A Quick Read of Winter 2003 Contents

8 True Grit
Junior’s moved to smaller digs. Its next building was
involved by a wrecking ball. Through it all, this Tech
institution has survived to “hold the dust.”

9 Planet of the Ape
Terry Maple, head of Georgia Tech’s new Center for
Conservation and Behavior and former director of Zoo
Atlanta, kicked off the Alumni Association’s
Homecoming events by shar-
ing what he learned from
gorilla Willie B.

12 Homecoming
New places and familiar faces were Homecoming highlights,
especially the new Technology Square campus extension. And
55,000 fans in newly expanded Bobby Dodd Stadium saw the Yellow
Jackets put the sting to the Wolfpack.

16 State of the Institute
President Wayne Clough said Tech is reshaping the campus
to enhance its image as a leader among the world’s technologi-
cal universities and create an environ-
ment filled with “inter-
sections of innovation.”

19 Tech Gem
Georgia Tech and Atlanta cel-
librated the dedica-
tion of Technology Square, the Institute’s “cream piece” that bridges the Downtown Connector
and brings the campus and community together with
top-notch educational facilities, shops, restaurants and a hotel.

23 To the Point
Herky Harris’ “gila perno” business style spurred his
career to the top and has proven invaluable to the
Georgia Tech Foundation.

25 Saving Lives, Saving Jobs
Alumnus David Rice’s manufac-
turing business took a direct hit when a buggy company
packed its bags and moved overseas. Not only did Rice’s compa-
ny survive the round, it’s thriving as a maker of
bulletproof vests.

31 Buy Ad, Get Web Site
Two friends’ shared dream of owning
a radio station has become
reality in Yazoo City, Miss. Now they are relying on their Tech edu-
cation to make the station profitable.

34 Not Rich Yet
An “aha” moment led Vergil Daugherty to become
the first person in the United States to patent a finan-
cial product traded on exchanges and could lead to
untold riches.

37 War Hero
Medal of Honor winner and beloved Georgia Tech alumnus Gen.
Ray Davis, whose mil-
itary career spanned
World War II and the
Korean and Vietnam
wars, too laid to rest in
his Marine Blues.

40 Cowbell Tolls
The battle between Tech and Vanderbilt for the coveted
cowbell dates back nearly 80 years. The bell’s origin has been traced, but
some mysteries remain.

47 The Women’s Team
During the first event in the Georgia Tech Women’s
Wednesday series, best-selling author and visiting
professor Carl Evans tells businesswomen what they
should and should not do to succeed in the working world.

Departments
Letters .................................................. 5
Living History ...................................... 8
From the Hill ...................................... 19
In the Black ........................................ 22
Georgia Tech Foundation .................... 25
What’s the Word ................................. 24
Burdell and Friends .................... 25
Yellow Jackets .............................. 41
Real World .................................. 47
Letters
The Write Stuff

Wright Way, Wright Stuff

I recently visited Kitty Hawk, the famed locale of the Wright brothers’ first flight. The brothers owned a bicycle shop in Dayton, Ohio, and had that gut-wrenching determination that drove their quest for powered flight. The Wright Flying Machine brought success on Dec. 17, 1903, with Orville’s flight of 120 feet — an injustice much greater than it sounds.

The sands of Kitty Hawk, N.C., are a long way from Dayton, but that was the best place for their experiments. There are some exhibits to view in the small museum, mainly bicycle parts, reproductions, pictures and letters. Outside there are markers to show the distance of the four flights that day and a large monument atop the famed hill. Even with the “Centennial of Flight” celebration this year there was not a whole lot to see. But there is a great amount to feel.

There is something quintessentially American about Orville and Wilbur Wright’s historic achievement at Kitty Hawk. Standing atop that hill preparing for flight must have felt like the tallest mountain and the view to the end of the field wider than the greatest ocean. My knees buckled for a moment taking it all in and thinking of that leap of faith.

They worked independently like many inventors have done — even self-financing the venture from their bicycle business. Their intense preoccupation with their airplane was fueled not by economic necessity but from their perseverance to cross the technological barriers to human flight.

Wilbur and Orville Wright are the original two guys in a garage.

Todd A. Hartle, ICS 87
Decatur, Ga.

Dancing with The General

I first met Gen. Ray Davis in 1995, when I interviewed him for an article for TECH TOPICS. Later that year my husband William Dick, IE 63, and I invited Gen. Davis, accompanied by his wife Knox, to be our guest and the keynote for the annual Air Force Academy Ball in Atlanta. My son, David, who attended Tech his freshman year before transferring to the Air Force Academy, is a 1994 academy graduate.

Gen. Davis came in full Marine dress with a chest full of ribbons and the Medal of Honor around his neck. Seated next to him at dinner, I quite unexpectedly became shy. When I wished for was that he had been a “mustang” — and had completed two years in Tech’s NROTC program and was a jock on the track team.

In the spring of 2002, I called him and invited him to lunch with me and a couple of other Tech ex-Marines: Frank Faust, IM 57, and Bill Schaffer, IM 56, now a professor in the economics department. He readily agreed — if we would keep it low and private. I managed to lower him a full rank in my introductions. (In my eight years in the Marines, I had never seen a general and was discharged as a buck sergeant.) He graciously told me the only point of pride he wished for was that he had been a “mustang” — and had come up through the enlisted ranks.

We met several times after that, just the two of us and with other Tech admirers. I own’t claim to be a confidant, but I have no doubt that The General recognized that he had awakened in me a latent pride in the Marine Corps and Georgia Tech. This diminutive tiger was emblematic of the resolve that can be deep within us all.

Fred Berman, EE 57, MS EE 61
Atlanta

Now he’s gone and taken his valiant spirit with him. I learned something the evening I danced with The General. The measure of a man is not his stature — Gen. Davis was only 5 foot 6. It resides in his heart. Thank you, General, for the dance.

Laurie Retherock Dick
Alpharetta, Ga.

Gen. Davis Awakened Pride

The passing of Gen. Ray Davis leaves me in the throes of head shaking that would be more appropriate for a 17-year-old enlistee than a 71-year-old retiree.

Since meeting Gen. Davis two years ago, I had come to regard him as a “fast-forward” mentor who was everything the drill instructors at Parris Island told me that the Marine Corps was all about — purposeful, resolute, humble. He was an all-around good guy, a man who had started out of college as a cook in a bakery and found within himself the uncommon courage of a titan.

I arrived in Korea in March 1954, eight months after the fighting had ceased. I was a Marine PFC, trained at Great Lakes as a radio repairman and about as callow and unworlthy as a young, Southern, Jewish kid could be. I had completed two years in Tech’s NROTC program and was a jock on the track team.

My first combat-zone duty was in Pohang, guarding supply trains and maintaining an antrisp. Gen. Davis was already a god there — three and a half years after he led his men out of the Chosin Reservoir down to the evacuation port at Hungnam. I never saw real combat in Korea and returned to Tech in 1955 to complete my degree.

Even though I was aware of Tech’s obsession in the worlds of technology and the military, I had never known that Gen. Davis was one of us.

In the spring of 2002, I called him and invited him to lunch with me and a couple of other Tech ex-Marines: Frank Faust, IM 57, and Bill Schaffer, IM 56, now a professor in the economics department. He readily agreed — if we would keep it low and private. I managed to lower him a full rank in my introductions. (In my eight years in the Marines, I had never seen a general and was discharged as a buck sergeant.) He graciously told me the only point of pride he wished for was that he had been a “mustang” — and had come up through the enlisted ranks.

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Fred Berman, EE 57, MS EE 61
Atlanta

Viewpoint

Showcasing Leadership

The Alumni Association’s Leadership Georgia Tech — the annual training session for our Alumni Club leaders — was held Oct. 23 and 24.

More than 60 of our finest leaders from more than 50 alumni clubs around the country joined us for an evening of fun with the Jackets’ victory over Maryland, followed by a day of networking, training and presentations by Alumni Association and Athletic Association staff members and the Georgia Tech administration, headed by President Wayne Clough.

We have some terrific alumni leaders in these clubs and we applaud their efforts to connect you to Tech. They believe in what they’re doing, have a lot of fun and they know that Georgia Tech benefits from their efforts.

Our alumni clubs stay busy. Last year the clubs:
• Held more than 300 meetings showcasing Tech leaders and faculty, engaging more than 15,000 alumni and friends.
• Raised and awarded more than $128,000 in scholarship money for incoming Tech students.
• Told the Georgia Tech story to more than 12,000 potential Tech students at some 140 high school fairs around the country.
• Championed the Roll Call and its tremendous impact on Tech.
• Served as the face of Tech.

Next time you get an invitation to a Georgia Tech Alumni Club meeting, please respond and go.

The grand opening of Technology Square was also Oct. 24 and it was truly magnificent. You must see this “jewel in the crown” for Georgia Tech.

Technology Square could not have happened without extraordinary alumni generosity and the leadership, in particular alumni and President Clough and a long list of leaders at the Georgia Tech Foundation, including Charles Brown, Julian LeCraw, John Staton, Buck Stith and A.J. Land.

Joseph P. Irwin
Vice President and Executive Director
Georgia Tech Alumni Association
Letters to Heroes

Elementary school students correspond with alumni serving in harm's way

Children at Carmel Elementary School in Cherokee County in metro Atlanta are sending letters and care packages to Georgia Tech alumni serving in the military and deployed in Iraq to let them know they are not forgotten.

In response to a request from the Georgia Tech Parents Association last May, second-through-sixth-grade students at the school began the letter-writing campaign, but were only able to get off one mailing before classes ended for the summer.

This fall, the students resumed the letter-writing project:

"I think they are able to see what heroes are," Kim Harrison, a special education teacher at the school, told the Cherokee Tribune.

Harrison — whose son King is a management senior at Tech — is a member of the Georgia Tech Parents Association.

Eight classes at the school have written to several Tech alumni, including five sailors on the USS Nimitz and Navy Capt. Brian Dietzman, IoH 96.

"Captain Dietzman called us in late May after he received his letters from Kuwait. He wanted to make sure to thank the kids before school ended last year," Harrison said. "That was pretty exciting. We also wrote to the five alumni on the Nimitz. They have e-mailed and sent pictures. We were able to see their aircraft and learn about the jobs they are responsible for."

This school year, students started off with cards and letters to Geoff Whitaker, ME 00, an Army soldier who was injured in Iraq. In September, the classes sent a care package and about 250 letters to the Nimitz.

"After about five weeks, the care package arrived. They are still waiting on the letters," Harrison said. "I know they have been in many different ports so communication has been slow."

Bob Hope Was Real Credit

The letter about Bob Hope in the Fall issue of TECH TOPICS brought back my remembrance of a football game in the fall of 1944 — I believe it was Oct. 21 when Tech played Navy. Bob Hope, Bing Crosby and others were at the game and sat on the west side of the stadium. I was in the Navy V-12 unit. All the Army and Navy units sat on the east side.

We were sure the celebrities would give us a brief visit, probably when the game was over, so we were quite excited. They never made the trip across the field and many of us were disappointed. Pictures of Bob Hope are on pages 194 and 196 of the 1945 Blueprint.

When Bob Hope died recently, I told my wife Jo Ann [my Tech sweetheart] that I still regret that he did not come over and say a few words to the military group. I did enjoy Bob's movies and TV appearances. He was a real credit to the USA.

Billy Wallace, EE 46
Stillwater, Okla.

Sign of Home

Home is where the heart is and Georgia Tech is never far from the thoughts of Jim and Sarah Leathers of Charlotte, N.C. In August, the Leatherses named the drive to their seasonal home in Kearneysville, W.Va., Ramblin' Wreck Road, complete with the signature imprint of Buzz. Jim Leathers, ME 55, is a retired vice president of Duke Energy in Charlotte. Their new drive is a fitting destination for two Ramblin' Wreck children, Jamey Leathers, ME 81, of Rock Hill, S.C., and Susan Leathers Mitchell, ME 85, of North Potomac, Md.
Reactor Reaction

It was disappointing to read [in the electronic newsletter BUZZwords] about the end of Georgia Tech’s reactor, even though I knew it was coming. I hadn’t realized that the reactor had even been restarted after the Olympics.

The most disappointing thing about the closure was the paradox of having a reactor on campus during the Olympics—as if someone could steal the nuclear material and then make a bomb in time to threaten the 1996 Summer Olympic Games.

I only distinctly remember one lab I had at the Neely Reactor but, for me and others en route to our degrees, it was an inspiring and proud thing to have a reactor on campus.

George L. Fechter, NE 91
Statesboro, Ga.

Lifesaving Incident

I have a drowning proofing story and a tribute to swim coach Fred Lanoue. I took drowning proofing in the fall of 1956. In the summer of 1968, I was swimming with a buddy of mine and two young ladies in Canyon Lake near Phoenix.

The three of them started talking about swimming across the lake. I felt it was a lot farther across than it looked, but not wanting to appear “chicken,” I agreed and we all set out.

About half way across, one of the girls became fatigued, which led to panic. I got up in her face and told her if she would relax, I would “drownproof” her right there. She calmed down and I sent the other two back.

I supported her while I explained what we would do. “I want you to take a few deep breaths, then take a big one and hold it. Let your body relax. Your arms and legs will hang down and your face will drop under the water. In about 20 or 30 seconds, I will tap you on the back. Lift your hands almost out of the water, then force your hands sharply down and give one scissoring kick. This will cause your head to pop out of the water. Exhale and take another deep breath and let your body relax again.”

That girl was the best student I have ever taught. She did everything perfectly. In about 15 minutes we started back.

I don’t even remember her name now, but I do know that whatever kind of life she has had since that day, she owes to Fred Lanoue.

John D. Wiley, IM 61
Charlotte, N.C.

Ivins Great Talent

I was heartened and very pleased to see that Molly Ivins had been awarded the Ivan Allen Jr. Prize for Progress and Science. She is indeed a great talent, offering intelligent, witty and, yes, often barbed commentary on the political establishment.

Steve Collins, IM 70
Decatur, Ga.

Best Homecoming

I want to thank everyone at the Alumni Association for a great Homecoming. Everything was handed very well and it was the best Homecoming that I have attended in 40 years.

The Georgia Tech Hotel and Conference Center is excellent and the entire Technology Square area is a super addition to Georgia Tech and Atlanta. I hope the mayor of Atlanta appreciates what we have done together.

Harry Wells, IM 63
Jasper, Ga.

Tech's reactor was fea-
tured in a 1965 Vogue magazine mink coat advertisement.

Tech Topics • Winter 2003

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Address correspondence to:
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True Grit
Tom Klemis continues running family diner that is a Tech institution
By Maria M. Lameiras

In October 1993, when the wrecking ball demolished the old Junior’s Grill at the corner of Techwood Drive and North Avenue, owner Tom Klemis thought that was the end of what had become a Georgia Tech institution.

What Klemis didn’t count on was how important the little grill had become to Tech students and alumni.

“When my father and uncle took Junior’s over from the original owner in 1958, they only had a one-year lease on the property, but they were so grateful to have even just one year, to have the opportunity to show Georgia Tech how good they could be and then Georgia Tech would never let them go,” Klemis said.

This year marks the Klemis family’s 45th year of running Junior’s and the 55th year the grill has been a part of the Tech community.

The restaurant was opened in 1948 by Wilbur Gold Jr. in a strip of businesses on Techwood Drive that included a laundry, barbershop and the Techwood Theater.

Brothers-in-law James Klemis and John Chaknis bought the grill in 1958 after the Board of Regents put an option on the property for future development of a parking lot. Gold was given the option of a year-to-year lease, but he chose instead to sell and the two Greek-American brothers jumped at the chance to run their own college restaurant.

“My uncle John owned the Campbell’s Drive-In restaurant near Avondale High School, but he sold it because he was looking for a place near a college campus,” Tom Klemis said. “He and my father were married to sisters, my mother, Lula, and my aunt, Harriet, and they thought how wonderful it would be to work and own a business together as a family.”

Klemis was just 9 years old when his family took over the grill and he remembers spending many hours there as a young boy.

“I grew up at Junior’s. I would come down to the store regularly to help out and so would my two sisters and my cousins. There was an old-fashioned soda fountain and Dad would always make us a sundae or an ice cream soda,” he said. “On football Saturdays, Dad would give us a bag of hamburgers and send us over to the stadium to save our seats and he would come over after his shift.”

As it turned out, the family was able to run the restaurant in its original location until 1967, when the option on the building was finally exercised. They had to move, but they didn’t go far.

“By 1967, people weren’t getting haircuts nearly as often, so the barbershop space was available and we moved there,” Klemis said. “The only problem was that we thought how wonderful it would be to work and own a business together as a family.”

It was a hole-in-the-wall, but we still served 800 students a day.” Klemis said. “When alums come back, they come by and what they usually order, it is easy to put the food with the face. Many students who used to eat here still write notes and send Christmas cards or bring their families by,” he said.

In 1987, Junior’s expanded into what had been the Techwood Theater and it had become a community activities room.

In 1990, Klemis was sure Junior’s demise was near.

“We were in the grill and the television was on for the announcement of where the 1996 Olympics would be,” Klemis said. “Everyone was so excited, but it was the saddest day of my life because I thought that was the end of Junior’s.”

At the end of its lease in 1992, Junior’s was allowed to remain open on a month-to-month agreement because plans for the property weren’t yet settled. Finally, in October 1993, Junior’s doors closed for the last time and soon after the wrecking ball took the building down.

“I still had the key to the door, but there was no door,” Klemis said. “Before we closed, Brad Satterfield from Tech planning had come over to ask if I would still be interested in carrying Junior’s on if they could find space for it. I told him I would, but I didn’t see how that would happen with the Olympics coming and all of the property in the area spoken for.”

Meanwhile, without Klemis’ knowledge, petitions to save Junior’s were being circulated among students, alumni and staff.

“I attended a feasibility meeting and I thought it would only be a couple of folks,” Klemis said. “I walked in and I was shocked. There were all these folks around and everyone in the room was a Junior’s customer. Greg Wright (Arch 74) was the architect. He had used to have eggs over light with bacon, and Jeff Coblé (IE 91), who always used to have a ham and cheese omelet, was the project manager.”

In November 1993, work began renovating the space under the Tech Tower that once was The Robbery and had become a community activities room.

In February 1994, Junior’s reopened in its new home, where it continues to serve the Tech community. At Junior’s 50th anniversary celebration in 1998, a student who had salvaged the original Junior’s Grill sign presented it back to the owners and it hangs on the wall near the French Building entrance to the grill.

“For me, Junior’s raised me, it provided for our family. I went to Georgia Tech, a few years later went to Georgia Tech (Tomes Klemis, Biol 93),” Klemis said. “It is not the same campus today that it used to be, but we strive to hold and maintain that family culture here.”
By Kimberly Link-Wills

Terry Maple kicked off Homecoming 2003 by talking about mating, mental illness and animal magnetism.

Maple's keynote speech, “What Willie B. Revealed to his Psychologist,” drew a captive audience of alumni and friends to the new Global Learning Center to hear the story of Zoo Atlanta’s most famous gorilla, named for mayor William B. Hartsfield.

“My first impressions of him were sad because when I arrived in Atlanta in 1975 he was living in arguably the worst conditions of any gorilla that I’ve ever seen,” Maple said. “Zoo cages at the time were designed for ease of cleaning. There was nothing living in there except him. Willie lived alone in this steel enclosure for 27 years and never met another gorilla.

Maple, a Georgia Tech psychology professor since 1978, believed that abnormal behaviors in primates could be reversed with environmental and social intervention. “But I never dreamed that I would have to maintain his ties to Tech and continue to conduct research at the zoo with his students.

“We wanted to affect change in the zoological garden, to try to bring a more naturalistic approach to the ways animals were exhibited. It started with one very simple thing, that is, if you’re going to design for animals, just as when you design for people, you’ve got to know something about the critter you’re designing for. We must learn from the creatures everything we can about how to design for them so they can live well,” Maple said.

“If we put together a population of gorillas, we would not only be simulating nature, we would be from being an isolated gorilla, maybe even a crazy gorilla, to a natural gorilla to a social gorilla to a sexy gorilla.”

“For some reason I think I appeared to Willie B. on the very first day and throughout his life a little bit like one of his kind. I’m not ashamed of that. I’m proud of that as a matter of fact.”

For some reason I think I appeared to Willie B. on the very first day and throughout his life a little bit like one of his kind. I’m not ashamed of that. I’m proud of that as a matter of fact.

Willie B. was gradually socialized. When he was finally introduced to a female gorilla, she promptly slapped him in the face.

“That was the slap heard around the world. He didn’t lose his cool. He stood his ground,” Maple said.

“He did not fight back, but he postured, swaggered, didn’t lose his cool. He stood his ground,” Maple said. “That gorilla became a breeder. He became a symbolic gorilla to an emerging gorilla to a sexy gorilla.”

Willie B. would be a breeder. We didn’t think he would, but we hoped.

The Yerkes Primate Center at Emory loaned Zoo Atlanta 13 gorillas and the exhibit that put them in a naturalistic setting opened in 1988. The gorillas’ home is a crowning achievement for Maple, who stepped down as zoo director to return to Tech full time this year to create the Center for Conservation and Behavior.

Willie B. was gradually socialized. When he was finally introduced to a female gorilla, she promptly slapped him in the face.

“He reacted to me in an interesting way. Yes, I’m large. There are larger people. I’ve seen larger people. I’m also hairy. I’ve seen hairier people. But for some reason I think I appeared to Willie B. on the very first day and throughout his life a little bit like one of his kind. I’m not ashamed of that. I’m proud of that as a matter of fact. If he considered me to be another gorilla, that’s a good thing.”

Tears welled up in Maple’s eyes as he remembered the eulogy delivered by former mayor Andrew Young during the funeral for Willie B., who died in February 2000 at age 41.

“I had a chance to study them, learn from them, communicate with them, understand him. I had a chance to design something for him — and other gorillas, other animals,” Maple said. “I was able to feel the deep feeling that you have when you accomplish something that maybe a lot of people said couldn’t be done.”

“That gorilla became a breeder. He became a symbol for gorilla-kind. At his highest moment, he was the most famous gorilla in the world. It was a proud moment for all of us to be part of his true liberation.”
By Neil B. McGahee

More than 160 Georgia Tech alumni attended Homecoming seminars in the new Global Learning Center at Technology Square featuring a potpourri of topics including a look at student life, memory loss in aging and commercialization of technology.

The Oct. 2 keynote seminar by Tech psychology professor Terry Maple attracted 76 alumni, while the wine-tasting seminar that followed drew 93 alumni and was the best-attended event. Current events seminars looking at the Palestinian-Israeli conflict and the divided Koreas also were major draws.

“Alumni were overwhelmingly positive in their responses to the presenters,” said Valerie Donovan, assistant executive director of events for the Alumni Association. “They were eager to learn from Tech faculty — without the stress of quizzes and project deadlines — and our faculty has so much to offer. We look forward to offering an even broader range of topics next year.”

Alumni attending the “Tech Today” seminar got a glimpse of today’s student environment from Robert McMath, vice provost and dean of academic affairs. The 20-year veteran professor and administrator used numbers to reflect the changes in the student body at Tech.

“Many of you were here when enrollment at Georgia Tech was well under 10,000 students,” McMath said. “We have 16,866 currently enrolled and we expect to have nearly 25,000 by 2015. Right now we have a 2-to-1 ratio of undergraduate to graduate students, but our projected growth is in graduate studies. McMath said the face of the student body has changed significantly since the days of nearly all-white, all-male classes. “Twenty-four percent of the student population is Asian, 7 percent is black and 4 percent is Hispanic,” he said. “Women make up 27 percent of our students and 18 percent are from other countries.”

In the past, student retention has been a challenge, McMath said, “but we awarded 4,000 degrees in 2003, the most ever given at Tech and our freshman retention rate has soared to almost 70 percent. Tech has always been a tough school academically and it is still tough. That is one of the reasons we’re having success keeping more students on campus.”

McMath said a recent poll of Tech students showed that rigorous academics was most valued by 82 percent of the respondents while 68 percent cited the prestige of a Tech degree. An 85 percent six-year graduation rate would elevate Tech to the elite status enjoyed by such schools as Stanford, Cornell and MIT, McMath said.

John Shelly, IM 53, of Toledo, Ohio, unfazed by the numbers, just wanted to know one thing. “Do they still use those little blue books for tests?” he asked, referring to the bound testing booklets used by professors since the beginning of time.

“Believe it or not,” McMath said, “in this high-tech age, we still have a few courses that are tested on blue books.”

In the seminar on memory changes in normal human aging, psychology professor Anderson Smith quipped, “There are three things to worry about growing older. The first is memory — the other two I forget.”

“Even the best among us will experience memory changes as we get older,” Smith said. There are three types of memory — episodic, semantic and procedural.

“Episodic memory allows a person to retrieve events from the past, such as a wedding day,” Smith said, “while semantic memory provides no clue of when or where you learned a particular fact or idea. For example, what’s the definition of orange or what was Mark Twain’s real name? Procedural memory is a nonconscious memory like learning to ride a bicycle or swim.”

Smith said that aging takes a toll on episodic and semantic memory, but procedural memory remains intact. “I haven’t been on a bicycle in years,” Smith said. “But I know I could still ride one.”

Marie Thursby, the Hal and John Smith Chair in Entrepreneurship in the DulaFree College of Management, explained how Georgia Tech is dealing with the challenges of commercializing technology through the TIGER program.

“TIGER stands for Technological Innovations: Generating Economic Results and is based on the simple premise that competitive advantage and innovation depends as much on leveraging technology for competitive advantage as it does on the technology per se,” Thursby said.

The program, a two-year collaboration between several Georgia Tech colleges and the Emory University School of Law, provides law, economics, management and science and engineering graduate students a multidisciplinary process for taking innovations from the lab to the marketplace, Thursby explained.

Operating in teams, the participants consider economic, regulatory and legal mechanisms before the technology research is completed, enabling students to take potential commercial impact into account as they determine the direction of the research.

“Our goal is for these guys to leave Georgia Tech and Emory and hit the ground running,” Thursby said.

By Maria L. Lameiras

Computer-based gaming has come a long way since Pac-Man. Today realistic gaming software exists in every possible form, from action and sports to war and role playing. But the future will bring games that can do things we can only imagine, says Georgia Tech professor Michael Mateas.

“Computer-based gaming is the major emerging art form of the 21st century,” Mateas told alumni at a Homecoming seminar, “Artificial Intelligence in Interactive Drama and Art,” held Oct. 3 in the Global Learning Center at Technology Square.

Mateas, who holds a dual professorship in Tech’s School of Literature, Communication and Culture and in the College of Computing, said Tech’s new Electronic Game Lab was created to anticipate the phenomenal future of gaming.

“We are at the same point in the development of it that cinema was at in 1903,” Mateas said. “Like cinema, as games mature as medium, it is going to require major efforts in both technology research and experimentation in design and art.

“Computer-based gaming is to the 21st century what film was to the 20th century. As in cinema, there is a lot of technological research required and so it makes sense that at a school like Georgia Tech there should be large-scale efforts to understand this emerging art form and to understand what it takes to develop new languages expressing the form and to do the technological research necessary to mature it,” he said.

Mateas hopes EGI will unify computer-based gaming research efforts across campus, from the College of Computing, which is focused on the technological infrastructure of games, to LCC, which is interested in games as media, to Architecture, which is interested in game spaces.

“We are engaged in the sort of oxymoronic practice of serious play … and that play is really necessary to develop languages and terminology to use to talk about games and the design of games. We are also engaging in advanced prototyping, what could games be like in the future, and new technological developments need to happen to get them there.”

Mateas used the term “expressive AI” to describe the practice of combining art and artificial intelligence research.

“Animating the inanimate, bringing life to dead matter, has been a dream, a quest, for almost all of human history,” Mateas said. “In the 20th and 21st century, this dream manifested in the birth of the field of artificial intelligence in which circuits
and software have replaced stone and canvas as the mediums on which life is inscribed. “Since artists have been in the business of representing life, and building representations of life forever, it is natural that artists quickly became involved with artificial intelligence and the field of AI with creating new artworks,” he said. “In art practice, you are wrestling with meaningful human experience trying to produce new artworks, but as you wrestle with creating these artworks, it suggests new AI research directions, and the novel AI research you are doing then suggests new AI research directions, and wrestling with creating these artworks, it is interesting to get to questions that aren’t being asked by traditional AI research.”

Michael Mateas says Tech’s Electronic Game Lab was created to anticipate the phenomenal future of gaming.

Alfred Merrill, chair of the Georgia Tech Cancer Research Council, says, “Cancer arises from defects in the machinery that regulates cell growth and death.”

By John Dunn

Georgia Tech is “perfectly poised to make major contributions” to the war on cancer through its technological and interdisciplinarity prowess, said Alfred Merrill, who chairs the Georgia Tech Cancer Research Council and holds the Smidgall Institute Chair in Molecular Cell Biology.

“It is going to be an exciting new era for Georgia Tech,” Merrill told alumni at a Homecoming seminar about the Institute’s front-line involvement in the “War on Cancer.”

Research discoveries on the fundamental mechanisms of cell regulation, which includes gene replication, gene function and programmed cell death, have given researchers “a real understanding of the underlying causes of cancer,” Merrill said. “Cancer arises from defects in the machinery that regulates cell growth and death,” he said.

And understanding the causes of cancer has created a new paradigm for cancer prevention and treatment — a shift from search and destroy to target and control, as it has been described by Andrew von Eschenbach, director of the National Cancer Institute, he said. “The target and control paradigm says that we now know what goes wrong in the regulation of cell division and cell death in cancer,” Merrill said, “so we can begin to attack those specific defects, not merely kill all of the dividing cells in the body, which is the cause of most of the side effects of current cancer treatments.”

Georgia Tech can play a strategic role in the war on cancer because of its expertise in research areas such as cancer biology and systematics, bioengineering and bioinformatics, and mechanism-based cancer therapeutics, Merrill said.

Merrill’s research thrust is cell regulation by sphingolipid mediators, which has led to the discovery that even the small amounts of sphingolipids that are in food can have an impact on cancer cells. This is being followed up under a cancer drug discovery grant that is shared with Dennis Liotta and others at Georgia Tech and Emory.

The Georgia Tech Cancer Research Council was created in September 2002 at the initiative of Provost Jean-Lou Chameau, who said its purpose was to “make a strong statement that, maybe to the surprise of many, there is a very significant amount of work done at Tech that is directly relevant to cancer research.” The Cancer Research Council is currently centered in the Parker H. Petit Institute for Bioengineering and Bioscience.

“A large part of cancer treatment and progress toward cures are in fact driven by advances in science and technology disciplines — ones where we are strong,” Chameau said.

Merrill said the council is responsible for developing a strategic plan for cancer research at Tech, providing networking opportunities for faculty, and supporting and coordinating Tech’s response to major state and federal programs in cancer research, especially the cancer initiative in Georgia.
Homecoming highlighted the "new" Technology Square — an eight-acre expansion of the Tech campus across the Downtown Connector into Midtown Atlanta.

Alumni visited the new Global Learning Center, where all of the popular seminars were held, stayed at the new Georgia Tech Hotel and Conference Center, and surveyed the new home of the College of Management. They also strolled around the pedestrian-friendly campus that includes retail shops, restaurants and the new Barnes & Noble Bookstore.

Edward Underwood, IE 71, on the Alumni Association Board of Trustees, served as Homecoming chair.

The classes of 1978, 1963 and 1953 observed milestone reunions on Oct. 3.

Nearly 1,000 alumni attended the fourth-annual Buzz Bash for all other reunion classes. The Bash was held under the west stands and featured food, fun, a live band and fireworks.

A capacity crowd attended the tailgate event on the quadrangle lawn in front of the Tech Tower. And even old Bobby Dodd Stadium at Grant Field featured a newly expanded stadium where 55,000 fans saw the Yellow Jackets put the sting to the Wolfpack to enjoy a 29-21 victory.
Opposite top left: Quincy Kyles, IE 03, and Tech student Darragh Wright are among the nearly 1,000 people who attended Buzz Bash, where Buzz jammed with the band Shimmer. At left, alumni take a campus tour to see both familiar and new landmarks. Below: Ben Golden, Arch 32, of Atlanta was joined by son Carl Golden, Cis 03, at the Old Gold Reunion. Bottom: Mr. and Ms. Georgia Tech are Kirsten Gibbs and Michael Paxton.

PHOTOS BY CAROLINE JOE
John and Margaret Genter of Tampa, Fla., marveled at the rows of computer monitors built into the gleaming walls of Georgia Tech’s new Global Learning Center at Technology Square. The parents of sophomore management major John Thomas Genter were among the 1,600 students and families participating in Family Weekend Sept. 19 and 20.

“That is exactly what I would expect at Georgia Tech,” the elder John Genter said.

Students and families took part in seminars, campus tours, a tailgate party, cheering on the football team and touring the Global Learning Center and its cutting-edge technology.

Computer and communication labs include a 75-seat Distance Learning Center auditorium, where marketing director Michael Coleman explained how a student could access the Internet during class to research a subject, make a PowerPoint presentation or even attend the class from his dorm room.

Some of the 478 families attended classes with their students, while others took guided campus walking tours or attended seminars on topics such as Tech traditions, student inventions or “Being a College Parent.”

Next Generation Weekend, which promotes family legacies at Tech, was also held at the same time.

Many of the 97 Next Generation families brought their high school-age children to campus and attended seminars to learn about admissions standards and financial aid — including a mock admissions committee that reviewed sample student applications.

“Family Weekend at Georgia Tech is one of the marquee events of the fall,” said Joe Irwin, vice president and executive director of the Alumni Association. “It’s a wonderful way to showcase the campus, the programs and the vitality of Tech to parents of current and potential students. It’s a great example of collaboration between the Alumni Association and all units on campus. This year’s edition was our best yet.”

New Look for the Alumni Association

Georgia Tech Alumni Association marketing materials will soon have a new look.

“Marketing director Rena Moyers and I looked at all the material that rolled out of here,” Joe Irwin, vice president and executive director, said. “We found the visual image of the Association was very inconsistent and fragmented. We had everything from the Ramblin’ Wreck to Buzz to the Tech Tower. We needed to communicate with a single, unified brand.”

Moyers said three alumni focus groups tested 16 potential logos and narrowed the final choices to six. Potential taglines were narrowed down to five for inclusion in an online survey.

Irwin said, “The Ramblin’ Wreck logo and the tagline ‘Honoring Yesterday — Building Tomorrow’ resonated strongly with our alumni. But the key thing was ‘Georgia Tech Alumni’ in bold letters. If you go outside the South, the Wreck is just a jalopy and the GT brand means nothing, but people everywhere know what Georgia Tech means.”

He said the new brand will be transitioned in
Twenty-nine Georgia Tech alumni clubs received awards for outstanding performance at the 2003 Leadership Georgia Tech conference held at the new Global Learning Center at Technology Square.

Tech Alumni Association President Tom Gay welcomed more than 90 alumni from 54 clubs to the conference on Oct. 24.

A Young Alumni Forum provided insight into efforts to involve more recent graduates.

Networking sessions, coed sports events, wine tastings and sports-watching parties have been used successfully by the Austin, Triangle, Boston, West Palm and District of Columbia clubs to attract younger members.

At the awards luncheon, Marc Corsini, president of the Birmingham, Ala., club, and Daren Pietsch, president of the Golden Isles, Ga., club, were named the 2003 Ramblin’ Wreck Volunteers of the Year and Keith Fiegh of the Hampton Roads, Va., club won the Best Friend of Georgia Tech award.

Awards based on points accumulated for participation in Roll Call, student recruitment, scholarship funding, community service and creative activities were presented. Buzz Awards were given to the Sun Coast, Fla., North Alabama, Baltimore, New Jersey/New York, Colorado, Jacksonville, San Diego and Columbus, Ga., clubs.

The Triangle, N.C., Space Coast, Fla., Rome, Ga., Heart of Texas and Western North Carolina clubs all won the Ramblin’ Wreck Awards.

Clubs receiving the President’s Award were from Houston, Golden Isles, Ga., Atlanta Intown, Augusta, Ga., Birmingham, Northeast Tennessee, Washington, D.C., North Metro-Atlanta and Greenville-Spartanburg.

Roll Call awards were presented to the Sandenville, Ga., Radiant Systems, Hampton Roads, Augusta, Northeast Tennessee, Southern Company/Georgia Power and Golden Isles clubs for meeting their 56th Roll Call goals.

Men’s basketball coach Paul Hewitt, keynote speaker at the awards luncheon, acknowledged the work of the alumni clubs.

“This school is about so much more than athletics,” he said. “We are consistently seen as a great school and our alumni are a big reason. Your work is so important. You are part of a big network of people who keep apathy away from this campus. You are the reason this Institute is so great.”

Leadership Georgia Tech Pays Tribute to Clubs
The following is an excerpt of President Wayne Clough’s State of the Institute address given to alumni during Homecoming on Oct. 3 at the annual Lunch with the President.

By President Wayne Clough

As Georgia Tech achieves a new level of prominence and develops an expanded vision of leadership, the Institute is simultaneously reshaping its campus to serve its needs, express its intent and enhance its image as a leader among the world’s technological universities.

The goal is to create a cohesive environment filled with intersections of innovation, where students, faculty and staff interact with each other, with new ideas, with the community that surrounds our campus and with the world.

One of the most visible components of our momentum has been the reshaping of our campus. During the past year, we opened the largest group of new and renovated facilities in Georgia Tech history. Nearly 20 construction and renovation projects were completed and are now in use. Roughly one-sixth of the square footage in use this year is new or renovated.

Student-Focused Education

Student-focused education is the first goal of our strategic plan and lies at the heart of our mission as a university. The caliber of the students who come to Georgia Tech continues to be very high. Our students consistently exhibit one of the highest average SAT scores of any public university in the nation. We have been holding the size of the incoming freshman class at a constant level for the past several years, largely because of space limitations for freshman labs.

However, our enrollment continues to grow. One reason is because we are deliberately growing our graduate enrollment together with our research enterprise. But undergraduate enrollment continues to rise because retention has gotten better. After hovering in the mid-80s for many years, our freshman retention rate has jumped to more than 90 percent. We presented more bachelor’s degrees last year than ever before in our history.

Increased retention is the result of deliberate efforts to improve the undergraduate experience over the past several years. New initiatives include promoting undergraduate involvement in research, expanding study abroad opportunities, providing midsemester performance reports and improving the skills of our teaching assistants.

Offering a rigorous curriculum to some of the brightest minds in the state and the nation requires quality educational facilities. When classes began this fall, we had 23 new or renovated classrooms and lecture halls.

The new classrooms in the Management Building and the Global Learning Center at Technology Square incorporate technology seamlessly and are designed for optimal lighting and for clear sight lines. The Coulter School of Biomedical Engineering emphasizes team-based problem solving, so the new U.A. Whitaker Building includes group workrooms where students can write on the walls as they develop solutions together.

The renovation of the John S. Coon Building demonstrates what we want to do throughout the historic core of campus along Cherry Street. Outside we maintained the signature architecture, but inside construction workers crafted a high-tech, high-quality home for the School of Psychology.

The Library West Commons is a $1 million renovation of the first floor of the west building where the traditional library reference desk intersects with sophisticated information technology. The center is open round the clock, and usage of the library has increased by an astounding 56 percent since it opened.

The West Commons is a test bed for the information commons that will be part of the undergraduate learning center to be built next to the library. This innovative facility will be a hub for undergraduate science labs and support services. It has been approved by the Board of Regents and is awaiting a state funding component, which we hope will be forthcoming when the state economy gains steam.

Faculty Initiative

Our faculty and staff drive the process of knowledge discovery, whether it is helping students to discover the intricacies of their chosen disciplines, or working side by side with students to make the research discoveries that feed innovation.

We have attracted prominent
scholars to hold endowed chairs during the past year. They add to our luster, as well as to our national academy memberships. Our junior faculty continue to win a remarkable number of National Science Foundation CAREER Awards, which honor the most promising young talent in science and engineering. In spite of budget challenges, we began this year with a net increase of more than two dozen faculty compared to last fall.

Many of the intersections of ideas are in our research labs, and our research enterprise has virtually doubled during the past decade, both in expenditures and awards. We are also at our highest level in Institute history in invention disclosures and patents. And the arrival of the NSF Center of Excellence in Photonics from Arizona puts us in a tie with MIT for the most NSF Centers of Excellence in the nation.

We are expanding our interdisciplinary thrusts toward understanding how technology will impact the economy and society. Science and engineering need to intersect with public policy and decision making, and the mix of disciplines we have at Georgia Tech offers a unique opportunity to develop and promote that essential engagement.

Research Facilities

The research opportunities of Georgia Tech faculty and students have been enhanced by several of the new facilities. The Life Sciences Complex, which began with the Petit Biotechnology Building, expanded to include the Ford Environmental Science and Technology Building and the U.A. Whitaker Building. A fourth building focusing on molecular science and engineering will enclose the quadrangle. This complex is a bricks-and-mortar expression of Georgia Tech’s growing interdisciplinary intersections.

The Ford ES&T Building, which is the largest academic building on campus, gathers faculty and students from five different schools around environmental issues. The U.A. Whitaker Building is the new home of the Coulter School of Biomedical Engineering, which is a unique joint academic program with Emory University.

Across the street from the Life Sciences and Technology Complex we will soon break ground for the Klaus Advanced Computing Building, which will complete the creation of a neighborhood devoted to information technology and telecommunications work on campus.

And across Fifth Street from the Georgia Tech Hotel is the Technology Square Research Building, another intersection where faculty from computer engineering and computer science faculty interact with members of industry in broadband design research.

After years of strain, the Student Athletic Complex beyond its limits, we opened the first phase of the Campus Recreation Center, built around the Olympic Aquatic Center. The enclosed and refurbished pools give us the ability to host world-class swimming and diving events. Suspended above the pools is a vast gymnasium that can accommodate six basketball games at the same time, plus dance and aerobic studios and weight and cardio fitness areas. And high up under the eaves with a stunning view of the Atlanta skyline is a four-lane running track. When it is finished next fall, the center will also include a leisure pool, courts for racquetball and squash, a climbing wall, space for roller hockey and indoor soccer and a parking deck.

Next door is the new Whitehead Building, home to Stamps Health Services, which offers our students full medical services, nutrition and wellness assistance and dental services, which are rare at a university.

We are also developing more spaces for informal activities and reflection. Following the demolition of the Hightower Building, a new “green” was created near the Student Center. In time, this space will be framed at the other end by the undergraduate learning center and its landscaping further developed. The annex to the Student Center, where the old bookstore was, is now being renovated to provide much-needed space for student organizations and meetings.

The most ambitious construction project ever undertaken by Georgia Tech is Technology Square. When we talk about Technology Square, we tend to focus on its exciting academic, research and economic development opportunities, but there is an additional benefit. Despite being in the middle of a city, Georgia Tech has not had the nearby shopping and dining opportunities of a typical college town.

Technology Square takes a big step in the direction of providing a supportive retail community around campus.

Our athletic programs are an important part of campus life and generate an enthusiasm that our alumni carry throughout their lives. The recreation of Bobby Dodd Stadium, the nation’s oldest Division I-A on-campus stadium, has restored it to first-class condition, and its unique setting among the skyscrapers of Atlanta shows us to our best advantage. The Russ Chandler Baseball Stadium also got a complete makeover, from the grandstand to the outfield wall. It now compares with the best baseball stadiums in higher education, enabling us to host postseason playoffs and tournaments.

The international environmental organization Second Nature has paid tribute to Georgia Tech as the first university to incorporate sustainability concepts throughout our curriculum. We are also incorporating sustainability into our campus structures and daily operations.

Our newest buildings include environmentally friendly features, and some are especially significant or unique. The Management Building at Technology Square is one of only 13 buildings in the nation to receive Silver certification in the U.S. Green Building Council rating system called LEED — Leadership in Energy and Environmental Design.

An aerial view of Technology Square illustrates one of its most obvious energy-saving devices — white roofs that reflect the summer heat rather than absorb it. The Ford ES&T Building has many similar energy-saving features as Technology Square, but...
it also pioneers a unique drainage system that collects the rainwater that falls on its roof, then percolates it into the ground rather than down the storm sewers. The roof of the Campus Recreation Center is covered with solar cells, helping us with our energy needs and offering an opportunity for experimentation. The new Tech Trolley is powered by natural gas. And we are paying as much attention to green space in the design of campus as we are to buildings.

Community Connection
Technology Square bridges the gap that was created when the interstate cut our campus off from our natural neighborhood of Midtown. The Department of Transportation plans to build a park over the interstate adjacent to the Fifth Street bridge, and we are in the process of improving Fifth Street on the west end of the bridge. Technology Square will not only be a place where Georgia Tech intersects the Midtown business community, it will also be an impressive new gateway to our campus.

The restaurants, shops and pedestrian-friendly sidewalks of Technology Square are designed to attract and serve people from the neighborhood as well as from Georgia Tech, bringing added vitality to this side of campus.

While Technology Square focuses on business and retail engagement, the north side of campus is residential, with single-family homes. We built the new R. Kirk Landon Learning Center to providing quality child care for the Georgia Tech community and the residents of the Home Park neighborhood.

Our faculty, staff and students intersect with the community as volunteers. Organizations like MOVE and CERSMC provide structured opportunities for service. Fraternities and sororities contribute countless volunteer hours. And campus units from the library to the athletic program collect books and toys for less fortunate children.

Four Campuses
Georgia Tech continues to strengthen its global ties. Our goal is to create a genuinely international university that educates students from around the world to be leaders in a global economy.

Building an international university involves developing education and research platforms in strategic locations around the world. In addition to the Internet and satellite connections of the Global Learning Center, which link us to virtually every corner of the world, Georgia Tech now has three other campuses beyond Atlanta. And this fall, nearly 600 degree students are studying on our campuses in Savannah, Metz, France, or Singapore.

The Savannah campus opened this fall with three new buildings to house the Georgia Tech Regional Engineering Program as well as regional offices for our Economic Development Institute and Advanced Technology Development Center. This campus is a component of the largest technology corridor to be developed in Savannah’s history and is designed to bolster high-tech development.

Georgia Tech-Lorraine in Metz has been granting graduate degrees for more than 10 years and has well-established research programs. This year, it has begun a year-round undergraduate program. Singapore is the world’s hub for logistics and that is the focus of our initial research and education programs there.

As a public university, we have an obligation to the state of Georgia, and two-thirds of our students come from inside the state. But once they arrive on campus, we do our best to make them citizens of the world. We have expanded opportunities for our students to study abroad. In addition to 56 classical study abroad and exchange programs, we also have several with a distinctive Georgia Tech flavor. The School of Modern Languages offers a unique year abroad in Germany with intensive language study, a semester at the Technical University of Munich and an internship at Siemens.

We now have more international students here on campus than ever in our history, and they enrich the life of our campus in many ways. Georgia Tech is an outstanding institution and that is reflected in our national rankings. We have demonstrated our staying power among the top 10 public universities in the nation. Once you get up there toward the top, it is difficult to move higher, but the College of Engineering managed it this fall, with the undergraduate program now joining the graduate program among the top five. There are many more science and management programs than engineering programs, so the competition is tougher there, but we are doing well. The Forbes business school rankings just came out, and we are in the top 30 there.

We intend to hold a steady, forward pace, and the ongoing development of our campus is an expression of that commitment. As we shape our campus, we also are shaping our identity — crafting a campus that not only serves as a tool to help us achieve higher levels of excellence, but also communicates our intent to be the technological university of the 21st century — a place filled with intersections of innovation where new ideas are generated and new knowledge discovered that make the world a better place.
Grand Opening
Mayor lauds Technology Square as capturing ‘heart and soul’ of Atlanta

At its grand opening on Oct. 24, Technology Square was hailed as the driving force for the renaissance of Midtown Atlanta.

“While this is a historic moment, it is just one moment in time for this great institution and, just like Georgia Tech, Technology Square will be here for the ages,” Georgia Tech President Wayne Clough told members of the Tech community, Atlanta officials and other dignitaries. “There is more to be derived from Technology Square than what happens in the next year. It will continue to innovate for five years, 10 years, 100 years and 200 years.”

Atlanta Mayor Shirley Franklin, who joined Clough in the ribbon-cutting ceremony, lauded Tech and Clough for having the vision to pursue the project.

“This is the kind of development that makes the heart and soul of Atlanta,” Franklin said. “One hundred and eight years ago when Atlanta was the site of the Great Cotton Exposition, this was the kind of development the leaders gathered there had in mind, this kind of synergy and partnership.”

Ground was broken on the project more than three years ago.

“This is really about the people. It is about the faculty and the students and the alumni and the people who work here and share barriers with us,” Clough said. “They are wonderful facilities, and they will do great things for Georgia Tech and for Atlanta, but they will also do great things for people and that’s what it’s all about.”

Clough applauded the teamwork that went into the projects, citing the city’s leadership, the University Financing Foundation, Georgia Tech Foundation and Midtown Alliance and alumni Kim King, D 6,8, who developed the Centergy project adjacent to Technology Square, and Thomas W. Ventulett III, BS 57, Arch 58, of the Technology Square architects Thompson, Ventulett & Stainback.

Former Georgia Gov. Joe Frank Harris, chairman of the State Board of Regents, said, “Technology Square is going to continue the Georgia Tech tradition of reaching out to the community and making a difference.”

A.J. Land, chairman of the Georgia Tech Foundation, returned credit to Clough and to the alumni who donated the money to fund the massive project.

“President Clough, this is your project and your day and we thank you very much,” Land said.

Susan Mendeheim, president and CEO of the Midtown Alliance, said the defining moment of Technology Square was not the ribbon cutting, but the gathering in 2000 among the weeds and vacant lots that once lined Fifth Street.

“When Technology Square was announced, that gave us the economic stimulus we needed to get everyone on board,” said Mendeheim, adding that 6,000 square feet of new apartments and condos, 7 million square feet of new office development and $1.5 billion in private investment has come into Midtown since 1997, creating 28,000 new jobs in the one-mile radius between 10th and Peachtree streets.

“Thank you for your vision, the hard work, for the reality and for raising the bar for all that is ahead in Midtown.”

Anonymous Donor Pledges $36 Million for Nanotechnology

By Robert Harty

An anonymous donor has pledged $36 million — the largest single gift in Georgia Tech history — for the creation of one of the nation’s most advanced facilities for nanotechnology.

The new Nanotechnology Research Center on campus also will be matched by $45 million in state support. Gov. Sonny Perdue will include funds for this project as part of his economic development budget recommendations to the 2004 Georgia General Assembly.

“If Georgia is to emerge as a leader in nanotechnology, we need to take advantage of the opportunity to build one of the nation’s premier centers for this cutting-edge technology and research,” Perdue said at the annual meeting of the Technology Association of Georgia. “Thanks to the generosity of an anonymous donor who recognizes the tremendous economic potential of this opportunity, the state will be able to share the cost of this new facility.”

The center will be the most advanced nanotechnology facility in the Southeast — the first of its kind in the region — and will be one of the most sophisticated in the country, enabling the state to compete with other places where such facilities are planned or under construction.

“This puts Georgia Tech on the national map for nanotechnology,” said President Wayne Clough. “Through a unique public-private partnership, we will serve as a center for innovation in the Southeast and throughout the world. I’m deeply appreciative for this display of private philanthropy and to the state for making this type of investment in a critical research area.”

Nanotechnology, sometimes referred to as the science of the small, allows scientists to manipulate individual atoms and molecules, making it possible to build machines on the scale of human cells or build structures or materials that assume dramatically different properties by virtue of their size. Scientists working in the field of nanotechnology work with materials measured in one-billionth of a meter — about 100,000 times smaller than the width of human hair.

Many experts have hailed nanotechnology as the next great scientific and technological breakthrough. Nanotechnology research has led to such simple advances as the development of the flat television screen and holds the potential to create microscopic machines that could repair damage at the cellular level in the human body.

Robert Harty is executive director of Institute Communications and Public Affairs.
Tech professor Nolan Hertel stands at the edge of a 15-foot-deep crater where Tech’s nuclear reactor once was.

**From the Hill**

**Tech Dismantles Nuclear Reactor, Academic Program Remains Strong**

By Kimberly Link-Wills

T here were big hopes for Georgia Tech’s nuclear reactor when it was dedicated 40 years ago. The white-domed building still stands, but Tech’s days as a university with a research reactor are over.

“It’s a big empty shell,” said Nolan Hertel, a nuclear engineering professor and director of Tech’s now-decommissioned nuclear reactor. “It still looks like there’s something there, but when you come inside, there’s just a big hole in the floor where the reactor was.”

The decommissioning process has been a long one — and expensive. Tech announced it would shut down the reactor in 1997. The actual dismantling of the reactor and removal of waste — carrying a price tag of $7.5 million — was completed more than a year and a half ago.

The Nuclear Regulatory Commission has been processing paperwork since then to release Georgia Tech from its operating license.

The reactor’s beginning was almost as quiet as its ending.

“We have some old photos from when they constructed it,” Hertel said. “There were houses right next to it. Basically it basked in anonymity. Nobody really thought much about it being there, except a few antinuclear people.

“Even though it never presented a problem, I don’t think anyone would site one in the middle of a population center again,” he added. “A research reactor only makes neutrons. It doesn’t make electricity or boil water.”

It cost more to dismantle the reactor than it did to build it. But when it went up in the early 1960s, the $4.5 million facility was the largest construction project Georgia Tech had undertaken, Hertel said.

Much of the construction funds were raised by alumnum Frank H. Neely, for whom the facility is named. Neely, ME ’64, wasn’t a nuclear scientist. He was the executive vice president of Rich’s department stores.

“Frank Neely believed we were on the edge of the nuclear era. They went out and got some of the best guys available at the time to design it. It was actually quite a reactor for a research facility at a university in terms of design and layout and capability,” Hertel said.

An article in the February 1963 *Alumnus* reported: “Georgia Tech and the state of Georgia made a great stride forward into the nuclear age on Jan. 11 with the formal dedication of the $4.5 million Frank H. Neely Nuclear Research Center on the Tech campus.

“In addition to its use for training nuclear engineers, the center’s reactor, expected to become operational in the late spring, will provide a nuclear energy source for countless industrial and governmental research programs never before possible in the area and for numerous biomedical research projects to aid man in his struggle against disease.”

In the summer of 1997, Georgia Tech announced the reactor would be shut down.

“The Department of Energy considers them a national resource. They were disappointed when we shut ours down. They saw other universities shutting theirs down too,” Hertel said. “There are about 25 university research reactors now. At one time there were probably 70.”

Hertel said only a few hundred Tech students actually used the reactor over the years. “We had one laboratory course where students maybe did three or four experiments with the reactor.

“A lot of the things that nuclear engineers used them for in the 1960s and ’70s — we measured neutron interaction parameters and things like that — we no longer need to know because we already know it,” he said.

Meanwhile, the cost of maintaining Tech’s reactor was between $200,000 and $300,000 a year.

“There were checks you had to do daily and monthly and semi-annually and quarterly. Once a year we leak tested the dome. There were a lot of things that had to be done routinely to keep the license current,” Hertel said.

The biggest cost in the dismantling process came with the disposal of waste from the reactor.

“It costs a lot to bury anything that is even supposedly radioactive. Some of this stuff is buried at several hundred dollars a cubic foot. There are all kinds of surcharges on it,” Hertel said, adding that the waste was shipped to burial grounds in South Carolina and Utah.

Despite the dismantling of university research reactors, enrollments in nuclear engineering programs have picked up across the country in the past few years, according to Hertel.

“All of a sudden in ’96-’97 companies that hadn’t come to campus to recruit in 10 or 12 years started coming again because they realized their workforce was nearing retirement. The NRC claims that two-thirds of all their employees could retire right now because they have enough years in,” he said.

“I think if you went across the country and interviewed nuclear engineering faculty you’d probably find that 95 percent of them don’t do research in their reactors. But if you said, ‘Let’s tear your reactor down,’ they’d say, ‘No, don’t tear it down,’” Hertel said.

“I think what people perceive is that when you tear it down, you lose some credibility as a program. We’ve already come over that hump. Six years (after the decommissioning announcement) our academic program has the fifth or sixth largest undergraduate enrollment in the country.”
Annual Rankings Place Tech in Top 10

U.S. News & World Report has ranked Georgia Tech ninth among the nation’s top public universities and the rate of alumni giving No. 1.

"Year-to-year fluctuations in these rankings sell magazines, but it’s the consistency of performance over the years that measures academic quality," said President Wayne Clough. “I’m pleased to see that with increasing enrollments and decreasing budgets we continue to be ranked among the elite in American higher education. Georgia Tech’s peer assessment, the school’s perceived quality among other universities, was high enough to be ranked among the top 10 in the nation. However, Tech ranked 65th in faculty resources and 69th in retention and graduation rates. The Institute also scored low in the percentage of classes with less than 20 students.

"Unfortunately, our current budget situation, combined with increasing demand for a Georgia Tech education, will make it difficult to make notable progress in those areas," Clough said. "One counter to that problem, however, is the generosity of our alumni. Our alumni giving rate is first among all public universities and 18th overall. That is a very strong endorsement by our alumni as to the value of their education."

The College of Engineering moved into the top five nationally. The School of Industrial and Systems Engineering again ranked No. 1, followed by the aerospace engineering program at No. 2 and civil engineering No. 4, down from the third spot last year. The graduate engineering program ranked fifth in the country. U.S. News ranked the DuPree College of Management 36th in the competitive business school rankings and cited the co-op program, the largest in the country, as a “program to look for.”

"It is another very solid showing,” said Clough. "We’re consistently ranked among the nation’s elite public universities and our College of Engineering and its programs continue their national prominence. For our School of Industrial and Systems Engineering to rank Number One in the entire nation year after year after year is truly impressive."

Highest Medal
Alumnus, Tech professor receive top science, technology honors

A lumnum W. Jason Morgan, a Princeton University geophysicist, and Tech professor Russell D. Dupuis are among the scientists and engineers who received National Medals for science and technology — the nation’s highest honors.

President George W. Bush announced they would receive the medals at a White House ceremony Nov. 6.

Morgan, Phys 57, Princeton’s Knox Taylor Professor of Geography, was honored with the National Medal of Science for his theories that describe how land masses move, volcanoes are formed and many features of the land and sea take shape.

The award recognizes Morgan for his work pioneering two fundamental ideas — plate tectonics and mantle plumes.

The first describes how the Earth’s surface consists of a dozen plates that move with respect to each other. This work provided a unified framework for understanding earthquakes and volcanoes as well as the formation of mountains, ocean basins and other surface features.

The work also underlies nearly all current research into deposits of petroleum and other natural resources and the evolution of the Earth’s climate and life.

The theory of plate tectonics he published in 1968 is one of the major milestones of U.S. science in the 20th century," said Anthony Dahlen, chairman of the Princeton Department of Geosciences.

A professor of electrical and computer engineering at Tech, Dupuis, who has been awarded the National Medal of Technology, holds the Steve W. Chaddick Endowed Chair in Electro-Optics and is a Georgia Research Alliance Distinguished Scholar.

Dupuis is being recognized for his “contributions to the development and commercialization of light-emitting diode technology, with applications to digital displays, consumer electronics, automotive lighting, traffic signals and illumination.”

Dupuis is receiving the Medal of Technology as a team with Nick Holonyak Jr., John Bardeen Chair Professor in the Electrical and Computer Engineering and Physics Department at the University of Illinois, Urbana-Champaign, and M. George Craford, an engineer with Lumileds Lighting in San Jose, Calif.

“It is a strange team in some respects because the work being cited is work that was done in three different places at three different times by independent groups,” said Dupuis.

However, the three men have been connected personally and professionally for many years. Holonyak was the PhD adviser for both men at the University of Illinois — Craford was Holonyak’s fourth PhD student and Dupuis his 18th.

Dupuis has also collaborated with both men on research and papers over the years and as Dupuis began teaching PhD students, his students began collaborating with Holonyak’s PhD students.

Dupuis credited Holonyak’s “hands-on” approach with his students with giving him direction in his career. Dupuis said he feels honored to be an heir of a long “bloodline” of distinguished scientists.

“George and I derive our technological birth from Nick. I think of him as our technological father. Through him I like to think I am ‘related’ to John Bardeen, Nick’s PhD adviser, who was the inventor of the transistor in 1947 and who received Nobel Prizes in physics in 1956 and 1972. And Bardeen’s adviser was Eugene Wigner, one of the founders of solid state theory and also a Nobel Prize winner in physics in 1963.”

Tech Professor’s Invention Gets R&D100 Award

Georgia Tech professor Rick Trebino’s invention of a device that measures ultra-short laser pulses, something many researchers thought could not be done, has received an R&D100 Award, one of the year’s most prestigious technology awards.

The R&D100 awards recognize the 100 most technologically significant inventions of the year as determined by an independent panel of experts commissioned by R&D Magazine.

“Our device measures the shortest events ever created — ultra-short laser pulses,” said Trebino, who holds the Georgia Tech Alliance-Eminent Scholar Chair of Ultrafast Optical Physics. “These pulses are easy to create, and they have many new applications, ranging from medical imaging to micro-machining to telecommunications.”

Trebino said the pulses are difficult to measure due to a seemingly very fundamental dilemma — in order to measure an event in time, you need a shorter one. So how do you measure the shortest one?

“Many researchers thought the problem was unsolvable,” Trebino said. “But we solved it nicely, measuring not only the pulse intensity versus time, but also the color versus time. Our device works by using the event to measure itself, making a spectrogram of the pulse, and then using some clever mathematics — borrowed from astronomical imaging — to retrieve the pulse.”

The invention has been further developed and commercialized by Trebino’s start-up company, Swamp Optics. Devices created by the company have acronyms FROG, TADPOLE and GRENOUILLE (which is French for frog), although Trebino said Swamp is actually an acronym for Simply Wonderful Apparatus for Measuring Pulses.

Tech Topics • Winter 2003
Milestone Markers

Reunion classes raise more than $5.9 million

The classes of 1953, 1963 and 1978 presented more than $5.9 million to President Wayne Clough to support the Georgia Tech experience of today’s students during reunion parties at Homecoming 2003.

The 50th Reunion Class of 1953 raised a total of $2,987,657, with $305,748 going to support the Class of 1953 President’s Scholarship as part of the President’s Scholarship Program. The President’s Scholarship Program began in 1981 with six scholarships. Today there are 319 President’s Scholars and 955 President’s Scholar alumni. The average SAT of freshman President’s Scholars is 1459 and their average GPA at Tech is 3.52.

The 40th Reunion Class of 1963 raised $2,824,273 overall, with $269,116 dedicated for the Class of 1963 G. Wayne Clough Scholarship, in honor of their classmate, for students in need of financial aid. Last fall, 30 percent of freshmen received need-based financial aid and 31 percent of all undergraduates received need-based aid.

The Class of 1978, which celebrated its 25th reunion this year, raised $2,802,193, including $121,050 to help fund the Class of 1978 Indoor Track at the new Campus Recreation Center. The suspended, four-lane running track is one of the highlights of the new center and is surrounded by glass walls and offers a spectacular view of the Tech campus and Midtown. The center replaces the Student Athletic Complex, which was completed in the spring of 1977.

Top: Georgia Tech President Wayne Clough, second from right, receives the Reunion Class of 1953 check from, left to right, Bob Krasnoff, Jim Bell, Jim Dellinger, A.D. Little and Dan Blitch. Not pictured is 50th reunion party vice chair Fred Johansen.

Middle: Members of the reunion committee of the 40th Reunion Class of 1963, including President Clough, are, left to right, Thos Muller, Lloyd Byars, Sam VanLandingham, Lynn Maddox and Jerry Cox.

Bottom: President Clough holds high the Class of 1978’s check presented by reunion committee members, left to right, Kim Keelin Sak, Stephen Krebs, Kathie Day, Steve Armstrong, Guy Long, Sandra Lewis Armstrong and Gavin Weldon.
To the Point

Herky Harris displays brisk management style at INVESCO, Georgia Tech Foundation

By Gary Goettling

By his own admission, Hubert L. “Herky” Harris Jr. is always in a hurry. It’s a trait mirrored in his management style.

“Part of my role is to create a sense of ‘giddyup’ in getting things done,” said the 1965 industrial management graduate, who in August was named CEO of INVESCO North America.

On July 1 Harris also began a two-year stint as treasurer of the Georgia Tech Foundation. His long-time involvement with Georgia Tech includes seven years on the Alumni Association Board of Trustees, including a term as president during 1996-97.

“I have a full plate and then some — my cup runneth over,” laughed Harris, who also helps manage his family’s 170-year-old farm.

Division of the $345 billion London-based AMVESCAP PLC, INVESCO North America markets and manages investment products ranging from fixed income to value, core and growth equities. Headquartersed in Atlanta, the company’s North American operations services about $120 billion worth of assets for individual and institutional clients through additional offices in New York, Denver and Louisville, Ky.

Previously Harris served as CEO of AMVESCAP Retirement. He remains involved as chairman and is credited with helping that division improve its profitability.

At INVESCO North America, Harris oversees one of the world’s largest investment managers as it struggles to cope with a sluggish U.S. economy.

“We have to improve efficiency and try to refocus our energy toward growth,” said Harris, who has spent the past 15 years with AMVESCAP.

“The issue here is the negative returns in the stock market over the past three years,” he added. “The declining level of confidence that certain investors have in the market affects us dramatically because our entire business is driven around the market and market-related issues. That’s a bit out of my control, but it’s still an issue that we have to work on.”

Circumstances are different at the Georgia Tech Foundation, where Harris oversees its financial aspects.

“The Foundation has had a very good run over the last several years,” he noted. “We were very fortunate to have done our principal fund-raising campaign prior to the market sell-off, so we were very well provided for by our alumni and friends of Georgia Tech.”

Harris also credited the Foundation with a head-up asset-allocation strategy that managed to avoid some of the more horrendous stock losses.

The value of an independent, financially robust foundation for the ongoing support of Georgia Tech cannot be overstated, nor should it be taken for granted, Harris added.

“It is the result of a lot of hard work by many people over many years,” he said. To ensure the future of the Institute, “Tech men and Tech women, to the extent they have excess resources, ought to look at the Georgia Tech Foundation. Supporting advanced education in Georgia through the Foundation is one of the best investments they’ll ever make.”

Harris’ management style is much like Harris himself — focused, brisk and straightforward. He eschews long meetings and exhaustive, multipage memorandums.

“I like to get to the point, understand the problem, figure out what we’re going to do about it, then get about doing it,” Harris said.

“Once you’ve got a game plan and once you’ve set your direction, you’ve got to get everybody on board. No one person can make it happen,” he continued. “The responsibility of the leader is to convince the followers at whatever level they are — from the highest to the last-hired person — that the objectives we’re trying to accomplish are in everyone’s best interest. With good teamwork and good chemistry among the team, oftentimes you can exceed expectations.”

True to his Georgia Tech roots, Harris likes numbers.

“Numbers tell a story,” he said. “I like to have accurate numbers about the company in terms of revenues, expenses and other relevant numbers. One of the things I focus on is being sure the numbers are absolutely scrubbed clean so you don’t have any discrepancies.”

A graduate of Grady High School in Atlanta, Harris said that his one and only undergraduate education choice was Georgia Tech.

“I never even applied to any other college,” he said. “It never crossed my mind to go anywhere else.”

Harris later earned an MBA from Georgia State University and in 1977 was a vice president of the Citizens & Southern National Bank (now Bank of America) when he accepted a position in the Jimmy Carter administration as assistant director of legislative affairs in the federal Office of Management and Budget. He returned to Atlanta in 1983 as executive director of the International Association for Financial Planning. Harris joined INVESCO five years later.

“I’m a very fortunate person,” he said. “As different as my jobs have been, I’ve never had any job that I didn’t like.”

The one constant job in his life — and in the lives of generations of Harrises — has been at the family’s property in Walton County. The 800-acre holdings include the original family homestead built around 1830 and a working farm where cattle, hay and pine trees are raised.

Harris is involved in the farm’s operation, which presents its own brand of challenges. Still, Harris said, “it’s a business, and we work at it every year with the intent of making a profit.”

Another constant in Harris’ life has been his unusual nickname, Herky. Although of uncertain origin or meaning, he gives credit — if that’s the right word — to sister Mary Ann for assigning him the nickname when he was a toddler.

“I’ve tried to get rid of it many times, but it keeps coming back,” he laughed. “A guy who has been around as long as I have ought to have a normal name, but unfortunately I’m stuck with this one.”  

*GT*
Helping Hand
Students build sign language tool
By Larry Bowie

Danien Gaudry never took a course in sign language, but that didn’t stop him from wanting to build an instructional tool that could lend a hand to children who want to learn.

Gaudry and two other Georgia Tech graduate students — Cindy Pereira and Russell Marzette — built an 18-inch-tall robotic hand that could eventually sign the 56 letters of the English alphabet.

“We wanted to develop an interactive and fun device to teach children sign language, whether they are hearing impaired or not,” Gaudry said. “We thought it would help them to visually see the signs rather than hav- ing to look at them in books.”

The students worked on the project for two months this year as their final project in a graduate-level introductory course on mechatronics — an emerging technique in engineering that deals with the study of integration of familiar mechanical systems and components with new electronic components and intelligence-based software.

Students enrolled in the course, offered in Georgia Tech’s School of Mechanical Engineering, must design, build and present a mechatronic innovation that fuses “smart product” development for the market.

In the class, students are taught to engineer for complete mechanics, electronics and information technology. In Georgia Tech’s School of Mechanical Engineering, must design, electronic components and intelligence-based software.

Gaudry and two other Georgia Tech graduate stu- dents — Cindy Pereira and Russell Marzette — built an 18-inch-tall robotic hand that could eventually sign the 56 letters of the English alphabet.

“Smart product” development for the market.

The robotic hand is just one interesting invention to come out of the mechatronics courses. Other notable inventions have been the self-playing guitar that actually takes requests, a machine similar to an ATM that dis- penses money called the CASH-o-MATIC and a machine that deals cards and plays along with human players.

“The mechatronic engineering techniques used in this project are representative of the approach that’s used today to design devices and systems that possess a degree of computer-based intelligence,” said professor Charles Ume.

“We expect to see the integration of mechatronics, electronics and computing increase rapidly in the near future due to consumer demands for smart products and intelligent machines.”

Tech’s state-of-the-art Mechatronics Laboratory, which supports these classes, was built with a grant from the National Science Foundation, a matching fund from Siemens and financial and equipment support from Georgia Tech Institute Communications and Public Affairs.

Miss India USA: Sophomore Captures Titles in State, National Cultural Pageants
By Maria M. Lameiras

Georgia Tech sophomore Meghna Nagarajan wears two crowns as the 2003 Miss India Georgia and Miss India USA.

The second runner-up at the Miss India Worldwide compe- tition in San Francisco in September, Nagarajan said the pageants celebrate the culture of India and encourage winners to engage in charity work to bene- fit others of their her- itage.

“They are not like other pageants because they pro- mote the idea of fusing the two cultures and respecting both and having pride for your Indian her- itage and pride for the coun- try you live in,” said Nagarajan, 19, an electrical engineering major who entered her first pageant two years ago.

The contestants of the pageants are young women of Indian origin, between the ages of 17 and 25 and never married. The pageants consist of four segments — evening gown, Indian dress, tal- ent and a ques- tion-and-answer portion. Miss India Worldwide is the only international Indian pageant.

In addition to capturing the overall title of Miss India USA, Nagarajan also walked away with the “Best Talent” award in the national pageant for her rendition of a popular song from an Indian film. At the Miss India Worldwide pageant, Nagarajan won the “Miss Beautiful Smile” award.

“Singing is my greatest passion. I’ve been singing since I was 5,” said Nagarajan, who moved to the United States five years ago with her family. She attended high school in Alpharetta, Ga., before enrolling at Tech in 2001.

“I’ve done performances for my com- munity while I was in India and here as well.”

After placing in the top 10 in the 2003 Miss India USA pageant, Nagarajan decided to compete in this year’s competitions.

“It was more exciting than nerve- wracking. I was not ever nervous, but it was definitely mind boggling,” Nagarajan said. “I met so many differ- ent girls from different countries and it was interesting to learn what their cultures were like and how they did things differently. The experience was definite- ly something I will remember forever.”

Nagarajan is part of the India Club at Tech and is involved in a community organization that raises funds and sends them to India to provide educa- tion, food, clothing and shelter for underprivileged children.

“I believe the most important thing in the world is children and being involved with providing them with the basics they need to succeed in life,” Nagarajan said.
David Rice knows something about survival. His manufacturing business took a hit, but Rice, IM ’72, made sure it wasn’t a fatal blow. Now 80 percent of the bulletproof vests worn by U.S. military personnel are manufactured at Rice’s plants in south Georgia.

Rice is proud that the company he and his brother founded in Vidalia, Ga., has evolved to save lives and jobs. “In 1980 my brother and I started manufacturing sports bags. In 1982 we started manufacturing luggage. We got hooked up with a company called Tumi, which makes very high-end luggage. We were the principal manufacturer of Tumi luggage for 20 years,” Rice said.

“We had 360 people manufacturing Tumi luggage in two plants in Vidalia and one in Swainsboro. We became the top contract luggage manufacturing house in America,” he said. “Last year Tumi pulled out and took it all to China.”

Savannah Luggage Works laid off more than half of its work force. David and Allen Rice searched for a way to save the business. The luggage the company had manufactured was made of ballistic nylon, the same material used in protective body armor. That helped land the contract to make Interceptor vests for Point Blank Body Armor, based in Fort Lauderdale, Fla., and restore Savannah Luggage Works’ employee count to 350.

“The vest saved his life and he was able to come back and see his family again. We are making the majority of the vests and his may well have been made here.”

Sgt. Ashland later showed the vest and bullet holes to President George W. Bush. Then there’s the story of a soldier taking part in a training exercise in Iraq. He was accidentally shot from a distance of only six feet.

“This vest has a ceramic plate in the front and back to protect vital organs. The rest of the vest has Kevlar. This soldier was shot in the Kevlar portion, which is not designed to stop an M-16 round. But it did and saved the guy’s life,” Rice said.

Each tactical vest, with pockets for radios, ammunition and supplies, sells to the government for $1,583. Savannah Luggage Works makes the vests and sends them to Point Blank to be outfitted with the protective plates.

Interceptor vests also serve the law enforcement community. Rice said the body armor Savannah Luggage Works manufactures is worn by officers in the Los Angeles and New York police departments, FBI, CIA, IRS, Office of Diplomatic Security and U.S. State Department.

Rice’s company also has won a contract to manufacture 15,000 pop-up tents for the Army and is bidding to make the military’s MOLLE — modular lightweight load-carrying equipment. Georgia Tech is helping Savannah Luggage Works secure the contract.

“We’re using the Georgia Tech Economic Development Institute to help us bid. Tech has a program called the Procurement Assistance Center. They’re helping us bid on government contracts. They’ll come in and help you write your proposals,” Rice said.

Rice dropped out of Georgia Tech in 1967. He joined the Army and landed in Vietnam with the 1st Cavalry Division. He returned to Tech in 1970 ready to earn his degree.

“I had a different perspective on life. I had seen a lot of stuff in Vietnam. It matures you and makes you see things differently,” Rice said.

“In Vietnam I wore a flak jacket. The material that was used in flak jackets was ballistic nylon. When we started making luggage, lo and behold, Tumi was the first company to use ballistic nylon. It was developed for bulletproof vests and that’s one of the selling features, that this fabric is very tough,” he said.

“We made ballistic nylon luggage for 20 years and after Tumi left we got into the body armor business for the U.S. Army. So in that sense, my career has sort of come full circle.”
The Ramblin’ Roll
The Buzz from Friends

1930s

John H. Ridley, Chem 35, of Atlanta, was on hand to watch grandson Scott Bradley graduate with his master’s degree in applied biology from Georgia Tech in August. Ridley, a retired surgeon, serves on the advisory board for premedical studies for Tech’s College of Sciences.

1940s

Jerry Hamack, AE 43, was inducted into the International Astronautics Association as an academician in 2000. Hamack lives in Seabrook, Texas.

1950s

Goodman B. Espy, ME 57, was given the 2003 Jack A. Raines Humanitarian Award by the Medical Association of Georgia in August. The annual award recognizes the physician who has made outstanding humanitarian contributions beyond the normal practice of medicine. Espy, an obstetrician from Marietta, Ga., has dedicated his time and resources to helping provide medical treatment and equipment to Albania, helping provide medical treatment and equipment to poor countries in Europe.

Jim Jones, EE 55, and his wife, Angela, celebrated their 50th wedding anniversary on Oct. 24. Angela was awarded a “Mistress of Husband Engineering” degree by Dean George C. Griffin when Jim graduated from Tech. The couple have three grown sons and 18 grandchildren. Jones is retired from Saudi Consolidated Electric Co. in Saudi Arabia.

Wiley L. Malouf, IM 54, launched a remanufacturing facility for ink jet and toner cartridge modules in 2001 in Atlanta. Malouf lives in Atlanta.

McKinney V. “Mac” Taylor, CE 52, was elected in July to the Appalachian Trail Conference Board of Managers. Taylor lives in Richmond, Va.

1960s

Curtis L. Carter, IM 67, was promoted to senior vice president for national channels and sales operations for Cingular Wireless with responsibility for all national distribution channels and sales operations staff. Carter lives in Duluth, Ga.

T. Fisher Craft, NE 65, was recently honored with the Minuteman medal at the 113th annual Congress of the National Society of Sons of the American Revolution. The honor, which is the most prestigious award presented by the society, was established in 1951 and is presented to those who have made distinguished and exceptional contributions to the national society. Craft has been an SAR member since 1991 and served as vice president general of the South Atlantic district in 1999. He has served as national trustee for Georgia and Switzerland for two years. Craft and his wife, Laurel, live in Decatur, Ga.


Leland Holliday, CHE 65, retired Aug. 1 after a 38-year career with Sasol North America and its predecessor companies, including Conoco Chemicals and Vista Chemical Co. Holliday lives in Austin, Texas.

Kenneth Kase, Phys 61, took office as president of the Health Physics Society in July. Kase is also senior vice president of the National Council on Radiation Protection and Measurement. Kase lives in Palo Alto, Calif.

Don King, IE 60, completed a seven-day hiking and backpacking trip through the High Sierra backcountry of Yosemite National Park in California on Aug. 4. The 53-mile hike began at Yosemite Valley at 4,000 feet above sea level and ended at Red Peak Pass at 11,050 feet above sea level. King, who retired in 2001, lives in Snellville, Ga.

Earl P. Morrow, CE 65, has retired as director of facilities operations from Central Michigan University in Mount Pleasant, Mich., after 16 years. Previously, he worked for 28 years.

Two Alumni Named TR100 Innovators

Two Georgia Tech alumni are featured in the October issue of Technology Review magazine that salutes 100 innovators age 35 or younger whose technologies are poised to make a dramatic impact on our world.

Sanjay Parekh, EE 96, who developed software that lets companies tailor services to their customers’ locations, and Paul Q. Judge, MS CS 01, PhD 02, who wrote software that stops spam and viruses before they enter a network, are acknowledged in the Massachusetts Institute of Technology publication.

Parekh, 29, is chief strategy officer for Digital Envoy, a Duluth, Ga., company he formed four years ago. The product he developed, NetAcuity, is used by eBay, AOL, Time Warner, Microsoft and others to determine a visitor’s locality.

“It traces connections back through Internet switching stations to the network nodes where log-ons originate — almost always in a visitor’s city or town. This is close enough to give users local weather forecasts, or the addresses of nearby electronics stores, without them having to enter any data,” the magazine said. “NetAcuity also enables Web sites to automatically tailor advertisements. A billboard ad for Home Depot, for example, could announce a sale at a store near the visitor’s home. Indeed, Google uses NetAcuity to target area-specific ads.”

Judge, 26, is chief technology officer at CipherTrust, an Atlanta data security start-up company he joined while working on his master’s degree.

“Leading a team of 10 developers (all older than he was), Judge produced IronMail, a computer that runs a series of spam filters and virus detectors, some based on algorithms the team created,” the magazine said. Deployed at 700 corporations and universities, IronMail stops 95 percent to 98 percent of incoming spam without blocking legitimate mail, Judge said. He also founded Spam Archive, a research storehouse of junk e-mail, and his efforts led to his appointment as the first head of the Anti-Spam Research Group within the Internet Research Task Force, a professional society.

To preview the future, Technology Review said it searches for the people creating it. “We combed through the rosters of universities, companies, national laboratories and other R&D outfits around the globe to find 100 of today’s most exciting young innovators: the lab dwellers, visionaries and deal makers whose work will utterly transform our world in the years to come.”

Sanjay Parekh, top, and Paul Judge, above, were bestowed with TR100 awards.
years for LTV Steel in Aliquippa, Pa. He and his wife, Sarah, have moved to Grand Rapids, Mich., to be near their daugh-
ters and grandchildren.

Dick Simmons, CHE 61, MS CHE 64, accepted a position as vice president of the fuels and energy group for Deloitte & Co. in Houston after retiring from Methanex Methanol with 10 years of service. Simmons lives in Kingwood, Texas.

Larry Taylor, BM 62, has “re-retired” as a major general after serving for 20 months with the Marine Corps Reserve dur-
ing the mobilization and deploy-
ment of more than 21,000 Marine reservists after the terror-

John Whiteside, AE 64, retired in July after 27 years as a U.S. Navy civil service engi-
neer working on the Fleet Ballistic Missile program at the Lockheed Martin complex in Sumyate, Calif. Previously, Whiteside was in the Air Force for 12 years. He continued in the Air Force Reserve for 16 years before retiring as a lieu-
tenant colonel. He and his wife, Monika, will continue to live in San Jose, Calif., near their son, Randall Whiteside, AE 94.

1970s

Joe Braun, EE 72, has become a senior manager at PriceWaterhouseCoopers in Tampa, Fla. Braun lives in Lutz, Fla., with his wife and four chil-
dren.

George Carellas, IE 71, was awarded the Environmental Protection Agency Bronze Medal for Commendable Service in June. Carellas, chief of sustainability and steward-
ship for the deputy assistant secretary of the Army in the Pentagon, was recognized for “outstanding leadership as a founder of interagency partner-
ships that protect the environ-
ment, create mutual success among the military services, states and the EPA, and serve as an example of the best con-
duct a public servant has to offer America.” Previously, Carellas was chief of the Southern regional environmental office of the U.S. Army Environmental Center.

Michael J. Chesser, AE 71, was named chairman and CEO of Great Plains Energy in September and will take charge of the company in January. Chesser is currently on the board of directors of Iron Inc., a meter reading and automated communications equipment company for which he was previ-
ously chairman and CEO. Chesser has also served as president and CEO of Atlantic Energy Inc. and at GPU Energy. Chesser and his wife, Susan, live in New York City but will be relocating to Kansas City.

Douglas O. Cochran, CE 76, was elected president of the Georgia Railroad Association in June. He is chief engineering officer for Georgia & Florida RailNet and previously served as vice president of engineering for Gulf & Ohio Railways, road master with Georgia Southwestern Railroad and track supervisor and bridge supervisor with Norfolk Southern Corp. He and his wife, Jo, live in Leesburg, Ga., and have two children, John, a senior chem-
ical engineering major at Georgia Tech, and Jessica, a junior history major at Furman University.

N. Jan Davis, Bc 75, has been named director of the safety and mission assurance program at NASA’s Marshall Space Flight Center in Huntsville, Ala. Davis, an engi-
neer and astronaut who has flown on three space shuttle missions, joined NASA in 1979. She now will direct the safety, reliability and quality activities of all Marshall Center programs, including establishing and assuring compliance with NASA safety and mission assurance strategies, policies and stan-
dards and implementing meth-
ods for identifying and assess-
ing safety risks.

George Dabney, EE 74, merged his engineering compa-
y, Dabney Engineering, with Shosharian Engineering Inc. of Boston to form SEI Companies. Dabney was named principal and board member of the com-
bined company and will contin-
ue to manage Houston opera-
tions of the firm. The company provides engineering services ranging from mechanical and electrical to fire protection and communications technology. Dabney and his wife, Barbara Hall Dabney, EE 75, have been married 28 years and have three grown children, Caroline, David and Tressa. The couple live in Tomball, Texas.

Tony F. Hancock, ID 77, was promoted to director of packaging innovation in the consumer packaging division at Smurfit-Stone Container Corp. in

Fortuitous Friendship

Classmates’ start-up company realizes rapid growth

A t a time when many companies are tread-
ing water — or drowning — Synthis Corp. is experiencing a wave of success. Launched by six Georgia Tech classmates in the fall of 1999, Synthis released its first prod-
uct, Adalon, two years later. It now is being used in 25 countries around the globe to help design, sell and implement enterprise-class Web applications.

Synthis moved into the Advanced Technology Development Center at Georgia Tech in January 2002 and signed its 100th cus-

tomer before the end of the year. Rapid growth has continued in 2003. Synthis hit the 250-cus-

tomer mark in July.

A technology company specializing in process modeling tools, Synthis is powered by Wells Burke, CS 60, CEO, and Andy Ibbotson, IE 96, president.

Burke said Adalon is an easy-to-use model-
tool that helps unify key software develop-
ment functions.

“Adalon provides a bridge between busi-
ness-focused designers and technically focused software architects and developers. Our product enables designers to visually design Web applications based on clearly defined business process flows and automatically convert those process designs into a best-practice technology framework for development. This ultimately results in the faster delivery of a better-quality solution,” Burke said.

“Adalon is the first tool built from the ground up to support business process design for Internet applications,” he said. “With Adalon, we have created an integrated environ-
ment to define and track requirements, visually model the process foundations of an application and to create high-quality documentation and best practice code frameworks at the touch of a button.”

Capitalizing on the success of Adalon and more than three years of investment in the underlying Synthis Design Platform, the company now also licenses its technology to select OEM customers and plans to release a new process-modeling application in early 2004 tar-
geted at specific verticals within the business process-modeling market.

Synthis has operated profitably from the beginning without any outside investment. But company president Ibbotson said the company receives other kinds of support from Tech and ATDC.

“Georgia Tech and ATDC have provided us with a great group of people to draw from in terms of experience and knowledge. Being a part of the Georgia Tech family really has done a lot for us,” Ibbotson said.

Tech brought the six founders together.

“When we started Synthis in late ’99 we were hitting the peak of the Internet bubble. There was a lot of excitement about starting a software company and potentially retiring in a couple of years,” Ibbotson said. “We put together a very talented, all Georgia Tech team and set out to make our mark.

“We initially funded the company by sell-
ing our expertise in custom Web application development, charging consulting rates that are unheard of in today’s economy. Fortunately, we had enough good sense to reinvest our profits in product development instead of spending it all on fancy office space and extravagant par-
ties,” Ibbotson said.

“By the time the bottom fell out of the con-
sulting business, we had a great new product to market and were well on our way to achieving sustained profitability as a product-based com-
pany.

“Not getting carried away with our initial success as consultants, taking advantage of the many resources Georgia Tech has to offer and carefully managing our growth through these uncertain economic times is three major rea-
sons why we are doing so well today.”
Constrution Manager

Bill Miller retires, oversaw massive campus building projects

William A. “Bill” Miller, who has been responsible for overseeing the most massive campus construction projects in Georgia Tech’s history, retired in October as manager of capital projects for Tech’s facilities office.

Miller, CE 62, MS CE 71, spent the past 12 years managing projects totaling $500 million that changed the face of the campus.

In preparation for the 1996 Olympics in Atlanta, Miller, as director of Olympic Planning, was responsible for developing and managing more than $300 million in Olympic-related construction and renovation projects.

Over the past several years, Miller has been in charge of what he termed “the most significant project in the history of Georgia Tech.” Miller oversaw the organization of the campus into complexes centered on computing, biomedical engineering, research and academics in accordance with Tech’s campus master plan.

Projects included Technology Square, the Ford Environmental Science and Technology Building, Parker H. Pettit Building for Biotechnology and the Campus Recreation Center expansion; the renovation of the J.S. Coon Building; a $1.1 million project completed in April; and the planning of the Christopher Klaus Advanced Computing Building, the Undergraduate Learning Center and new green spaces throughout the campus.

Miller served in the Army Corps of Engineers for 30 years, retiring in 1992.
Buy Ad, Get Web Site

By Kimberly Link-Wills

Matt Wesolowski and Mike Adkins are the proud owners of WYAB 89.1 FM, a 4,100-watt “little blowtorch” in Yazoo City, Miss., which they found listed on eBay. Wesolowski, PubPub 00, was the sports director at WRER and a play-by-play baseball announcer during his student days at Georgia Tech. Dorm mate Adkins, EE 96, MS EE 95, studied radio frequencies. The two became friends and hatched a plan to launch their own radio station.

“During the summer of 1998, Mike just pored through everything possible to figure out how to get into radio. We spent hours on ends of pages,” Wesolowski said. “Basically we came to the determination that we probably wouldn’t be able to do it because all the frequencies were taken already, certainly in Atlanta.”

Then they heard about Federal Communications Commission license auctions in which radio frequencies can be obtained. They learned how to petition the FCC and sought out available frequencies throughout the Southeast.

“It’s unbelievably complicated and it’s a very long process,” Wesolowski said, explaining they have petitioned the FCC for frequencies in Georgia, Florida and Alabama but are still waiting for a license auction, which has been postponed time and again since 2000.

Still, they were undeterred.

“It wasn’t all talk. We bought two FM transmitters, one of them from Georgia Tech in fact. We bought the old WRER backup transmitter. We bought another transmitter off of eBay. It was all in anticipation of a station we were going to get one day. Mike wrote software for us to be better prepared for a license auction,” Wesolowski said.

Meanwhile, Adkins took a job with Boeing in California and Wesolowski began working as a network administrator at Revenue Technologies in Atlanta.

“In January 2002, I really began looking in earnest to find a cheap radio station. I mean the cheapest radio station in America, he said. “We looked at a bunch of cruddy little AMs. I looked at lots of those. We were trying to get something that could be more than it was, a fixer-upper.”

In April of last year, Wesolowski spotted an article in a radio trade magazine about the first person to try to sell a radio station on eBay.

“He wanted $20,000. I think he thought that after all the publicity, the price would skyrocket,” Wesolowski said. “He didn’t get any bids.”

Wesolowski and Adkins both visited the 880-square-foot fabricated building in Yazoo City shortly after the radio station was listed on the Internet auction site.

“The transmitter was just awful. There were no sales. There was a dedicated financial planner and registered principal at Harmon Financial Advisors in Atlanta. The couple live in Roswell, Ga. Daryl C. Jones, ME 84, MS ME 88, was promoted to regional partner by Shelter Development in September.

Jones heads Shelter’s Atlanta regional office and is responsible for expanding its affordable housing development and acquisition business. Jones joined Shelter in 1994 as vice president of information systems and later became senior vice president of the company. Jones and his family live in Atlanta.

John Kluber, ME 84, and his wife, Shawn, announce the birth of a daughter, Diane Leigh. Diane joins brother Grant Edward at the family’s home in Batavia, Ill. Kluber is co-founder of the architectural and engineering firm of Kluber Skahan + Associates, which he started with his brother, Mike Kluber, EE 87.

Melanie Pate Langseth, MgfSc 85, was made a partner at Deloitte & Touche in Atlanta in September. Langseth leads the firm’s employee benefits consulting practice in the Southeast. She and her husband, Kevin, and their children, Weatherly and Cameron, live in Tucker, Ga.

Mark Lasseter, EE 83, and his wife, Ayesha, announce the birth of their daughter, Aubrey Leigh, on Sept. 7. She joins brother Dane, 5, at the family’s home in Roswell, Ga.

Alyssa Levy McElhone, Psyh 85, and her husband, Dorian, announce the birth of a daughter, Dorian Wyne, on Oct. 10. Dorian joins brother Devin at the family’s home in Atlanta.

John F. “Jeff” Newell III, AE 85, is a lieutenant colonel in the Air Force and is currently serving as the Air Force military aide to President George W. Bush and is a colonel selected. He and his wife, Nancy, live in Washington, D.C.

J. Brett Newsom, IE 86, has been named director of pricing and regulatory affairs for Southern Co. Newsom’s responsibilities include all rate and pricing decisions, the sales team, and governmental and regulatory affairs. Newsom previously served as manager of regulatory and legislative affairs and pricing. Newsom joined SCANA as a sales manager in 1996.

Tom Owens, IM 84, celebrates his 10th anniversary in November with Cracker Barrel Old Country Stores Inc. Owens, regional facility manager for the company, recently had the north and central Georgia districts added to his responsibilities.

Owens lives in Lebanon, Tenn. Daniel Warren Plunk, ME ME 85, was promoted to director of transportation planning and operating systems for Norfolk Southern Corp. in August. Plunk, who earned his MBA from Virginia Tech in 2003, lives in Newnan, Ga.

Negotiations began. Wesolowski quit his job in September to devote himself full time to acquiring WYAB! Paperwork was filed with the FCC on Christmas Eve and approved in March. The owner agreed to finance the sale.

“We put down the smallest down payment on the cheapest radio station in America,” Wesolowski said.

On April 1, he officially became the station’s CEO and Adkins its president. Although Adkins remains in California, he travels to Yazoo City frequently.

“Mike is the chief engineer. He wrote the automation for the station. He rebuilt the transmitter. He works for nothing, but with the understanding that he owns half the radio station,” Wesolowski said.

Wesolowski and Adkins pooled their savings — less than $40,000 — to cover expenses until they could make WYAB profitable.

“The old owner left us with about $600 a month in sales. For a station like this, you really should be able to do about $15,000 a month,” Wesolowski said. “We lost $10,000 our first month. Now we’re within about $5,000 of being profitable, but we knew we were just going to go through hell the first year or two.”

This first taste of radio station ownership hasn’t sidetracked plans to scoop up available frequencies when the FCC does have a license auction. And the business partners continue to watch for small radio stations on the market. They hope to one day own more than a dozen stations around the country.

“I want to get this one stable, hire a general manager and move on,” Wesolowski said.

The radio station owner and his fiancee became husband and wife on Nov. 8. But the honeymoon already may be over.

“I told Danielle these next couple of years are going to be the worst of her life, then after that everything will be OK.”
John Armstrong, MS

Susan Whitaker
Aspinwall, Mgt '97, and David Aspinwall, Econ '97, announce the birth of a son, Benjamin Michael, on May 7. Ben joins brother Matt at the family’s home in Marietta, Ga. Davis is a marketing manager for Bekoart Corp. and Susan is CEO of DSNW Corp.

Christine “Tina” Rowland Atchison, EE '91, and her husband, Joe, announce the birth of their daughter, Claire Rose, on May 10. Claire joins brother Trevor, 3, at the family’s home in Marietta, Ga. Atchison is a senior engineer at MEAG Power.

Brent Bandy, CE '91, and CE '97, has been named a principal at Walter P. Moore, an engineering and consulting ﬁrm in Atlanta, Bandy, who has been with the ﬁrm since 1992, served as manager for the company on projects such as Technology Square for Georgia Tech and the Sam Nunn Atlanta Federal Center. He has recently taken an assignment in Chicago on the McCormick Place Convention Center expansion. He is a licensed professional engineer in six states.

John W. Bolton Jr.
CE '90, and his wife, Stephanie, announce the birth of their ﬁrst child, Chloe Capes, on July 1. The family recently relocated to Loganville, Ga., and Marty is a consulting engineer with Carter & Slope Inc.

Tom Brooks
CE '90, has been promoted to assistant athletic director at the University of Michigan. He was also recently named the 2002-03 Big Ten Conference Marketer of the Year. Brooks, his wife, Jennifer, and their daughter, Haven, live in Ann Arbor, Mich.

Brent Bryan, Mgt '93, and Victoria Cobb Bryan, Text '02, announce the birth of their daughter, Jill Alexander, on Aug. 30. Jill joins sisters Katie, 5, and Darby, 1, at the family’s home in Auburn, Ga. Brent is a sales engineer with Arcopol Corp. and Vicki is a full-time mother.

Tasha Akins Bucy
CE '90, and her husband, Jeff, announce the birth of their son, Nathaniel Ben, on Jan. 9. Ben joins sister Madison at the family’s home in St. Augustine, Fla.

Christopher T. Burke
AE '90, and Tanya M. Sager, AE '90, were married Aug. 2, in Helen, Ga. Burke is a nuclear engineer. Tanya is a nurse in Dahlonega, Ga.

Jennifer Cauchon
MS ID '98, and Ron German were married Aug. 16. The couple lives in Marietta, Ga. Jennifer is a freelance graphic designer and is working on starting a company, JenCaDesign.

Patrick Clemensen
CHE '90, and his wife, Cathy, announce the birth of a daugh- ter, Chloe Bay, on Dec. 21. The girl is named for her maternal grandmother, who passed away in 2002. Clemensen is an applica- tions engineer with Solvay Advanced Polymers in Atlanta. The family lives in Atlanta.

Heather Ezzel Dautel
IM '93, and her husband, Michael, announce the birth of a son, Stewart Charles, in June 2002. Stewart joined brother Andrew Pae at the family’s home in Charlotte, N.C. Dautel is the manager of the compli- ance/registration division for Wachovia Capital Markets in Charlotte.

Ron Davis
Mgt '95, is an assistant professor of computer information systems at the University of North Alabama and an adjunct instructor in computer information systems at Northwest Shoals Community College. Davis lives in Muscle Shoals, Ala.

Brian S. Dietzman
Har '96, is a candidate in the mas- ter’s degree program in interna- tional affairs at the George Bush School of Government and Public Service at Texas A&M University. Dietzman and his wife, Joanna, live in College Station, Texas.

R. Mark Dougall
Mgt '90, and his wife, Regan, announce the birth of their ﬁrst child, Ryleigh Elizabeth, on July 7. Dougall is the principal of Dougall Law Ofﬁces, a practice focused on real and intellectual property transactions. He is also a Tennessee Rule 31 listed mediator. The family lives in Nashville, Tenn.

Heather Duda
Mgt '93, and Raymond Baster Oliver III were married Oct. 18. Duda is a manager of sales and retailer relations for the National Association of Convenience Stores. Duda lives in Alpharetta, Ga.

Dean Dummitt
ME '92, and Heather Lemke
Dummitt
Chem '93, announce the birth of their son, Nathan Dean, on May 10. Dean is a regional sales manager with Luzenac America and Heather is the total quality systems site manager at Graphic Packaging in Macon, Ga. The family lives in Macon.

William J. Flanagan
Psych '97, has joined Management Consulting Group in Atlanta as a partner. Flanagan lives in Roswell, Ga.

Craig Fox
ME '96, and his wife, Rebecca
Economics '97, announce the birth of a daugh- ter, Katharine Anne, on Jan. 13. Wendy is a senior systems ana- lyst for Global Payments Inc. in Atlanta and Craig is a mecha- nical engineer for Factory Automation Systems in Atlanta. The family lives in Newnan, Ga.

Craig S. Gilden
ME '93, and his wife, Rebecca
McNally Gilden
ME '94, announce the birth of a son, Jason Michael, on March 5. Jason joins sister Alexandra at the family’s home in Ann Arbor, Mich. Craig and Rebecca both work at Ford Motor Co. in Dearborn, Mich.

David Glastenberg
ME '94, and Theresa Schlitt
Glastenberg
MS EE '01, announce the birth of a son, Kyle Christopher, on Aug. 8. David is a former sales engineer and project manager for Nortel Networks and will be taking time off to stay home with Kyle. Theresa is a senior systems engineer for Bayouweb in McKinney, Texas. The family lives in Allen, Texas.

Heather Kessler
Johnson
CE '94, and her hus- band, Derek, announce the birth of a son, Matthew Loeslie Richard, on June 9. The family lives in Nashville, Tenn., and Johnson is a transportation engineer for Gresham Smith and Partners.

Ryan J. Judge
Mgt '98, and Wendy E. Jones, IE '00, were married June 14 at Peachtree Road United Methodist Church in Atlanta. Wendy is a business analyst with Cendan Corp., Atlanta and Ryan is a technology man- ager with Southeast Pet Inc. in Austell, Ga. The couple live in Smyrna, Ga.

Brian Kessler
ME '94, and Tasha Hurst,
Psych '97, announce the birth of a daughter, Alex, on May 26 in佛山市, Italy. Kessler earned his MBA in August from Georgia State University. He is lead consultant for NewEnergy Associates. The couple live in Atlanta.

William “Celt” Lang
II, CS '96, and Jill
Chambers Lang
Bld '97, announce the birth of a daugh- ter, Lucy Elizabeth, on June 28. Celt is the chief engineer for VCommerce Corp. in Seneca, S.C., and Jill is a veterinarian practicing in Phoenix. The family lives in Scottsdale, Ariz.

Francisco Lopez
CE '98, and Virginia Malcome, IE '00, were married Nov. 30, 2002, in San Juan, Puerto Rico. The couple also recently celebrated the first anniversary of Pegasus Group Inc., the general contracting company they founded together in July 2002. The company is focused on construction and telecom and has completed projects in Puerto Rico and the Caribbean. Virginia and Jorge are living and working in San Juan.

Chad Lowenthal
MgtSci '96, and Todd Simon Lowenthal,
IE '96, announce the birth of a daughter, Alexandra Danielle, on June 6. Dana is assistant vice president of sales process and technology for HomeBanc and Todd is in sales and mar- keting. The family lives in Kennesaw, Ga.

Kate Lukke
MSE '99, and her husband, Dave, announce the birth of a son, Noah William, on July 28. Lukke is a fuel system design engineer at Visteon in Dearborn, Mich. The family lives in Milford, Mich.

Tasha Hunger
Johnson
CE '94, and her hus- band, Kyle, announce the birth of their son, Teague Benjamin, on Aug. 20. The family lives in College Station, Texas.

Noah Diestman
Mktg '95, was recently promoted to lieutenant commander in the Navy Reserve. Maldonado was promoted while serving with the commander of the Air Fleet Mediterranean in Naples, Italy.

James Chad Mangum

Randy McDow
IE '95, and Sara McDow, Mktg '98, has been pro- moted to director of the President’s Scholarship Program at Georgia Tech. He continues to serve as the faculty sponsor of the cappella club and as recruitment advisor to Delta Sigma Phi. McDow lives in Atlanta.

Chris Nichols
CHE '96, and Ginger Wilde Nichols, CHE '00, have moved to Thomasville, Ga., where Chris is on staff with YoungLife. Ginger works in the computer systems engineering group at Merck & Co.

Leonardo “Lenny” Ortiz
IE '97, and Beth
Cunningham Ortiz, Psych '97, announce the birth of their second child, Alexander Michael, on May 19. Alex joins sister Isabel Anna, 3, at the family’s home in Oklahoma City, Okla. Lenny is an engineer in the systems engineering division for Triker Air Force Base in Oklahoma City and Beth currently works in a human resource group at Honeywell.

Jeffrey Osterlund
CHE '98, and his wife, Sherri, announce the birth of their son, Carson Maldonado Osterlund. Carson joins sister Natalie at the family’s home in League City, Texas. Osterlund is an upgrades project manager for
Tech Tradition
Harbour clan spans four generations
By Maria M. Lameiras

Many people hang their college degrees on an office wall, but Ken Harbour has four Georgia Tech diplomas hanging on his, the first earned in 1904 and the last in 1987.

No, Ken isn't a marvel of longevity and educational prowess. He's a fourth-generation Tech graduate and only the industrial management degree from 1987 is his own. The others belong to his great-grandfather, George A. Harbour Sr., TE 04; his grandfather, George A. Harbour Jr., ME 36, and his father, George A. Harbour III, Mgt 92.

George Sr. died in 1957 and George Jr. in 1997, but the Tech tradition lives on in the Harbour clan, said George III.

"My father, being an engineer, kept very detailed journals about the family and the family connection to Georgia Tech," he said, poring over several volumes of handwritten journals kept by his father. "When my grandfather, George Sr., came to Tech from Rome, Ga., in 1900, he was awarded one of the first A. French scholarships and, after graduating in 1904 with his textile engineering degree, became a professor of mechanical drawing at Tech for several years."

George Jr. attended Tech during the Great Depression and his education was financed through sacrifice.

"My grandfather was an avid stamp collector and my father told me my grandfather had to sell a good bit of his stamp collection to send my father to college," George III said. "He was very fortunate to be able to go to college."

George Jr. took the opportunity to heart and was a devoted and dedicated alumnus, said his son.

"When I was in high school at the Georgia Military Academy in Atlanta my father came to me and said, 'Well, do you want to know where you're going to college?'" George Jr. said.

"I said, 'I don't want to go to Tech. I could go to Furman for three years, then transfer to Tech and graduate with a Tech degree so that's what I'll do.'"

Ken stayed at Furman for only two years before transferring to Tech.

"I had to go to school for the summer quarter on a provisional acceptance because I'd come to Tech early, but I didn't mind," he said.

George III said he is still amazed at the speed his son demonstrated in adapting to Tech's tough academic environment.

"I got on the Dean's List that first quarter and stayed on it every quarter until I graduated — except for one summer I had him working for me, so that was my fault," George III said with a smile.

Ken chose industrial management over engineering with the long-term goal of working on the business end of Cleveland Electric, the family business on his mother's side. The president of the company is Ken's uncle, James R. Cleveland Jr., ME 60.

Now Ken and his wife, Paige, have three children, Nicholas, 8, Bennet, 4, and Isabel, 3, who Ken hopes will be fifth-generation graduates.

"My dad was very encouraging of me to go wherever I wanted to go to school, but I really wanted to go to Georgia Tech all on my own and that's how I will be with my kids," he said.

And he'll provide early Tech experiences for his young family.

"We have season tickets this year and we go as much as we can. The kids love to sit and watch the game and take it all in and they love it when Buzz comes around," Ken said.

Ken can imagine the pride he would feel watching his children graduate from Tech.

"When I graduated, my grandfather was there to participate and I think that was the proudest he's ever been. You talk about someone just beaming from ear to ear, that was him. He even had his RAT cap on," Ken said.

"One of the greatest relics I have is that he left me his RAT cap. It is really neat to be a part of a tradition like this."
By Karen Hill

I'm Not Rich Yet, But ...

Alumnus patents first financial product traded on exchanges

By Karen Hill

A lumnum Vergil Daughtery found a hole in the real-world application of a world-famous financial algorithm and is poised to drive a Brink's truck through it.

Daughtery, Mgt '90, MS Econ '95, has licensed his product, the Expirationless American Option, or XPO, to NexTrade Futures Exchange, which is applying for permission to open as a futures exchange by mid-June 2004.

Daughtery never could let go of his "huh?" reaction to a portion of the Black-Scholes option-pricing algorithm presented years earlier in a Georgia Tech classroom. He puzzled over it almost immediately from the time NexTrade Futures Exchange, based in Clearwater, Fla., opens and July 2014.

No one is willing to speculate on how much money could be made from XPOs, but it could be enormous. "We have the first patents in a market estimated at greater than $1 quadrillion ($1,000,000,000,000,000) annually," Daughtery said. "I am not rich yet, but I think it's a reasonable certainty that I will be able to retire in comfort at some point in time."

Daughtery lives with his wife and two teen-age children in North Carolina, where he is the president of a nonprofit group that builds houses for people with disabilities.

Frank Bachinsky, director of exchange development for the NexTrade Futures Exchange, said, "The overall feedback from market participants has been outstanding. The general consensus sees this product as the next big thing in the derivative marketplace."

"Essentially, Daughtery has eliminated the last of the three gambles that is part of each options decision — whether the price of something will rise, whether it will fall, and how much time will pass before it happens. It's a product he designed after never being able to figure out why there needed to be a time element in real-world applications of the Black-Scholes option-pricing algorithm, developed in part by one of two economists who won the 1998 Nobel Prize for their work in options pricing."

One of the basic assumptions in that algorithm, Daughtery decided, would never work in reality. The assumption gave a value to an expirationless European option. European options can only be exercised on the last day of an option, as opposed to American options, which can be exercised at any time within a specified period.

But how could something that is expirationless have a "last day?" Daughtery wondered as he studied the European model on which the Black-Scholes algorithm is based. "Essentially, there is no difference between selling someone an expirationless European option and selling them the Brooklyn Bridge," Daughtery said. "In either case, you never have to deliver."

That would never fly in the real world, he decided, where contract law voids as valueless any agreement that has "no reasonable expectation of coming to fruition."

So he decided to simply take out the time element.

Options are traditionally defined as a right to buy or sell an asset at a predetermined price over a specified time. It's a high-risk market historically associated with agricultural commodities.

For example, take a trader named Buzz working in March of 1900. Trader Buzz might have bet that the price of corn would rise from the $1 a bushel paid the previous summer to $5 a bushel that summer and bought an option from Farmer Ramblin to buy 1,000 of his bushels for $5 per that Augst.

If a drought hit between March and August and the scarcity of corn made the price of corn skyrocket to $10 a bushel, Trader Buzz won, as Farmer Ramblin was obligated to sell to him at $5 a bushel anyway. But if there was a bumper crop, with corn so plentiful that the price fell to 50 cents a bushel by August, Farmer Ramblin still wins because he has been paid for an option by Trader Buzz that expires worthless (Buzz lost the bet) and Farmer Ramblin makes the market price plus the price he received for the option. Ramblin still receives, from the two combined, a price above the market price — sale of commodity plus sale of option.

Trader Buzz loses because he bought an option he can't use (it expires worthless) and so he has paid good money for something that winds up, in short order, worthless. If the option was expirationless, Trader Buzz could keep his option until needed, even if it was two or three growing seasons down the road. An option is "the right but not the obligation," so if the price goes against an option, exercise is not mandatory, Daughtery said.

For a futures contract under this same example, if the price rises from current levels, Buzz makes money and Ramblin loses, because performance is mandatory. But if the price falls from current levels, Ramblin makes money and Buzz loses. The advantage of an option is that you make money in one direction but do not lose money if prices go the other way. The advantage of the XPO over traditional options is that you do not have to be right on the timing, just the price direction. The advantage of the XPO over traditional futures is that you don't have a realized loss if you are wrong on price direction. Over time the options market expanded to include the trading of things that weren't subject to the whims of Mother Nature. Daughtery couldn't find a good reason to keep the time element in options. He found two good reasons — liquidity and tax advantages — to take it out.

In a modern-day example, George P. Burdell might buy stock in Wrecks R Us at $50 a share. The price promptly falls to $25 a share. Burdell might think the only thing he can do is wait and hope the stock rises back to at least what he paid for it.

But expirationless options give him another way. Burdell can sell an expirationless option to Mr. Yellow Jacket, who must buy it if the price falls to $20 a share or can buy it if the price rises to $55 a share. This guarantees Burdell a modest profit if the price rises and saves him from further losses if the stock slides all the way to $1. He gets some cash immediately from the sale of the option, plus a temporary pass from Mr. Tax Man, who won't collect until Burdell actually sells the stock to Jacket.

Burdell gets, basically, an interest-free, tax-free loan from Jacket. From Jacket's perspective, if someone at Wrecks R Us invents a cure for cancer and the stock skyrockets to $1,000 a share, he gets quite a deal when Burdell has to sell it to him at $55.

Daughtery's XPO could become a key component in new exchanges like NexTrade Futures Exchange that are forming to challenge the heavy-weights Chicago Mercantile Exchange and Chicago Board of Trade in the futures market.

NexTrade is now developing ways to sell expirationless options, Bachinsky said.

"They have structural benefits. We have the ability to apply them to any market we so choose," Bachinsky said.

Daughtery said XPOs have a wide range of uses.

"XPOs will be used to help manage risk between different asset classes — futures, equities, swaps and options — to create a new way to invest, speculate and hedge," he said. "This will increase value for all investors and should lead to higher stock and other asset prices — more value — as risk is reduced across markets, time zones and geographic boundaries."
International Perspective

Alumna chooses medical school suited to globe-trotting goals

By Maria M. Lameiras

In the four months since starting medical school, Amy Edwards has moved more than 6,000 miles from home, begun learning a new language and had lunch in a Bedouin tent in the Negev Desert.

Edwards, Biol 01, is among the 33 members of the Class of 2007 in the Ben-Gurion University of the Negev MD Program in International Health and Medicine in collaboration with Columbia University’s Health Sciences Division. It is the first medical degree program designed to train doctors with specific skills in international medicine.

Prior to enrolling in medical school, Edwards performed biomedical research at the National Institutes of Health.

“I first learned about the program after graduating from Tech. I was working at NIH and one of the doctors there knew I was applying to medical school and gave me a brochure,” Edwards said.

She will spend her first three years studying at Ben-Gurion’s Joyce and Loring Goldman Medical School in Beersheva, Israel. Beyond the basic medical sciences and clinical rotations found in American medical schools, she will learn about refugee health, health care economics, disaster relief, infectious diseases and nutrition. She will also complete coursework in epidemiology, biostatistics, medical anthropology and cross-cultural communication.

“What attracted me initially was the international aspect of the program,” said Edwards, who has been interested in studying overseas since high school in Marietta, Ga. “All of my family is still in Georgia, but I guess I’ve always been ‘that one’ in my family.”

At Tech, she participated in a study abroad program in biology and international affairs to Costa Rica.

“I think I caught something on that trip. Ever since I’ve been really intrigued with working and studying abroad. I really enjoy traveling and I feel there’s a lot to be learned out in the world,” said Edwards, who traveled last summer with her parents to Bolivia, where she worked with doctors in clinics for the Ayamara Indians.

Since arriving in Israel in July, Edwards has visited Jordan, Jerusalem and the West Bank and is planning a visit to Egypt.

“Beersheva, where I live, is in the southern part of Israel in the Negev Desert, and it is really peaceful here. Being in Israel is really different than watching it on the news. I did have concerns when I first thought of moving here as to whether I was making the right decision and would be safe. When I got here and was able to travel around some, I got to see how it really was.

“People tell you not to travel into the Arab countries or into the West Bank, but it is not like it is on the news. I’ve found that most of the people I’ve met are normal people and they just want to live their lives and be happy. It’s just the other 1 percent that causes all the fear.”

Although she is taking all of the “normal” classes a first-term American medical student would take, Edwards said she is also being exposed to curriculum far removed from what she would receive in the United States.

“I am taking systems of microbiology in which you go system by system and focus on the bacteria that can be present in each system. In the United States, you would focus on certain bacteria that are prevalent there. Here we are also doing rare bacteria that are now found only in third-world countries,” she said.

“Every Wednesday is global medicine day and we spend the day conducting patient interviews in another language or working with Bedouins in the desert. My very first month here we spent a day in a Bedouin village and had lunch in a Bedouin home. They are very much of the philosophy ‘my house is your house.’ Once you have tea with them in their house, you are like family. They are very warm and friendly people.”

Edwards has been studying Hebrew since she arrived in Israel in July.

“It is important to learn Hebrew because even though everyone here is required to take English from a young age, most of them are not fluent. When you take a patient history it is much more effective to speak to the patient in their native language and it makes them more comfortable,” she said.

Once she finishes her coursework at Ben-Gurion, Edwards will spend two months at the end of her fourth year doing hands-on fieldwork in India, Ethiopia, Kenya, Nepal or Peru before applying for her residency in the United States.

“My degree from Tech is in microbiology and I’ve always been interested in infectious diseases, which in its nature is very international because the United States has a limited scope of infectious diseases,” she said.

“But it is not just for the diseases I will be able to treat, it is for the people. If you are not the doctor in some of these countries, there is no doctor. Some of these people spend their lives without health care.

“Not everyone is built for this, but it’s a challenge and it’s really exciting for me,” she said.
36 Burdell & Friends

3600s


Lisa Beyer, BE 01, and Jonathan Sims, MEng 03, were married Aug. 3 at Chateau Elan in Braselton, Ga. Lisa is attending law school at Emory University and will graduate in May and Jonathan is working for Eagle Rock Distributing Co. as a distributor. The couple live in Snellville, Ga.

James “Jimmy” Burgess, MEng 02, and Kelly Trumble, IE 02, were married June 14 at Walt Disney World in Orlando, Fla. The couple live in Smyrna, Ga.

Daniel DeCicco, IE 01, and Jessica Dreling were married Aug. 30 in Pensacola, Fla. The couple live in Nokomis, Va., where DeCicco is a lieutenant junior grade and pilot in the Navy flying MH-60 helicopters with Helicopter Combat Support Squadron 6.

V. Blair Dowling, Math 03, CS 03, was selected to receive one of 100 fellowships in the new Homeland Security Scholars and Fellows Program from the U.S. Department of Homeland Security. More than 2,500 students nationwide applied for the 100 openings available to undergraduate and graduate students in disciplines related to scientific and technological investigations.

Rebecca Johnson Hinkle, BiE 01, and Jason Warrington were married Aug. 20 in Atlanta. Hinkle is an environmental scientist with TN & Assoc Inc. Engineering and Science.

Wendy E. Jones, IE 00, and Ryan J. Judge, MEng 98, of Smyrna, Ga., were married June 14 at Peachtree Road United Methodist Church in Atlanta. Wendy is a business analyst with Cendant Corp. in Atlanta. Ryan is a technology manager with Southeast Pet Inc. in Austell, Ga.

Virginia Malcom, IE 01, and John Lopez, CE 99, were married Nov. 30, 2002, in San Juan, Puerto Rico. The couple also recently celebrated the first anniversary of Pegassus Group Inc., the general contracting company they founded together in July 2002. The company is focused on construction and telecom and is serving Puerto Rico and the Caribbean. Virginia and Jorge are living and working in San Juan.

Shawn Montague, IE 02, and Nicole Stout, IE 03, were married March 20 in San Antonio, Texas. Both Shawn and Nicole are labor maintenance analysts with Walt Disney World Resort. The couple live in Orlando, Fla.

Kathleen Mullins MEng 01, and Eric Demirjian, AE 02, were married June 7 in Huntsville, Ala. Eric works for the Department of Defense.

Ginger Wills Nicholas, CHE 00, and Chris Nicholas, CHE 95, have moved to Thomasville, Ga., where Chris works at Young Life. Ginger works in the Merch & Co. computer systems engineering group.

Daniel Otis PolyTechChem 00, and Kelly Goff were married Aug. 9 in Hattiesburg, Miss. Otis is a graduate research assistant at the University of Southern Mississippi School of Polymers and High Performance Materials and is pursuing a PhD in polymer science and engineering. The couple live in Hattiesburg, Miss.

Mordecai Ray, STAC 00, and Tony Vaildey MEng 02, of Atlanta were married July 19. Meredith works with FASET Orientation at Georgia Tech. Tony works with PricewaterhouseCoopers in Atlanta.

Nicole Shumpert, BID 00, received a master’s degree in public health education from the University of Alabama-Birmingham Medical School of Public Health in May. She is currently an ASHP/CDC research fellow with the National Center on Birth Defects and Developmental Disabilities in Atlanta. Shumpert lives in College Park, Ga.

Kelly Murphy Stewart, ME 03, and Glenn Stewart, CE 99, announced the birth of their first child, Jonathan Glenn, on Aug. 11. The family lives in Sharipton, Ga.

John Urso, AE 01, and SooOk Hausmann, AE 01, were married June 10 in LaGrange, Ga. John is a C-17A pilot at Charleston Air Force Base in Charleston, S.C. They live in Mount Pleasant, S.C.

Nicole L. Zirkelbach ME 01, was named Most Promising Engineer in the advanced degree category at the Hispanic Engineer National Achievement Awards in October. She worked on the C-5 avionics modernization program at Lockheed Martin Aeronautics Co. in Marietta, Ga.

1930s

Robert Hugh Caldwell Jr., CS 35, of Chapel Hill, N.C., on June 14. He graduated from the U.S. Naval Academy in 1986 and spent World War II in Pacific submarine combat, killing the S-45 and the USS Peto. Mr. Caldwell’s distinguished Navy career included service as an attaché to Mexico and Central America, in the Office of Naval Intelligence, as the undersea warfare officer for NATO’s Strikeforce Southern Command in Italy and as commandant of the USS Taluga. After earning an MBA from George Washington University, he served as inspector general for the U.S. Department of Defense.

Walter B. Howard AE 32, of Jacksonville, Fla., on Aug. 1. He served as a B-29 navigator in the Army Air Corps in the Pacific Theater during World War II. Mr. Howard retired as a lieutenant colonel and worked for the Navy as chief of the aircraft overhaul and repair facility in Jacksonville. He kept a typewritten copy of “The History of Georgia Tech’s AE Department,” where he and 11 other members of the first graduating class wrote in 1932. Last year Mr. Howard purchased an experimental aircraft that he was planning to assemble in his garage. Survivors include son Robert B. Howard, CE 71, MS SRE 72.

William M. Miller, IM 39, of Coronado, Calif., on June 2. He was a retired Navy command-

Brundley D. Pritchett TE 33, of Decatur, Ga., on Sept. 30. While a student at Georgia Tech, he was instrumental in the founding of Phi Psi honorary fraternity. He was a manager at Energistics and Phoenix Mills in Columbus, Ga., before joining the Army in 1938. Col. Pritchett founded the 392nd Anti-Aircraft Artillery Defensive Division in the Pacific during World War II. He returned to Eagle and Phoenix Mills as superintendent and later worked as a sales engineer at Steelhead Manufacturing Co. until his retirement in 1972. Mr. Pritchett was inducted into the Georgia Tech Engineering Hall of Fame in 2002 for his lifetime of achievement and service. He also was a member of Georgia Tech’s Founder’s Council and Phi Sigma Kappa fraternity.

William P. Welch III ME 35, of Santa Cruz, Calif., on Sept. 16, his 90th birthday. He was named the “smartest boy in Alabama” in a contest sponsored by Thomas Edison and got to spend a week at Edison’s lab, where he met the inventor as well as Henry Ford and Harvey Firestone. A member of the ROTC during World War II, he worked as an engineer with the Navy and Adm. Hyman G. Rickover, known as the “father of the nuclear Navy,” in Washington, D.C. He was on the design teams for the aircraft carrier USS Enterprise and nuclear submarines USS Sturgeon and USS Nautilus. His engineering career with Westinghouse Electric spanned nearly half a century and took him from Pennsylvania to California. At age 86, Mr. Welch became the oldest person on record to hike the 14-mile, 10,000-foot High Sierra Loop in Yosemite National Park.

James “Harvey” Wilson Jr., CmpE 38, of Gainesville, Ga., on March 3. A second lieutenant in the Army during World War II, he worked as a field chemical engineer with Rayonier Inc. His job took him to his family and Mexico, where he worked in an orphanage for local children during his 12 years there.

1940s

Kenneth M. Brooks IM 48, of Anderson, S.C., on Aug. 21. He was a member of the Georgia Tech diving team and Kappa Phi fraternity. He graduated with a pilot’s license at age 13, was a captain in the 51st Fighter Wing of the 14th Air Force during World War II, he worked as an executive in the automotive manufacturing division of General Motors Co. after 37 years of service.

Gene G. Guenther, IM 47, of Versailles, Ind., on Nov. 22.

Robert D. Reisman, IM 43, of Wichita, Kan., on Sept. 5, 2002. He was the retired owner and operator of House of

Burdell 11/6/03 4:17 PM Page 36
Lighting, a specialty lighting showroom in Wichita. Mr. Reitman was a member of Tau Epsilon Phi fraternity.

Stanley Smith

Simpson Sr., IE 48, of Destin, Fla., on July 5. He was the retired vice president of Brandt Engineering Co. His father, Stanley Smith Simpson Sr., graduated from Georgia Tech in 1922 and had been a founding member of the Delta Tau Delta fraternity chapter. His son also was a Delta Tau Delta.

Thomas E. Stevens

42, of Roswell, Ga., on June 3. He was a letterman in both basketball and baseball at Tech and served on a Navy submarine in the Pacific during World War II.

Howard Stillwell

IM 46, of Roswell, Ga., on July 30. He set a 100-yard dash state record at Boys High School in Atlanta. Mr. Stillwell served as a Navy lieutenant junior grade aboard an amphibious ship and two destroyer escorts in the Pacific Theater during World War II. Two of those ships were destroyed. Mr. Stillwell, who helped launch and served as the first president of the Cherokee Town and Country Club, helped build a start-up company into Chicago Title.

Arthur Weiner

EE 48, of Atlanta, on Sept. 4. He served as a second lieutenant in the Signal Corps with the Allied Occupation Forces in Germany. Mr. Weiner worked as an electrical engineer with the U.S. government and several defense contractors. His work included classified projects for the Army and Air Force.

John William Yopp Jr.

Cis 49, of Cumming, Ga., on July 31. He served in the Army Air Corps during World War II and as an Air Force first lieutenant during the Korean War. Mr. Yopp was the publisher and editor of John W. Yopp Publications Inc., which was founded by his father in 1914.

William Young

JE 47, MS IE 49, of Tallahassee, Fla., on Feb. 18. He retired as president of refining for Kerr-McGee Corp.

1950s

J. Edward Bobo

IE 59, of Statesville, N.C., and Atlanta, on Aug. 16. A member of Beta Theta Pi fraternity at Georgia Tech, he served as a Navy pilot and was an engineer with Newport News Shipbuilding and FPG Industries. Mr. Bobo retired as a corporate engineer in distribution with J.C. Penney Co.

Julius Colman Jr.

IE 54, of Eastley, S.C., on Oct. 10, 2002. He served in the Army Air Force during World War II and entered Georgia Tech after his discharge. Mr. Colman served in numerous management positions with Ford Motor Co. both in the United States and Japan.


IM 50, of Atlanta, on July 30. His father, R.L. “Shorty” Doyal, played football at Georgia Tech under John Heisman, then coached his son in football, basketball and swimming at Boys High School. Buck also ran track at Boys High before moving on to Georgia Tech to play football for Bobby Dodd. In the late 1950s, while running the family insurance agency, R.L. “Shorty” Doyal and Sons Inc., Buck and his brother, Larry Doyal, Cis 52, founded Doyal & Associates, a real estate brokerage and development company. Buck served as president of the firm.

Carlton Pierce "C.P." Fountain

Arch 53, of Atlanta, on Oct. 4. He was an Army paratrooper and owned an architectural firm in Atlanta for 35 years. Mr. Fountain’s architectural achievements included Bible Baptist Church in Savannah, Ga., St. Bartholomew’s Episcopal Church in Atlanta and a Georgia Tech Research Institute building.

Thomas J. Garrett, Cis 50, of LaGrange, Ga., on Aug. 24. An Army Air Corps veteran of World War II, he worked as a mechanical contractor until his retirement in 1966.

Louis Gordon

EE 51, of Stone Mountain, Ga., on Aug. 16. He served in the military for four years during World War II before enrolling at Georgia Tech. After graduation, he worked for IBM for 34 years.

Robert N. Lasseter Sr.


James T. Madry

CHE 50, MS CHE 53, of Statesville, N.C., on Aug. 25, 1996. A Korean War veteran and Medical College of Georgia graduate, he practiced medicine in Florida and North Carolina until his retirement in 1986.

Thomas A. Mitchell

ME 58, of Loganville, Ga., on Oct. 6. A mechanical engineer for 45 years, he owned Mitchell & Associates in Loganville.

William “Tom” Musgrove

IM 53, of Marietta, Ga., on April 9. A retired Marine Corps major, he was a veteran of the Vietnam War. Mr. Musgrove worked for the General Services Administration until his retirement.

John B. Wise

ME 54, of Atlanta, on Sept. 11. He retired from Lockheed after 43 years of service. A private pilot, he was the first president of the Lockheed Flying Club and had also served as president of the Atlanta chapter of the Society of Flight Test Engineers Club. At Georgia Tech, Mr. Wise was a member of Lambda Chi Alpha fraternity.

Gary Linden Brown

AE 66, MS AE 66, of St. Petersburg, Fla., on Aug. 15. He worked for the past 34 years as a senior

Tech Rhodes Scholar Dies

Professor Emeritus of Civil Engineering and former president of the school, Harold Frederick "Hal" Newton, died Sept. 30 in a motorcycle accident. He was 73, of Fayetteville, Ga., on Sept. 23.

Mr. Newton was a Rhodes Scholar in 1956. He and his wife have established a scholarship at the school.

1990s

Lauren Kathleen Brown. Bld 99, of Chapel Hill, N.C., on Aug. 21. She was a third-year student at the University of North Carolina at Chapel Hill School of Medicine pursuing a career in pediatrics. She volunteered with Soup Kitchens in Houston and St. Joseph's Hospital's Mercy Mobile Care, which serves Atlanta's homeless. Ms. Brown's survivors include her father, Ray R. Brown, IE 71.

Joel Trent Dailey. ME 94, of Loganville, Ga., on Aug. 23 in a motorcycle accident. He was the chief engineer of Lombardini USA Inc. An education fund has been established for his 1- and 4-year-old daughters.

Constance Reid. Heyward Skubic. Mgt 91, of Holden Beach, N.C., on Aug. 15. She resided in New York City for a number of years. In 1999, she and her husband moved to their beach residence in North Carolina.

Friends

Edgar Byron Bennett. 92, of Atlanta, on June 3. When he was forced to retire at age 65 as principal of Bass High School in Atlanta, Mr. Bennett took a job with Georgia Tech to develop a system and procure equipment for microfilming student records. Before retiring from Tech in 1999, he put millions of images on microfilm. Survivors include sons Edgar B. Bennett, Jr., ME 70, and James Bennett, ME 79.

Kevin Brennan, 46, of Atlanta, on Aug. 2 of pancreatic cancer. A professor in Georgia Tech's School of Electrical and Computer Engineering, he specialized in research to help develop microelectronic devices that were faster, smaller, cheaper and better. The applications of his semiconductor research affected cell phone technology, fiber optic communications, CD players and flat panel displays for computers. Mr. Brennan held several patents and had published three widely used textbooks, including "The Physics of Semiconductors with Applications to Optoelectronic Devices." Earlier this year Mr. Brennan was awarded Georgia Tech's Distinguished Professor Award.

Edward "Red" West. 91, of Atlanta, on Aug. 30. He retired after 24 years as the sports information director at Georgia Tech, where he was inducted into the Athletics Hall of Fame in 1976. Mr. West was the 1964 recipient of the College Sports Information Directors of America's Arch Ward Award for outstanding contributions to the field and was inducted into the organization's National Hall of Fame in 1989. An avid tennis player, Mr. West had been a doubles champion in state seniors competition.

Jerry Wilson, 61, of Perry, Ga., on Oct. 1. He was associate director of Georgia Tech's Advanced Technology Development Center. Mr. Wilson was heralded as a nurturer of businesses in middle Georgia. ATDC director Wayne Hodges said Mr. Wilson "gained the community support necessary to turn a vacant tract of land into a thriving community of software and electronics companies. The center he helped build attracts visitors from all over the world as a model of what small communities like Warner Robins can do."
Wiser, Faster
Jackets basketball team combines maturity, experience and talent

By Neil B. McGahee

Georgia Tech tips off its fourth season under head basketball coach Paul Hewitt with a feather in its cap. The Jackets were selected to play in the Preseason National Invitation Tournament. Tech will play at home against Louisiana-Lafayette Nov. 18 in the nationally televised game on ESPN.

“Experienced” is the word heard most often on the third floor of the Edge Athletic Center as 11 letter winners and four starters return. The Jackets posted a 16-15 record last year, fifth best in the ACC, and advanced to the quarterfinals of the postseason NIT.

Third-team All-ACC junior guard B.J. Elder and senior guard Marvin Lewis join second-year point guard Jarrett Jack and junior guard Will Bynum, who transferred from Arizona, to anchor a strong backcourt.

“We’re more talented on the perimeter this year than any team I’ve ever been around, including the teams at Villanova,” Hewitt said. “On the frontcourt, we have very good players. They’re just not proven yet. Guys like Luke Schenscher, Theodis Tarver, Robert Brooks and Tony McHenry cracked the starting lineup last year and they will play major minutes this season.”

Hewitt said his frontcourt players devoted the off-season to intense weight and agility programs to offset the loss of 6-10 forward Chris Bosh, who left for the NBA, and 6-8 forward Ed Nelson, who transferred.

“Tony McHenry is the guy that everybody around here feels is a play or two away from breaking out and showing what he can do,” Hewitt said. “He and Luke are, in my opinion, the two smartest players out there. When we get scouting reports, they both see things very well.”

The return of 6-5 forward Clarence Moore adds another dimension to the frontcourt. Before taking a personal leave of absence last season, Moore averaged almost 10 points and five rebounds per game.

“We had some things he needed to work through last year, but he remained very close to the program and the other players respect him an awful lot,” Hewitt said. “When Mo steps on the floor, he’s going to give you everything he’s got.”

Hewitt said the key to success this year is defensive rebounding.

“We have to understand this is a priority,” he said. “There were times last year on the road when I didn’t instill the importance of making those stops or getting those rebounds.”

The Jackets play two exhibition games on Nov. 6 and Nov. 10 at Alexander Memorial Coliseum and begin Preseason NIT play on Nov. 18.

Tech plays Ohio State on Dec. 3 in the ACC-Big Ten Challenge, a rematch of last year’s postseason NIT first round, which the Yellow Jackets won 72-58.

Other notable home games include St. John’s first-ever visit to Alexander Memorial Coliseum on Dec. 21 and Virginia Commonwealth on Dec. 29. The Yellow Jackets face St. Louis on Dec. 13 in the annual Chick-fil-A Peach Bowl Holiday Classic for Kids at Philips Arena.


Tech appears on national television 10 times during the course of the season, including three appearances on Fox Sports Net’s “ACC Sunday Night Hoops,” five games on ESPN and two on ESPN2. That number could increase to 12 should the Jackets reach the finals of the Preseason NIT.

The Jackets will make 13 additional appearances on regional television, including a Feb. 7 game at Tennessee (ABCC) and nine ACC contests on regional networks.
New Head Coach

Joseph takes charge, inherits ‘cupboard completely full’

By Neil B. McGahee

A single point guard at Purdue in the early 1990s, MaChelle Joseph was the Boilermakers’ on-floor coach. Fast-forward a decade and she’s back at the helm again.

Joseph, Georgia Tech’s top assistant coach under Agnus Berenato, was named head women’s basketball coach last spring after Berenato resigned.

“I love it,” Joseph said. “I was a point guard my whole career, so I’m used to running things. It’s all on my shoulders now. It’s an exciting chal-

lenge. Of course, that might be different after my first loss.”

Joseph said the transition was smoother than she could have ever imagined.

“Agnas left the cupboard completely full,” Joseph said. “We have 13 players returning who went to the NCAA Tournament, including five sen-

sions. She also allowed me to do the X’s and O’s every day for the last two years in practice and game situations, so I already know the system. Some other first-year coaches have had to relocate and learn about the school and the players, but I have the advantage of knowing these players for two years. I recruited most of them.”

Joseph said she would concentrate on defense.

“We have to play better defense this year,” she said. “We started playing some really good offensive basketball toward the end of last year. We were third in the ACC in scoring and led the league in 3-point field goal percentage, but our defense hurt us.

“We’re also a very good rebound-

ing team. We were in the top three in every rebounding category in the league last year.”

The now-departed Sonja Mallory, the 6-5 center who dominated the lane by sheer size and strength, led the rebounding game.

“We pounded the ball inside with Sonja in the paint,” Joseph said. “We will play a much more up-tempo kind of game this year — take more shots and hopefully score more points. We will play with four guards and one player inside and open the lane up for penetration.”

That inside player is center Fallon Stokes, a 5-10 junior who is as effective working the ball inside as shooting from the perimeter. In the final games leading up to the NCAA Tournament invitation, she averaged 20 points and seven rebounds per game.

“Fallon Stokes is one of the pre-

mier players in the league,” Joseph said. “I challenged her this year to step up and become an elite player, offen-

sively and defensively.”

Joseph said she is counting on her three fifth-year seniors — Alex Stewart, Nina Barlin and Megan Isom — to pro-

vide leadership as well.

Stokes, Stewart and Isom earned third-team All-ACC honors last year. Stokes was runner-up to Mallory in scoring and rebounding, while Stewart led the conference in assists and free throw percentage.

Senior Nina Barlin and red shirt freshman April Johnson return after knee injuries curtailed their playing time last year. Tech also has a pair of promising freshmen in guard Stephanie Higgins and forward Kentrina Wilson.

Joseph has set three goals for this season — a first-ever winning record in the ACC, back-to-back bids to the NCAA Tournament for the first time and a top 25 ranking.

“These are my goal for these sen-

iors because they paid their dues in this program and I’d like to see them rewarded,” she said.

The Jackets open the season at Florida Atlantic, then head to the Paradise Jam Tournament in the U.S. Virgin Islands Nov. 27 through 29.

The Jackets also face six teams that played in last year’s NCAA Tournament and another that reached the Women’s National Invitation Tournament.

Six Standout Athletes Inducted into Georgia Tech Hall of Fame

Olympic gold medalist Derrick Adkins, four-time All-

America golfer David Duval, All-ACC quarterback Shawn Jones, All-America kicker Scott Sisson, six-time track All-American Nelahre Pasha-Al and 1982 football team captain David Lutz were inducted into the Georgia Tech Athletic Hall of Fame on Nov. 14.

Adkins, ME 93, won a gold medal in the 400-meter hurdles at the 1996 Olympic Games in Atlanta and was world champion in 1991 and 1993. He was a member of Tech’s national champion 4x400 relay team in 1992 and 1993 and was a seven-time All-American.

Duval, Cis 90, won all three National Player of the Year awards as a senior in 1993 and was only the third collegiate golfer to be named a first-team All-American four times. He was named ACC Player of the Year in 1992 and 1993, All-ACC four times and won the ACC individual championship in both 1991 and 1993. He has gone on to a successful career in the PGA Tour with 13 victories, including the 2001 British Open.

Jones was a second-team All-ACC choice in 1990 and 1991 and conference Rookie of the Year in 1989. He finished his career as the ACC and Tech career leader in total offense. He still holds the Tech career record for most passes completed (652) and attempted (1,217). A team captain in 1992, Jones is one of only three Tech seniors to put up 2,000 yards passing during their collegiate careers.

Sisson, Mgt 96, earned All-America and All-ACC first-team honors in 1992. He finished his career as all-

time leader in points, field goals and PAs. His game-win-

ning field goal at Virginia in 1990 helped Tech win the UPI national championship.

Lutz was Tech’s team captain in 1981 and 1982, a four-year starter on the offensive line and was named to the All-South team by Southern Living magazine. He played 13 years in the NFL for Kansas City and Detroit.
Minnesota and Michigan vie annually for one-year ownership of the Little Brown Jug, a 100-year-old crock, Purdue and Indiana play for the Old Oaken Bucket and Georgia Tech and Vanderbilt battle for the Cowbell?

You may have never heard of it, but the cowbell tradition goes back 79 years.

Times were tough in 1924 and Ed Cavaleri Sr. had to make a choice. An avid Georgia Tech fan, the Atlanta and West Point Railroad conductor could only afford to attend one football game a year. In those days, Vanderbilt was a powerhouse in the Southern Conference and the Tech-Vandy game was always a memorable one.

"On his way to the first game in 1924, Dad stopped at a hardware store and bought a cowbell," Ed Cavaleri Jr. said. "After the game, someone suggested he give it to the winner of the game."

For the next 43 years, until the schools ceased play in 1967, Cavaleri Sr. and the bell made the annual trip to either Grant Field or Dudley Field in Nashville to watch the Jackets play the Commodores.

The bell was originally painted Tech’s white and gold on one side and Vanderbilt’s black and gold on the other and the score was painted on the sides of the bell. In 1949, for the 25th-anniversary game, Cavaleri Sr. had it silver plated with a bronze plaque on each side where the winner and the score was engraved.

The trophy only missed one game.

"The one game missed was the 1936 game," Cavaleri Jr. said. "Dad was leaving Grant Field after the 1935 game, won by Vandy, when two Tech students knocked him down and wrestled the bell away from him."

It seemed the bell was gone forever. Cavaleri Sr. posted a notice on the bulletin board of the YMCA, now the offices of the Georgia Tech Alumni Association, asking if anyone knew where the bell was.

"A few hours later, someone called Dad and told him the bell was in Sylva, North Carolina," Cavaleri Jr. said. "Dad made some frantic calls and the bell mysteriously arrived in Atlanta on a bus minutes before kickoff of the 1937 game. We never have found out who took it or why."

Tech left the Southeastern Conference in 1964 and the final game with Vanderbilt was played in 1967.

The old cowbell was forgotten.

"About five years ago, I began to wonder what happened to that old bell," Cavaleri Jr. said. "I looked around Tech’s athletics department and found nothing there. I finally found it in the back of a trophy case in the student center. It was tarnished so bad I almost didn’t recognize it."

Georgia Tech athletics officials told Cavaleri Jr. that the two teams would probably never play again, so he took the bell back home to Augusta, Ga. The series was renewed in 2002 and on Oct. 4 of this year, Tech and Vandy met for the 36th time. A few weeks later, the old bell was assigned a place in the athletics museum at the Edge Athletic Center, freshly engraved with Tech’s 24-17 win over the Commodores.

"It’s very gratifying to see Dad’s old bell back where it belongs," Cavaleri Jr. said.
Women in business need to treat other businesswomen more like their best friends than their worst enemies, said Gail Evans, former CNN executive and best-selling author.

Evans, a visiting professor in Georgia Tech's College of Management, spoke in October at the first Georgia Tech Women on Wednesdays event.

"The single most important thing women need to do is stop talking about each other. We need to just shut up about each other," said Evans.

The impact of one woman's word about another carries 10 times the weight of the same comment by a man, Evans said. "Guys love it when we get into it with each other and they use it.

"We need to take care of ourselves and we need to help each other. Women have brains and talent, but we have a hard time presenting ourselves. There are always things we don't know and we don't notice about ourselves and we need to contribute to each other by telling each other about them."

Another important thing women in business need to learn is the whole premise of "She Wins, You Win," said Evans, author of "Play Like A Man Win Like A Woman: What Men Know About Success and Women Need to Learn" and "She Wins, You Win: The Most Important Rule Every Businesswoman Needs to Know."

"We have yet to come to the understanding that we are all on the same team. Guys understand that they are on the same team and they play as a team, but over and over what I hear from women is, 'Other women make it harder for me,' or, 'My woman boss makes it harder for me,'" she said.

I also hear from the other side that, once a woman gets promoted, all of the friends she had are no longer her friends. The women who weren't promoted seem to think that the woman who was promoted is now 'one of them,' but that is the moment the woman needs the most support from her friends.

After leaving college in 1963, Evans began a successful career in politics before she married and followed her husband's career to Atlanta and the Soviet Union. When the couple returned to Georgia with their three children, Evans began doing freelance research and public relations for international corporations.

Evans joined CNN when it began operations in 1980 and worked her way up to executive vice president of domestic networks for the news group.

After her first book's success — it stayed on the New York Times, Business Week and Wall Street Journal bestseller lists for several months — she retired in 2001 to devote herself to speaking engagements because "it was more fun empowering other women than worrying about international news."

The incredible amount of feedback she received from women led to the second book.

"I hear so many women talking about how frustrated they are. When I wrote my book, I thought I was writing it for U.S. businesswomen in their 30s, 40s and 50s, but the book was on the bestseller list in Korea, Brazil and the Netherlands at the same time it was on the bestseller list here," she said. "The things women are struggling with here are exactly the same things women are struggling with in every society."

More than an overall guiding principle, there are many "little strategies" women need to learn that come instinctively to men, Evans said.

"You have to look at how little boys play games. They play to win and they win because the game is based on their rules," she said. "You have to learn to toot your own horn. Boys learn how to do these things based on their rules," she said. "You have to learn to direct eye contact with the power."

There are many "unwritten rules" in the business game that women don't understand because when they were made up, women weren't in the game. In the past, women have tried to follow that unwritten code by emulating men.

"In the 1980s we were all supposed to be running around in these blue suits with pinstripes and floppy little neckties trying to be junior men. That's just ridiculous," Evans said. "What we need to be is smarter women. We need to learn to be the comfortable being women and knowing we are different and being OK with that. We need to be more authentically ourselves. We need to know the game so we can choose not to play it." Evans said.

Women recognize that there are inequalities between the number of men and the number of women in power in the corporate world and in the rate of compensation for men versus women, but Evans said "things will change when women in the United States decide they want a change."

"We are the ones you will choose that person and things will shift when we want them to. This is about 'us versus us' and we need to change that and make it 'us for us.' None of this is about 'us versus them,'" she said. "We as women haven't played it together well enough to learn what we can accomplish together. We need to realize that for every woman who succeeds, I succeed a little and for every one who fails, I fail a little. We are viewed as a group and we need to play as a group."

Women can help one another through mentoring, networking and supporting each other's businesses, Evans said.

"Any woman who gets to any level is obligated to mentor another woman. It doesn't have to be a big formal, structured process. Just look at another young woman's career and help her move along."

The number of businesswomen who tell her they hate networking surprises Evans.

"Women are great at networking, but we need to drop the 'work is work' attitude that everything we do for work needs to be hard and not fun. Forget that. We network with anyone and everyone we've ever known in our lives. Men wish they could network like us."

"But we need to realize networking is not about handing out 50 business cards. We need to learn how to bring our personal networking tactics into our business lives. Women tend to think that you have a business life and a personal life and never the twain shall meet, but they are not separate. The lines intertwine and it's not a violation of anything to ask someone or use someone from your personal life to help you in business."

Gail Evans' Advice to Businesswomen

1. Don't sit in the periphery at meetings. If there's an underdesignated seat at the table, take it. You will be in direct eye contact with the power.

2. Don't speak in the conditional voice. "You may have thought of this, but ..." Evans said. "That is not communicating with power. Say, We should ..."

3. Don't take on duties without authority. "Your job has a description and if the bosses want you to do something else, let them ask. You are the only one who gets hurt by taking on those extra responsibilities."

4. Speak out. Men are promoted based on potential. Women are promoted based on historical performance. "A woman gets promoted most often after she's actually been doing the job for five years."

5. Women need to consider each other in business. "When you are getting ready to move business around, consider a woman. I'm not saying choose a woman just because she is a woman, but look to see if there is a woman available and put her on the list. Choose the best, but consider a woman and about 30 percent of the time you will choose that person."

6. Help women who need it. "The way boys play is that the one who is the best player is out there helping the one who is the worst player because guys are clear on the fact that the team is only as good as its weakest player. Women don't work on making the weakest person on the team better. We want to get rid of them."

Women need to realize that for every woman who succeeds, another woman succeeds a little and for every one who fails, a woman fails a little. We are viewed as a group and we need to play as a group."