development at Radatec Inc. "Without it, we would have had to do more up-front engineering work or raise money from venture capital, which would have been impossible at the time or very onerous."

Radatec was launched in 2001 by two Georgia Tech researchers, Scott Billington and Jon Geisheimer, who licensed technology they developed at the Manufacturing Research Center and the Georgia Tech Research Institute. Radatec's diagnostic sensors enable machine operators to virtually see inside complex equipment, such as gas turbines used in power plants, and predict when repairs are needed.

Two early SBIR contracts from the National Aeronautics and Space Administration totaling $670,000 were instrumental in validating Radatec's technology, Burgess said.

Later, the company received grants totaling $600,000 from the National Science Foundation that helped it adapt its technology to commercialize its product. Invistics has received more than $1.2 million in SBIR funding from the NSF.

"The award is like a Good Housekeeping Seal on your research," Knight said. "We've been able to hire two PhDs who are leaders in their fields and partner with several professors at Georgia Tech and the Massachusetts Institute of Technology."

Winning a Phase I grant may also open doors to services within the SBIR program.

Edens said when he applied for a Phase II grant from the NSF, the agency arranged for an outside consulting firm to assist him with the business portion of his application. The consultants also had access to in-depth market research, which Edens incorporated into Stheno's formal business plan.

"Such data, which can cost $5,000 or more for a single report, is usually off-limits to entrepreneurs on shoestring budgets."

"Cash is king when you're a start-up, so it's important to take advantage of any free resources you can," Edens said.

Easier than expected

Some entrepreneurs don't seek Small Business funding because they fear government bureaucracy.

Yet at Orthonics, Kennedy has been pleased with the efficiency of the programs' disbursement system. "You don't receive the money in a lump sum because the government wants you to spend it gradually," he said.

Award recipients must also make periodic reports, but these can also be completed online and only take a few minutes, Kennedy said.

Experts agree that most of the work is front-loaded. Preparing an application can require 80 or more hours, and first-time applicants are advised to seek help writing their proposals.

Having a business plan — a requirement that can be submitted to ATDC — can make the application process easier.

"I literally pulled out sections from my business plan and expounded in areas where I needed to," said Radhika Subramanian, CEO of Emcien Inc., which recently won a Phase I SBIR grant from the NSF.

Subramanian's concern, however, that an SBIR award could distract her company, is a valid one. Some companies have become astute at winning awards, but fail to commercialize the resulting technology.

"Too many people let government solicitations drive their research. It should be the other way," Knight said. "Before you even consider writing a grant application, decide what your research needs to be to make your company successful. Then look through the various solicitation topics to see if the government is interested in that research."

Many agencies are getting tougher about awards, said Knight, who recently was appointed to an NSF advisory committee focused on increasing commercial success rates.

SBIR assistance

Eleven different federal agencies give SBIR awards, with five of these also participating in the STTR program.

Each agency has its own peculiarities, which can be confusing, especially for first-time applicants, said John Mills, head of the recently launched SBIR Assistance Program for the state of Georgia. Veteran award winners urge rookies to attend the national SBIR conference to meet one-on-one with representatives from various agencies.

For more information about the SBIR Assistance Program in Georgia, visit www.sbir.georgia.org. 

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