This man just wrote a check for $50 million.

Why’s he so happy?
“Support from alumni is critical.”

— Ashlee T. Cribb, ChE 1987, and Richard M. Cribb, EE 1987

The year 2012 marks a genuine milestone for Ashlee Townsend Cribb, ChE 1987, and Richard “Ric” Cribb, EE 1987. This year, they will celebrate their 25th wedding anniversary and their 25th class reunion at Tech.

The Cribbs, both natives of Georgia, were the first in their families to attend Georgia Tech. Both were actively involved in campus life, graduated with honors, and developed a deep, lifelong connection to their alma mater—a connection that would ultimately inspire them to include Tech in their estate plans.

After graduation, they moved to St. Louis where they initially worked as engineers and later earned MBA degrees at Washington University. In 1997, the couple returned to Atlanta to pursue sales and marketing leadership opportunities and raise their family. Today, Ashlee is the business manager for wood adhesives at Georgia-Pacific Chemicals, and Ric serves as the vice president of Control Southern’s Specialties Division. In their free time, they enjoy golfing, running, and spending time with their two children, Laura and Matthew, ME 2015.

In commemoration of their 25th reunion, the Cribbs volunteered to serve on the Class of 1987 Reunion Committee. They were pleased to learn their estate arrangements for the Georgia Tech Foundation, establishing an endowment for the unrestricted support of the Institute and supporting the Class of 1987 Need-Based Scholarship Fund, would count toward the class fundraising goals. Incorporating Georgia Tech into their estate plans was the “natural” choice, because it allowed them to meet their philanthropic goals while offsetting future taxes.

In their words, “Giving back to Georgia Tech means we can support exceptional engineering education to develop future technology and business leaders. Support from alumni is critical to enable a public institution to obtain the resources and faculty to compete with private institutions.” Together, Ashlee and Ric Cribb are doing their part to build a brighter future for Georgia Tech.
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Actual discount per therm dependent upon price plan selected by customer. Cannot be combined with any other offer.

You Save. We Give.
Ernest Scheller Jr. talks about the traits he learned at Tech that helped him build a business and transform his alma mater.

With strong headwinds buffeting the world of higher education, what lies in store for Georgia Tech?

Alumni, band members, the Reck driver and even a member of the Yellow Jackets put their own spin on game-day traditions.
AROUND CAMPUS 010
012 Talk of Tech Take a look inside the McCamish Pavilion, aka Thrillerdome 2.0.
018 Student News
022 Innovate
024 Office Space The School of Applied Physiology is developing the orthoses and prostheses of the future.
027 10 Questions

ON THE FIELD 028
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030 Volleyball Vacation The Yellow Jackets ventured far away to bond as a team.

IN THE WORLD 032
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070 Mentor Jackets Alumni from around the world are needed to mentor Tech students.

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096 Artifact We celebrate the 85th anniversary of George P. Burdell’s enrollment at Tech.

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098 Ask George P. Has Tech’s man of mystery had a song written about him? So he says. Read on to see which one.

074 Wrecks at Work
076 Travel
The Heart of What We Do

No doubt you’ve noticed Ernest Scheller Jr., IM 52, on the cover. His story is of a 60-year relationship with his alma mater that resulted in a transformative gift for Tech.

On page 40, Scheller recounts how he began contributing to the Roll Call annual fund as soon as he was able. Even while living out of state and busy building Silberline Manufacturing Co. into an international business, Scheller stayed close to Tech through his commitment to Roll Call, by participating in events, serving on boards and reading the Alumni Magazine.

That’s the kind of relationship that the Alumni Association is focused on, and relationships are the heart of what we do. We want to forge stronger ties between you, fellow alumni and future alumni.

That relationship with Tech—and a dedication to supporting education—is what spurred Scheller to make a $50 million commitment that will allow the College of Management to become a world leader. We’ve subsequently renamed it the Ernest Scheller Jr. College of Business at Georgia Tech. Ernie and his wife, Roberta, are good, good people, and we hope you enjoy the article.

As you flip through the pages of this issue, you’ll see many opportunities to continue your relationship with Georgia Tech. On page 70, you’ll read about the Mentor Jackets program, which pairs students with alumni mentors. Even if you live far from Atlanta, you can be a mentor and make a lasting impression on a student’s life.

On page 75 you’ll read about some leaders of our Alumni Networks and Affinity Groups. These organizations bring Georgia Tech alumni together around the world. On page 76 you’ll read about the Alumni Travel program, now celebrating its 50th year. The program offers the opportunity to journey around the globe with fellow Ramblin’ Wrecks. On page 74 you’ll read about the career benefits of volunteering with projects such as TEAM Buzz and student recruiting.

And on page 66 you’ll read about all the fun activities we have planned for Homecoming weekend.

And on the page at right you’ll read about Roll Call. We’ve recently concluded the 65th Roll Call, and we’re so grateful for your generous support. As the 66th Roll Call begins, we wanted to take a moment to remind you that your gifts go to support the academic mission of the Institute.

To make a pledge, tear out the card on page 35 and mail it back to us, or make a gift online at gtalumni.org/giving. As thanks, you’ll receive all four annual issues of the Alumni Magazine.

We’re grateful that you care enough about Georgia Tech to keep “carrying the flag.” This institution did not get to where we are today without your robust, continuous and determined support. That, my friends, is a most powerful asset, and it has turned Georgia Tech into an economic powerhouse that benefits the state, our country and the world.

JOSEPH P. IRWIN, IM 80
PRESIDENT & CEO
GEORGIA TECH ALUMNI ASSOCIATION
Do you have a degree in a science, engineering, or technology field? Have you considered teaching middle or high school? With the nationwide shortage of science teachers, prospective teachers with STEM undergraduate degrees are in very high demand.

Kennesaw State University, in partnership with the Georgia Institute of Technology and through an award from the National Science Foundation, has created the I-IMPACT Noyce II program designed to recruit talented STEM professionals into physics and chemistry teaching careers.

Selected applicants will receive annual $10,000 stipends during the five year program, totaling $50,000 per participant. Additional funds are available for graduate tuition, professional development activities, memberships in professional organizations, travel, and supplies for classroom activities.

For more information, email iimpact@kennesaw.edu, and to apply, complete the online application at www.GANoyceScholars.org.
Give Them an Inch
I found your article about revitalizing American manufacturing [“Industrial Evolution,” Vol. 88, No. 2] quite ironic. The single biggest boost (and financial savings) to all American industrial complexes would be to get rid of the antiquated American measuring system—inches, pounds, gallons, etc.—and adopt the Metric standard followed by the rest of the world. Building two sets of tools for every piece of equipment sold in the USA is a waste of our time and money.

The heritage of this mistake seems to date back to the American victory of World War I. Being the industrial juggernaut of the world, we must have thought that the rest of the world would follow our lead by dropping their Metric and adopting our measurement system.

Engineering 101 has taught the benefits of standardization. It’s time to acknowledge our mistake and convert to the world’s standard.

Clint Bolte, IE 67
Chambersburg, Pa.

Keep_S_ealing_he_!
Who bans a tradition? [“_S_op_S_ealing_ _he_!,” Vol. 88, No. 1] I have never heard of anything sillier.

John Kotanides Jr., ME 83
Canton, Ohio

V-12 Program Was a Blessing
The Navy V-12 program is mentioned in the article about Dade Moeller [In Memoriam, Vol. 88, No. 1]. I applied in Little Rock, coming from my home in Magnolia, Ark., where I was physically examined and approved. I waited with apprehension until I was finally advised that I would be going to my much-longed-for school: Georgia Tech.

I’m sure that no one in the program was more blessed than I was. I am convinced it was the essential ingredient for the adult life that I have. I thank God for it.

Billy Wallace, EE 46
Stillwater, Okla.

Cut Out the Bling and Sizzle
Regarding the new Alumni Magazine format: I may be late to the party but I, like Mr. Roane [Feedback, Vol. 88, No. 2], am now “struggling through it.” Although one writer called it “fresh, hip and current,” to me it looks like a fashion magazine rather than the product of a serious educational institute. The small print and cluttered pages may appeal to the younger alumni, but they do tend to weed out the older alumni with eyes that are not so young.

Larger print would be appreciated. And just because your publishing software has “bling” and “sizzle” buttons doesn’t mean you have to use them. Despite the above I do, however, appreciate the magazine and those who labor to bring Georgia Tech into our homes.

Philip Holberton, EE 67
Pawleys Island, S.C.

Photos Bring Fond Memories
I remember Taco well from the late 1970s [“Mike ‘Taco’ Lopez Lives on in Photos,” Vol. 88, No. 2]. Great guy, and it’s great to see some of his photography in the magazine. Although I was in a different fraternity, the photos bring back fond memories. Nobody loved Tech more than Taco.

Thomas P. (via gtalumnimag.com)
Atlanta

Singing a Different Tune
Parag Chordia [“Content Will Evolve,” Vol. 88, No. 2] cites stats on CDs sold vs. pirated and concludes pirating didn’t kill creativity. Still, I suspect if he makes big money at Smule but discovers that he would have made more if someone hadn’t diverted a chunk of his pay, he

Want to get in touch? Send letters to: Editor, Georgia Tech Alumni Magazine, 190 North Ave. NW, Atlanta, GA 30313, or editor@alumni.gatech.edu. Comment at gtalumnimag.com or at facebook.com/georgiatechalumni. View our Letters to the Editor policy at gtalumnimag.com/letters-policy.
What’s Going on Here?

Editor’s Note: In Vol. 88, No. 2, we printed a photo (below) discovered in our alumni archives and asked if any alumni recognized who the men were, where they were or what they were doing. Here are some of the responses that came in.

The uniform is clearly that of a Navy midshipman (white hat with blue border). We still wore the same hat when I was in Navy ROTC in the ’60s. The uniforms of the men standing appear to be naval officers and chief petty officers. Assuming these are Tech students, this is likely a training event for the Tech Navy ROTC, or similar Navy officer training program, perhaps on the order of 70 to 80 years ago.

The men are Naval ROTC cadets from Tech, practicing boat handling skills in Piedmont Park’s Lake Clara Meer. Round up a copy of 1985’s Images and Memories and you will see a similar picture on page 140, describing the “Piedmont Park Navy” and crediting the Sixth Naval District as having donated the whaleboats. The NROTC unit started in 1926, so you can date the picture to that era.

The uniform is clearly that of a Navy midshipman (white hat with blue border). We still wore the same hat when I was in Navy ROTC in the ’60s. The uniforms of the men standing appear to be naval officers and chief petty officers. Assuming these are Tech students, this is likely a training event for the Tech Navy ROTC, or similar Navy officer training program, perhaps on the order of 70 to 80 years ago.

Nautically speaking, the oar position is in response to the coxswain’s order, “Toss oars.” A coxswain (man in the dark uniform) is usually a junior officer commanding a small boat and group of enlisted men but can also be a senior enlisted man.

Note the oar blades are turned to reduce wind resistance and positioned to be out of the way so the boat can be landed closely next to other boats. The boat is still coasting, so the coxswain can still steer the boat (the rudder is still effective).

Frank Bailey, EE 84
Rockville, Md.

That, I think, is one of the lakes at Piedmont Park with a service building in the background. There is a concrete wall at that end of the lake where I used to go fishing as a boy. On the right hand are concrete frames that hold up swings. Behind them is a street that enters from Piedmont Avenue near 12th Street and the old American Legion Post 1 building. Behind those benches and across the street are (or were) two softball fields.

Bill Savell, IM 57
Atlanta

Editor’s Note: Unfortunately, we no longer have the staff resources to find and verify all of those details. We kept as much information as we could and will try to add more in the future.

The Other Georgia Tech

Regarding Ken Best’s letter about the other Georgia Tech [Feedback, Vol. 88, No. 2], in the 1960s and probably on into the ’70s, our Georgia Tech sent a group of students to Eastern Europe and the then Soviet Union each year. In the summer of 1967, the group of which I was a member briefly visited Georgia Technological University in Tbilisi, Georgia. I remember their computer center contained a mainframe computer consisting of rack upon rack of vacuum tubes. Of course, we were still using slide rules then ourselves.

Jack Derrick, IM 69
Wake Forest, N.C.

Corrections

In “Here Comes the Sun,” about Tech professor Ajeet Rohatgi and his company Suniva (Vol. 88, No. 2), we inaccurately reported the number of Suniva employees. It has a staff of almost 200. Tech alum and Suniva employee Vijay Yelundur’s name was misspelled. We regret the errors.
Thrillerdome 2.0 Nears Completion

Van Jensen

You can forgive Paul Griffin a sports metaphor when he describes the construction of Hank McCamish Pavilion, the new home for the Yellow Jackets basketball squads, as coming “down the stretch.”

Griffin, Tech’s senior associate director of athletics, has overseen the project since its May 2011 groundbreaking. The new arena is being built on the site of the Alexander Memorial Coliseum and utilizes some of the previous building’s structure, but Griffin was quick to point out that the project isn’t a renovation.

“‘It will have the appearance of a completely new building,” he said. “There are very few structural ingredients aside from the iconic dome that remain. The first impression people will have is how new and complete the rebuild is.”

In place of the old Thrillerdome is a new arena that has a bigger feel and yet offers a more up-close and personal game-watching experience.

A new grand entrance is being installed at 10th and Fowler streets, where most fans will enter into a broad concourse that affords a court view almost all the way around.

The seating area, meanwhile, is slightly smaller, about 8,600 seats. And those seats are closer to the court than in the Alexander Memorial Coliseum. Griffin said the most remote seat in the pavilion will be about 40 feet closer to mid-court than the most remote seat in the old arena.

“It’s tighter, more intimate,” he said. “All of our games are televised, so you have to make the experience unique. Make it so people want to come down to watch the game. I’m confident we’ll be accomplishing that.”

Another home court advantage will be the student section. Director of athletics Dan Radakovich dedicated an entire lower section opposite the teams’ benches to student fans. That means students will be right next to the action, in full view of the camera for every event that’s on TV.

“That’s pretty prime real estate,” Griffin said. “It’s providing students a great opportunity to contribute to the color of the event.”

The McCamish Pavilion, which was funded in part through a $15 million gift from Hank McCamish, IM 50, also will boast a state-of-the-art video board above the court, a ring of LED screens around the upper deck and a new sound system.

Griffin said the lighting in the arena will be similar to the systems in Madison Square Garden and the Staples Center.

A seat-selection process for returning season ticket holders began in June, and single game tickets, if available, will be available at ramblinwreck.com/tickets. The pavilion will be completed by Oct. 1 and will host some small events that month. But the first big event will be opening weekend for the Yellow Jackets. The men play Tulane on Nov. 9, and the women take on Tennessee on Nov. 11.

Does Griffin have his seat picked out?

“I actually do,” he said. “I snuck in and said, ‘That’s mine. Take it off the manifest.’”
OF COURSE: KABOOM

(EE/ME 6766: Combustion)

Instructor: Jerry M. Seitzman, associate professor, School of Aerospace Engineering

Syllabus says: “Introductory chemical kinetics, detonations and deflagrations, laminar flame propagation in premixed gases, ignition and quenching, laminar diffusion flames and droplet burning, turbulent reacting flows.”

Required reading: Stephen Turns’ An Introduction to Combustion: Concepts and Applications

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Buses in a Bunch, No More

Getting to class on time can be a challenge for Tech students, and it’s not always because of all-nighters or faulty alarm clocks. Many students who have tried to take campus transportation to class know that the Stinger Shuttles and Tech Trolleys often have as much trouble sticking to their schedule as overworked undergrads. Luckily, a team of Tech researchers and students has developed a possible solution.

Starting out, this much was clear to the researchers: Bus services are most effective when times between successive arrivals at each stop are equal. Variability in traffic and the number of passengers inevitably lead to longer wait times and several buses showing up almost at the same time.

To combat this pesky phenomenon—known as “bus bunching”—John Bartholdi, director of global research with Tech’s Supply Chain and Logistics Institute; Don Eisenstein, MS IE 83, PhD IE 92; and Russell Clark, a researcher in the College of Computing, developed an equation to detect gaps and automatically equalize them.

This requires buses to abandon fixed schedules and have drivers follow the flow of traffic. Nadia Viljoen, MS IE 11, and a group of more than 15 students worked with Tech’s Department of Parking and Transportation to implement the system on campus.

They used Android tablets to alert drivers to how long to wait and when to proceed when they reach certain “control points” along a bus route.

The system went through a live trial in the spring semester with the trolleys on Tech’s main campus route, which has more than 5,000 riders a day. The team received positive results and promising reviews from both drivers and passengers. The team believes the system can also be adapted for subway trains or airport shuttles.

Now, if only researchers could solve the next-biggest problem for bus-riding students: finding a seat.

---

83 percent of cracks in paved roads detected by a prototype automatic pavement crack-sealing device developed by GTRI. 250 stem cells that were placed in a 200-micron thick bead by a Tech-based startup company. The bead would be used to deliver stem cells to a patient.
All Mapped Out

It’s a seemingly simple scenario that has stumped great mathematicians for almost a century: Given a list of points on a map, what is the best way to determine the shortest possible route a traveler could take to visit each city on the list and make it back to the point of origin or another location?

This great puzzle is nicknamed “the traveling salesman problem,” but it could also be the “harried Tech undergrad problem.” What student hasn’t been faced with a laundry list of stuff to do and people to see on campus, and a limited amount of time to get everything done?

William Cook, Chandler Family Professor in the School of Industrial and Systems Engineering at Tech, dug deep into the maddening history of the problem in his book In Pursuit of the Traveling Salesman: Mathematics at the Limits of Computation, published in December by Princeton University Press.

To see his work in action, the Alumni Magazine drafted up a list of errands and tasked him with plotting out the optimal route.

Start: Morning class at the Couch building.
End: A well-earned nap in your North Avenue dorm.

Errands to run:
- Drop off a paper at your biology professor’s office in Cherry Emerson.
- Return a book to the library.
- Check your mailbox at the Student Center.
- Swim a few laps at the CRC.
- Swing by the Alumni House to join the Student Alumni Association.
- Grab an empanada and a popsicle at the Farmer’s Market on Tech Walkway.
- Pick up a new Tech sweatshirt and a coffee at the Tech Square Barnes & Noble.
- Check out a friend’s photography on display at the Clough Commons gallery.
- Study on the Tech Tower lawn for tomorrow’s big exam.

Need to plan a route of your own? There’s an app for that. Concorde TSP, based on code developed by Cook and a team of fellow mathematicians, is available for free for iPhone and iPad.
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The Article *They Don’t Want You to Read*  

**Van Jensen**

The moon landing was faked. A second gunman fired from the grassy knoll. A shadowy organization secretly controls the world.

These and other conspiracy theories have become entrenched as pop-culture fodder and, for a certain subset of the population, as undeniable fact. But for Robert Blaskiewicz, a Brittain post-doctoral fellow in Tech’s School of Literature, Communication and Culture, conspiracy theories are all in a day’s work.

Blaskiewicz was working on his doctoral dissertation on the writings of World War II combat veterans when he began looking into the reliability, or lack thereof, of the men’s memories. That led him to research on false memory syndrome and the “Satanic Panic” of the 1980s.

“The story that emerged in the press was that satanic cults were sacrificing babies at an alarming rate,” Blaskiewicz said. “This vast satanic conspiracy was completely without basis, but many people were terrified.”

His subsequent research delved into the various mental shortcuts the human brain has developed that, as a side effect, allow people to believe in things that aren’t true.

In classes like Science and Pseudoscience and American Conspiracy Theories, Blaskiewicz turns the theories into a challenge to students: Every supposed fact must be checked and verified or debunked.

“I try to take the sensationalism that makes these stories so attractive and memorable and put it into the service of critical thinking,” he said.

Blaskiewicz also writes about conspiracies for the website *skepticalhumanities.com*, which has earned the attention and ire of some conspiracy theorists.

“I’m genuinely interested in the stories and the people who believe them,” Blaskiewicz said. “But I have never talked to someone who was really ideologically committed out of a belief in a conspiracy theory, so I don’t try. I’d much rather … show students how to recognize weak arguments.”

Why have these complex but ultimately rickety theories continued to be so popular? Blaskiewicz attributes it to the fact that they’re exciting, they’re easy to spread and they offer convenient explanations to political issues. “There are always scapegoats to blame and demonize, evils to fight. And the person who claims to oppose them is always on the side of the angels,” he said.

Blaskiewicz also leads the Atlanta chapter of the Independent Investigations Group, an organization that explores the “paranormal and extraordinary.” The group has a standing offer of $50,000 to anyone who can provide hard evidence proving the existence of the paranormal, occult or supernatural. The prize remains unclaimed.
“After only a few months in the program, the knowledge I am gaining allows me to see new projects and opportunities from a business - not just technical - point of view. Seeing the business from different angles is helping me make more informed decisions.”

Jonathan Griffith
Executive MBA in Management of Technology, 2013 Candidate

Principle Design Engineer, ANADIGICS, Inc.
MS, Electrical Engineering, Georgia Tech, 2000
BS, Electrical Engineering, Georgia Tech, 1999

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Grand Challenges Goes Big
New initiative emphasizes interdisciplinary collaboration

Rachael Maddux

Georgia Tech is no stranger to initiatives that bridge the academic and residential aspects of college life. The ThinkBig program, for one, offers like-minded undergrads the chance to live together on one floor of a residence hall and delve into shared interests under the informal guidance of Tech professors. But the Grand Challenges Living Learning Community will take this concept even further when it debuts at the beginning of the 2012-13 academic year, encouraging its students to become leaders in tackling the most pressing issues facing the world today.
The 110 inaugural participants are incoming freshman eyeing a variety of majors, and for Grand Challenges faculty director Robert Butera, EE S1, a professor jointly appointed in the School of Electrical and Computer Engineering and the Wallace H. Coulter Department of Biomedical Engineering, that interdisciplinary component is key.

“The world is full of examples of superior technology that never gets traction with the general public because it doesn’t meet needs or it’s not marketed correctly,” he says. “We really need people thinking about the big problems from every different direction.”

Butera is spearheading the program with Wes Wynens, director of the Leadership Education and Development Programs for Student Affairs and an adjunct professor in Tech’s School of Public Policy. Michael Macmillan, AE 11, served as assistant director during the early planning stages.

Grand Challenges students will occupy Howell Residence Hall on East Campus, determining their own community structure and governance policies. Collaboration will be the main focus of both residential life and the program’s two required courses.

In the fall, Wynens will helm a class as peer leaders for the annual Liam Rattray Memorial Service Project at the Truly Living Well Center for Memorial Service Project. The participants were all hand-picked from upwards of 2,500 accepted students. “A lot of people who don’t necessarily look good on paper are really successful here at Tech,” Macmillan says. “So even if they didn’t have a great score on their SAT or on their leadership involvement, there was still a really good chance that the activities that they did in high school matched up perfectly with the goals of the program.”

Before the Grand Challenges first-years had flipped the tassels of their high school graduation caps, many of them were already working to shape their new community at Tech, making introductions and hatching plans on the program’s Facebook page. By early summer, they were organizing group outings and a lending library.

The future classmates also sent Macmillan off in search of a piano—many of the incoming students play, or would like to learn. He found one, though he hasn’t quite figured out where they’re going to put it. That’s one of many questions the program will face during its first year—one of its own “grand challenges.” Another: What will the second year look like? Once a new freshman class is recruited, what of their predecessors’ legacy will prove useful, and what will be chucked?

Butera and Wynens hope to recruit some members of this year’s inaugural class as peer leaders for the 2013-14 group, but other than that, they’re not sure. And that’s almost the whole point. It’s the students who will shape the Grand Challenges program, make it great and propel it onward. It’s all in their hands—much like the future of the world itself. ▲
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A few of the most exciting recent breakthroughs from faculty, students and alumni.

- The BASELINE
  - 31 million dollars from the Department of Energy to Tech for research into new nuclear reactor designs.
  - 6 degrees of freedom in a robotic arm developed by GTRI that uses 3-D imaging to automatically debone poultry and reduce bone fragments.

INFOSPOT

What is it? An app that overlays augmented reality visuals onto an iPad screen, mapping out the schematics and systems inside a building.

Who made it? Javier Irizarry, an assistant professor in the School of Building Construction, and PhD student Masoud Gheisari.

What inspired it? Facility managers and construction workers can only access detailed information about a building and its systems from a fixed location such as a desktop computer, or by using paper charts.

Why is it game changing? Instead of having to seek out a component of a building—say, a fuse box or wall stud—InfoSPOT’s augmented reality will direct users to precisely where they need to go and tell them exactly what they need to know. “It knows what you need,” Irizarry said.
SOLAR BEVERAGE CART

What is it? A kiosk that uses solar power to keep drinks either hot or chilled.

Who made it? Students on Tech’s Engineers for a Sustainable World chapter with a grant from solar energy firm SunEdison.

What inspired it? The team wanted to create something powered by renewable energy that could be used on Tech’s campus.

Why is it game changing? The design of the cart could be implemented for all sorts of mobile food and drink vending equipment (most are currently powered by gas engines or batteries). It also could help the 1.5 billion people worldwide who live without electricity.

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What is it? An app that allows visually impaired people to send text messages and type emails on touchscreen smartphones.

Who made it? Mario Romero, PhD CS 09, a post-doc research fellow in the School of Interactive Computing; distinguished professor Gregory Abowd; PhD students Brian Frey, Caleb Southern and James Clawson; and research assistants.

What inspired it? Visually impaired people typically need gear that costs thousands of dollars to type on their smartphones.

Why is it game changing?

The free app, which has been featured on CNN, allows users to tap at six buttons on the screen and speaks letters aloud after they’ve been registered. The app is also faster to use than a traditional QWERTY keyboard, meaning it could be popular among sighted people as well.

“IT may be a solution for everybody to get their eyes off their phone so they can walk and text or watch TV and make a comment on a blog,” Romero told CNN.

SOFT TEMPLATE INFILTRATION TECHNIQUE

What is it? A manufacturing process that forms piezoelectrically active nanostructures (tiny structures that can be controlled to perform functions) from lead zirconate titanate.

Who made it? Nazanin Bassiri-Gharb, an assistant professor in the School of Mechanical Engineering.

What inspired it? Before, researchers used thin films, which did not have nearly as high of a piezoelectric response, to develop nanostructures.

Why is it game changing? The process could enable fabrication of ferroelectric nanostructures with user-defined shapes, location and pattern variations. “These are truly smart materials, which means they respond to external stimuli such as applied electric fields, thermal fields or stress fields,” Bassiri-Gharb said.
Feet of Engineering

Georgia Tech’s School of Applied Physiology moved into its digs in the Engineering Center building in March 2011, but they’re already having to make some adjustments to the space—and it’s a good problem to have.

This fall, the master of science in prosthetics and orthotics program will welcome a class of 14, the largest in its history. (Last year’s class topped out at 10.) They’ll join professor Chris Hovorka, MSPO program co-director and coordinator of orthotics, and his team in researching, developing and manufacturing state-of-the-art prostheses (artificial limbs) and orthoses (external braces).

Hovorka and his team gave the Alumni Magazine a closer look inside their sprawling workspace, where they work closely with real patients to focus in on the relationship between human and wearable technology.
1. A visiting student models lower-limb orthoses developed in the P&O lab. Hovorka’s team can make custom-fit orthoses and are working with carbon fiber to develop super-light alternatives to plastic and foam devices. The brace on the right leg is a prototype of a system that could replace the bulky, easily-worn-out walking cast that anyone who’s suffered an injured foot knows all too well.

2. Lab supervisor Scott French fine-tunes an endoskeletal prosthesis. The P&O lab is expansive—parts of it resemble a tidy garage workshop mashed up with a sculptor’s studio.

3. Gary Pine, whose left leg from the knee down was removed in an elective amputation after a motorcycle accident, has served the program as a patient model for clinical treatments and research for eight years. “Gary plays a vital role to help us understand how a person interacts with the various technologies as he performs a variety of motor tasks,” like walking, jogging and sitting, Hovorka says. Pine’s prostheses—one each for the shower, mowing the lawn and driving—are all zebra-print. “It goes with everything,” he explains.
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Bette Finn, Librarian and Tech Stalwart

Bette Finn, Psy 78, doesn’t need to look hard to see her family’s legacy at Tech. The Van Leer building—designed in part by her father, the late David Finn, former professor in the School of Electrical and Computer Engineering—sits just across Tech Green from the library, where Finn has worked since the 1980s. Fittingly, Finn now is the ECE and GTRI subject librarian, tracking down hard-to-find resources for students.

What’s your fondest memory of campus? It was a lot of fun coming with Daddy. He would bring us over to do fun stuff. The most fun was going on the roof of the Van Leer building on the Fourth of July to watch fireworks. We probably weren’t supposed to do that.

When you were young, did you realize how important your father was on campus? I didn’t know until I went to school here and other professors would say things. He was as special to them as he was to me. He was a super kind, gentle person who went out of his way to help students.

Did you spend much time with him when you enrolled at Tech? He let me study in his office. I started out as an EE student. I did well until I came to circuits. I understood everything, but I took too long on exams. So I dropped out. He and I went through the courses, and we found psychology, which seemed really interesting.

Did you spend a lot of time in the library? Oh, I was scared of librarians! I never asked them a question. When I’d have to get a reference book, I’d wait till they all left and borrow it.

How did you become interested in being a librarian? I got to audit two library courses one summer. And I knew I always wanted to work here. Then I got a graduate internship in cataloging here. Being hired here was the thrill of my life.

What’s your favorite part of the job? Tech students are very special. They’re very grateful and very smart. I love my job. I always have.

Has it been strange having your children come to Tech as students? My son (Charles Warden, Biol 07) did not want to come. I don’t think he minded it as much after he came. My daughter (Elizabeth Warden, a sophomore) was the same, but now she never wants to leave. And I can help with their research, so I’m a handy person to have around.

What’s your favorite book? I don’t like to read books! I do like to read magazines. And I love to read and watch things about science.

Aside from not liking to read books, do you think you fit the stereotype of a librarian? Oh, I look like a librarian! And I’m interested in the same things most librarians are. But I probably don’t fit the stereotype real well. I do most of my work on the computer. ▲
Rush Stars at the Plate, on the Mound

The accomplishments Hope Rush has piled up in her first three seasons as a pitcher on Tech’s softball team are plenty impressive: 66 wins, 19 shutouts, 396 strikeouts, a 2.19 ERA. But she also has been one of the team’s top hitters, amassing 134 hits, 43 home runs and a .305 average.

Why did you come to Tech?
I came because I knew I would receive a great education and it was close to home, which I love.

What’s your favorite softball memory? It would probably have to be either winning the ACC my freshman and junior years or beating Oklahoma.

What hobbies do you have outside of softball? Hanging out with friends and family. And tanning.

Who’s the best opponent you’ve played? Oklahoma.

What’s your favorite movie? The Blind Side.

What are your plans after college? I really want to be somewhere coaching softball, wherever that might be.

POOLE TAKES HIS TALENTS TO ATLANTA

Stacey Poole saw enough promise in incoming Tech men’s basketball coach Brian Gregory last year that the sophomore guard opted to transfer away from the future national champion Kentucky Wildcats and play a prominent role in rebuilding the Yellow Jackets.

Why did you come to Tech? The program was rebuilding at the time I decided to transfer from Kentucky. I also had a better relationship with the coaches here than I did with the coaching staffs at the other programs that wanted me after I decided to transfer.

What’s your favorite basketball memory? In middle school I caught the ball off the rim (and scored) with 1.5 seconds left in the fourth quarter after my teammate missed his second free throw.

What hobbies do you have outside of basketball? I like to travel and experience new things.

Who’s the toughest player you’ve competed against? LeBron James.

What’s your favorite movie? Friday.

What are your plans after college? To play in the NBA.

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The Yellow Jackets ventured far away to grow together.

While navigating a handful of perils—fish heads, layovers, drooling flight-mates, knockoff designer purses, strange electrical outlets and a lack of Ranch dressing—the Tech volleyball team bonded over a 10-day summer excursion to Europe.

As an assistant volleyball coach at the University of Texas in 2004, Tonya Johnson organized a European trip for the players and coaches that combined training matches with sightseeing. She saw a close team become closer, and Texas went on to have a deep run in the NCAA tournament that season.

“It was one of the first things I wanted to do when I got here,” said Johnson, now Tech’s head volleyball coach.

After raising funds for the trip, the team took off in May (on the last day of finals, no less) for a tour through Croatia, Slovenia and Italy. Johnson slated an intense playing schedule—they practiced almost every day and scrimmaged against top European teams—but she also planned activities to bring the Yellow Jackets together.

Her players had to room with a different teammate each night, forcing them to break out of their established friendships.

“I wanted them to interact every day without the distraction of cell phones and boyfriends,” Johnson said. “The volleyball was just the icing on the cake. They got out of their comfort zones.”

Bailey Hunter, a senior, was pushed out of her comfort zone on the flight over. She shared a row with a man who fell asleep on her shoulder.

“After he was twitching and drooling, I finally had enough and woke him up,” she said. “I just couldn’t take it anymore.”

The team’s first destination was Split, Croatia, which was a homecoming for Ivona Kolak, a junior who grew up in Croatia.

“Watching Ivona’s family be reunited was a very emotional moment,” said Susan Carlson, a senior. “Getting to see her at home with her family and experiencing a traditional meal really opened my eyes to her culture and where she came from. The worst part was leaving and saying goodbye to her family. It made everyone start crying.”

While in Croatia, the team played against a Croatian professional team and the Split junior national team.

European teams play with a ball that is slightly smaller and heavier than those used in the United States, which makes for a tougher serve, Johnson said. One of the benefits of playing European teams was exposing her players to a slightly different style of play.

Hunter said at first she struggled serving with the different ball. And she wasn’t accustomed to silence across the net.

“[European players] don’t talk at all, which we aren’t used to,” she said. “Here, we’re coached to talk all the time. And they just had big girls who would hit the ball as hard as they can. Defense was not a focus.”

Monique Mead, a senior All-American, said the more experienced European teams used expert shot placement rather than overpowering athleticism.

“They just kill you with their shots,” Mead said. “It showed us that we needed to be developing different assets.”
While in Croatia, the players also became acquainted with the country’s culinary peculiarities. A fish served whole—headd included—almost broke Hunter of her resolve to try ever -thing she was served. The players also bemoaned the lack of Ranch dressing for salads, and once during the trip they snuck off to a McDonald’s.

Their next stop was in Slovenia, where in addition to volleyball they spent a day on a mountainside ropes course doing team-building exercises. Several players fearfully recalled a climb up a telephone pole that shook more violently the higher they climbed.

The tour continued into Italy, where the team visited Venice and Milan. While in Venice, Jen Percy, a junior, recalled stopping during a sprint to catch a train when she saw a street vendor selling Louis Vuitton purses.

Percy haggled with the vendor and came away with the purse for a measly eight Euros. It was only once she was on the train with her teammates that she took a closer look at the name on the bag: “Louvista.”

“Needless to say, I won ‘Biggest Tourist of the Day,’” Percy said.

While in Milan, the team played two matches against the Italian junior national team, made up of the country’s top players. The matches were close, though Tech eventually fell in both.

Despite the losses, Johnson said she was thrilled with the trip. “It was absolutely incredible, the experience of a lifetime,” she said. “We took advantage of every single minute.”

Hunter said she went into the trip skeptical about whether it would work in bringing the team closer together. But she came away with a new mindset.

“It’s a rare opportunity to get exposed to each other so much,” she said. “By our last game, it felt so easy [to play as a team].”

Mead summarized it simply: “It was a sense of chemistry developing.”

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Europe

TRIP ITINERARY

1 SPLIT, CROATIA
2 ISLAND OF BRAC, CROATIA
3 LOGAR VALLEY, SLOVENIA
4 PORDENONE, ITALY
5 VENICE, ITALY
6 VERONA, ITALY
7 MILAN, ITALY

Clockwise, from top: The team visits a castle along the Mediterranean coast, poses for a photo during team-building exercises in Slovenia, enjoys the view from a mountaintop in the Logar Valley and checks out the cityscape of Venice.
Are there any similarities between banking and zooing? A lot of people say, “Do you miss the business world?” and my response is, “No, I’m in it. I’m running a $15 million business.” It’s a business with a philanthropic mission, but it’s a business. You’ve got to run the business successfully to fund the mission. I find a lot of the skills very transferrable—certainly the financial analysis skills, which are what Tech taught me the best. I got straight on the management train and I was in finance. Those skills trained me to be a banker, which then trained me to lead an organization financially. Obviously there’s a lot more to it than the numbers, but that’s a key piece of it.

What have been your proudest accomplishments? I take an approach where we budget conservatively, and then if we have a really good year, a lot of it will flow to the bottom line—which is not a bad thing. I think one of the things that I have had to get people here comfortable with is that to make a profit or have a surplus is not a bad thing. It sounds bad for a zoo to be making a profit, but at the end of the day it is a business and it requires reinvestment. I’m on a mission to get us completely debt free. We have no long-term debt today and we only have some seasonal working-capital debt, where we have to borrow from the bank in the winter months. As much as I love banks, I don’t want to be dependent on them.

Tell me about the reptile house you’re hoping to build. We are in the midst of a $26 million capital campaign, the largest amount of which would go to building a new amphibian and reptile complex. [The current reptile house] is the oldest building the public visits. Fifty-plus years old, yet it houses one of our centers of excellence. We have one of the top collections in the country, half of which you don’t even see.
because the building is so bad. We have some of the top talent in the business and yet they’re working out of what I would literally describe as a dump. It’s bad. We hope to complete the fundraising for that facility and break ground this summer.

**What’s your fundraising pitch?** Philanthropy is a very personal endeavor, so you have to understand what the individual motivations are. Some people may care dearly about animals and animal welfare. Some people may look at the zoo as a civic asset and an economic development asset. Some people care very deeply about conservation, some about education. And the good news is, we have all of that. You’ve got to probe a little bit and ask the questions, just like any good salesperson would, then figure out how we fit. Sometimes it takes a long time—a large grant can take years to cultivate. You can’t just go into an individual’s house and make your introductions and then ask for 10 million dollars.

**What are your big hopes for the zoo?** If you think back on the zoo’s history, [in the 1980s] the zoo was neglected and became an embarrassment for the city. We were one of the worst zoos in America—the animals were dying and that came from neglect. The community came together in the mid ’80s and saved the zoo. What I don’t want to happen is people say, “Oh, it’s fixed now. We’re going to move on to other things,” and forget about us. We’re in 2012 now—that’s a long time from the mid-80s. The work that was done then is aging, so it needs tender loving care again. We’ve got to get people refocused on the zoo so we don’t get back to that same position. I don’t want another crisis.

**You have memories of visiting this zoo as a kid. Has that impacted your work here at all?** That didn’t impact me as much my daughter, who is now 10 and a half. Her favorite thing in the world is animals. I had cancer the year before I came here—that changes your mindset a bit. You realize that life’s fragile. My father-daughter relationship was not typical because I could not do a lot of things because of my physical limitations, even to this day. So the fact that she loves animals helps fill that void. I regularly apologize to her for not being a dad that can do stuff but she says, “It’s OK, Dad—you can take me to the zoo.”

**What is your favorite animal here?** It rotates. My first favorite animal was the red panda, which is a very cute animal that gets no attention. It’s kind of hidden in the zoo, kind of a destination. It was also my daughter’s favorite—she kind of brought me to it.

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**On September 18, 1912, a dozen students began a grand experiment at Georgia Tech. That experiment—the co-op program—has grown to become the nation’s largest voluntary program, helping thousands of alumni become leaders in their respective fields.**

In the 2012–2013 school year, Georgia Tech will celebrate the program’s 100th anniversary with special commemorative pieces and events:

- commemorative book and video (summer 2012)
- co-op centennial birthday bash on September 18, 2012, at 11:00 a.m.
- co-op alumni brunch and time capsule dedication (Homecoming 2012)
- campus memorial dedication (spring 2013)
- inaugural co-op Alumni Hall of Distinction induction (spring 2013)

In the summer of 2012, an ongoing campaign will be launched to secure endowment funds for the continued successful operation of the co-op program as part of Georgia Tech’s Capital Campaign.
Daniel Hooper’s iPad Text-editing App

Daniel Hooper’s iPad was bugging him. Sure, it looked snazzy and ran smoothly, but every time he tried to write using the tablet’s full-sized keyboard he grew frustrated. Despite having direct cursor control, highlighting and editing blocks of texts was a chore. So Hooper, CM 12, did something about it.

Hooper has always been a tinkerer. He was one of those kids who’d take everything apart just to see how it worked. “Sometimes I couldn’t get it back together so I would just make something new with it,” he said. He once built his own Battlebot robot that featured a 7-inch circular saw blade (“My parents are great,” he noted). Then, in seventh grade, he discovered programming. He was hooked.

So, last year when he grew annoyed with his iPad, Hooper saw an opportunity to get inside the tablet and make it better. In other words, he wrote an app for that.

Here’s how, starting with his design work:

1. Identify the problem. The cursor was difficult to move.
2. Study the problem in context. Cursor movement happens often, and it’s intermingled with typing.
3. Identify the source of the problem. The user has to move his or her hands away from the keyboard and wait for the tap and hold gesture to activate the selection mode.
4. Design a solution. Hooper wrote code to detect when the user performed a gesture over the keyboard surface. When a gesture is detected, the app takes control of the cursor and moves it accordingly.
5. Implement. Hooper designed the app to look like the iPad’s built-in mail app so other developers and users could imagine what it would be like to use the gestures on their own devices.

Hooper posted a video of himself using the text-editing app on YouTube, and the clip was soon picked up by sites like Gizmodo, Engadget, TechCrunch and Business Insider. Within four days, the video had 500,000 views.

Several other app developers have begun incorporating the design, Hooper said. “The response was unbelievable and went way beyond my expectations.”

He hasn’t had much time for hacking lately, though. He’s been too busy with his post-graduation job—working as a developer at Apple.

Have a Tech Hack of your own to share? Send details to Editor, Georgia Tech Alumni Magazine, 190 North Ave. N.W., Atlanta, GA 30313, or publications@gtalumni.org. Entries will be selected for publication in the magazine and at gtalumnimag.com.
DON’T MISS AN ISSUE!

The newly redesigned Georgia Tech Alumni Magazine hits mailboxes four times a year, bringing you the most exciting news from campus, inside access to Yellow Jackets athletics and updates from fellow alumni.

Our May issue (Vol. 88, No. 2) featured a photo essay on Tech’s most fascinating robots, a preview of Tech grads competing for the Summer Olympics, a profile of one of the world’s leading photovoltaic experts (of course he’s a Tech professor) and, as always, your questions answered by the one and only George P. Burdell.

But you might have missed the issue. Each year, two issues of the Alumni Magazine (the August and February issues) go to all of our Georgia Tech alumni. But the other two issues (May and November) go only to donors to Roll Call, Georgia Tech’s academic annual fund.

By giving to Roll Call, you contribute directly to student scholarships, faculty research and many more programs that have an immediate impact in making Georgia Tech even better than it already is. (For those who already give to Roll Call, thank you!) You also ensure that you receive all four print issues of the Alumni Magazine and don’t miss out on class notes, Tech history or any of the other great stories we have planned for the year. (As always, an online version of the magazine is available at gtalumnimag.com.)

Give to Roll Call so you don’t miss an issue. All you need to do is fill out the attached card and mail it back to us. You can also visit gtalumni.org/giving or use your smartphone to scan the QR code at right.

Thanks for reading, and Go Jackets!
Atlanta’s beginnings as a railroad hub give it the distinction of being the largest U.S. city without a major body of water nearby. In 1989, the Army Corps of Engineers made plans to divert water to Atlanta from more well-hydrated locales, which then touched off an ongoing legal battle between Georgia, Alabama and Florida over water rights.

To make things worse, in recent years the state has been in a seemingly endless cycle of droughts and floods. We asked two Tech experts for their thoughts on what should be done about Georgia’s water supply. Douglas R. Hooker, ME 78, MS TSP 85, is executive director of the Atlanta Regional Commission. Peter Madsen, MS CE 80, is a vice president at CH2M HILL and retired from the Army Corps of Engineers as a brigadier general.

Safeguard Long-term Water Supplies

Douglas R. Hooker, ME 78, MS TSP 85

Water rarely makes headlines unless drought or a ruling in the tri-state water litigation pushes it onto the front page. Nonetheless, ensuring long-term water supplies is a top priority for state and regional leaders throughout Georgia.

To plan for long-term water supply needs, Georgia adopted a comprehensive statewide water plan in 2008. This plan divides Georgia into 11 regions, each with its own plan to address water quantity and quality challenges, include forecasts of future water supply and wastewater treatment needs, and identify practices to ensure that future needs can be met.

Even before the adoption of the statewide plan, metro Atlanta had begun planning. Created in 2001, the Metropolitan North Georgia Water Planning District brings together 15 counties, 91 cities and 61 utilities to plan for and
For decades, Georgia, Alabama and Florida have been fighting over the waters of two major river systems: the Apalachicola-Chattahoochee-Flint (ACF) and the Alabama-Coosa-Tallapoosa (ACT) systems. These watersheds provide water supply, environmental protection, navigation and recreation.

Recent regional droughts have demonstrated the need for water-sharing agreements and regional system optimization to ensure all the critical needs are served. Political and legal forces have not been able to achieve those agreements. Only recently has the Corps of Engineers been able to revise the operating manuals for the river systems they manage.

We came close in 2003! In the midst of a major drought, the leadership of the three states, along with federal representation, met to hammer out an ACF and ACT agreement, only to be disappointed by ultimate failure. Since then, taxpayers have paid for an endless series of legal efforts with very little to show for the extreme costs.

The watersheds need the same thing that many other multi-state watersheds across the country already have: a commission or partnership to represent the state, federal and local interests. A commission becomes an advocacy body for the needs of the watershed, which reinforces regional cooperation, public support and education. A watershed commission is not a perfect solution, but it is the right solution today.

We need one other thing—another drought. Dramatic change seems to only come when water scarcity moves this issue to the top of the political agenda. Recent droughts seem more dramatic because of our increased reliance on existing water resources. When the next drought comes, will our leaders be ready to do something different? Or will we be left to watch the same ineffective political and legal battles begin anew?
The Leadership Circle is the cornerstone of Roll Call, Georgia Tech’s annual fund. By becoming a member of the Leadership Circle, you help ensure Tech’s prominence and adaptability in an ever-changing world.

Join one of our leadership giving clubs and enjoy benefits such as a limited edition tie or scarf and an invitation to the annual President’s Dinner.

A tradition of leadership has evolved at the Georgia Institute of Technology over many generations ... we hope you’ll join us.

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He sees his job as pushing the company out of its creative comfort zone. “Crocs is a very young but motivated company,” Kue says. “My vision and designs for the brand can exceed its ability to accept innovation beyond its current businesses. But as the company matures, the product line and innovation will set up Crocs to be a leader.” Kue’s first big project with the company was Crocs Golf, a line of golf shoes that premiered at the 2012 PGA Tour Merchandise Show, where it won the best new product award. Kue credits his time at Tech for helping him succeed in the world of shoe design. “The industrial design program really taught me how to think,” he said. “It gave me the tools to explore my creativity and to always be finding solutions.”

**An average day** It consists of strategic meetings for discussing future innovation for the brand, designing new innovative products, developing product for market and managing young, aspiring designers.

**Tools of the job** For creating conceptual ideas, I simply draw in a sketchbook or napkins to get out ideas. For refinement, I use a Wacom Cintiq tablet along with Alias Sketchbook Pro or Adobe Illustrator to illustrate and iterate the concepts. As the product refines, I will build concept models from foam, leather and textiles.

**Design inspiration** I find inspiration from traveling around the world and experiencing new cultures and products, or walking on a trail and just thinking of new solutions. Inspiration is everywhere. As many products as I’ve created, it’s still is amazing when you find new solutions for old problems.

**Know a Ramblin’ Wreck with a fascinating job?** Tell us all about it at publications@gtalumni.org.
Two traits instilled in Ernest Scheller Jr. as a Tech undergrad helped him overcome his father’s death, expand the family business and transform his alma mater.

interviewed by Joe Irwin, IM 80
photographs by Pier Nicola D’Amico
In June, it was announced that Ernest Scheller Jr., a 1952 Georgia Tech industrial management graduate, had made a commitment totaling $50 million to the Institute’s College of Management. Once fulfilled in December 2013, it will be the single largest cash gift made in Tech’s history.

It is transformational in both size and intent: Scheller has earmarked the funds not for a new building or renovations, but to be invested in people—in endowed chairs, professorships, undergraduate scholarships and graduate fellowships. Quite appropriately, the college has been renamed in his honor; it’s now the Ernest Scheller Jr. College of Business.

Scheller is chairman emeritus of Silberline Manufacturing Co., based in Tamaqua, Penn., which his father founded in 1945. It’s now one of the top global suppliers of high-quality pigments used in the automobile industry and other sectors. Scheller became president of the company in 1964, at age 34, when his father died of cancer. In 2004, he was named a College of Management Distinguished Alumnus; he and his wife, Roberta, are honorary chairs of the Campaign Georgia Tech Steering Committee. “Working with Ernie Scheller has been one of the highlights of my professional life,” said Steve Salbu, dean of the College of Business. “He’s a wonderfully amiable, friendly and supportive gentleman who has achieved great success by insisting on ‘quality with integrity.’”

The Alumni Magazine spoke with Scheller this summer to learn more about his time at Tech, his work with Silberline and his unwavering support for education. Here, he tells his story in his own words.

MIT wasn’t my first choice; it was my father’s first choice. [Laughs] And I didn’t get in. That was the only school I applied to. So I scurried around the application to a lot of schools, and at the top of the list were the University of Michigan and Georgia Tech. Because I thought the climate in Atlanta would be more appealing than the climate in Ann Arbor, Mich., I picked Georgia Tech.

I wanted to be a chemical engineer, and they required German and organic chemistry. And between the two of them, after the first year, I decided this wasn’t going to work.

That was one of the lucky breaks I’ve had in life. I learned after my freshman year, at least, that chemical engineering was not for me. [Laughs]

I didn’t realize it at the time, but not getting accepted to MIT turned out to be one of the best things that ever happened to me. My dad made a deal with me to pay my $400 per quarter tuition provided that I pay my room and board. When I got to campus in the fall of 1947, the first thing I did was join the ROTC, which provided me with some regular income. I also joined the Georgia Air National Guard, where I made staff sergeant.

I was table manager at a fraternity house. I was the advertising manager of the Yellow Jacket [the campus humor magazine], where I earned commissions from ad sales. I even set up a silk-screening business in the basement of a fraternity house making posters for campus events. While it may not have been the best thing for my grades, taking on all those

SCHELLER ENTERED GEORGIA TECH IN THE FALL OF 1947, THOUGH HIS ORIGINAL PLAN HAD BEEN TO ATTEND THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
I started giving to Roll Call as soon as I went into the service and had a steady income. [Laughs] It was important for me to receive the Alumni Magazine and keep up to date. I was grateful to Tech for the opportunity to be in the ROTC. Because of my study habits at Tech I lucked out—the closest I got to Korea was California.

They sent me out to Norton Air Force Base in San Bernardino. I ended up as a procurement officer for the B-45 jet bomber. They only made, I think, 124 of them, and they were all stationed in England. The bomber was made by North American in Columbus, Ohio, and that plant was converted into making F-86s and the F-86D. So they had taken all the machinery and tooling for the B-45 bomber and moved it all out into a parking lot in Englewood, Calif., put it under tarpaulins, no markings or anything. I’d go down to Englewood with somebody from North American to find the tooling for a part and spend one or two days looking for the damn thing under tarps. It was pretty ridiculous. I wrote a letter to my superior officer and I said, “This is kind of dumb, and since they’re phasing out the B-45 anyway why don’t we just cannibalize an airplane that’s over there for the part?” There was a rule in the Air Force at the time: You do not cannibalize a flyable airplane. But I convinced my superior officer that this was a good idea and we went up the chain of command, and they said yes, that’s what they want to do. I received a letter of commendation and a promotion to first lieutenant. Just by suggesting the obvious.

**SCHELLER COMES FROM A LONG LINE OF SELF-STARTING PROBLEM-SOLVERS.**

My dad went to Cooper Union night school [in Manhattan]. He went there because it was free, and he went at night because he had to work in the daytime.

He was born in Vienna, Austria, and came over here when he was quite young. My grandfather on that side of the family was a private in the Austrian army and it was my grandmother who came over to the States first. The whole deal was that after she found some way to make a living over here, she’d bring her husband—my grandfather—and my aunt and my father over. She opened up a boarding house in Coney Island, N.Y., and after she got some tenants to make a decent living she brought my grandfather over and my father and aunt. My father’s first job was at a bathhouse on the boardwalk.

**INSTEAD OF CHEMICAL ENGINEERING, SCHELLER CHOSE AN INDUSTRIAL MANAGEMENT MAJOR. He graduated in 1952 and debarked for air force service in California.**

The big producers were Alcoa, Alcan and Reynolds Metals Company. They all made about the same thing. My father’s expertise was in foil and he wanted to get in the foil business. Those days it took a million dollars of capital to set up a foil mill, and he couldn’t raise the million dollars. But it only took $100,000 to get into the pigment business, and he was able to raise it.

The big producers were Alcoa, Alcan and Reynolds Metals Company. They all made about the same thing. My father’s philosophy was that we couldn’t afford to be market leaders as far as new products was concerned—we didn’t have the muscle or the dollars to do it. But the one thing we sold back in the very early days was uniformity from batch to batch. If you bought some paint today and you wanted to match it a year or two years later, it would match. That wasn’t true of our big competitors. We were selling the consistency of product. We also undersold the big guys by a few cents a pound.

We had quality control. That was my first job in high school, when the company was very young. It was just my father, a part-time secretary, one production employee and me doing some quality-control work. That was the job I had all through my senior year of high school, before going to college.

The Bergmark Family Dean’s Scholarship [funded in part by Scheller] completed my decision to commit to Tech. The scholarship is not only extremely generous, but it helped motivate me academically since I was being financially supported by people who believed in my success. I look forward to every chance we scholars are given to meet with our donors; they are truly inspiring people.

— CARLI WALKER, SECOND-YEAR BUSINESS ADMINISTRATION MAJOR
Ernie Scheller has a distinguished track record of success in leading and growing one of the top family-owned businesses in the country. Ernie rightfully takes great pride in building upon his father’s legacy and passing on the fruits of his labors to succeeding generations. While his generosity has had an unprecedented impact on our College of Business, I believe that impact will ultimately inspire the larger Georgia Tech community to continue boldly envisioning a future of globally renowned excellence and quality.

— G. P. “Bud” Peterson, president of Georgia Tech
Foil scrap was our basic raw material. We did some atomization of aluminum—I still have the scars on my arm. We'd shatter a stream of aluminum with a continuous air blast and that would make these tiny aluminum droplets, atomized powder. If you get any moisture on the scrap when you’re charging it, it’ll pop—the moisture turns to steam and pops the metal up. I got a few residual scars going back to when I was 15 or 16 years old. I guess I started in April or May of 1945. I worked that summer and the following summer and then went down to Tech, then worked there [during the] summers after I went to Tech.

### BY THE NUMBERS

The $50 million commitment made by Scheller included a $20 million challenge grant. Here’s a numerical breakdown of how the funds raised by that challenge will be used by the new Ernest Scheller Jr. College of Business.

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<td>Scholarships for the Steven A. Denning Technology &amp; Management Program</td>
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*The dean’s discretionary funds help provide financial stability and flexibility to meet short and long-term needs, such as recruiting and retaining faculty, supporting scholarships and fellowships, providing career services, developing new curriculums and programs and increasing corporate outreach.

SILBERLINE WAS FOUNDED IN STAMFORD, CONN., BUT IN 1963 RELOCATED TO LANSFORD, PENN. (TODAY, SILBERLINE OPERATES SEVEN LOCATIONS WORLDWIDE.)

We were leasing our facilities in Stamford and several things happened. Number one, the complexion of Stamford changed from a manufacturing town to really more of an office area. All the big corporations who were in New York City moved out to the suburbs. The price of real estate was going up and our rents were going up accordingly—besides, we were considered a dirty industry. People wanted these properties for office buildings. The complex where we were located, everything but Silberline had changed to offices. So, number one, we couldn’t afford the rent; number two, there wasn’t space available; number three, we checked with Connecticut and they said, “We don’t have any industrial development revenues to help you find a place. We only have it, by law, for industries outside the state to attract them.”

Well, back in those days there was a publication called *Dunn’s Review*, and I happened to look in *Dunn’s Review* and there was an ad for Pennsylvania Industrial Development Authority, PIDA. They had a mail-in card, and I mailed that card in and, by golly, within a week I got a telephone call from PIDA. They said, “We’ve got just the place for you.” It was the old Lehigh Coal and Navigation Company machine shops; it was about 40,000 square feet, about 14 acres of accrued property with sewer and electricity. They sold us that property for $25,000 and loaned us $100,000 at 2.25 percent to fix it up. This was 1962.

My father thought that 40,000 square feet would last us for 20 years of expansion. By the time we moved we were about 30 percent larger. We grew from 15 or 20 employees in Stamford to about 30 employees in Lansford. Within one year after moving here we bought the building next to us. Then we took the space within the 40,000 square feet where we had built individual offices and turned that into a laboratory and manufacturing space. We were pretty cramped.

My father, very shortly after the move to Pennsylvania, became ill with cancer. It was a long process of illness, and in the middle of the year he could no longer work. He appointed me president of the company and my younger brother, Joe (the best engineer I’ve ever met), executive vice president. My father spent a lot of time in the hospital, and then he died when he was 62 years old.
Joe helped grow the company until my side of the family bought out his side of the family in 1996. My son Ernest became president of the company on the first of January 1997, and that was short-lived because he died in August of 1997. My daughter Lisa then became president.

A TURNING POINT FOR SILBERLINE CAME EARLY IN SCHELLER'S TENURE AS COMPANY PRESIDENT. HE HAD A CHOICE: PLAY IT SAFE AND STAY SMALL, OR TAKE SOME RISKS TO GROW THE BUSINESS. HE DECIDED TO GO BIG.

In early 1964, Alcoa, Reynolds and Alcan got in a price war. I knew we weren't going to be around very long if we didn't do something that would differentiate us from our large competitors. So I went up to Detroit and talked to all the paint companies. Then I went to the individual automobile companies—there was American Motors at that time, as well as Ford and Chrysler and GM. They each wanted to be different. And I said, "Well, we can help you be different. We can give you what you want. You just tell us what you want and we'll develop it and we'll do it." And that's exactly what we did. Even though there was a lot of talk as to wanting to be different, everyone was only willing to talk in general terms: "We want something more bright, we want something with more flash, at the same time, we don't want to give up coverage." Except Ford. They were willing to work with us.

The first problem they wanted solved was, they were getting something called “skinny films” on certain surfaces of the automobile: curved surfaces on fenders, for instance, or sharp curves on a trunk lid. In some cases it was so thin you could see the primer under the topcoat of paint. And they wanted to have something, especially with metallics, that would hide the primer. We developed a product based on particle-size distribution, which gave them the brightness or the lightness of the color. Ford liked what we were doing, and then all the other paint companies started to take notice.

We had a big advantage custom-making these products because our equipment was relatively small. We could make these small batches to order. In the pigment industry, our competitors all had big equipment and relatively few grades they offered the paint manufacturers. We began offering people material on a custom basis, the grades proliferated, and by the time we were finished I think there were more than 300 grades of aluminum pigment.

We normally kept blend stocks and we could make a number of these grades by just blending in a mixer. We could do that within a 48-hour period.

We came out with a new grade that revolutionized the business called Sparkle Silver 3500. This was in the '70s, just
Mr. Scheller’s gift, along with gifts from the Holland Underwood Foundation and Judy D. and Stephen P. Zelnak, Jr., has generated several scholarships for Denning Program business students experiencing financial hardship. With these scholarships, the program is able to recruit the most talented business students to the College of Business. As the quality of our students continues to rise, so does the Scheller College of Business rise to become the world’s preeminent business school for technology and business.

— Linda Oldham, director of the Steven A. Denning Technology & Management Program

when Volkswagen was converting from the Beetle to the more conventional automobile, what they called the Golf. On the Beetle there were no metallic colors—they were mostly black or bright yellow or bright green. To introduce the new styling they came up with five champagne colors, all metallic, all based on our Sparkle Silver 3500. We were getting inundated. The country was going metallic—from about 20 percent metallic on automobiles up to 40 percent.

Now it ranges from 60 to 80 percent. The fashion has changed. We’re actually having to struggle. The market is having what they call “silver fatigue.” You’ll notice that among new cars, black and white have become popular. There’s straight reds mixed in. That cut our market down.

And then the modern application techniques are going to robotics. In the old days, with the manual spraying, half the paint ended up in the spray booth because of the overspray. Today, every drop ends up on the car because the electrostatic spray technique and the robotics give you a very uniform film thickness. The application method and the chemistry changed, all to reduce the amount of paint needed. The paint manufacturer raised the price for these more sophisticated paint systems and the amount of metallic paint on a volume basis became much less. And as a result we have a shrinking market.

Scheller is semi-retired from Silberline, but he stays active—both in business (as the company’s chairman emeritus) and in personal pursuits.

I play a lot of golf, and I’m better at most other things than I am at golf, but I still enjoy it. I’m a relatively better skier today, because there’s not much competition among guys my age. Roberta’s bugging me to play bridge, but I’d rather do more athletic things.

Scheller’s gift to Tech was made to ensure the future success of the Institute and its College of Business—but he has a personal connection, too. One of his eight grandchildren, Zary Peretz, is currently a second-year business administration major.

Georgia Tech taught me the importance of perseverance and persistence. Over the years, I’ve applied those same principles to my support of Georgia Tech and its College of Business. In order to build a college that will rank among the world’s best business programs, you’ve got to have great leadership, a broad-based vision and a lot of determination. The college has been fortunate these past six years to enjoy such leadership under Dean Steve Salbu. By any barometer you could choose, the college has improved dramatically during Steve’s tenure. I have never been more optimistic about the future of Georgia Tech and its College of Business, and I am eager to see the great things that will happen there in the coming years.

My granddaughter was in China when the announcement was made about the gift. She was the first one I heard from. She sent out to her Facebook group—well, I’m not on Facebook; I’m computer illiterate to tell you the truth. But she sent out a message: “I’m going to be graduating from the Ernest Scheller Jr. College of Business!”

I feel that I can benefit those who come after me more by making educational opportunities available than any other thing I can do. ▲
Higher education as we know it is on the brink of revolution. What does Georgia Tech think about that?

By Van Jensen
Illustrations by Jesse Lefkowitz
In the late 11th century, a teenaged philosopher named Peter Abelard left his home in Le Pallet, France, and traveled to Paris. At the time, the French capital city was one of the world’s leading centers of thought, and its brightest minds held the philosophy of Realism to be sacrosanct. But Abelard had other ideas.
IN A SERIES OF ORATORICAL BATTLES, Abelard defeated Realism's proponents and established his own philosophy, which came to be known as Conceptualism. A few years later, Abelard created one of the first modern schools, where thousands of students listened to lectures, were tested on their knowledge and concluded their studies with a graduation ceremony. That model became the framework of the university, the dominant form of higher education for the next 900 years.

But all that is about to change. Abelard’s once-revolutionary educational model is now staring down an upheaval of its own. A decrease in government funding is making college ever more expensive for students, and a bachelor's degree hardly guarantees a job. Meanwhile, online resources offer access to much of the same educational content for little to no cost.

In his 2011 book *Abelard to Apple: The Fate of American Colleges and Universities*, Rich DeMillo, PhD ICS 72, former dean of the Georgia Tech College of Computing and now a distinguished professor there, lays out the looming challenge: “Instability threatens most colleges and universities in the United States. Once-reliable sources of revenue are either drying up or being divided among many more institutions. ... Newer, smaller and more nimble competitors collaborate to offer equivalent services at lower prices.”

Those “more nimble competitors” include the likes of Apple’s iTunes U, which offers more than 500,000 lectures, all free of charge.

“I think the situation is pretty serious, and I think that for an alarmingly large number of institutions the future doesn’t look terribly bright,” DeMillo says.

With strong headwinds buffeting the world of higher education, what lies in store for Georgia Tech? Rather than fret about this oncoming revolution in education and take a defensive stance, Tech’s leaders have set the Institute on a path not just to survive, but to flourish.

The foundation of that effort was laid by former President Wayne Clough, CE 64, MS CE 65, who set a goal for Georgia Tech “to define the technological research university of the 21st century.” Current Tech President G. P. “Bud” Peterson in corporated that challenge prominently into Tech’s Strategic Vision, launched in 2010, which set goals for the Institute to meet by its 150th anniversary in 2035.

To Rafael L. Bras, Tech’s provost and executive vice president for academic affairs, that provides clear guidance: Georgia Tech must stay true to its technological and scientific roots, and it must be a leader, not a follower. The goal pushes Tech to reimagine its structure and identity in the midst of the looming changes in higher education. And those changes, Bras stresses, are most certainly coming.

“IThknow this train has left the station, but I don’t know where it is going, and frankly I don’t know if anyone else knows,” Bras says. “I have no doubt that it will get somewhere, and we sure are going to be ready. Georgia Tech will impact where that train goes.”

To help Tech steer that train, Bras first reorganized the office of the provost. The dean of libraries, Catherine Murray-Rust, is now also the vice provost for learning excellence. Her task is to promote the best pedagogical standards, including through the use of new technology.

In 2011, the Institute also created the Center for 21st Century Universities (known as C21U), which serves as a living laboratory to experiment with education techniques and technologies. DeMillo was appointed the center’s director. He views C21U as a place where researchers can make gambles and ask big questions, a “freeing kind of environment, but very outcome focused.”

Having a robust, flexible portfolio of projects is crucial, because students’ preferences can change almost overnight, DeMillo says. For instance, when he was writing *Abelard to Apple*, surveys of college students showed they preferred print textbooks to e-books. Now, four years later, the current freshman class prefers e-books. The same thing has happened with online courses: students had little interest in them four years ago, but they’re now increasingly popular.

“We have the ability to build different kinds of boats,” DeMillo says of C21U. “And if they don’t float, it doesn’t sink the whole Institute.”

DeMillo also is chair of the new Council of Educational Technology, an advisory group of stakeholders and professionals who report to the provost’s office. The council has been tasked with watching trends in higher education as well as developing and refining ideas researched and generated by C21U, then recommending how to put them into practice. The vice provosts and deans will serve as the operational arm, enacting the new ideas across campus.

Though the undertaking is still in its infancy, Bras says it has proven valuable already. And he knows it will be crucial in the chaotic times ahead.

“Georgia Tech clearly must be an important player in this,” he says. “We have to stay on top of it to live up to our vision of being the technological university of the 21st century.”

EDUCATION on DEMAND

As the Institute looks to the future of education, it’s keeping an eye on its new competitors. One of those is Udacity, founded by Sebastian Thrun, a Stanford computer science professor and Google VP who is perhaps best known as one of the creators of Google’s self-driving car.

In April, C21U hosted a talk by Thrun. He told the crowd about attending a TED talk in March 2011 and listening to...
“I think the situation is pretty serious, and I think that for an alarmingly large number of institutions the future doesn’t look terribly bright.”

Salman Khan, founder of Khan Academy, an online educational resource that offers thousands of video tutorials, interactive assignments and assessments to anyone around the world with access to the internet. Its site boasts that it has delivered more than 160 million lessons.

“My class only reaches 200 people,” Thrun admitted to the Tech audience. “I felt a little embarrassed.”

So he went back to Palo Alto and started working on an online version of his Computer Science 221 course. He filmed detailed tutorials and posted them online. Each video is followed by a quiz that is quickly graded, with an explanation given for each problem. And thus Udacity was born.

By the beginning of the fall 2011 semester, 160,000 students located in 190 countries had enrolled on the fledgling site.

Soon after, Thrun noticed a curious response among the students enrolled in his actual CS221 course: Most of them stopped attending class. When the students reappeared for an exam, they told Thrun that they preferred to watch him on video. They could watch at their leisure, rewind to review difficult points and then visit Udacity’s online forum to ask questions.

“It was a transformational experience to me,” Thrun said. “This [online course] was having more impact than anything I’d ever done in my life. … Having done this, it's impossible for me to teach a regular class at Stanford.”

Udacity now offers 11 courses, mostly in science and mathematics, all of which are free. It also partners with companies that recruit Udacity’s students. Which begs the question: If a student can take a Stanford-quality course for free and potentially find a technology job out of it, why would anyone actually enroll at Stanford?

In a Wired article about Udacity, Thrun predicted that in 50 years perhaps only 10 institutions around the world will still be in the business of higher education. (Currently, there are thousands.) In April, as Thrun addressed the audience of Georgia Tech faculty and students, he softened that stance: “I don’t see this as a confrontation.”

Bras was less reserved. “It truly shakes to the ground the model higher education has,” he says.

The open-course movement represents a sudden and radical change in part because it allows educators to broadcast knowledge to an exponentially larger audience. Currently, Georgia Tech has about 150,000 students and alumni. As Udacity proved, that many people—maybe even more—can and will sign up for a single online class.

“We are talking about incorporating 100,000 stakeholders in a single course, and we will have dozens of those courses online,” DeMillo says. “So in one leap forward we will have millions of people that have a direct connection to Georgia Tech.”

Open courses could also lead to transformational change in the developing world and other areas where access to traditional educational institutions is limited.

“There is a hunger for education in the world and people out there who just simply do not have the opportunity,” Bras says. “To those people who have the discipline and the whereabouts to do this, they can probably get a lot of content [online]. That would be of tremendous social value.”

Online education has been derided as too impersonal, but efforts such as Udacity have proven it to be in some ways better than the traditional model of education.

“The comments from [open course] students show they feel an emotional connection,” DeMillo says. “So at some level students are connecting with instructors via the technology in a completely different way than we would have imagined.”

In fact, one of the core tenets of traditional learning—that face-to-face interaction between teacher and student is critical—is actually of almost no value, according to meta-analysis of education studies. What does matter, the research shows, is timely feedback. And online education programs, with their automated grading, are well suited to providing students with a quick assessment of their work.

Meta-analysis shows that the other most effective educational tool is one-on-one tutoring. Hiring thousands of tutors to accommodate a class roster of more than 100,000 is an economic impossibility for most universities, but tools have developed to fill this need as well.

OpenStudy—a startup created by Chris Sprague, MS CS 04; Ashwin Ram, a computing professor at Tech; and Preetha Ram, an associate dean at Emory College—is one such tool. It’s a social network that allows students to meet online and...
work through problems in a variety of fields. The site, which launched in 2010, already has more than 100,000 users from 170 countries.

“We were late to recognize the possibilities that these things presented, but over the past four or five months we have moved the Institute to focus now on the potential value of online courses,” DeMillo says.

In July, the Institute made a big leap into the open-course arena as it became a founding member of Coursera, a company that will offer free online classes from 17 member institutions. Tech’s initial offerings through Coursera include Computational Photography, Computational Investing, Energy 101 and Control of Mobile Robots. The courses are open to everyone with an internet connection who registers at coursera.org.

While this is a big step, Institute leaders stressed that more partnerships are on the way.

“We view this partnership as a type of experiment,” said Michael McCracken, assistant dean in the College of Computing and director of online course development and innovation at C21U. “Georgia Tech can watch what is happening in the online course world, see how it evolves and then decide how it wants to participate. We feel that directly engaging in the online course community with our own courses is a more proactive approach to actually learning what is successful and not so successful in developing and offering courses in the massive, open online course world.”

President Peterson said the effort fits perfectly with the Institute’s goals.

“Georgia Tech is committed to using technology and advanced platforms to enrich and expand educational opportunities,” he said. “Through Georgia Tech Professional Education, we already offer courses to more than 25,000 students worldwide. Steps such as this agreement will enable even more students throughout the world to have access to Georgia Tech’s expertise, and help to meet the needs for lifelong learning.”

In this new environment, C21U will develop the prototypes for online courses and Professional Education will take on the task of producing the courses, McCracken said.

The fundamentals of offering online education is nothing new to Tech. The Institute first entered the online course business in 1977, and so Professional Education brings significant experience to bear.

Nelson Baker, CE 80, dean of professional education, said the division will be working “hand in glove” with C21U on the production side, and the key is to ensure that the online courses maintain Tech’s high academic standards.

Professional Education is going through a reorganization to align itself with the new demands, and that includes hiring an associate dean for learning systems. That position will be focused on new pedagogies and technologies, Baker said.

The professional education team also continues to work closely with corporate partners and individuals to make sure that the classes it offers will help Georgia Tech alumni and other professionals build skills that make them more desirable to employers. “We want to make sure the learning objectives meet the business needs of working professionals,” Baker said. “We do a lot of listening.”

One benefit of the online courses is that they offer an array of data on how students interact with the software and which tools are most effective for learning—numbers that go far beyond the attendance logs and grades recorded in a traditional classroom.

“We will know what makes [students] tick from a learning standpoint,” DeMillo says. “We will be observing learning processes essentially in the wild and be able to draw conclusions on what matters.”

DeMillo is excited by the prospects of online education, but still the question looms: “Once we move to a massive open-course [system], why would people pay tuition?”

“In the end of the game, success requires more than skills. It requires a maturity of thinking that goes beyond skills, and that’s the essence of education. That is why I think people will still pay to come to Georgia Tech.”
A storm’s brewing in higher education

1. The cost of a college education is rising
   Annual total cost per student at four-year institutions

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<th>Year</th>
<th>Cost</th>
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<tbody>
<tr>
<td>1980-81</td>
<td>$8,672</td>
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<td>1990-91</td>
<td>$12,185</td>
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<tr>
<td>2000-01</td>
<td>$15,843</td>
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<tr>
<td>2009-10*</td>
<td>$20,986</td>
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</tbody>
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*Most recent year available. Source: U.S. Department of Education, National Center for Education Statistics

2. So is the amount of student loan debt
   Average Debt Levels for Graduating Seniors

<table>
<thead>
<tr>
<th>Year</th>
<th>Debt</th>
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<tbody>
<tr>
<td>1980-81</td>
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<td>1990-91</td>
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<td>2009-10*</td>
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<table>
<thead>
<tr>
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<tr>
<td>2000</td>
<td>$17,350</td>
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<tr>
<td>2004</td>
<td>$18,650</td>
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<td>2008</td>
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Source: National Postsecondary Student Aid Study

3. But jobs are harder to find
   Percent of people under age 25 who are unemployed and underemployed

<table>
<thead>
<tr>
<th>Year</th>
<th>Unemployed</th>
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<tbody>
<tr>
<td>2000</td>
<td>9.3 percent</td>
</tr>
<tr>
<td>2007</td>
<td>10.5</td>
</tr>
<tr>
<td>2010</td>
<td>18.4</td>
</tr>
<tr>
<td>2011</td>
<td>17.3</td>
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</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Underemployed</th>
</tr>
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<tbody>
<tr>
<td>2000</td>
<td>14.9 percent</td>
</tr>
<tr>
<td>2007</td>
<td>17.3</td>
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<tr>
<td>2010</td>
<td>30.4</td>
</tr>
<tr>
<td>2011</td>
<td>29.3</td>
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Source: Current Population Survey and the Economic Policy Institute
**FLIPPING the CLASSROOM**

Charles Isbell, a professor and senior associate dean in the College of Computing, says it’s already a challenge convincing students to come to class.

“I’m often surprised at the class before the midterm; ‘Who are these people?’” Isbell says. “They show up for the class before the midterm, the midterm and the class after the midterm to see how they did. So when everything is online, why should they come to class?”

Isbell, ICS 90, and Cedric Stallworth, EE 90, MS CS 99, the assistant dean of outreach, enrollment and community at the College of Computing, have been trying to answer that question. The goal is to ensure that students will continue to want to attend Georgia Tech, and the challenge is that the in-class experience must have significant added value beyond the simple transfer of knowledge.

One old concept that has been dusted off is the “flipped classroom.” In the traditional model, professors spend class time lecturing, and students use their own time on homework and studying. But in the flipped classroom paradigm, students watch video lectures on their own time and spend class time working through problems in small groups and receiving in-person mentoring from faculty.

Isbell and Stallworth envision the flipped class as an intensive training session that focuses on skill training as well as knowledge transfer.

“Today’s students have no excuse,” Isbell says. “Just start at Wikipedia and go from there. If everything you need to know is out there, that now allows me as a teacher to accelerate their learning more like a PhD program.”

That means posing more challenging assignments and having the time to guide students through the problems in class.

“It doesn’t matter that I have given you more work, because we can now spend three hours a week working together on it in class,” Isbell says. “... With more of the learning out of the classroom, we can now do more interesting work in it.”

The idea that Tech’s classes might become more difficult might not thrill students, but it is in keeping with the Institute’s history, DeMillo says. Georgia Tech has always prided itself on being a tough academic environment, a school that students don’t just graduate from but *survive*. And that is part of what makes Tech alumni so successful.

“Employers who hire Tech graduates notice that they hit the ground running,” DeMillo says. “They are competitive. They work hard. They are self-motivated. So there is a kind of toughness that we weave into our programs that serve students well when they leave. You can’t really simulate that [in online classes].”

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We can’t just lecture. 
We’ve got to produce students who are functional as well as knowledgeable.
Isbell says Tech teaches students what they can accomplish when they’re pushed. “We used to say, ‘Georgia Tech: Building tomorrow the night before.’” Or, as Stallworth, who was a starting cornerback for the Yellow Jackets, puts it, “We make white-collar talent with a blue-collar work ethic.”

In addition to reimagining the structure of the classroom, Tech’s leaders are having to rethink what constitutes a class in the first place. One such effort is the Vertically-Integrated Projects program, better known as VIP. It’s the brainchild of Edward J. Coyle, Arbutus Chair for the Integration of Research and Education at Tech and a Georgia Research Alliance eminent scholar.

The three main missions of a university are research, education, and service, Coyle says. Though schools may succeed at each of those independently, the three remain mostly discrete entities: Faculty members conduct research with graduate students, they only engage with undergrads through classroom lectures and service projects are mostly separate from both research and education.

“With VIP, we wanted to really pull all of this together and allow everybody to participate,” Coyle says.

Through the program, faculty members and their graduate students serve as advisers for teams of 10-20 undergraduate students. Those students assist with the more practical aspects of faculty members’ research projects and earn class credit for their contributions.

Many teams undertake service projects; DeMillo, for example, advised eDemocracy, a team that partnered with the Carter Center to create mobile technology for election monitors. The system, which prompts monitors on what to look for and automatically sends the observers’ reports to election leaders via whatever network is available, has been used during elections in Egypt, Liberia and the Philippines. One former student involved with the project now oversees it as a member of the Carter Center staff.

“That’s something that’s a real service to the world,” Coyle says.

Undergraduate students can be on a VIP team for up to three years. That allows them to grow in the position and continue to add skills, just as they would in a career. Then, as upperclassmen, the students oversee and train newer team members. Those professional skills are immediately useful once the students graduate.

“People who’ve hired our students said they were four to five years ahead of their peers as far as understanding the professional environment,” Coyle says. “That’s something higher education needs to focus on. We can’t just lecture. We’ve got to produce students who are functional as well as knowledgeable.”

Coyle’s VIP team, called eStadium, developed a smartphone app that delivers automatically updated statistics and annotated video replays to fans during football games at Bobby Dodd Stadium. The students built the app from the ground up and spend game days at the stadium making sure it runs smoothly.

Coyle says he treats the VIP students as if they were his graduate students. They do challenging work, and there’s no question the experience accomplishes something that couldn’t be done by watching lectures on the internet.

Tech has 13 VIP teams and plans to add two to three per semester. Six of the teams have research chairs as advisers. “I consider that the ultimate sign that it’s a success,” Coyle says. “Those people don’t like wasting time.”

Planning also continues on the X-College, a proposed “design your own major” program that would allow students to custom build their own area of study. Programs such as the X-College and VIP prove that Georgia Tech has much to offer beyond simply the transfer of knowledge, Bras says.

“In the end of the game, success requires more than skills,” he says. “It requires a maturity of thinking that goes beyond skills, and that’s the essence of education. That is why I think people will still pay to come to Georgia Tech.”

DEFINING the FUTURE

dEmillo had a few reasons for including Abelard’s name in his book title. It made for nice alliteration, and it covered the passage of time from the earliest universities to the present. But DeMillo also chose to call out Abelard because the philosopher was so eager to challenge the status quo.

“He was deliberately tweaking the nose of the ecclesiastical establishment,” DeMillo says. “His success, more than anything else, was due to the fact that he was able to turn a mirror on scholarship of the day and point out the inconsistencies.”

For Georgia Tech to enjoy continued success over the coming decades, it needs to have that same eagerness to challenge itself and its traditional way of doing business, DeMillo says.

The choices are stark: Do nothing and fade into irrelevance or make changes and greatly expand the Institute’s influence.

“I am absolutely convinced that the number of stakeholders will grow dramatically over the next 50 years,” DeMillo says. “It will probably be the dividing line between institutions that work and institutions that fail.”

C21U has plans to launch an assortment of projects over the next year focusing on expanding scale, personalizing education and establishing quantitative learning goals. There are no solutions yet, only questions. What kind of institution should Georgia Tech become? What kinds of students and faculty should it recruit? Which of those students will be on campus? What will they learn? What will be the scale of Tech’s operation?

That uncertainty is daunting. But rather than hide from the unknowable future, Georgia Tech is embracing that uncertainty and framing it as a challenge. DeMillo is reassured by the slogan from the Strategic Vision, that Georgia Tech must “define the technological research institution of the 21st century.”

“When I joined Georgia Tech as dean it was a statement; there was a period at the end of that sentence,” DeMillo says. “It was only over some time that people realized that it’s not a period. It’s an ellipsis.”
gameday traditions

OLD

PHOTOGRAPHY BY JOSH MEISTER  ILLUSTRATIONS BY STEVE WACKSMAN
If you’ve ever stepped foot on campus on a Saturday between the months of August and November, you’re familiar with the football game-day traditions the Tech community holds dear. There’s the tailgating, the Ramblin’ Reck rumbling onto the field before the game, the cries of “To Hell with Georgia!” But like all traditions, these are in constant flux. Georgia Tech’s obsession with innovation extends even to these, its most sacred rituals—every new generation of Yellow Jackets puts a new spin on the old standbys. In honor of the 2012-13 season kickoff, the Alumni Magazine explores how new and old traditions live side-by-side, on and off the field. And don’t forget the ultimate Tech tradition, Homecoming, back again Oct. 25-27.
Alumni and current students alike are invited to join up with the Goldfellas, who meet at the W21 parking area before every home game. Here’s some insider tips from Ghetto Buzz himself.

- **Arrive on time,** two and a half hours before kickoff. You’ve got to allow time to paint up and let it dry before the walk to the stadium.

- **Achieve full coverage.** Don’t forget the back-sides of your arms, armpits, sides of your stomach, back of your ears and chest directly below your neck.

- **Come prepared.** Have a few ideas for your Goldfella face in case your top choice is taken. The face you choose is yours for your entire Goldfella career, so choose wisely!

**When Tech has a home game,** the Goldfellas’ day begins at 7:30 a.m. After several hours of tailgating, about two hours before kickoff, the painting begins. We all paint ourselves. The first coat is a nice yellow lather applied all over the upper half of the body, making sure that none of our skin is showing. Next, our designated “stripers” stripe the arms of each Goldfella with four black stripes.

After everyone is striped, it’s time for the most important part of the painting process: the faces. Each Goldfella has a unique face-paint design. Whenever a member graduates, we retire his face; right now we’re working on a book of all the different faces, to make it easier to keep track.

Once that’s done, each Goldfella grabs a wig and six pom-poms: two for their front side, two for their backside and one for each hand. The final component to the painting process is the letter on each Goldfella’s chest. When we all stand in a row, it spells out a word or phrase, different for every game. This is generally based on seniority—the guys that have been “painting up” longest usually get the first letters. Once the letter is painted on, glitter is sprinkled onto the wet paint and the march to the stadium begins.

We march from our tailgate location to the corner of Boddy Dodd Way and Techwood Drive. On the way, all the Goldfellas sing Georgia Tech fight songs and I lead various other Yellow Jackets cheers. When we arrive, I lead the pack in a quick chant followed by a run up Techwood towards the North Avenue gate on the south side of the stadium. Once inside the stadium, Goldfellas all stand up in the front row throughout the game. We stay until the last second on the clock has expired, all the while cheering on the Jackets as they march up and down the field. We have a few chants we use every game: Tech’s two fight songs, “Don’t Send my Boy to MIT,” “Clemson is a Redneck School,” and of course the “What’s the good word?” chant.

It is completely free to join the Goldfellas and it’s open to all Yellow Jackets fans. Be sure to look out for us during the games—we’re hard to miss.
On Sept. 8, the 80-year-old Ramblin’ Reck will begin its 51st season leading the Yellow Jackets onto Grant Field. Here’s how Stephen Weber, the 2011-12 season driver and a fourth year business administration major, gets the Reck ready for a big game.

I t all starts with a Friday afternoon Reck washing. While the club waxes and scrubs, I go through my routine of checking the oil levels, adding some radiator fluid and adding my own finishing touches.

Game-day mornings usually have a 7 a.m. wake-up call. I throw on my Reck Club polo and GT straw hat, make a trip to Waffle House #1885 with the rest of the Ramblin’ Reck Club and then the joy riding begins. We travel from tailgate to tailgate, blaring the horn and getting everyone fired up for the game. We visit Jacket Alley and make the drive down Freshman Hill. Once the Reck is parked under the stands, it seems like forever until it’s time to cross my fingers, kick the starter and have 50,000 fans watch the car get to second gear and break the banner with the Yellow Jackets headed to victory behind me.

From the smiles the Reck puts on people’s faces, to the folks I get to interact with, to the chance to introduce the engineering prowess of Tech to the world, it is a huge honor to drive the one and only.

My wife, Lindsey, and I are recent graduates of the Institute (both industrial engineering, class of 2011), and we were married soon after getting out. Our game-day traditions come from different backgrounds. Lindsey is a seventh-generation Atlantan. Her father is Tim Gunter, NE ’79, a defensive back for the Yellow Jackets in 1972-74. Also in her family are one or two players from Bobby Dodd’s legendary 1951 and 1952 teams. Lindsey’s family raised her as a Tech fan from the start. She remembers wearing engineer’s caps to games throughout her early childhood and learning never to wear anything red or orange to the campus. I, on the other hand, attended my first Tech game in a pressed white shirt and gold tie as a fraternity pledge. Despite my unfamiliarity with the Jackets before that day, I was hooked instantly and haven’t missed a home game since then. Lindsey graciously gave up her family seat at field level to accompany me as my date in the Greek block. We would rise early and dress up, eat and tailgate with my fraternity, visit with Lindsey’s family, get into the stadium early and make it a point to remain standing, yelling and singing the entire game. Our wedding gift to one another was a season ticket. We still dress up and encourage the fans in the upper north deck to follow the lead of the students below to stay loud and rowdy. We love Saturdays at Grant Field, and we hope to continue the family tradition of cheering on the Yellow Jackets no matter what.

JASON KUYKENDALL, ID 11 MARIETTA, GA.
the band

In its natty gold and white uniforms, the Georgia Tech Marching band keeps the crowd pumped up before, during and after every single game. But how does the band get itself ready? We asked Emily Fitzharris, a third-year double major in polymer fiber engineering and applied languages and intercultural studies, who will be the trumpet section leader this fall.

About two and a half hours before kick off, the spirit bands meet at Calloway Plaza to play the team into the stadium. After this, I go around with the spirit bands and we play different songs all over campus for people tailgating. Then we head to the Campanille, where we do another warm-up with the entire band followed by a small performance to get the crowd excited.

After we finish “Ramblin’ Wreck,” the band runs up to the library. The trumpet section goes to the basement, waiting until we hear the tubas start to play “Budweiser.” Then we scream and run up the stairs and out the front doors of the library to join the rest of the band. We march down Freshman Hill, playing the fight songs again. At the bottom of the hill, the band sets up on the stairs and holds another concert for the fans.

Next, we sprint into the tunnel, where sections have their own traditions. The trumpet section has something called a “Doh Speech” in which “The Dohmeister” gives a pep talk about how Paul Johnson is going to lead the mighty Yellow Jackets to a victory over the opposing team. The Dohmeister has a small tub of Play Doh that he shapes into the mascot of the other team. When the speech is over, he throws the Play Doh mascot on the ground and stomps on it. (The Play Doh mascot is then placed back in the jar and a RAT holds onto it for the rest of the game. It’s good luck to rub the Play Doh, so if the team isn’t playing well, it’s the RAT’s job to rub it.)

In the tunnel, the tubas play the tuba polka and the entire band dances and sings along. This leads straight into my favorite game-day tradition, when the entire band sings “To Hell with Georgia.” This always gets me super excited for the game and makes me extremely proud to be a Yellow Jacket!

After we finish pregame on the field, we go into the stands and enjoy the game. Everyone cheers and sitting is not allowed. We play often during the game, and each year band director Chris Moore does arrangements of popular songs, like Lady Gaga’s “Bad Romance” and DJ Khaled’s “All I Do is Win,” and those always get the crowd pumped.

TIPS

THROW A PERFECT CORNHOLE GAME

It seems easy enough:
You throw a beanbag into a hole cut into a plywood board propped up 30 feet away. But if you’ve ever played Cornhole, you know it can get tricky—especially after a morning spent tailgating.

According to CornholeCornhole.com, it’s crucial to keep an eye on your beanbag’s arc, slide and overall form. For more tips like this, including “6 Cornhole Throws You Have to Try,” visit cornholecornhole.com.
the networks

Just because you leave Atlanta after getting out doesn’t make you any less of a Tech fan—it just makes it a little harder to be among your own kind. What’s the best way to keep in touch with fellow alumni and keep tabs on the team? Follow the lead of these grads and connect with a local Alumni Network. Find one near you at gtalumni.org/networks.

In August 2011 I moved to Austin, Texas, to start my master’s in civil engineering at the University of Texas. And while I met lots of new people at orientation and in my classes, I still felt like something was missing.

During the four years I spent at Georgia Tech, I grew so much as a person. By surrounding myself with bright, passionate, clever, caring people, I learned what it meant to invest in others. I learned what it felt like to be an engaging, contributing member of a team, not only in the classroom, but in organizations as well.

Within a month of moving to Austin, I realized I needed to find my GT family again.

I had heard of the Alumni Association (I had been part of the Student Alumni Association my last year at Tech) and hoped there might be a few GT people in Austin. I found the Heart of Texas/Austin Facebook group and sent a message to the president: “I just graduated, I’m new to Austin, is there a way to get involved?”

I didn’t know what to expect, but the network president, JT Genter, Mgt 07, was enthusiastic from the get-go. He did more than fill me in on the network—he welcomed me to Austin. Soon I was planning a young alumni happy hour, serving as the young alumni ambassador and serving as a point of contact and support in a city I’d just moved to. It felt so right.

TIPS OUTSOURCE YOUR BURGER

If you want to start your game day off with a juicy hunk of beef and cold drink while avoiding the tailgating crowds, try one of these local Atlanta spots—all within a quick drive from campus: Bocado (bocadoatlanta.com), Yeah! Burger (yeahburger.com; go for the Howell Mill location), Flip Burger Boutique (flipburgerboutique.com; opt for the one on Howell Mill), The Vortex (thevortexbarandgrill.com; the Peachtree Street NE one’s closest). And, of course, there’s always this little place called The Varsity.
Last fall, I went to several football-watching parties and was so excited to purposefully wear Georgia Tech apparel again. Surrounded by others, old and young, proudly wearing their GT polos and tees, I felt at home. Of course, I did more talking than football-watching at the parties, mainly because I was so excited to get to meet others and hear about all the different paths people have pursued after Tech. We did the Budweiser song and sang the fight song proudly.

Some of my best friends are starting to come from the GT Network in Austin. Continuing to be part of the Georgia Tech family is something I will always seek out and cherish—no matter where I am in the world.

When I graduated from Tech I accepted a job that required relocation to Fort Lauderdale, Fla. I was thrilled about the opportunity, but I was on my own in a new city where I didn’t know a single person.

A few coworkers were active in their universities’ alumni networks, so I reached out to our Alumni Association in hopes of finding something similar. There wasn’t anything established in the area yet, so the GTAA encouraged me to help start a Fort Lauderdale network. We planned a dinner event to gauge interest and ended up having a huge turnout. Alumni came from all parts of the city and many said they tired of having to travel long distances to get to other alumni events.

The pace hasn’t slowed since. Over the past year we’ve grown to more than 50 members and have great turnouts to all events. I went from worrying if I had anyone to watch a football game with to trying to find locations that could accommodate us all for game-watching parties. My fellow Tech alumni in Fort Lauderdale quickly became a source for networking and support in addition to sports-watching companions. Tech didn’t just help prepare me for the real world—the Institute is now also supporting me in the transition to my new life.

There’s a whole lot to look forward to down here and it’s all been made possible because of the pride we all have for our school. Go Jackets!

**THE FANS**

We tailgate with members of the Cobb/Marietta Alumni Network and other friends behind the Mason building. We get out there pretty early for the Saturday games and as early as we can for the Thursday night games. Most of the time we will have Ted Partridge, IE 03, cooking beef or pork in his smoker and Adam Swinehart, a former Tech student and huge Yellow Jackets fan, will sometimes grace us with his Brunswick stew, which is the best I have ever had. (He won’t share his family recipe so don’t even ask.) While we are enjoying each other’s food and company we always have some music coming out of the custom Igloo cooler speaker boxes with Ted acting as DJ. The one constant from week to week is plenty of talk about the impending game and plenty of cold beer. Occasionally we will even break out the margarita machine. This year we are expanding our traditions by incorporating my ex-military “deuce and a half” vehicle, affectionately known as the “Rumblin’ Wreck,” into our tailgate. The truck has a train horn, four public-address speakers (we’ll use them to play the fight song) and room for 16 of our closest friends. Hopefully the truck will draw attention to our Alumni Network and encourage people to participate in our tailgates. We also hope to add a pressure cooker and a fryer to our lineup this year so that we can have boiled peanuts and buffalo wings.

**TIPS SMOKE LIKE TED**

How does Ted Partridge, IE 04, prep his tailgate vittles?

I’ve brought a grill to many tailgates, but the past few seasons I’ve relied more on my Orion smoker. It’s a charcoal convection smoker, which means it cooks faster than a conventional smoker. For the UGA game in 2009, I smoked six Boston butts over seven hours.

Sometimes I’ll brine the Boston butts or turkeys the night before in a mixture of one gallon water, two quarts apple juice, half a cup of brown sugar and a handful of spices. In the morning, I dry them off and apply a pre-mixed dry rub.

The smoker is idiot-proof—you load it with food, wood chips and charcoal, light it, then check the meat temperature when you think it should be close to done.
Every year at Homecoming, members of the classes celebrating their 25th, 40th and 50th anniversaries of getting out gather for reunions to catch up with old friends and reminisce about the years shared together on campus. We asked some alumni to reflect on what those reunions mean to them.

Planning our 25th reunion, I've enjoyed reconnecting with Georgia Tech. It's been bringing back some fond memories. Tech gave me a foundation to be successful in my business. And I'm looking forward to seeing all of my classmates and rekindling those relationships. **Steve Zebruszki, EE 87, Alpharetta, GA.**

As my class nears its 40th reunion, my thoughts turn to all of the people who started at Tech with me. Living in Atlanta and being an active volunteer at Tech, I'm fortunate that I have the opportunity to see and work with many long-time friends. Our freshman football squad and SAE pledge class have both had well-attended reunions, so I have had the opportunity to build on those relationships. Just the few meetings of our reunion committee have also given me a chance to work with the mature version of other friends. I'm looking forward to Homecoming weekend. **Mead Sutterfield, EE 72, Atlanta.**

For all of us, our 50th reunion should be a seminal event in our lives. I have never met a Tech graduate who was not thankful for going through the “Marine Corps of Academia.” It was very tough, but the experience certainly made a difference in our lives. I cannot believe it has been 50 years. It seems like not that long ago because the memories are still very strong and the friendships are all like family.

I have enjoyed making phone calls to some of my former classmates and fraternity brothers to encourage them to attend our reunion events. We all should be keenly aware that about 20 percent of our graduating class is no longer with us. For some of us, this could be our last reunion, our last chance to renew old acquaintances and get caught up on each others’ lives. And if you have not seen the Tech campus recently, you owe it to yourself to do so.

I want our reunion party on Friday night to be very memorable. Our party co-chairs, Jere Drummond, IE 62, and Bill Knight, IE 62, MS Mgt 68, have put in a lot of work to create a special event. It is rumored that Marilyn Monroe and Elvis Presley are going to join us!

Whether or not you can attend your reunion, consider giving something back to Tech for the blessings you have received from being associated with this institution. There are numerous ways to accomplish that. We are very close to setting an all-time class donation record. We have been challenged by the class of 1961 to beat their record. So let’s challenge each other to step up for Dean Griffin, Coach Dodd, Fred Lanoue, George P. Burdell, the Ramblin’ Wreck and Buzz. **Parker H. “Pete” Petit, ME 62, MS EM 64, Roswell, GA.**
Maybe the most crucial game-day traditions are the ones that get the Yellow Jackets themselves ready to get down on the gridiron. Louis Young, junior cornerback and a business management major, walked us through his typical pre-game ritual, from wake-up to kickoff.

**for breakfast** I eat a bowl of Fruit Loops cereal, scrambled eggs and a couple pieces of bacon. I try not to eat too much. Sometimes I just eat the bowl of cereal and a banana. Always Fruit Loops.

You can then chill a little bit. Some people stay busy looking over the playbook, but I just relax while listening to music and going over some of the stuff from practice. I listen to Yo Gotti, Rick Ross, Future, Gucci Mane, Jim Jones, Jadakiss, and I always listen to DMX before every game. Always, that’s a must.

I take a shower, just sit, get dressed and listen to my music. That is about 45 minutes before the team meal. We eat our meal and our team chaplain comes in and gives us the message of the day. He talks to us and gets us amped up.

After that, Coach talks to us and we get ready to get on the bus. I call my dad and he prays with me over the phone, and he always says, “You’ll see me after the win.”

The bus ride for a home game has a little bit of traffic, but with our police escort it’s pretty much a straight shot. Then you hit that turn at the corner of Yellow Jacket Alley. You see all the tailgating and everyone on campus screaming and cheering you on. The offense gets off first. Then defense, we get off. With all the fans it’s just an extra boost of energy before you go into the locker room. I can’t even hear the fans, really, because I have my headphones blasting. The band is out there, the cheerleaders, the dancers and the cameras. It’s just exciting.

In the locker room, I set my stuff down and walk to the training room. I hit the hot tub for a little bit and talk to Doctor Rhino [Randy Rhino, IM 76, the legendary Yellow Jackets defensive back who’s now the team chiropractor] for a minute. He will set my back and all my tight muscles in order.

Then I get to see one of the trainers, Ish—she always tapes me. I always have to get taped by her. She tapes my ankles and then she tapes my wrists. She doesn’t do this for everybody; she twists the tape up at the end and then turns it around and gets a nice tight grip. After that I feel good.

Before you put your pads on you can go out onto the field. You can just walk around and get a feel for it. The other team is out there too. The fans are just starting to come into the stadium.

Then I go back to the locker room to get dressed. I line all of my stuff up before I do tape or anything. I put everything on and keep my music going. The special teams go out first. From there, skill positions and receivers walk out. Then the quarterbacks and linebackers and everyone go out. Then the linemen come out.

We have a little stretch on the field. Then each position lines up and does the same routine you would do in practice. There is all this extra excitement. Then we all come to the middle of the field and everyone gets hyped.

Then we go back in the locker room. By then the adrenaline is running and Coach comes in. He says, “Get up,” and talks to you to get you ready. After we break, I go off to the side to say a quick prayer right in my locker, and once I’m on the field I say another prayer.

Then it’s time to go, time to get ready. You come out into the tunnel and the Ramblin’ Reck is ready. You can hear the sound of the engine and see the smoke coming out. It’s game time after that.
alumni house
A group of Tech alumni stole the “T” from Tech Tower (or so they claim) and converted it into a car to race in the 2012 Red Bull Soapbox Race in Atlanta in June. Unlike many of the vehicles, the T—guided by driver Ta-Lee Shue, AE 08—successfully navigated the course along 10th Street just south of Piedmont Park. The team—which also included Chris Bentley, ME 05, Phys 05, MS MP 08; Charles Butterfield, MS ECE 01; Katie Butterfield, ME 03; Adam Churney, Mgt 08; Becky Crum, Mgt 08; David Harman, ME 07, MS ME 08; Sarah Hibbs, Bio 03, EnvE 10; Chris Keiser, EAS 07; and Chris Rankine, CmpE 05, MS IS 08—attached a RAT Cap to Shue’s helmet and painted “To Hell With Georgia!” on the back of the car.
For those alumni who would like to be a mentor but live far from Atlanta, Mentor Jackets has an easy e-mentoring program that allows alumni to have an impact on a student’s life from New York, Palo Alto and everywhere in between.

The seven alumni mapped at right all signed up as e-mentors and forged close bonds with Tech students through phone calls, emails and video chats. They helped students earn internships and commiserated about the challenges of academic life at Tech.

As the 2012-13 academic year begins, Mentor Jackets expects to grow to 1,200 pairs and needs 1,500 mentors by Aug. 26. Most pairs between alumni and students will be finalized in September and October.

Alumni from every industry, major and background are needed, but there’s particular interest among students for mentors with quantitative and computational finance degrees, those who work on Wall Street, those working in health care, those with graduate and doctorate degrees and young alumni.

The Alumni Association and student committee send content and discussion suggestions to mentor-mentee pairs, but mostly the partnerships are left to develop on their own. Pairs are encouraged to get in touch two to three times per month. That can be a meeting over coffee or, for alumni outside of Atlanta, a call or Skype session.

Want to be a mentor? Find more information and sign up online at gtmentorjackets.com or email mentorjackets@gtssa.com.

At its inception in 2003, the Mentor Jackets program joined 50 pairs of alumni mentors and student mentees. Since then, the program has grown exponentially, with a whopping 900 matches in the 2011-12 academic year.
Brite signed up for Mentor Jackets with the hope of connecting with someone in the auto industry. Sutherlin, a product design engineer at the Ford Motor Company, helped Brite gain a foothold in the field. “My mentor did an excellent job in refining my resume and interview skills and helping me just get through Tech,” Brite says.

“John has been a tremendous mentor, trusted adviser and friend,” Turnipseed says. “Although we have never met in person, I walk away from each of our conversations better equipped to succeed as my own career path continues to take shape. I feel very fortunate to have been paired with him and look forward to our continued relationship.”

Even from several states apart, Zelasky and Francis formed a close bond. “Beth has motivated me through difficult classes and kept my focus on the overall goal of a career,” Francis says. “She helped me understand how women in engineering have grown over the years and how to be successful in my summer internship and future plans.”

NEW YORK, N.Y.

Cook and Raisig shared monthly phone calls and regular emails that both found valuable. “Liz was a tremendous help in offering advice on how to perfect my elevator speech and how to network with professionals in my fields of interest,” Cook says. Raisig adds: “Beyond the feeling of giving back, I feel like I’ve personally gained from our partnership. The chance to coach her through the early stages of her career has helped me refine my skills as a manager.”

SOUTHBAYLED, FLA

MENTOR | John Morris, IE 65
MENTEE | Ben Turnipseed, MBA 12

“John has been a tremendous mentor, trusted adviser and friend,” Turnipseed says. “Although we have never met in person, I walk away from each of our conversations better equipped to succeed as my own career path continues to take shape. I feel very fortunate to have been paired with him and look forward to our continued relationship.”

WYNDMOOR, PA.

MENTOR | Beth Zelasky, ChE 81
MENTEE | Amanda Francis, ChBE student

Even from several states apart, Zelasky and Francis formed a close bond. “Beth has motivated me through difficult classes and kept my focus on the overall goal of a career,” Francis says. “She helped me understand how women in engineering have grown over the years and how to be successful in my summer internship and future plans.”
Alumni Association Appoints New Board of Trustees Members

The 2012 class of the Alumni Association’s Board of Trustees were elected this spring and installed in May. The 44 members of the Board of Trustees serve as the governing body of the Alumni Association. Trustees attend quarterly meetings and are actively engaged in initiatives and committees to further the mission of the Association.

Executive Committee

1. Chair: Walt Ehmer, IE 89, of Atlanta, is the president and CEO of Waffle House. He has served on Tech’s industrial engineering advisory board, the Georgia Tech President’s advisory board and on the board of the Metro Atlanta Chamber of Commerce. He is a College of Engineering Distinguished Alumnus.

2. Chair-elect and Vice Chair of Finance: Steve Chaddick, EE 74, MS EE 82, of Atlanta, is a mentor capitalist at Ridgewood Advisors LLC. He is a past member of the Alexander-Tharpe Fund board and a current member of the Georgia Tech Foundation board of trustees, the Georgia Tech Research Corporation board of trustees and the College of Engineering advisory board. He is a College of Engineering Distinguished Alumnus.

3. Vice Chair for Roll Call: Bob Stargel Jr., EE 83, of Alpharetta, Ga., is the vice president of Global Nonwovens for Kimberly-Clark Corp. He is responsible for the development, commercialization and supply of materials used to support Kimberly-Clark’s branded personal health and hygiene products.

4. Past Chair: Dean Alford, EE 76, of Conyers, Ga., is the president and CEO of Allied Energy Services LLC. He received the Dean Griffin Community Service Award in 2006 and is a College of Engineering Distinguished Alumnus. He was recently appointed to the University System of Georgia Board of Regents.

Members at Large

David Bottoms, Mgt 01, of Marietta, Ga., is a senior vice president of benefits at the Bottoms Group. He is a past trustee of the Alumni Association, past chair of the Young Alumni Council and past president of the 1st & 10 Georgia Tech Athletic Board.

Sharon Just, CE 89, of Atlanta, is president of Just Engineering Associates. She previously served as a trustee of the Alumni Association and chair of the Roll Call class steering committee. She is a current member of Tech’s civil engineering advisory board.

Sheri Prucka, EE 82, MS EE 84, of Park City, Utah, is the president of Prucka Engineering. She is a member of Tech’s engineering and electrical engineering advisory boards and the Georgia Tech Foundation board of trustees. She is a past chair of Tech’s biomedical engineering advisory board.
Call for Nominations
Gold & White Honors Alumni Awards

Each year the Georgia Tech Alumni Association recognizes alumni for exemplary service to Tech, the community and the world. Nominations are being accepted through October 1 for the Outstanding Young Alumni and Dean Griffin Community Service awards.

**Dean Griffin Community Service Award**
Recognizes a Georgia Tech alumnus/alumna who has performed exemplary community service. Nominees will be evaluated on the following four factors:
- Service in a long-term volunteer capacity
- Impact on the quality of life of others
- Leadership and creativity in dealing with societal problems
- Ability to serve as a source of inspiration for others

**Outstanding Young Alumni Award**
Honors a Georgia Tech alumnus/alumna who has not reached his/her fortieth birthday by February 21, 2013 and who has demonstrated outstanding leadership and service to:
- Georgia Tech and the Alumni Association
- The general welfare of his/her community
- His/her profession

Nomination forms are available online at www.gtalumni.org/awards
In my work as the CEO of Girls Incorporated of Greater Atlanta, people often approach me requesting help finding mentors, making connections and seeking new job opportunities. I have one consistent piece of advice for them: volunteer.

Why? It’s no secret that the benefits of serving your community extend far beyond helping people and places in need. Volunteering encourages you to hone existing skill sets, develop new ones and foster connections that strengthen and nourish your community—and those skills and connections may prove to be valuable assets in your professional life, too.

If you are currently employed, it’s important to make the most of the time and energy you spend volunteering. Are there areas of your professional life you’re looking to improve or additional skills that would benefit your work? (Your workplace performance reviews may serve as a roadmap here.) Seek out volunteer opportunities tailored to your interests and strengths, especially causes or organizations with training programs—think of it as free professional development.

You also want to consider where your existing skills may be of help. If you work in IT, for example, consider lending your know-how to a local nonprofit looking to improve their technology plan.

For those looking to make a career change, volunteering can give you a virtually risk-free chance to explore your interests in other fields—kind of like a grown-up internship. Years ago I thought I wanted to be an event planner, so I jumped at the chance to chair a major fundraising gala for a local nonprofit. But after managing that and multiple other events, I realized that event planning was not for me. Thank goodness I had the chance to “try it before you buy it” through volunteering. But in other cases, volunteering may confirm your desire to make a big career change.

If you are currently unemployed, there may be no better time to volunteer. Take advantage of this opportunity to develop skill sets relevant to your career goals, keep existing skills fresh, make connections with other volunteers that might be in your field and potentially set your resume apart in the competitive job market.

That’s another thing: Along with updating your professional resume, be sure to post your significant volunteer roles on your LinkedIn profile. Not only does it build your positive online brand, but it also adds valuable depth to your overall career snapshot. And take the extra step of asking your volunteer managers and peers to recommend your work. As a nonprofit leader, this is something I enjoy giving back to my volunteers.

And remember, even if you’re not in the office, it’s crucial to behave professionally. On more than one occasion I’ve seen people do and say things in a volunteer capacity that I cannot imagine they would dare replicate in a business setting. Your volunteer roles and contributions are an extension of your personal brand, and a great volunteer contributor can become a sought-after resource by fellow professionals.

Heather Rocker, IE ’98, is a past member of the Alumni Association Board of Trustees.

Looking for a volunteer opportunity? There are plenty of ways to give back alongside fellow alumni—like TEAM Buzz or the Alumni Admissions Program—listed at gtalumni.org/volunteer.
KUDOS!

The Alumni Association’s Networks and Affinity Groups depend on volunteer leadership to organize gatherings, fundraisers and community service projects. Here are a few leaders who deserve thanks for all of their hard work.

Dennis Frendahl, IE 83, Coca-Cola’s global procurement manager, is the founder and organizer of the Coca-Cola Georgia Tech scholarship golf tournament, which has raised more than $57,000 in the past seven years. He is treasurer of the Coca-Cola Georgia Tech Network, a mentor with Mentor Jackets, has participated in TEAM Buzz since 2004 and has donated to Roll Call every year since graduating. He is a congregation leader at Messiah Lutheran Church in Alpharetta, Ga., and has volunteered with numerous Atlanta-area organizations.

Laura Le, Mgt 06, now the scholarship co-chair of the Houston Georgia Tech Network, has been a dedicated member of the Network since graduating, including one term as president. She is also the events calendar manager for the Georgia Tech Young Alumni Council. Le has volunteered with the Big Brothers Big Sisters program and has spent two years as an English as a second language tutor at Literacy Advance of Houston.

H. Grady Thrasher III, IM 64, co-produced and co-wrote a documentary film, The World’s Smallest Airport, about the adventures of his father and uncles, who founded the Thrasher Brothers Aerial Circus in Elberton, Ga., in the 1940s. Over five years, Grady Thrasher Jr. and his brothers, Richard and Tunis, performed their act 394 times in cities across the country. Their most famous stunt was landing a plane on the back of a moving car, known as “The World’s Smallest Airport.” The film was screened around the South, including at the Alumni House on June 23 as a GT Military Affinity Group fundraiser. To view the film’s trailer, visit worldssmallestairport.com.

Bob Schack, AE 73, has inspired many alumni to stay connected to Tech through his years of dedication and leadership as the alumni adviser for the Georgia Tech Lacrosse Affinity Group. He works with coaches and alumni to help change the lives of students by raising donations to help support the lacrosse team’s Alex Kiehl Scholarship Fund, which provides four years of financial aid to selected athletes.

Errika Mallett, IE 96, went above and beyond as president of the Georgia Tech Black Alumni Organization. She has served as a mentor and role model to many Tech students and has been a champion for the growth and development of the Affinity Group program. She is a past member of the Alumni Association Board of Trustees and served as a chair of the 50th Anniversary of the Matriculation of Black Students at Tech.

Celebrating the World’s Smallest Airport

H. Grady Thrasher III, IM 64, co-produced and co-wrote a documentary film, The World’s Smallest Airport, about the adventures of his father and uncles, who founded the Thrasher Brothers Aerial Circus in Elberton, Ga., in the 1940s. Over five years, Grady Thrasher Jr. and his brothers, Richard and Tunis, performed their act 394 times in cities across the country. Their most famous stunt was landing a plane on the back of a moving car, known as “The World’s Smallest Airport.” The film was screened around the South, including at the Alumni House on June 23 as a GT Military Affinity Group fundraiser. To view the film’s trailer, visit worldssmallestairport.com.
The Georgia Tech Alumni Association’s Travel program is celebrating its 50th year in 2012, marking five decades of providing high quality educational travel opportunities for alumni and friends through its partnerships with select tour operators.

The Travel program’s inaugural trip, billed as “First Georgia Tech Holiday in Europe,” took place in May 1962. Organized by Roane Beard, IM 40, then executive director of the Alumni Association, the trip was a three-week tour of Western Europe. In the years since, thousands of Tech alumni and friends have enjoyed countless experiences on hundreds of trips across all seven continents. As one traveler said, “Traveling with Georgia Tech is a delightful way to see the world.”

Of course, the program has faced a number of challenges over time. I started as director of Travel the second week of September 2001. The morning of Sept. 11, there was a group of Tech travelers flying home to the United States around the time of the attacks, and I hurried to ensure they made it home safe and sound.

Such events may have caused people to have doubts and fears about traveling, but Georgia Tech alumni have remained resilient and continued to explore the world and support the program. The program has grown from a single annual trip to more than 30 excursions and about 500 travelers each year.

As I look back over my 11 years as director of Travel, I remember the wonderful people I’ve had the opportunity to travel with as well as the many others for whom I’ve been able to plan future excursions.

The Georgia Tech Alumni Travel program will continue to provide alumni and friends with enriching educational, cultural and recreational experiences and the opportunity to strengthen their connections to Georgia Tech and each other. A commitment to these fundamentals is the reason the Travel program is stronger than ever after 50 years—and it is this same mission that will carry us forward as we move into the next 50 years.
2013 ALUMNI TRAVEL TOURS

To mark its 50th anniversary, the Georgia Tech Alumni Travel program is offering a bevy of unforgettable excursions for 2013. And who better to globe-hop with than your fellow Yellow Jackets? For more information, contact Martin Ludwig, Director of Travel, at (404) 894-0758, (800) GT-ALUMS or martin.ludwig@alumni.gatech.edu, or check out gtalumni.org/travel.

Around Africa by Private Jet Jan. 10-Feb. 2
Expedition to Antarctica Jan. 17-30
Amazon Expedition Feb. 1-10
Asian Wonders—Oceania Cruises Feb. 2-21
Caribbean Discovery—Oceania Cruises Feb. 12-22
Tahiti and French Polynesia Feb. 21-March 3
Mayan Mystique—Oceania Cruises Feb. 22-March 4
Tanzania Migration Safari March 4-15
Israel and Jordan March 9-21
The Masters April 1-7
Civil War and Southern Culture—American Queen April 5-14
Holland and Belgium River Cruise April 19-27
Flavors of Tuscany April 28-May 3
Classic China and the Yangtze River April 30-May 13
Kentucky Derby May 2-5
Best of the Mediterranean and Greek Isles May 4-15
Celtic Lands May 9-18
Normandy with Paris May 19-28
Discover England’s Lake District May 30-June 7
Portrait of Italy June 4-20
Black Sea Odyssey—Aegean Odyssey July 15-29
Alaskan Discovery—Regents Cruises Aug. 7-14
Yachtsman’s Mediterranean Aug. 22-Sept. 1
Taste of Europe—Oceania Cruises Aug. 26-Sept. 6
Discover Switzerland Aug. 28-Sept. 12
St. Petersburg Sept. 8-16
Sorrento and the Amalfi Coast Sept. 11-19
Treasures of Peru and Machu Picchu Sept. 11-21
Canada and New England—Oceania Cruises Sept. 24-Oct. 6
Cradle of History—Oceania Cruises Oct. 7-18
Legendary Turkey Oct. 10-24
Eastern and Oriental Express Oct. 30-Nov. 12
Brook H. Byers, EE 68, was elected to the Stanford University board of trustees. He is a partner and venture capital investor at Kleiner Perkins Caufield & Byers in Menlo Park, Calif. He received an honorary PhD from Tech in 2010.

Philip T. Corbell, AE 68, had his master certificated flight instructor accreditation renewed. He is one of only 24 people worldwide to earn the credential six times.

Ralph Heard, ChE 60, was honored by the Richmond, Va., Alumni Network as an Outstanding Alum. He has served in leadership positions in the Wilmington, Del, and Richmond Networks since 1964 and is currently the Richmond Network secretary.

Edwin E. McBrayer, AE 68, was awarded the inaugural Doppelt Family Rail-Trail Champions Award by the Rails-to-Trails Conservancy for his work with the PATH Foundation of Atlanta and Georgia Department of Transportation. He was formerly a systems engineer in the NASA Skylab program.

Larry R. Westbrook, IE 67, retired as founder, president and CEO of PULS North America after 45 years in the power distribution, automation and industrial control industry. He will remain with the company as executive chairman and coach.

Paul Bleichner, Arch 76, joined Larson Design Group as director of marketing at their Williamsport, Pa., headquarters. Previously he was director of marketing for the architecture and design firm Cooper Carry.

Donald Albert Brannen, Psy 78, was listed as one of the Georgia Super Lawyers of 2012. He was chosen by his peers and through the independent research of Law & Politics magazine. He is an attorney with Fisher & Phillips LLP in Atlanta.

Charles H. Brewton, BM 73, completed his third trip to Vietnam, where he teaches MBA courses in international business and advanced marketing for the International Training Cooperation. He is the director of marketing for Tennessee State Parks in Nashville.

Stephen Bonasera, MS EE 88, is the 2012 recipient of the Joseph P. Gilmore Distinguished New Investigator Award at the University of Nebraska Medical Center. He is assistant professor of the internal medicine department in the division of geriatrics and gerontology.

Brent Darnell, ME 81, was awarded the title of Top 25 Newsmaker by Engineering News-Record. He was recognized for his use of emotional intelligence in the construction industry. He is the founder of Brent Darnell International.

Myeun Kwon, MS NE 86, PhD NE 90, was appointed as the director of the South Korean KSTAR fusion facility and all fusion research in South Korea.

Steve L. Lindsey, ME 89, and Francis N. Spears, CE 73, MS CE 80, were elected to serve on the Buckhead Coalition, composed of 100 business and civic leaders. Lindsey is president of Atlanta Gas Light and Spears is president of Balfour Beatty Construction Georgia.

Scott Jennings, ME 89, was recently named vice president of May Moeller Purcell Construction Company, co-owned by Mark Moeller, Mgt 85.

Robert “Bob” N. Stargel Jr., EE 83, was named one of Savoy magazine’s Top 100 Most Influential Blacks in Corporate America. He is the vice president of global nonwovens at the Kimberly-Clark Corporation.

Mickey R. Wade, MS NE 87, PhD NE 91, was appointed director of the DIII-D National Fusion Program, the largest tokamak research program in the United States.

Charles Berezin, PhD AE 95, was named a Sikorsky Aircraft Technical Fellow specializing in computational fluid dynamics in recognition of his 27 years of experience in aerodynamic methodology development and analysis.
Charles “Corky” Rogers, IM 70, recently began his 24th year as head football coach at Jacksonville’s Bolles School. And this August, when spring and summer training gives way to official gameplay, he’ll be defending his personal title of Florida’s winningest high school football coach. He’s ranked seventh nationally.

The stats? Last September Rogers hit win no. 400, and he ended the 2011 season with a total of 411.

This will be his 41st season as head coach of a football program. Before joining Bolles in 1989, he coached 17 seasons for Lee High School in Jacksonville, his alma mater.

At Tech, Rogers played as defensive back and wide receiver under the legendary Bobby Dodd.

Out & About

1. The Tech T catches up on the latest news.
2. Members of the Boston Georgia Tech Network take part in TEAM Buzz Day activities.
3. Reginald DesRoches, far right, chair of the School of Civil and Environmental Engineering, visits with alumni in Puerto Rico working on the Caribbean Hazard Assessment, Mitigation and Preparedness Project.
4. L-R: Scott “Doc” Horowitz, MS AE ’79, PhD AE ’82; Wayne Clough, CE ’64, MS CE ’65, secretary of the Smithsonian; and Alan Poindexter, AE ’86, were on hand as the space shuttle Discovery was brought to its new home in the Air and Space Museum. An obituary for Poindexter, who died in July, is on page 87.
5. Alumni pose next to a faux Ramblin’ Wreck during the graduate recognition and awards ceremony hosted by Georgia Tech-Savannah.
6. Members of the Georgia Tech Equestrian Society attend the Atlanta Steeplechase.
7. Buzz hangs out with some soon-to-be-alumni at the Ramblin’ On party, hosted by the Alumni Association for graduating seniors.
8. Houston Georgia Tech Network members prepare for their Pi Mile run.
The Engineer/Businessman/Poet Becomes the Teacher

Bruce McEver, IE 66, spent most of his days at Tech focused on engineering courses, but an English class he took with professor James Dean Young left a lasting impression on the young man.

McEver went on to earn an MBA from Harvard and founded financial services firm Berkshire Capital, but he carried an understanding of the connections between the mechanical arts and the fine arts that led him to endow the McEver Visiting Chair in Writing at Tech in 1999 and establish the McEver Program for Engineering and the Liberal Arts in 2001.

That longstanding support continued this spring when McEver—who has published three chapbooks of poetry and one collection, *Full Horizon*—returned to Tech to teach a seminar in the School of History, Technology and Society. “Witness to a Changing Conscience: Writing and Personal Transformation” (HST 3818) focused on “writing that witnesses to fundamental transformations in individual moral consciousness in a world transformed by scientific and technological development,” according to its syllabus. McEver made weekly trips from New York City to teach the course.

The course was co-taught with K. J. Knoespel, currently the McEver Professor of Engineering and the Liberal Arts at Georgia Tech, and included visits from a number of guest speakers, among them noted theologian Harvey Cox and Bill Foege, the 2012 recipient of the Ivan Allen Prize for Social Courage. In February, the McEver Poetry Reading featured poets Theresa Davis (one of the four 2012 McEver Visiting Chairs in Writing at Tech) and Chris Forhan, as well as McEver himself.
William “Walt” Bolton, ME 94, received the Mobile (Ala.) Area Council of Engineers’ 2012 engineer of the year award.

Bobby Grant Crawford, MS AE 94, won the 2012 ASEE National Outstanding Teaching Award. He is the director of the mechanical engineering program at the U.S. Military Academy.

Tara D. Elliott, CmpE 98, was named a 2012 Leadership Council on Legal Diversity Fellow. She is a principal for Fish & Richardson’s intellectual property litigation group.

David LaBorde, CE 97, is the CEO and co-founder of Iconic Data, named one of Inc. magazine’s Game-Changing Health Start-ups.

Eric Schieb, ME 92, and Wayne R. Yawn, ME 95, helped the Bimmerworld BMW team take first place in its class at Barber Motorsports Park during the Continental Tire Series race in March.

Rachelle Scott, IE 96; Jud Savelle, IE 02; and Tiffany Winn, CE 05, were listed on the Albany Herald’s “40 Under 40” list.

Shawn Shadfar, MS EE 98, the CEO and founder of omNovia Technologies, was spotlighted in the Houston Chronicle. His company offers next generation web and video conferencing solutions to customers such as the U.S. State Department.

2000s

Steven E. Blackwood, Bio 07, threw out the first pitch at the Tech baseball game on May 18. While an undergrad at Tech, he joined Jason Varitek as the only players in school history with more than 200 RBI and 200 runs. He was selected in the 2005 MLB Draft by the St. Louis Cardinals, but elected to return to Tech for his senior year.

Barbara M. “Barbie” Daymude, Mgt 07, joined the Kansas City, Mo., office of Bryan Cave LLP as an associate. She practices with the firm’s real estate and banking, business and public finance client service groups.

Jana Delfino, PhD BME 07, was the primary author of new FDA guidelines for CT radiation dosages for children. She works for the FDA in Washington, D.C.

Preeth K. Gowdar, IE 00, was selected to work with the United Nations to develop a publication on social enterprise and emerging market impact investing. He is a strategy consultant in New Jersey.

2010s

Michael Peterson, Mgt 11, a former defensive back on the Tech football team, had a show of his paintings at the James K. Holder [Arch 08, MS BC 10] Studio and Gallery in Atlanta.

Neela S. Ram, MS PP 10, M CRP 10, was part of the winning team for the 2012 AICP Student Project Award under the direction of College of Architecture professor Michael Dobbins. Ram is a senior environmental planner at the Atlanta Regional Commission.

WEDDINGS

1. Stacy Petaros Cox, TEM 99, and Dennis Gene Oswalt II, IE 00, were married on Feb. 11 in Atlanta. They are on an expatriate assignment with Walmart in Tokyo for two years.

2. Mark Warburg, ChBE 08, married Erica Nunziante on March 4 in New York City.
Welcomed a future Yellow Jacket into your family? Send a photo and note to ramblinroll@gtalumni.org.

1. Christopher Lee Cochran, CE 06, and Allison Ward Cochran, Arch 06, welcomed daughter Adeline Belle on Feb. 1. Chris is a civil site designer for Gaskins Survey Company in Marietta, Ga., and Allison is an intern architect for Lord Aeck & Sargent Architecture in Atlanta.

2. Kelly Farrell Crosby, HTS 04, and Justin Derry Crosby, EE 04, MS ME 06, welcomed daughter Caroline Sue on April 17. She joins her brother Jack, 2, at home in Cupertino, Calif. Justin is a senior audio engineer for Apple.


4. Darcy Delano Riley, IE 99, and her husband, Chris, welcomed daughter Sydney Madelyn on Nov. 27. They live in Houston.


6. Marijane Cauthorn Sanders, Mgt 00, and her husband, Montgomery, welcomed daughter Elnora Ruth on Sept. 1. Marijane recently passed the Georgia Bar and is an associate with the firm Cauthorn Nohr & O’Dell in Marietta, Ga.

7. Andrew Scholtens, Mgt 07, and his wife, Allison, welcomed son Charles Winton on March 27. He joins his brother, Brady Todd, 2, at home in Park City, Utah. Melinda is the national sales and marketing manager for Artisan Design Group in San Diego, Calif.

8. James F. Stovall IV, CS 01, and Christina Marie Stovall, ChE 01, welcomed daughter Anna Marie on April 6. If she or her brother Jay, 3, attend Tech, they will be fourth generation graduates.

Tell us what you’ve been up to

Have you changed jobs? Earned a degree? Won an award? Gotten hitched? We’d love to share the news with your fellow alumni.

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Clip the form above and send it to Ramblin' Roll, 190 North Ave. N.W., Atlanta, GA, 30313, or email it to ramblinroll@gtalumni.org. If available, please include a high-resolution photograph for publication.

Calvin Johnson, Cls 08, the celebrated Yellow Jackets wide receiver who now plays for the Detroit Lions, added another line item to his resume this spring: cover model. Johnson was chosen to grace the cover of Madden NFL 13, the latest installment in the mega-popular video game series. In 2011 Johnson had a career-best season and earlier this year signed an eight-year contract extension with the Lions.

CALVIN JOHNSON, MADDEN COVERBOY
1930s

John Nowlin McClain, ME 39, of Signal Mountain, Tenn., on May 7. Army (2nd Lt.), World War II. Director of manufacturing services, Combustion Engineering. Grandson: Christopher Vincent, CS 05.

George T. Rickett, IM 39, of Roswell, Ga., on May 22. Navy (Lt. Cmdr.), World War II. Chevrolet Motor Division of General Motors.

Samuel Noble Roberts, ME 38, of Atlanta, on Feb. 15.

1940s

William B. Bacon, EE 49, of Savannah, Ga., on March 8. Army, World War II. Savannah Sugar Refinery.


Thomas Ulic Burke, ME 45, of Charlotte, N.C., on March 6. Army, World War II. IBM. Helped develop computers that guided Gemini and Apollo space missions.


Joseph Dean Garrett, EE 48, of Tallahassee, Fla., on April 9. Budget director, Veterans Administration.


Edwin Dargan Johnston Sr., Cls 41, of Macon, Ga., on April 2. Army (chaplain), World War II. Brothers: Robert Johnston, ME 42; Stephen Johnston, EE 48, MS EE 49.


George E. Mena, IE 49, of Murrells Inlet, S.C., on April 7.


Dan Evans Sewell, CE 43, of Duluth, Ga., on May 8. Army (1st Lt.), World War II. Representative, Georgia House of Representatives.


B. Frank Smith Jr., ChE 48, of Tyler, Texas, on Feb. 2.


Harry Richards Thompson, IM 49, of Douglasville, Ga., on April 22. Navy, World War II. Teacher, West Fulton High School.


1950s


Winston H. Bratcher, EE 50, of Tampa, Fla., on April 24. Army (Master Sgt., Bronze Star), mobile records unit, World War II. IBM.


Theodore D. Buyer, Text 52, of Edison, N.J., on May 19. Army, Korean War. Executive vice president, SK Realty & Development Corp.


Robert D. Fannon Jr., IE 51, of Hilliard, Ohio, on March 15. Army Air Corps, World War II. Battelle Memorial Institute. President, Columbus Baptist Association.


Samuel Clay Franklin Sr., TE 58, IM 63, MS IM 64, of Wilmington, N.C., on April 14. Coast Guard (officer). Manager, DuPont Manufacturing.


In the years following World War II, Mr. Owens worked in nuclear power plant research and development at the Oak Ridge National Laboratory, and later shifted focus to nuclear propulsion systems. In 1955, he was one of 60 civilian engineers on the first sea trial of the USS Nautilus.

The eleventh registered nuclear engineer in the state of California, Mr. Owens worked for Atomics International and retired from Fluor Engineers in 1984 as Manager of Quality Assurance. Even in retirement, he continued to work as a consultant and as a proponent of nuclear power.

James Edwin Owens Sr., EE 43, of La Cañada, Calif., on May 10. After graduation, he worked at the Tennessee Eastman Corporation Y-12 plant that produced enriched uranium for the Manhattan Project, which produced the first atomic bomb.
Homer Wilson

ENGINEER AND PHILANTHROPIST

Homer B. Wilson Jr., AE 48, of Lacey’s Spring, Ala., on March 29. In the 1950s, he was a member of Wernher von Braun’s team at the Army Ballistic Command. Soon after, he began work at the newly formed NASA, where he worked on such programs as the Saturn V and the Space Shuttle.

Following his 1986 retirement from NASA, Mr. Wilson founded Aero Thermo Technology, which now has offices nationwide serving several United States armed forces. He established a nonprofit charity, Friends of the Children, as well as a scholarship for Georgia Tech students.

Freddie Haas Wood, Text 52, IE 53, of Atlanta, on April 8. ISyE advisory board. ISyE Academy of Distinguished Alumni Award.

John S. Tyson III, EE 52, of Savannah, Ga., on April 29. Navy, Electrical engineer, Army Corps of Engineers.


Freddie Haas Wood, Text 53, IE 53, of Atlanta, on April 8. Army, (2nd Lt.). Vice president of strategic planning, Kurt Salmon Associates. ISyE advisory board. ISyE Academy of Distinguished Alumni Award.


1960s


John S. Tyson III, EE 52, of Savannah, Ga., on April 29. Navy, Electrical engineer, Army Corps of Engineers.


Freddie Haas Wood, Text 53, IE 53, of Atlanta, on April 8. Army, (2nd Lt.). Vice president of strategic planning, Kurt Salmon Associates. ISyE advisory board. ISyE Academy of Distinguished Alumni Award.


Alan Poindexter, AE 86, one of the 14 Georgia Tech alumni to serve on a NASA space shuttle mission, died July 1 after a jet ski accident in Florida.

Poindexter, known as “Dex” to family and friends, graduated from Tech with highest honors and became a naval aviator, piloting the F14 Tomcat during operations Desert Storm and Southern Watch.

He was selected for astronaut training in 1998 and piloted the STS-122 shuttle mission in 2008. The crew delivered the Columbus Laboratory to the International Space Station.

In 2010, Poindexter served as commander of the STS-131 mission to deliver supplies to the space station. He logged 669 hours in space and traveled more than 11 million miles, including 441 orbits of Earth.

Poindexter retired from the Astronaut Corps in 2010 and was serving as the dean of students and executive director of programs at the Naval Postgraduate School.

The accident occurred in Little Sabine Bay at Pensacola Beach in Florida. Poindexter and his son Samuel were on a jet ski that was struck by a jet ski driven by another son, Zachary. Poindexter was knocked into the water and died later at a hospital.

“The NASA family was sad to learn of the passing of our former friend and colleague ...” NASA said in a statement. “Our thoughts and hearts are with his family.”
David C. Garrett Jr.

DELTA CEO AND STUDENT SUPPORTER

When David C. Garrett Jr., MS IM 55, started work at Delta Air Lines in 1946, he was fresh from Army Air Corps service in World War II and the carrier was a small, regional operation.

Over the next 41 years, Delta grew into the fourth-biggest U.S. airline and Garrett slowly made his way through the company’s ranks, from ticket seller to corner office. He retired as chairman of the board and CEO in 1987.

“Dave Garrett was the very embodiment of Delta: a keeper of its invaluable traditions but also a leader who led the expansion into the Western U.S., elevating the airline into a powerful national carrier,” said former Delta CEO Jerry Grinstein in a statement to the Atlanta-Journal Constitution.

To honor Mr. Garrett’s retirement, in 1987 Boeing Commercial Airplane Group established a Georgia Tech President’s Scholarship endowment, the David Garrett/Boeing Fund, to celebrate his service and achievements. The scholarship has supported a number of Wrecks over the years, and Mr. Garrett personally corresponded with and supported many of them.

Among others, he is survived by son David C. Garrett III, IM 70.

Howard Leon Mitchell Sr., ME 60, of Stone Mountain, Ga., on April 7. Air Force (mechanic), Korean War. Engineer, American Can Co. Son: Howard Mitchell Jr., ME 84.

Steven A. Norman, Text 69, of Toccoa, Ga., on Feb. 20.

Clement Francis Perschall Jr., IE 69, of New Orleans, on March 31. Trial attorney, Circuit Court of Appeals and several Federal District courts.

James G. Stein, MS AM 63, of Washington, D.C., on April 14. Software development, IBM.


Walter Andrew Wren, IE 68, of Covington, Ga., on May 1. Army (Sgt.).

George L. Zuidema Jr., MS CE 63, of Virginia Beach, Va., on April 22. Army Corps of Engineers. President, MMM Design Group.

1970s

Bonner Lee Baker, Chem 72, of Rutherfordton, N.C., on May 22. ER physician, University Hospital in Augusta, Ga. Internal medicine practitioner. Medical director, Coliseum Northside Hospital, Rutherford Hospital.


Erwin Fraas, IM 70, of Fayetteville, Ga., on April 13. Army. Vice president, Bank South. Chief information officer, Georgia Department of Labor.


Dave C. Johnson, Arch 71, of Atlanta, on March 20. Partner, Nix Mann & Associates.


Jesse H. Poore, PhD InfoSci 70, of Knoxville, Tenn., on April 25. Professor, University of Tennessee. Executive director, the Committee on Science and Technology, U.S. House of Representatives. Co-founder, Software Engineering Technology Inc.

James V. Thomas, EE 74, of Cherry Hills, N.J., on Feb. 25.

Alan Wood Vann, IM 78, of Kingwood, Texas, on May 13. Oil and gas industries. Project procurement manager, Chevron.

1980s

Adam R. Vakiener, CE 89, MS CE 90, of Fairfax, Va., on March 16. Southern A&E.


2000s

Mark Robert Hellinger, MS Mgt 01, of Winter Garden, Fla., on May 3.

Natalie Nikole Long, AE 05, of Seattle, Wash., on May 1. Aerospace engineer, Boeing.


2010s

Benjamin J. Connors, MS ECE 11, of Atlanta, on April 21.

Friends

Tracy Lynn Faber, of Atlanta, on March 24. Professor, Georgia Tech and Emory.

Harold “Chuck” Haubrich, of Fortson, Ga., on April 23. Army (POW, Purple Heart, Silver Star), World War II, Korean War, Vietnam War. Georgia Tech Athletic Department.

Holcombe “H.T.” Marshall, of Decatur, Ga., on May 10. Air Force (Capt.), World War II. Former director, Georgia Tech Department of Internal Auditing.

Sharon E. Poehlein, of Alexandria, Va., on May 4. President, Georgia Tech Faculty Women’s Club. Husband: Gary Poehlein, former director of the School of Chemical Engineering. Son: Steven Poehlein, MS ChE 84, PhD ChE 88.
Want to join the Tech 100 Business Club? Contact Holly Green at (404) 894-0765 or holly.green@alumni.gatech.edu.
Want to join the Tech 100 Business Club? Contact Holly Green at (404) 894-0765 or holly.green@alumni.gatech.edu.
Hugh Inman Grant, who died in 1906 at age 10 after a bout of appendicitis, was a typical boy who loved playing outdoors, picking vegetables from his family’s garden and riding in his goat-drawn cart.

He was the son of John Grant and Annie Inman, whose marriage brought together two of Atlanta’s most powerful families. In the years after the Civil War, the Grants made their mark in real estate and railroads. The Inmans had established business in the cotton trade, then invested in real estate, banks, railroads, street cars and insurance. (Atlanta’s Inman Park neighborhood is one of the many local spots that still bear the family name.)

The summer of Hugh’s death, Georgia Tech received $17,500 from the state legislature to enlarge the campus. Most of these funds were used to purchase the plot of land that stretched between Fowler Street and Techwood Drive and Kimball Street and North Avenue—the area that now is home to the football field.

In 1913, when Hugh would have been nearing college age, his father (a University of Georgia alumnus) donated $15,000 for the construction of concrete stands on the west side of Tech’s new athletic field.

The field served both the football and baseball teams and was unequaled in the South at the time. The following year, Grant donated another $20,000 to complete the stands on the west side to accommodate 5,600 more spectators.

The field was then known as The Flats, but the Board of Trustees soon opted to rename the facility to show their appreciation for Grant’s support. On Nov. 18, 1916, before football kickoff, it was dedicated as The Hugh Inman Grant Field. It was three days shy of what would have been Hugh’s 21st birthday.

The Grant family’s support of the field did not end there. In 1920, the relationship between Tech and the Peters Land Company became strained when the Institute failed to purchase what is now the northern half of Grant Field. John Grant, then a member of Tech’s Board of Trustees, came through once again, donating $50,000 to end the school’s obligation to Peters Land Company. (Grant served on the Board of Trustees from 1918 to 1928, then as chairman from 1930 until 1932, when the trustees were superseded by the state Board of Regents.)

After Grant’s second donation, it was another eight years before the east side concrete stands were completed. At that point, the stadium and field together was one of the largest gathering places for crowds in Atlanta and hosted such events as Lindbergh Day in 1927 and the dedication of Techwood Homes, the first public housing project in the nation, by President Franklin D. Roosevelt in 1935.

So as the hot days of summer give way to cooler autumn breezes and the cheers of the gridiron clash, take a moment to remember the namesake of Grant Field—not a star player or winning coach, but a young boy who was gone too soon.

Have a Tech memory to share? Send written pieces to Editor, Georgia Tech Alumni Magazine, 190 North Ave. NW, Atlanta, GA 30313, or submit by email to publications@gtalumni.org. Entries will be selected for publication in the magazine and at gtalumnimag.com.
Clockwise, from top left: Prison laborers work on the site of Grant Field around 1905; fans form a T during a 1919 halftime show; the crowd cheers for the Yellow Jackets during a 2007 home game; players run onto the field, circa 1920. Photos courtesy of Tech Archives and Records Management.
Have a Tech artifact to share? Send a photo and note about the item to publications@gtalumni.org.
In 1927, a young man by the name of George P. Burdell enrolled at Georgia Tech. Since then, he’s gone on to a few notable accomplishments: multiple degrees from the Institute, military service, serving on Mad magazine’s board of directors and being cheated out of Time magazine’s 2001 Person of the Year award, to name a few. To celebrate the 85th anniversary of his enrollment, the Alumni Association’s Living History program has installed an exhibit on Mr. Burdell in the Alumni House. For those who can’t make it to see the exhibit, here are a few of the items on display.
DEAR GEORGE,

Who is invited to your anniversary party?

CHASE WRIGHT, MGT 10
FORT LAUDERDALE, FLA.

Dear Chase, Hard to believe it’s been 85 years since I came to Tech! We’ll be having a celebration during Homecoming at the Global Learning Center at 12 p.m. on Oct. 26. Thanks to the Alumni Association for hosting it! Everyone’s welcome, but I’ve sent special invitations to Stumpy’s bear, Sideways, Buzz, the other G. P. (President G. P. “Bud” Peterson, that is), Megatron and my pal Alfred E. Neuman. G. P.

DEAR GEORGE,

How many consecutive years have you given to Roll Call, Tech’s unrestricted academic annual fund (which supports the academic mission of Georgia Tech, including scholarships, curriculum enhancements, innovative research, top-notch facilities, etc., and enhances the value of every Tech degree)?

N. JONES, ATLANTA

DEAR MR. JONES,

Since Roll Call is now in its 66th year, of course I’ve given for 66 consecutive years. I make sure to send in my gift to one Nate Jones, the Alumni Association’s director of Annual Giving. I see that you two share a last name. What a funny coincidence. G. P.

DEAR GEORGE,

Have there ever been any songs written about you?

CHRIS KING, EE 90, MEMPHIS, TENN.

DEAR CHRIS,

I cannot confirm rumors that Carly Simon was thinking of me when she wrote “You’re So Vain.” However, at a party at Bob Seger’s place in 1977, Chuck Leavell of the Allman Brothers Band did admit that I served as inspiration for “Ramblin’ Man.” G. P.

DEAR GEORGE,

Back in ’69 or ’70 you signed up for every class. Just how many did you pass for credit?

RALPH CHANEY, PHYS 74, MEMPHIS, TENN.

DEAR RALPH,

You’ll have to forgive me, but everything that happened before that night at Seger’s house is a bit hazy. G. P.

DEAR GEORGE,

Have you ever been married? If not, why?

BETSY WALLACE, ARCH 96, ATLANTA

DEAR BETSY,

Depends on who’s asking. G. P.

Have a burning query for George P.? Email him at georgep@gtalumni.org, post it on Facebook (facebook.com/georgiatechalumni) or tweet it to @gtalumni.
These are just a few examples of where Roll Call funds are utilized, and their significant impact at Georgia Tech. Gifts to Roll Call benefit virtually every one of Tech's academic programs.

Unrestricted Roll Call contributions provide a vital and necessary stream of annual support. Your gift goes directly to the bottom line to better serve students, address unexpected issues, and capitalize on breaking opportunities. It even enhances the value of your Tech degree. **Please Give Today!**

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- **Hands-on experience for students, such as those in the school of Civil and Environmental Engineering.**
- **The purchase and development of Technology Square, which transformed Tech’s campus**
- **World-class instruction and curriculum**
- **Rewarding student life programs and initiatives**
- **Groundbreaking research in the school of Biomedical Engineering that can save and improve lives**
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- **Rewarding student life programs and initiatives**
- **Groundbreaking research in the school of Biomedical Engineering that can save and improve lives**

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