

GeorgiaTech



Alumni Magazine

November/December 2009

Doctors Agree
Tech Delivers

"At Tech, I learned a structured approach to problem solving, organizational skills, and the value of hard work—and I wanted to give something back to the school."



Lawson J. McConnell Sr. (left) and L. Jackson McConnell Jr. (right)



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Lawson J. McConnell Sr., IM 1959

Elberton, Georgia

- Native of Royston, Georgia.
- Member of Chi Phi fraternity and Naval ROTC at Georgia Tech.
- Attended Navy Supply Corps School in Athens, Georgia, and Georgia Banking School.
- More than 47 years in community banking with First National Bank in Elberton, Georgia, which merged with Tri County Bank to become Pinnacle Bank; worked in all phases of banking from teller to president, CEO, and chairman of the board.
- Has been a member of the Elberton Rotary, Elberton Chamber of Commerce, Board of Directors of the Salvation Army, and the Development Authority of Elberton, Elbert County, and Bowman.
- Father, T. Lawson McConnell, COM 1928, also graduated from Georgia Tech.
- In 1961 married Patricia Winn of Kalamazoo, Michigan; two children, Kathleen M. Korotzer and L. Jackson McConnell Jr., MGT 1988; four grandchildren.
- Hobbies include fishing, hunting, and working on his tree farms.

Gifts to Georgia Tech

- Roll Call support for 44 consecutive years.
- Established the McConnell Family Endowment for the Technology and Management Program in the College of Management in memory of his father, Lawson McConnell, in honor of his son, Jackson McConnell Jr., and in honor of his 50th Reunion; also named the McConnell Family Endowment a beneficiary of his retirement plan account.

Thoughts on Giving to Tech

"Over the years, being a graduate of Georgia Tech has meant much to me. At Tech, I learned a structured approach to problem solving, organizational skills, and the value of hard work, and these lessons—learned both in and out of class—have been my inspiration throughout my career. I wanted to give something tangible back to the school, and visits to the College of Management at Tech convinced me that this was the place where my support could make a difference."

Jack McConnell is among Founders' Council's 1,024 members who have made estate provisions or life-income gifts in support of Georgia Tech's future.



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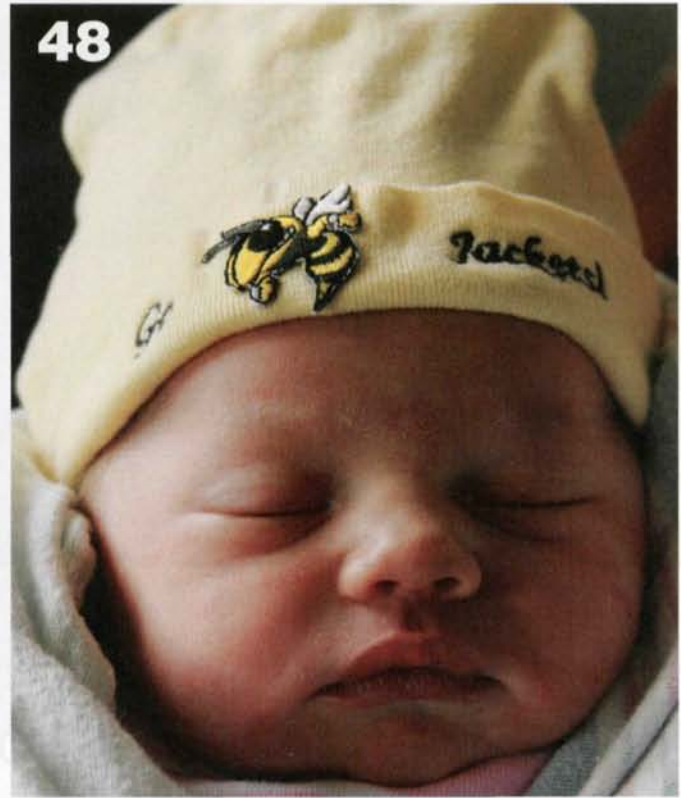
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Craig LaRotonda



J Chris Campbell

42 Mission Zero

In his newly published book, *Confessions of a Radical Industrialist*, carpet manufacturer Ray Anderson explains why he steered his company on a course toward sustainability.

48 Life's Work

Among them, four Tech-trained obstetricians/gynecologists have delivered more than 28,500 babies, including Sophia Lee, above, born to Adriana and John Lee, MSE 00, on Aug. 4.

58 Future of Infrastructure

More than 125 faculty members are working on disaster resilience, new materials, water, transportation, energy and green building to help construct the cities of the future.

“I returned to Tech for my MBA because I wanted faculty who could help me translate my strong analytical skills to business, classmates who aspired to be leaders, and a school that is known for producing students who roll up their sleeves and get the job done.”

Emily Muhlberger, MBA Class of 2009;
Quality & Productivity Consultant,
Bank of America; BS Mechanical Engineering,
Georgia Institute of Technology, 2004



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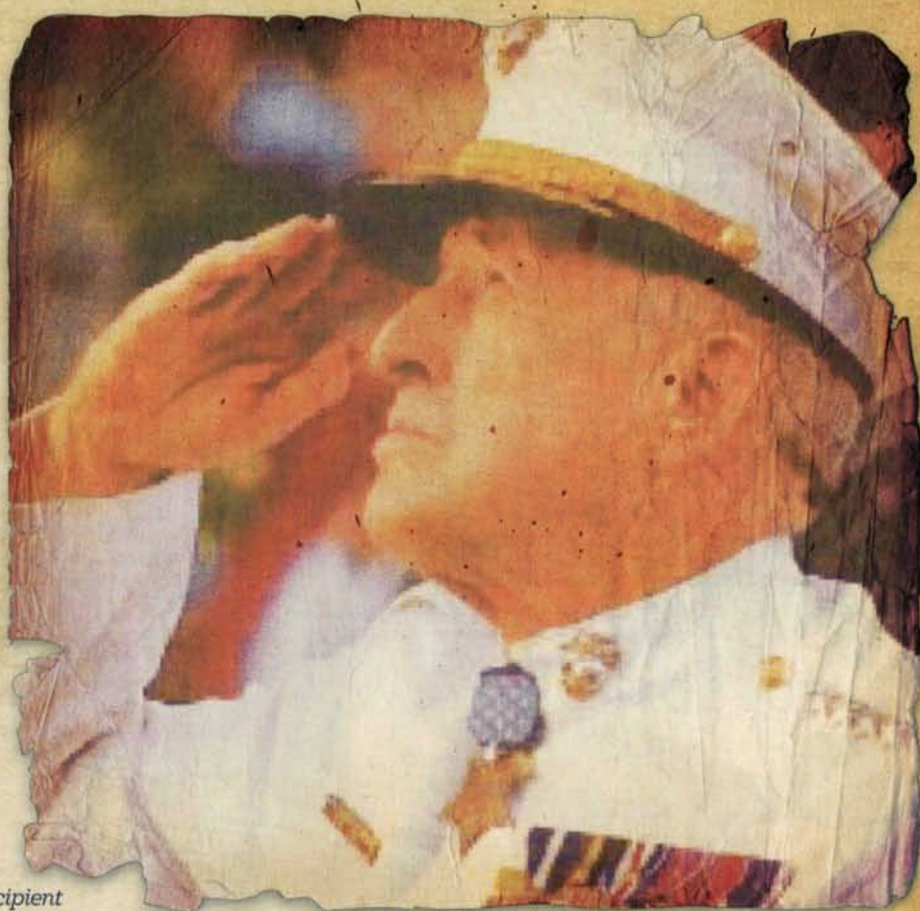
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the CORNERSTONE OF ROLL CALL IS LEADERSHIP

"The discipline of an education at Georgia Tech and its hands-on approach certainly prepared me to be a leader. Strong leadership principles—and they never change—along with adversity and good role models made me able to do things I might not have done otherwise."

General Raymond G. Davis, ChE 1938

Four Star General, U. S. Marine Corps, Medal of Honor Recipient



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 Presidents' 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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GEORGIA TECH ALUMNI ASSOCIATION • 63rd ANNUAL ROLL CALL



Georgia Tech Alumni Magazine

Volume 86, Number 2

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Engineering Tech's Past, Present and Future

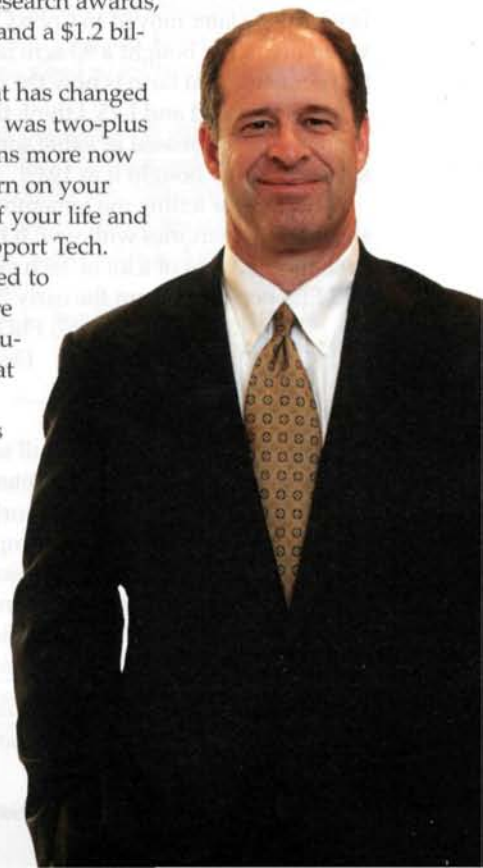
We said goodbye to a longtime friend and leader of Georgia Tech's alumni in September. Buck Stith, CE 58, passed away after a courageous bout with cancer. Buck was the kind of guy who lived life with great passion and energy, a wonderful sense of humor and a sharp intellect. His service to Georgia Tech was extraordinary, and we honored him with the Joseph Mayo Pettit Alumni Distinguished Service Award in 2004. He served in numerous leadership roles including a term as president of the Alumni Association. His last leadership role was chairman of the Georgia Tech Foundation, and during his tenure we broke ground on Technology Square — one of Tech's "crown jewels." Technology Square is an amazing tribute to all alumni because its construction was entirely funded through the leveraged use of our collective philanthropy (including Roll Call) and investments in the Foundation over the years. He was indeed a Ramblin' Wreck from Georgia Tech and a helluva engineer. We'll miss his bright smile and booming voice.

President Peterson's investiture was a great event that honored the past while providing a platform for the future. He is our 11th president and already has begun to put his imprimatur on the campus community. President Peterson began a strategic planning process to look at what Georgia Tech should look like in 25 years. It's a yearlong effort engaging the entire community. On the afternoon of the investiture, more than 700 alumni, faculty, staff, students and friends participated in the effort to "blue sky" what Tech might become years from now. Admittedly it's a difficult challenge because we're all fighting economic "forest fires," and it's hard to get out of that mode. That being said, if you look back 25 years, you'll see that an amazing transformation occurred:

Twenty-five years ago, we had 11,000 students, four colleges, 500 faculty members, \$66 million in research awards, 4.6 million square feet of campus space and a \$174 million budget. Today we have 20,000 students, six colleges, 925 faculty, \$483 million in research awards, 14.5 million square feet of campus space and a \$1.2 billion budget.

We have grown but far more than that has changed — this is a much better institution than it was two-plus decades ago. A Georgia Tech degree means more now than ever before. That's a significant return on your investment of four (or five or six) years of your life and another reason for you to continue to support Tech. The future is bright and we as alumni need to make sure that a Tech degree is even more valuable 25 years from now. Your contributions to Roll Call will help accomplish that goal. This is our 63rd year of Roll Call. Tech alumni have led the nation for years in participating in this annual fund drive. Thank you for your generosity to Tech and the Alumni Association.

Joseph P. Irwin,
President of the Georgia Tech
Alumni Association



Letters

That's My Dad

I was looking through the September/October edition of your magazine when I came to the picture on page 62 of the network calculator. The person in the foreground is my late father, Herbert P. Peters, who ran the network calculator for the Engineering Experiment Station. The person standing in the rear is Bob Loomis, who worked for Georgia Power. I do not recognize the other seated person although I'm sure his name would be familiar if it were mentioned.

My father worked as an electrical engineer for Westinghouse in Pittsburgh in the 1940s. He helped build the network calculator at Westinghouse, then was hired by Tech in 1947 to move, install and operate it for the customers using the calculator. He retired in 1967 when the calculator began to be replaced by early computers. The calculator took up two large rooms in the EES behind the ROTC shooting range. I suspect it was so powerful it could be replaced today with an ancient 286 processor in a desktop computer.

When we moved from Pittsburgh to Atlanta, we were among the first residents of the Burge apartments. I believe Uncle Heine lived in the apartment across the hall from us. We later moved to Cobb County when my father bought a 90-acre farm for \$60 per acre. That farm is now the corner of Windy Hill Road and I-75. I think the property has increased in value somewhat since my father bought it in 1949!

Thanks for letting me remember and share these memories with you. It brings back recollections of a lot of Tech professors and EES personnel from the early '50s.

John P. Peters, Chem 67, PhD Chem 74
Decatur, Ala.

Mine Too

This is to augment the e-mail sent to you by my brother, Dr. John P. Peters.

The Westinghouse AC Network Calculator was a huge analog computer developed by Westinghouse in the mid-1930s. Only three of them ever went into commercial use — one at Westinghouse's



facility in Pittsburgh, one at Texas A&M and the one at Georgia Tech in 1947.

Its purpose was to allow power companies to set up and analyze various proposals for future electrical transmission power grids using the "power" of the analog computer (thus the descriptor "AC Network"). As can be seen in the picture, it was a mass of switches, knobs, dials and plug-in connectors. Power companies, including Georgia Power, Duke Power, Florida P&L, Alabama Power, Gulf P&L and Southern Services, utilized the unit almost 100 percent of the year. Although the computer produced the final result, there was a huge amount of human effort required to set up the computer (being analog) before any numbers could be crunched.

With the advent of digital computers, the unit at Georgia Tech became outmoded and was taken over by Georgia Power in the late '60s and moved to its facility on 10th Street. Too bad — this forced my father into a happy early retirement playing golf and traveling until he passed away at age 92 in 2004.

Charles A. Peters, ChE 64, MS ChE 65
Cartersville, Ga.

Help Was Appreciated

I read with a lot of personal interest the article on the Engineering Experiment Station (now the Georgia Tech Research Institute) that appeared in the September/October issue of the GEORGIA TECH ALUMNI MAGAZINE.

In the late '60s, I was a co-op student working for the EES in its radar branch. Most of my work consisted of helping with experiments (changing horns on radar antennae on towers, etc.).

The highlight was to spend the winter quarter in Boca Raton, Fla., at a radar test site on the beach.

I would help the resident engineer as we tested various configurations based upon directions provided by Atlanta. I even had the opportunity to spend three days on a destroyer in the Atlantic with a team of engineers tasked by the Navy to evaluate two competing radar designs in real world conditions.

I learned a lot from all of the people I worked with and really appreciated their patience with a co-op student who struggled all the way through Tech.

John Ivey, IE 71
Canon City, Colo.

Send letters to: Editor, Georgia Tech Alumni Magazine, 190 North Ave. N.W., Atlanta, GA 30313, or e-mail editor@alumni.gatech.edu. Send address changes to: Biographical Records, Georgia Tech Alumni Association, 190 North Ave. N.W., Atlanta, GA 30313, or e-mail bioupdate@alumni.gatech.edu.

Congratulate Stewart Cink

Thanks for your new ALUMNI MAGAZINE — interesting articles about great students.

Are you planning to congratulate Stewart Cink on his victory? He, Bobby Jones and David Duvall each won the British Open. My late husband, "Duck" Swann, was the first foreigner to win the British Senior Amateur Championship. They're all Tech grads.

I still enjoy trying to keep up. There's been quite a change in Atlanta and Georgia Tech since we were living in the Callaway Apartments in 1948!

Martha Swann
Spartanburg, S.C.

An interview with Cink is on page 82.

Great Job on Magazine

I was amazed, impressed and thrilled by the new publication. I graduated 42 years ago, but I believe this is the first time I read the ALUMNI MAGAZINE from cover to cover. Great job.

Will it change my giving (or lack thereof)? Maybe, maybe not, but it did get me thinking about Tech again. My congratulations and thanks to the editorial and publishing team.

Willie J. Goldwasser, EE 67
Newton, Mass.

Bring on the Walk-ons

This is an inquiry concerning the Georgia Tech football squad. Specifically, what proportion of the team was recruited and what proportion consists of walk-ons?

The recruited members of the team, as I see it, are those whose primary interest is in playing football — nothing wrong with that — and would like to get a good college education for free as well. Some in that category would consider their Tech football experience to be a stepping-stone to a career in professional football.

The walk-on members of the team (if there are any) are those whose primary interest was to enroll in Georgia Tech to get a good college education and found that they had enough time from their studies to try out for a position on the football team as their major athletic activity. Now, at some

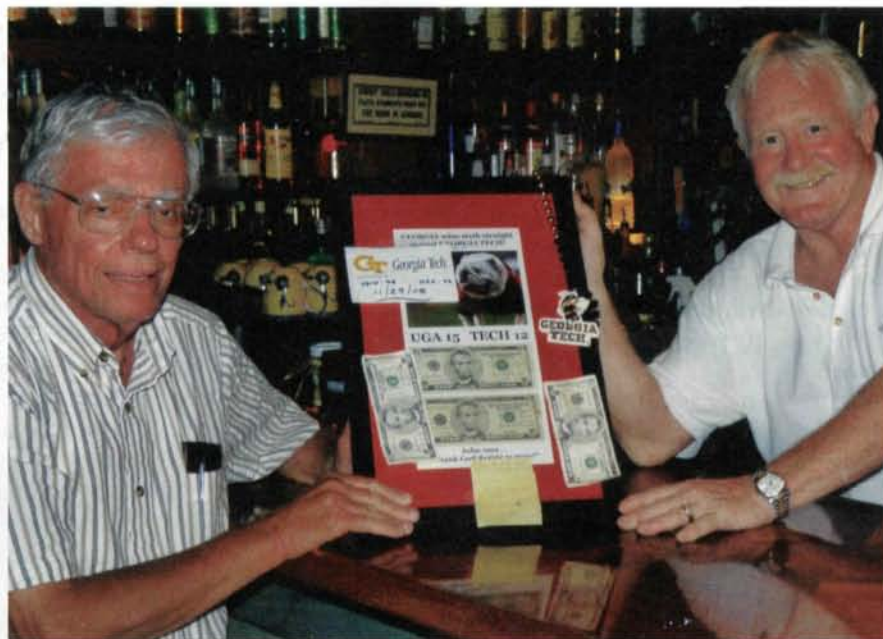
time in the distant past, the walk-ons constituted the whole team, and it would be of interest to know just how long ago that was.

Frankly, I would like to see Georgia Tech cease recruiting and return to those good old days of having a walk-on team. So Tech wouldn't win many — if any — games and might be kicked out of the conference. So be it. Just remember that

old saying: "It's not whether you win or lose but how you play the game."

Bob Pardee, ChE 43
Boulder, Colo.

College football teams began giving out scholarships in the years after World War II. Georgia Tech's roster this season is made up of 80 scholarship players and 40 walk-ons. The NCAA allows 85 scholarships, but Tech is limited by rules infractions committed from 1998 to 2005.



Fine Food for Tech and Georgia Fans

I read with interest the article in the Fall 2008 issue about John Howton (GMgt 73) and his Blackwater Grill on St. Simons Island, and because I was planning to vacation on the Georgia coast this summer, I saved it as a reminder to visit the restaurant while in the area.

My daughter, Jane, and I did indeed eat at Blackwater Grill in July, and it was a great experience. As we walked in, we saw John right at the front podium. I identified myself as a Tech alumnus and showed him the article that brought us there. He personally seated us and described the menu, but I already knew what I would order: shrimp and grits (What else?), the item described so glowingly in the article. It was wonderful!

After dinner, he showed us the famed UGA bulldog photo, which still hangs over the bar despite Tech's defeat of Georgia last November. The enclosed photo shows the framed photo, with John on the right and me on the left. Note that a new sticker commemorating Tech's victory last fall has been placed on the photo!

I strongly recommend Blackwater Grill to my fellow Tech alums and even to those UGA fans, if any, who appreciate fine, unique food.

Jess Cleveland, Chem 51
Boulder, Colo.

Professor Was My Grandfather

I just wanted to thank you for your article about Edwin Folk in the September/October 2009 issue of the GEORGIA TECH ALUMNI MAGAZINE. Professor Folk was my grandfather, and it was a pleasant surprise to turn the page and see an article about one of my ancestors. I remember being there at the ceremonial opening of the [Edwin H. Folk Residence Hall] in 1969 with my parents and grandmother.

He died a little over a year before I was born, so I never knew him. But thanks to his public speaking classes at Tech giving him access to a recording studio, I am at least able to hear his voice.

Occasionally, he would take the family into the studio on the weekends, and they would record themselves speaking, playing

music and simply conversing. So not only do I have recordings of him, I have recordings of my grandmother, my mother (at age 3) and my two uncles.

A note about the famous debate [with Folk as the adviser to the Tech Debating Society] that has been passed down by word of mouth: The Tech team learned some of Harvard's football cheers. One of them had a phrase like "boo-la boo-la boo," and the Tech team extolled the virtues of the camaraderie achieved by a group of young men singing "boo-la boo-la boo" as one.

This point not only mocked the Harvard team but put them in a position where if they countered against it, they would be putting themselves down. This really caught them off guard.

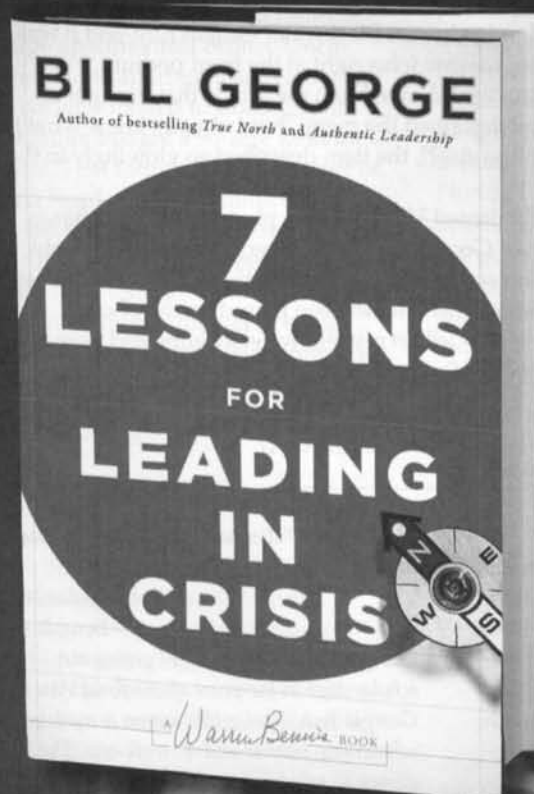
Ted Baskin, CS 96
Marietta, Ga.

No Longer With Us

In reference to the letter in the last issue from Harlow E. Lichtwardt [Where Are the Older Alumni?], most of the graduates of the 1940s have passed their life expectancy and thus are no longer with us. Some were lost in World War II or Korea. Some World War II veterans returned early enough to graduate with me, but most were at Tech in the late 1940s and were older than other students.

A Navy V-12 student, I graduated at age 20. I was grateful for the opportunity to win a regular Tech degree but never felt loyalty or school spirit. I was eager to return to California and subsequently attended Stanford. I believe other naval students went home to begin civilian lives as I did. I like to read of them but don't expect much.

Frederick H. Matteson, AE 46
Hollister, Calif.



Bill George

Georgia Tech
B.S.I.E., 1964

Ph.D. 2008 (Honoris Causa)

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Young Alumni Reunion

Enjoy the Views at the Places To Be Seen

By Kimberly Link-Wills

Young alumni, those who graduated from Tech between 1999 and 2009, will be among the first party guests at downtown Atlanta's newest rooftop venue.

Located atop the Hilton Garden Inn at 275 Baker St., Ventanas lives up to its name — windows in Spanish. Opened just this fall, Ventanas offers sweeping views of the city and the Georgia Tech campus throughout the outdoor and indoor gathering spots.

Young Alumni Council president Cayman James, CE 99, MS EnvE 01, anticipates a fabulous cocktail party at Ventanas, where Tech's newer and newest graduates will reconnect from 8 to 11 p.m. Nov. 6 as part of the Young Alumni Reunion.

"Milestone reunions occur starting at 25 years after graduation. A young alumni-specific reunion gives young alumni the opportunity to reconnect sooner and more regularly to their peers and to Georgia Tech," James said.

The reunion actually begins earlier in the day on Nov. 6. Between 8 a.m. and 3 p.m. young alumni can participate in free one-on-one 40-minute career advisement sessions at the Alumni House, 190 North Ave., also the site of a "networking tune-up" from 3:30 to 5 p.m. that will include free wine, beer and snacks.

"Young alumni make up an ever-increasing demographic of the alumni population, and it's important to engage this group as early as possible after graduation," James said.

Young alumni are encouraged to turn out at tailgating parties before the football game against Wake Forest on Nov. 7. Two and a half hours before kickoff, James and fellow Young Alumni Council members will comb campus in the Alumni Association's "Techmobile" (golf cart) handing out prizes at tailgating parties hosted by Jackets who graduated within the last decade.



Eric Turner

Young Alumni Council president Cayman James will be a host at a rooftop cocktail party at Ventanas.

Through the Alumni Association's registration site, gtalumni.org/youngalumni, game tickets may be purchased in the block reserved for Young Alumni Reunion participants.

The fun won't stop at the end of the fourth quarter. Young alumni will meet up after the game at Engine 11 Firehouse Tavern, within walking distance of Bobby Dodd Stadium at 30 North Ave.

"See you next year" valedictions will be delayed until Sunday, Nov. 8, thanks to a Bloody Mary and bagel breakfast from 9 to 11 a.m. at the Alumni House.

Young alumni really don't have to wait

until next year to reconnect with their classmates. The Georgia Tech Young Alumni group on Facebook is nearing 2,500 members. The Alumni Association also encourages involvement with the Young Alumni Council. Information is available at gtalumni.org/youngalumni.

"Alumni involvement and support in the past brought Tech to where it is today," James said, "and our willing involvement with Georgia Tech and the Alumni Association ensures continued success of the institution, which ultimately enhances the value of our degrees and sets the stage for success for generations to come."

Georgia Tech Alumni Association: Year in Review

Dear fellow alumni and friends,

As we wrapped up the Alumni Association's centennial celebration, you may have seen 25 life-size, beautifully decorated Buzz statues on campus. The program called Buzz Around Town was a terrific success in building great spirit and branding for Georgia Tech, and we raised some money for campus groups as well.

That's just one thing your Alumni Association accomplished during this very difficult year. We also helped alumni in their career searches, communicated the great progress and accomplishments of your alma mater and fellow alumni, staged events to celebrate the traditions of Tech and raised \$7.5 million from 28,000-plus alumni and friends to benefit Georgia Tech.

Your Alumni Association builds "community" for Georgia Tech



and for you. This institution would not be what it is were it not for a robust and passionate alumni body. And why do we care? Well, for many of us, Tech was a transformational experience that, to this day, continues to positively influence our lives. That's a significant return on investment, and as you know, investments have to be managed and nurtured or the returns decline.

As alumni of this great institution, your support through advocacy, student recruiting, philanthropy, hiring our graduates and overall passion for Georgia Tech make all the difference. And for that we're very grateful.

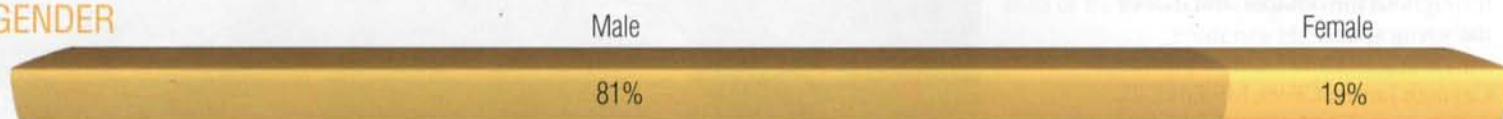
Sincerely,

Bill Todd, IM 71

Chair of the Alumni Association for fiscal year 2008-09

TOTAL LIVING ALUMNI: 122,879

GENDER



CLASS DECADE



GEOGRAPHY



ETHNICITY



COLLEGE



INFORM

The Association is focused on the proactive collection and management of Georgia Tech's alumni records. This information is the heart of our ability to connect and inform our alumni.

• Fields managed in the alumni database	55,349,861
• Records managed in the alumni database	149,191
• Biographical record updates this year	110,787

The Association helps alumni celebrate the aspirations and accomplishments of the Institute as well as showcase fellow alumni. We communicate opportunities for alumni to connect with the Institute and one another as well as enrich their everyday lives.

• <i>Tech Topics</i> ' average circulation per quarterly issue	87,690
• ALUMNI MAGAZINE's average circulation per quarterly issue	35,075
• Buzzwords e-newsletter's average circulation per monthly issue	76,602
• E-mails announcing news, events, services	4,449,970

ENGAGE

Alumni engage with Tech for a variety of reasons. One size does not fit all. Finding relevant and valuable opportunities for alumni to engage is our goal every day.

• Association-planned events during the fiscal year	100
• Participation at Association-planned/supported events	102,106
• Participation in Association career services and events	7,808
• Active regional clubs and affinity groups	90
• Alumni club and group volunteers	4,000
• Club and group events during the fiscal year	1,120
• College fairs with alumni representing Georgia Tech	94
• High school students exposed to Georgia Tech	8,521

SUPPORT

Roll Call, the Association's annual fund, is in its 62nd year and has raised more than \$161 million in funds for Georgia Tech over the years. These funds have been leveraged for a variety of academic uses including Technology Square and the Campus Recreation Center, two of the crown jewels of Georgia Tech today.

• 62nd Roll Call gifts	\$7,517,194
• 62nd Roll Call donors	28,048
• Scholarship dollars raised by Alumni clubs and groups	\$568,663

• Alumni Roll Call participation by class decade					
2000-09	16%	1990-99	17%	1980-89	22%
1970-79	30%	1960-69	37%	1950-59	37%
1940-49	29%	1930-39	13%		

Your Georgia Tech Alumni Association

This annual report is not just a financial snapshot. It is a record of how we inform, engage and support our alumni and Georgia Tech. We are more than reunions and game watching. Your Alumni Association offers a variety of resources, programs and services to enrich every stage of your life and career. Whether it's joining your local Georgia Tech

Club or one of our new affinity groups, participating in one of our Alumni Association events, staying connected online through our Web site or social media, using our career services, volunteering, supporting Roll Call or reading the GEORGIA TECH ALUMNI MAGAZINE, we help our alumni build a valuable, lifelong connection with Tech.

Statements of financial position

ASSETS

	2009	2008
Cash and Cash Equivalents	\$353,986	\$184,643
Accounts Receivable less Allowance for Doubtful Accounts of \$3,000 in 2009 and \$3,000 in 2008	157,378	298,230
Prepaid Expenses	11,410	54,406
Inventory	10,287	7,948
Property, Plant and Equipment, Net	333,622	436,121
Antique Ramblin' Wreck	12,500	12,500
Total Assets	\$879,183	\$993,848

LIABILITIES AND NET ASSETS

	2009	2008
Liabilities:		
Accounts Payable	\$183,774	\$209,579
Accrued Expenses	223,728	207,461
Deferred Revenue	310,000	310,000
Total Liabilities	717,502	727,040

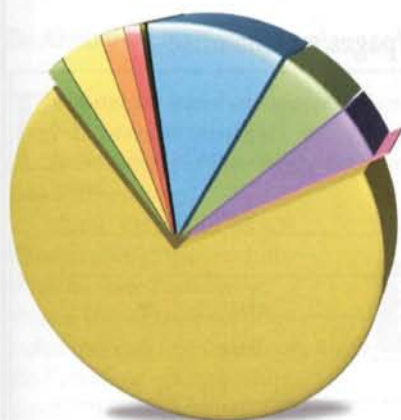
Commitments and Contingencies

Unrestricted Net Assets:		
Expended for Property, Plant and Equipment	346,122	448,621
Available for Operations	(184,441)	(181,813)
Total Unrestricted Net Assets	161,681	266,808

Total Liabilities and Net Assets	\$879,183	\$993,848
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Revenues / Expenditures



REVENUES:

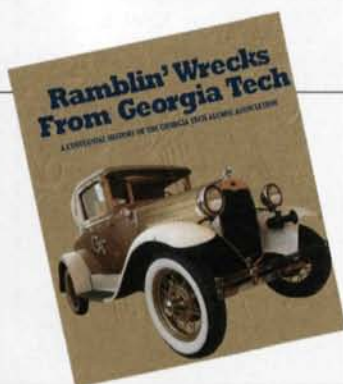
	BUDGET FY '09	ACTUAL FY '09	VARIANCE
Georgia Tech Foundation	\$4,630,000	\$4,630,000	\$0
Georgia Tech	116,930	109,130	(7,800)
Advertising & Sponsorships	348,000	244,387	(103,613)
Career Services	255,000	126,435	(128,565)
Tours	110,000	82,963	(27,037)
Merchandise Sales (Net of Cost of Sales)	59,740	23,377	(36,363)
Royalties	699,000	663,980	(35,020)
Events	184,985	326,182	141,197
Other Sources of Revenue	175,000	238,571	63,571
Allocation from Cash Reserves	122,179	9,002	(113,177)
Total	6,700,834	6,454,027	(246,807)



EXPENDITURES:

	BUDGET FY '09	ACTUAL FY '09	VARIANCE
Administration	2,119,121	2,289,348	170,227
Career Services	249,804	260,018	10,214
Communications	1,011,078	886,195	(124,883)
Alumni Relations & Tours	565,775	463,265	(102,510)
Roll Call & Business Development	988,500	848,000	(140,500)
Campus Relations	286,396	153,293	(133,103)
Event Management	1,078,281	1,173,737	95,456
Marketing Services	401,879	361,059	(40,820)
Total	6,700,834	6,434,915	(265,919)

Excess (Deficiency) of revenue over expenses \$0 \$19,112 \$19,112



CENTENNIAL CELEBRATION:

	BUDGET FY '09	ACTUAL FY '09	VARIANCE
Centennial Book Revenue	0	32,856	32,856
Centennial Expenses	0	(74,745)	(74,745)
Total	0	(41,889)	(41,889)



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Achieve 'Digital Nirvana'

By Kimberly Link-Wills

Empty your in-box daily, advises Mark Hurst, author of *Bit Literacy: Productivity in the Age of Information and E-mail Overload*.

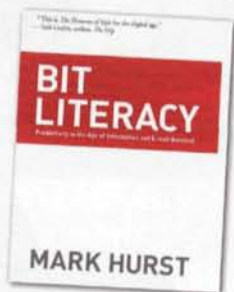
Hurst, the son of Tech's Rhodes and Truman scholarships adviser Paul Hurst, shared 10 pieces of advice, including five from his book, at the President's Scholarship luncheon in September.

Have a single to-do list, and get through it each day as well. "Emptiness is a good thing," Hurst said. "Emptiness is key to a digital nirvana."

Do one thing at a time, he said, citing a productivity and accuracy study of people who claimed they could multitask.

"You'll never guess what they found. The high multitaskers aren't good at anything. It may seem in their twisted, small lit-

tle world that they're important and productive. To the rest of us in the outside world who watch, we can see they're not functioning well," Hurst said. "Just do one thing at a time. If you're going to talk, talk. If you're going to e-mail, e-mail."



Proficiency in typing is key to success, said Hurst, a proponent of the Dvorak keyboard layout. "The faster you type has a direct improvement to the bottom line productivity."

Hurst said he also supports a restricted "media diet. There are 50,000 things that are asking for our attention every day, and there's no way you can keep up with all of them."

Hurst went on to share words of wisdom he has learned in his 36 years of living.

"Do the right thing, even if it's unfashionable and different from how everybody else is doing it," he said. "Work for love, not for money."



Solve a problem, Hurst encouraged, and learn to listen. "A lot of people really don't know how to do this very well," he said.

Finally, take a sabbatical, said Hurst, who spent seven months traveling across the country after the dot-com bust.

"No matter where you go and what you do, you are more important than your work," Hurst said. "At some point, you're going to need to acknowledge that and give yourself permission to take time off and live a fuller life."



Stand Out — in a Good Way

"Bland is hard to remember."

So says David Cohen, founder of Equation Arts and a self-described "business therapist." He presented a seminar on personal branding to the Computing Alumni Organization in late August and encouraged the professionals on hand to find a way to be different.

"What is branding's job? I contend that job one is recognition. If you don't have an anchor for which to attach your associations, you don't have anything that makes you noticeable or stand out, then all of the good work that you may do ... is all for naught," Cohen said.

He cautioned that whatever you do personally and professionally impacts your brand, so deliver a consistent message on your blog and LinkedIn and Twitter accounts. "The Internet doesn't have a forget button. Use good karma, don't spam, be a good citizen."

In clear, concise and consistent messaging, "wear your differences on your sleeve, make them part of your profile," Cohen said. "Be unique, put it out there."

Steer your brand toward your strongest asset. "You only need one hook to hang your hat on," he said. "Simple has the opportunity to spread."

Cohen said your story matters, and it is important to remember that story is available for public consumption.

"A great reputation is going to beat your best suit and power tie any day of the week," he said. "We live in a world where we Google each other."

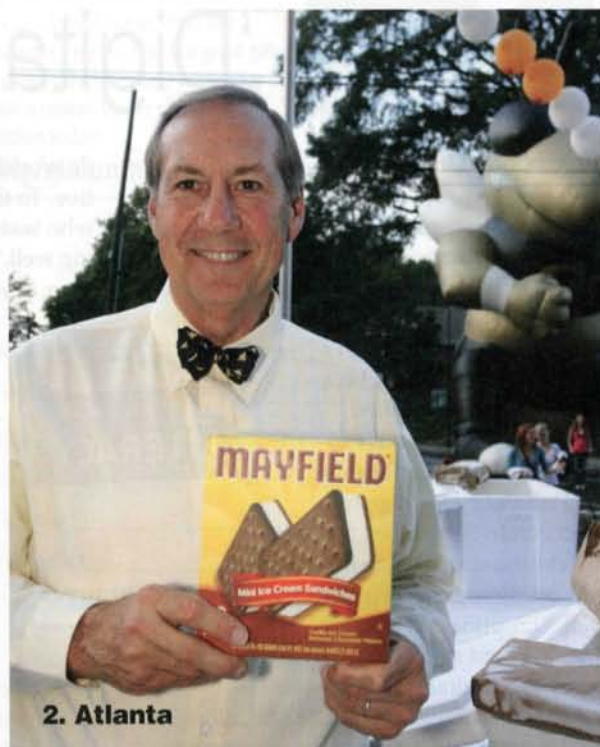
Information about the Computing Alumni Organization, an affinity group of the Georgia Tech Alumni Association, is available at wiki.cc.gatech.edu/alumni.

— Kimberly Link-Wills

Jackets Required: Gatherings of Tech Grads and Friends



1. San Diego



2. Atlanta



3. Titusville



4. Savannah



5. New Orleans



6. Berlin



7. Marietta

1. The San Diego Georgia Tech Club hosted a send-off party for incoming Tech students and their families. 2. Scottie Mayfield, GMgt 73, donated and distributed 2,000 Mayfield Dairy Farms frozen treats at a "welcome back" party for students on campus. 3. Jack Amason, ME 59, was in Titusville, Pa., in August when the town celebrated former resident John Heisman with a parade and highway marker dedication. 4. Alan Mitchell, Econ 85, drove his wreck to the Savannah Georgia Tech Club's student send-off party. 5. Gregory Mitchell, Biol 05, and his wife, Katherine, were at the New Orleans/Baton Rouge Georgia Tech Club send-off party. 6. Outside the Berlin/Bradenburg Gate are Alumni Travel "Scandinavian Splendors" participants; left to right, Bill, MS ME 66, and Colleen Jones; Jim Bell, ME 53; Judy and Henry Halliday, IM 60; and Nona Bell. 7. Rob Madayag, ChE 02, and his children, Kitty and Robert IV, show their school spirit on their Marietta, Ga., lawn. 8. Miller Templeton, Phys 61, MS NE 63, middle row, far right, spoke to incoming students at a Coweta/Fayette Georgia Tech Club gathering. 9. Nearly 70 alumni, parents and students turned out at the Jacksonville Georgia Tech Club send-off celebration. 10. Thad Young, right, a Philadelphia 76er who played at Tech during the '06-07 season, chatted and shot hoops with Dr. Phil in September.



8. Coweta/Fayette



9. Jacksonville



10. Philadelphia

Investiture Address

Peterson: 'We Must Lead, We Must Define the Rules'

By Kimberly Link-Wills

G. P. "Bud" Peterson used the occasion of his investiture as the 11th president of Georgia Tech to look toward the future.

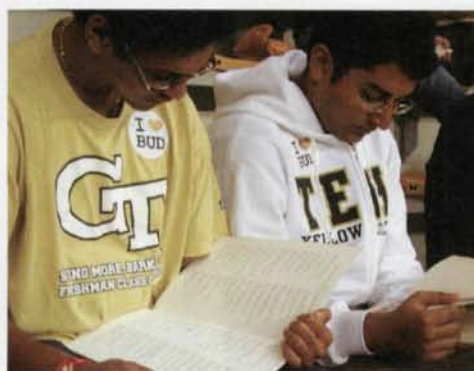
"Here at Georgia Tech we're not only solving problems for today but also designing the future — our future," Peterson said in his investiture address at Alexander Memorial Coliseum on Sept. 3. "That's why we have initiated a strategic planning process to develop a 25-year plan, a strategic vision that will identify what Georgia Tech should be like on its 150th anniversary."

Peterson formed a steering committee this summer to help develop the strategic plan. Following the investiture, the formal swearing in of the president who began his job April 1, members of the committee welcomed input from students, faculty, staff and alumni in breakout sessions conducted throughout the afternoon. Peterson made appearances at all of the gatherings at the Global Learning Center and the Georgia Tech Hotel and Conference Center.

The committee is focusing on nine areas: sustaining and enhancing the Georgia Tech culture; enriching the student experience; being purposeful and relevant in what is taught and learned; being innovative in how teaching and learning is done; ensuring Tech maintains its research pre-eminence; enhancing the Institute's role in the state; leveraging its global engagement; leading in big payoff, interdisciplinary areas; and establishing and using best-in-class administrative and business practices and processes.



Rob Felt



Van Jensen

A preliminary draft is due at the end of November. Additional feedback will be sought before the strategic plan is finalized and put into effect in the fall of 2010. During his address, Peterson said input

from the entire campus committee is "critical to the future of Georgia Tech" and granted that development of a 25-year plan is a difficult task.

"Just the thought of predicting the world in 25 years is daunting, especially if you look at how much we've changed," he said. "As we look back 25 years, IBM's first personal computers were just hitting the marketplace. Remember the AT and the XT or the Commodore 64?"

"The first cell phone entered the marketplace in 1984, and it was a brick. It weighed 2 pounds, cost nearly \$4,000 and held a charge for 30 minutes. Today, they are ubiquitous, and instead of just talking, people are texting and tweeting. Today, there are more text messages sent and



Rob Felt

received every day than there are people in the world," Peterson said.

He said Georgia Tech will be judged by how well it meets the evolving needs of the world. "We cannot be a fast follower. We must lead, we must define the rules and plan for the long term.

"We must ask hard questions, questions like: What will the student experience be like in 25 years? How can Georgia Tech strengthen the state, the nation and the world through our leadership? What will, or should be, our international footprint, and how can we prepare our students for a global future? How will we meet the demand for technologically educated professionals in the state of Georgia and in the nation? And,

perhaps most importantly, what has in the past and will continue in the future to differentiate graduates from this fine institution from those around the world?"

Peterson said that while the plan for the future is developed, he and the steering committee will respect Georgia Tech's past and present.

"The culture upon which our reputation has been built — hard work, curiosity combined with intellectual rigor, collegiality, inclusiveness and an intense passion for problem solving — will remain steadfast and will serve as our foundation as we strive to not only define but to be the technological research university of the 21st century and to educate the leaders of a technologically driven world."



Van Jensen

Reboot Launched

With a \$2.5 million grant from the National Science Foundation, the College of Computing in September launched Operation Reboot, which will transform an initial set of 30 unemployed information technology workers in Georgia into high school computing teachers.

Operation Reboot combines Tech's high school computing teacher training program and the Georgia Teacher Alternative Preparation Program to pair an IT worker with an existing computing teacher. They will co-teach at least two computing classes for one year, allowing the IT professional to learn the ins and outs of a classroom and the teacher to get an education in IT.

Operation Reboot ultimately aims to improve the computing education of 4,600 students over the next three years by increasing the number of well-trained computing teachers and the number of computing classes being offered.

Trade Center Opens

Georgia Tech opened a Trade, Innovation & Productivity Center in San Jose, Costa Rica, in August. The center is a collaborative development of the Supply Chain & Logistics Institute, the Stewart School of Industrial and Systems Engineering and the College of Management at Georgia Tech in partnership with the Foreign Trade Corp. and the Chamber of Industries in Costa Rica.

"One of Georgia Tech's strengths is working with business and industry around the world to apply scientific principles and to provide needed education to help meet business challenges," President G. P. "Bud" Peterson said at the opening ceremony.

Guest speakers at the ceremony, hosted by Steve Salbu, dean of the College of Management, included Marco Vinicio Ruiz, the minister of foreign trade in Costa Rica, and Oscar Arias, the president of the Republic of Costa Rica.

The next day the center hosted an international commerce and logistics seminar featuring a keynote speech by Donald Ratliff, executive director of the Supply Chain & Logistics Institute and the TIP Center.

"This is a great opportunity for us to col-



Oscar Arias, president of Costa Rica, joined President G. P. "Bud" Peterson for the TIP Center opening ceremony, hosted by Dean Steve Salbu.



laborate with enterprises in Costa Rica to address issues that are critical for economic growth in all of Latin America," Ratliff said. "Good supply chain and logistics capabilities are essential in order to be competitive in global markets."

Researchers Eye Tornadoes

"As the size of landfalling hurricanes from the Gulf of Mexico increases, we're seeing more tornadoes than we did in the past that can occur up to two days and several hundred miles inland from the landfall location," said James Belanger, doctoral student in the School of Earth and Atmospheric Sciences and lead author of a paper published in September in *Geophysical Research Letters*.

Belanger and co-authors Judith Curry, professor and chair of the School of Earth and Atmospheric Sciences, and research scientist Carlos Hoyos created a model that found that since 1995 there has been a 35

percent increase in the size of tropical cyclones from the gulf compared to the previous active period of storms from 1948 to 1964, leading to double the number of tornadoes produced per storm. The number of hurricane-induced tornadoes during the 2004 and '05 seasons is unprecedented on record since 1920, according to the model.

Tech Retains Seventh Spot

Georgia Tech maintained its seventh-place standing among national public universities and 35th place for all U.S. universities and colleges in the latest *U.S. News & World Report* undergraduate rankings.

The College of Engineering, the nation's largest, continued to have its program nationally recognized by having seven of its schools ranked in the top five. The School of Industrial and Systems Engineering maintained its top ranking.

The aerospace engineering program ranked second; biomedical engineering and civil engineering both ranked third; mechanical engineering ranked fourth; and electrical engineering and environmental engineering both ranked fifth.

The College of Management rose from 35th last year to 31st. Tech also was highlighted in "programs to look for" for its co-op, internship, senior capstone and undergraduate research programs.

College Welcomes Input

The College of Architecture this summer announced a strategic emphasis on interdisciplinarity and is studying structural changes and curricular advancements.

The college is welcoming input from alumni and other stakeholders and has said open forums "will be held throughout the coming year, inviting continual feedback."

Associate Dean Sabir Khan is leading the development of an integrated undergraduate curriculum the college said will introduce "the full design process — planning, design, engineering and construction." Interdisciplinary master's degrees also are being explored. The Board of Regents is reviewing proposed doctorates in city and regional planning as well as music technology.

Information is at coa.gatech.edu.



Crosland Tower

Bill Diehl Jr./Georgia Tech Library Archives

"After 26 Years, a Dream Comes True" read the headline of a September-October 1953 *Georgia Tech Alumnus* article heralding the opening of the Price Gilbert Library, hailed as a thoroughly modern facility with its bold lines and large expanses of glass — and for being air-conditioned throughout.

Librarian Dorothy Murray Crosland, a licensed interior decorator, cherry-picked the modern furnishings, which included sleek natural birch furniture and custom-made textiles and draperies. She also was the library's chief fundraiser, helping secure the initial grant for the building from Georgia Supreme Court Justice Price Gilbert, whom she had helped with research for a book.

When Crosland joined Tech as an assistant librarian in 1925, the Institute's library was housed in the Carnegie building, held about 16,000 books and was run by just two other full-time staff members. She was named librarian in 1927 and director of libraries in 1953. The Price Gilbert Library, dedicated in November 1953, had shelving space for 450,000 volumes and seating for 800 people, the *Alumnus* reported.

An addition to the library, shown above in an early artist's rendering, was completed in the late '60s to accommodate the Institute's ever-growing collection. It was renamed the Crosland Tower in 1985, two years after the longtime librarian's death at the age of 79.

According to the Alumni Association's Living History program, nearly five linear miles of technical journals were acquired during



Crosland's tenure at the Institute. In late 1946, she made headlines with a grant-funded trip to postwar Europe to buy journals and rare and out-of-print books. "Fortunate will be the threadbare European engineer who had the foresight months ago to preserve the dull and tedious 'transactions and proceedings' of his engineering society," reported the *Atlanta Journal* in a Sept. 1, 1946, article. "Today that stodgy tome may be worth \$50, maybe \$100."

During the 10-week trip, Crosland traveled 13,000 miles, stopped in eight countries and visited more than 40 libraries. It was her first trip abroad.

Crosland's 46 years at the Institute are marked by more than the growth of the Institute's book collection. Working with Georgia Tech's first lady Ella Van Leer in the late 1940s and early '50s, Crosland campaigned for admission of women to Tech. Another plea to the Board of Regents played a part in the 1964 formation of Tech's School of Information and Computer Science, which later would become the College of Computing.

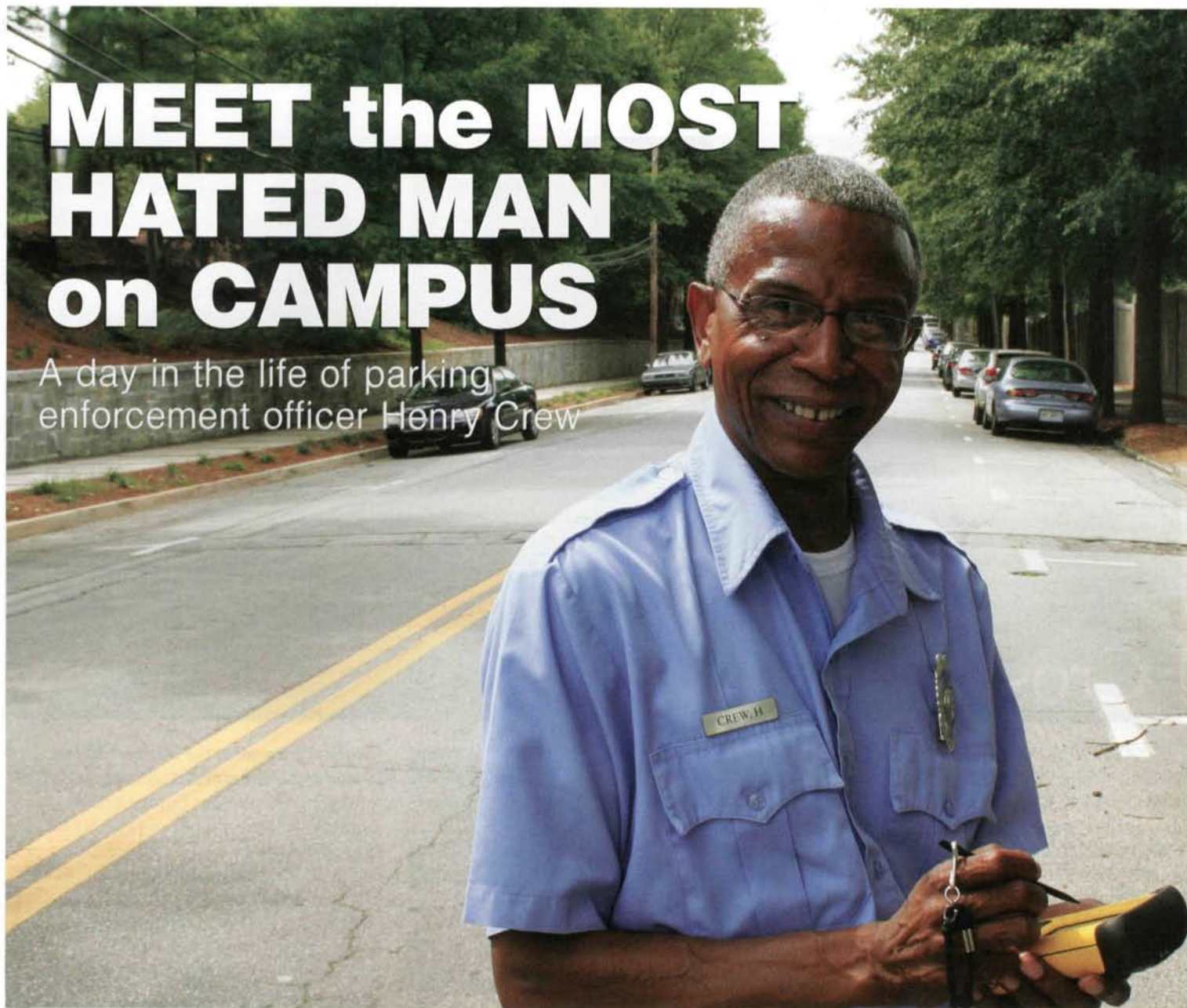
In 1945, Crosland was named Atlanta's Woman of the Year in Education. In 1961, the Alumni Association named her an honorary alumna of Georgia Tech.

Upon her retirement from Tech in 1971, Crosland moved to Monroe, Ga., with her husband to spend more time with family. She also spent a lot of time in the kitchen, trying out recipes from a vast collection of cookbooks she'd amassed over the years.

— Leslie Overman

MEET the MOST HATED MAN on CAMPUS

A day in the life of parking enforcement officer Henry Crew



Story and photos by Van Jensen

Henry Crew is slender, of average height, with a toothy smile, gray-flecked hair and friendly, if mischievous, eyes behind wire-rim spectacles. It's an inauspicious appearance for someone supposedly so evil.

Crew rises early and commutes from his Henry County home to the Tech campus in time for the daily 7:10 a.m. briefing. He grabs his radio, an electronic touch pad, a book of yellow envelopes and a small printer that fastens to his belt. Outside, he hops into a white Ford Ranger, yellow flashing lights fixed atop it.

As the morning sun crests Atlanta's

skyline, it lends a shimmery quality to the silver badge fastened to Crew's blue shirt. Georgia Tech Parking Enforcement, the badge reads. Crew is certainly on, if not atop, the list of the most despised Tech figures. On his patrol, he's greeted by glares at best, obscene gestures at worst.

His route begins in the decks of the North Avenue residence halls. He's mostly quiet, eyes flitting side to side, quickly scanning each windshield for a current permit.

"After you do this awhile, you can do it by sight," says Crew, who's spent nearly two years on the job.

His background prepared him well for the seemingly stern occupation. A former

Army man, Crew previously worked as a detention officer in a Fulton County jail and then as a probation officer. But he quickly adds that he hated both jobs. "People are in jail for a reason," he says.

Still cruising through the parking deck, Crew says he enjoys his current job for the most part. He likes patrolling, making sure the decks are secure for students. He likes helping people when their cars need to be jump-started or unlocked.

A parking enforcement officer who likes helping people? Sure, Crew says. "We can't be too harsh on people."

As if to prove his point, he spots a massive pickup truck, its tires sitting well outside of the marked space. Technically,

Crew could issue a ticket to its owner.

"It looks like the truck's just too big," he says. "He probably couldn't fit it anywhere else. Sometimes things happen that's not their fault."

Imagine that: a parking officer passing up the chance to write a ticket. Over the course of the day, Crew proves it isn't an isolated incident. Behind Brittain Dining Hall, he finds an unfamiliar car. Instead of writing a ticket, Crew goes inside and asks employees to make sure that the car belongs to one of them.

He pulls onto Bobby Dodd Way and sees a few expired meters. "That's definitely one I've got to get," he says, hopping out. Standing behind a Nissan Maxima at a flashing meter, Crew enters the license plate number in his handheld device. It brings up the vehicle's information: whether the owner has a permit, if he has had any tickets and if any are outstanding. He enters the meter number and a brief comment — any inaccuracy and the offending parker can get out of the ticket.

Crew hits print and a slip of paper spins out of the printer on his belt. He sticks the slip into a yellow envelope and pins it under a windshield wiper. The Maxima's owner will be \$25 poorer.

Crew moves on to a BMW at another expired meter. A search reveals the owner has had 10 tickets, though none are outstanding. As Crew is readying to write the citation, he hears a shout. A young woman in shorts and a hoodie sprints toward him. Her sleepy eyes turn teary.

"Wait, I swear, I just came for a second to drop off his backpack," she says frantically, pointing to her boyfriend.

Crew smiles. "You're leaving right now?"

"Yes!" she yells, stunned at the reprieve.

"OK, you can go," Crew says.

Walking back to his truck, Crew laughs. "Usually I stop, turn on the lights like this, you see people come running. I start clicking buttons, you hear the footsteps."

People always have an excuse, and Crew guesses he's heard about every one.

"A lot of times I'll just give 'em a warning," Crew says. "Most tickets are from \$10 to \$50. That doesn't seem like much, but it's groceries to some people."

Driving north along Techwood Drive, Crew says he considers himself a diplomat above all else. He proudly mentions the certificate he earned for customer service training, how it helps him deal with those who seem intent on testing the limits of his patience.

"Usually I stop, turn on the lights like this, you see people come running. I start clicking buttons, you hear the footsteps."



One young woman was furious when her car was towed, he says. But the vehicle's console was brimming with yellow envelopes. She ended up paying \$600 of the \$1,100 she owed in fines.

"When she got the car after we towed it, she cried so much she had black circles under her eyes," Crew says. "Then she had to call her parents."

In the Ranger, Glenn Beck shouts from the speakers. Crew calls himself a political junkie. Much of the rest of his spare time goes to playing bass guitar in his church band — some hobby for a villain.

Crew circles around to the Smith Residence Hall lot, where he gets out and notices a Honda Accord with a note under its windshield reading, "Please pull up, you're double parked."

"Oh, we've got to give a citation for

that," he says. "Some people are just inconsiderate. That's really crappy parking there."

He leaves a \$50 ticket on the windshield beside the note. Crew figures he could write 30 to 40 tickets a day without going out of his way.

Football game days are the worst, he says. The campus has about twice as many vehicles as normal. Almost as bad are the mornings after Greek rush parties.

"You see cars everywhere," Crew says of these mornings. "They break the parking lot gates. They'll park on the sidewalks. I tell them it's a \$100 fine, but they don't seem to care."

Crew talks as if he almost admires the troublemaking students. When the parking office tried putting boots on the tires of cars with outstanding tickets instead of towing them, Crew warned, "These guys are engineers. They can go to the machine shop and find a way to get it off." Sure enough, they soon found boots cut off of tires.

One trick he doesn't recommend is putting an old ticket under your windshield wiper and parking illegally.

"They think we don't check," he says. "That's the oldest, dumbest trick in the book. I saw a kid doing that once. I said, 'You know we don't fall for that, right?'"

Crew interacts with vehicles so closely he comes to know them. He notices a red Dodge Stratus with a vanity plate and no permit. Crew had ticketed the car a few days earlier and prints out another ticket, leaving it above a fake oversized \$100 bill sitting on the car's dashboard.

Outside Peters parking deck, a woman waves down Crew. It turns out she's forgotten her BuzzCard. Crew is supposed to send her across campus to the parking office to sign out a temporary pass, but instead he swipes the gate and lets her inside.

He knows the rap parking officers get, and he strives to prove it wrong whenever he can.

"I try to be something totally different from what they expect," Crew says. "If they raise their voice, I lower mine."

"People get so angry at times. We've had officers hit with beer bottles and eggs,

spat upon. People drive by, they shoot the bird. They leave angry notes. You can tell the freshmen. When we walk down the street, they say hi."

While much of Crew's dealings are with students, he says faculty and staff are often the most irate when receiving a ticket. He recalls a professor who repeatedly shouted at another officer, calling him an idiot.

The list of insulting terms Crew has heard is boundless and largely unprintable, but only one truly offends him. "Parking Nazis? That's not a term you use loosely," he says of the insult that is popular among students and has appeared in the *Technique*.

Crew admits the regular abuse makes the job unpleasant at times, but he understands the enmity, because parking officers' main interaction with the public comes during unpleasant situations.

Often, he says, he'll just have to walk away from someone who's being rude or insulting. "I just say, 'You're in violation, here's your ticket.'"

As he's driving through the back passages of campus, the dispatcher calls to alert Crew to a vehicle that is illegally parked in a reserved space beside Bobby Dodd Stadium. The owner of the space has

asked to have the offending vehicle towed.

Crew takes no joy in filling out the two tickets — one for \$50 for parking in a reserved space and one for \$100 for being towed — but instead is empathetic to the driver of the Toyota 4Runner wrongly parked in the space.

Noticing a branch hanging near the reserved space sign, Crew wonders if perhaps the driver didn't see the sign. A tow truck arrives as Crew finishes his paperwork. Meanwhile, students walk by on the way to class, glaring at the sight of another compatriot struck down by a parking officer.

"You see the looks we get?" Crew asks. "You'd think we had killed a puppy."

Shortly, the 4Runner is out of the spot and on the way toward a parking lot at Ferst Drive and Dalney Street, where a small area is fenced off and rimmed with barbed wire. All towed vehicles are deposited here, waiting for drivers to pay their fines and reclaim them.

As the tow truck driver expertly backs in the 4Runner, Crew almost laments locking the vehicle up. "I always tell people, 'Whatever you do, don't park in a reserved spot. That's the worst.'"

Heading over to Technology Square, Crew drops into the parking offices to hand in the paperwork on the tow. He reports the branch near the reserved sign on Techwood Drive needs to be cut down.

Crew stops in almost every office with a friendly greeting. Most parking office employees are understandably defensive about their role on campus. As one puts it, "People only come in when there's a problem."

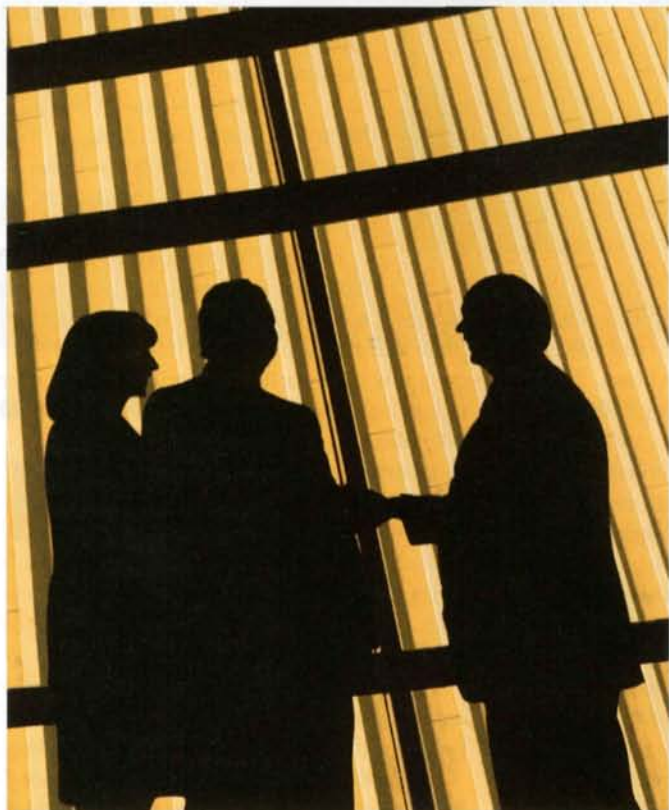
Appeals clerk Denise Ewing teases Crew, saying she gets all of the backlash from him handing out tickets. She and her student assistants handle from 25 to 50 e-mails a day from apoplectic parkers.

"They just don't understand it's for safety," Ewing says. "If we didn't hand out tickets, it'd be chaos. So we try to educate. We try to meet them halfway."

Outside, Crew hops back into his pickup to return to the seemingly straightforward task of citing those who break the rules. But, as Crew says, "there are gray areas. Nothing is all black and white."

He drives off, ready for another lap around his route, another brush with resentment from those he serves.

Somehow, he's still smiling.



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Bob Nerem: No Credit Needed

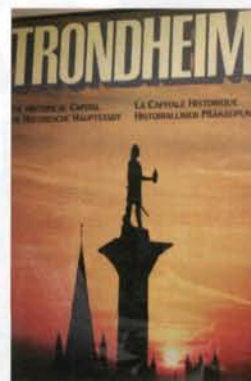
By Kimberly Link-Wills

Since the Parker H. Petit Institute for Bioengineering and Bioscience opened in 1995, mechanical engineering professor Bob Nerem has served as its director. He's stepping down effective Nov. 1 and will move down the hall to the research office he will continue to maintain as director of the Georgia Tech-Emory University Center for the Engineering of Living Tissues.

During his more than 40 years in academia, the 72-year-old Nerem considers his 1988 election into the National Academy of Engineering and 2008 Founders Award from the organization for a lifetime of contributions among his greatest honors. His most recent recognition came as this year's recipient of the Class of 1934 Distinguished Professor Award, which entitled him to deliver the summer commencement speech and address Tech's new president on behalf of the faculty at the investiture ceremony in September.

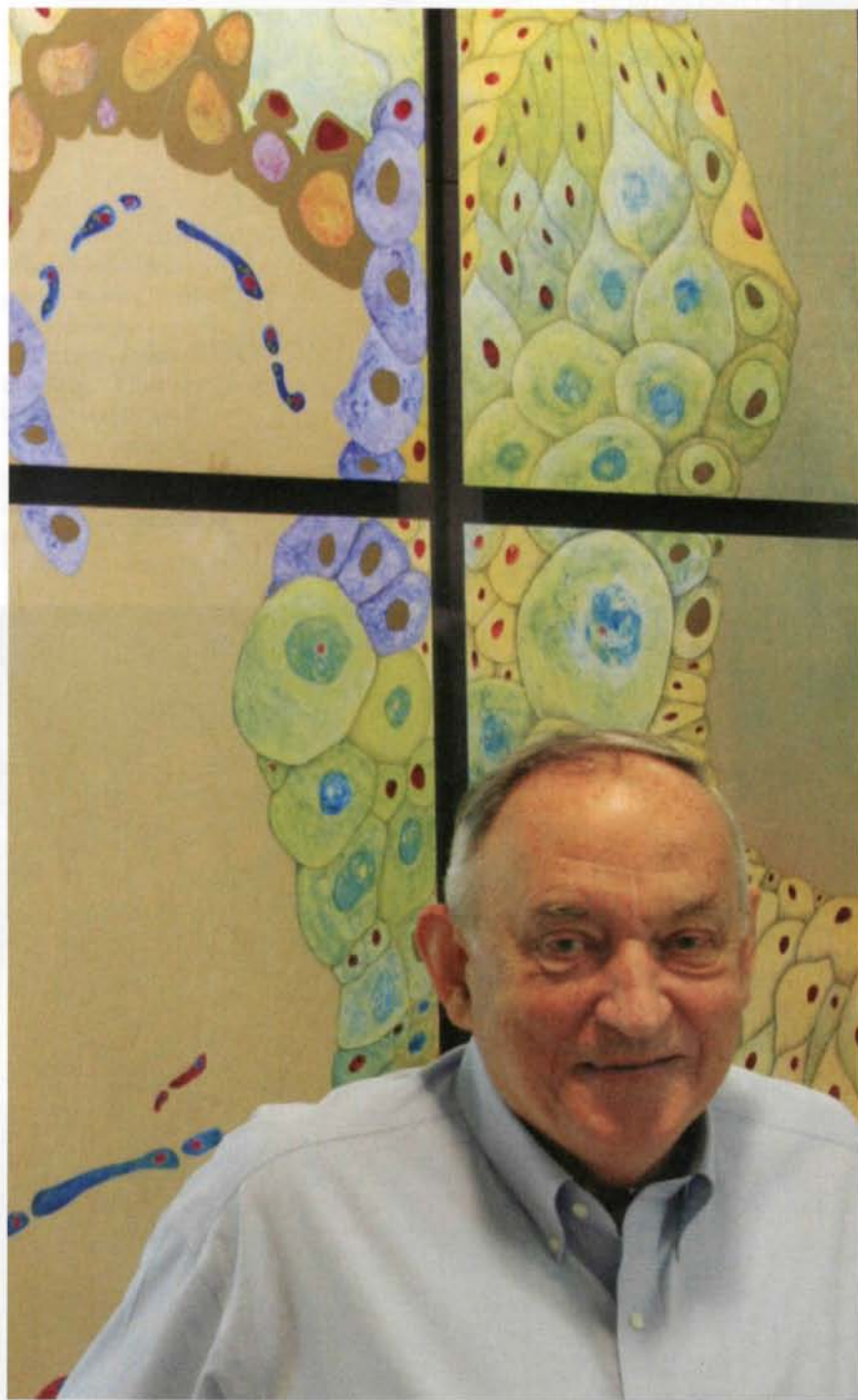
The son of immigrants:

"Trondheim, that's where my father and mother met and got married," Nerem said of the framed travel poster on a wall of his office. "My father was going to engineering school, and my mother came down from the far north of Norway to work and presumably to try and find a husband."



A whole new world: Nerem earned his master's and doctoral degrees in aerospace engineering at Ohio State University, where he began his teaching career. He was conducting heat transfer research when he received a call from NASA about a vibration problem on the Saturn launch vehicle.

"They said, 'We've just given a lot of money to Ohio State's College of Medicine to study vibration effects in human physiology. The problem, Bob, is that they know biology and medicine but they don't know anything about launch and re-entry, so we want you to be a consultant.' I said, 'Well, I know about launch



Photos by Kimberly Link-Wills

Director Bob Nerem commissioned the \$30,000 nine-panel, three-story painting of the human body enveloped by cells for the Institute of Bioengineering and Bioscience atrium.

Father's Game Becomes Son's Business

and re-entry, but I don't know anything about medicine.' They said, 'That's OK.' So I became a consultant on this project. As I've often said, like most consultants, I made no contribution at all, but it was a window on a whole new world."

Nerem later spent most of a year at Imperial College London studying problems in the human cardiovascular system with a group of engineers, clinicians and biologists. When he returned to Ohio State, Nerem told his department chair that he wanted to give up his work in aerospace engineering for good in favor of bioengineering.

On a poster from Germany: "I helped organize that symposium in Heidelberg in 1982," Nerem said. "I did another symposium in 1986, but the poster wasn't anywhere as nice."



Landing in Atlanta: Georgia Tech recruited Nerem, then chair of mechanical engineering at the University of Houston, in 1987. He oversaw the establishment of the Institute of Bioengineering and Bioscience, the contract for Le Petit Cafe and the staffing of labs literally from the ground up.

"I've been involved in the recruitment of more than 50 people doing bioengineering research," Nerem said. "We very much adhered to the Georgia Tech philosophy or whatever you want to call it that it's amazing what you can accomplish if no one cares who gets the credit."

Nerem does credit Petit, ME 62, MS EM 64, with much of the institute's success.

"I would not be at Georgia Tech if it were not for Pete Petit. Not only did he provide the endowed chair into which I was recruited, but starting with our first meeting 23 years ago, we established a friendship that continues to this day."

A cutout of Nerem was used on stage during a 2003 Tech-hosted symposium in his honor. Nerem said he keeps it in his office so he isn't missed when he's away.



On the piles of paper: "I write a lot, I read a lot. At any one time, I'm probably involved in half a dozen activities," Nerem said. The stacks of paper, some his own published manuscripts, do include "files still to be filed."

On the evolution of his research from fluid mechanics to stem cell technology: "One of the continuing themes of my research has been how mechanical forces influence cell function and behavior," Nerem said. "About five years ago we decided based on what we knew that if all these different cells seem to be responsive to mechanical forces, there's every reason to believe that stem cells would also be responsive."

Retirement definitely is in the works — "unless something intervenes," Nerem said.

"We're getting a site visit on a major proposal we've done with MIT. We'll see how that plays out. It's a proposal for a science and technology center. The focus will be creating cellular machines, to take cells and put them together in a way that they don't normally exist in order to create what we would call a machine, some combination of cells that can actually carry out a function, a function that doesn't normally exist in nature."

The research would be split among Tech, MIT and the University of Illinois, and, if approved, the center could open next year.

"Maybe next year I'll take retirement but come back with a 49 percent appointment," Nerem said. "My wife makes the following statement: 'Bob, I would like more of your time, but I don't want all of your time.'"

Holiday Gifts for the Tech Savvy

Looking for perfect presents for the technically minded on your shopping list? We put some Tech faculty to the task of picking the best gifts for those who love gadgets, gizmos and games.



Garmin GPS

I'm a cyclist, so these GPS devices are quite nice for tracking progress.

— Nick Feamster, assistant professor and Sloan fellow in the College of Computing

New low-cost, small-form netbook PCs are becoming popular with students and faculty. They use Intel's new Atom processor and feature built-in Wi-Fi and long battery life. They are available from a number of manufacturers including Dell, Toshiba, Acer and HP. The smaller display and keyboard might take a bit of adjustment for some people, but the cost, size and weight are advantages when traveling.

— James Hamblen, EE 74, PhD EE 84, professor in the School of Electrical and Computer Engineering

Media players have always been popular with students. Apple has the iPod touch and new iPod nano with a camera. Microsoft just announced the Zune HD, which has a touch screen, Wi-Fi, HD video and HD radio.

— Hamblen

It has been out for over a year, but Pleo, the too cute intelligent robotic toy dinosaur, appears to have been saved from extinction and a slow economy. It should be available again soon.

— Hamblen

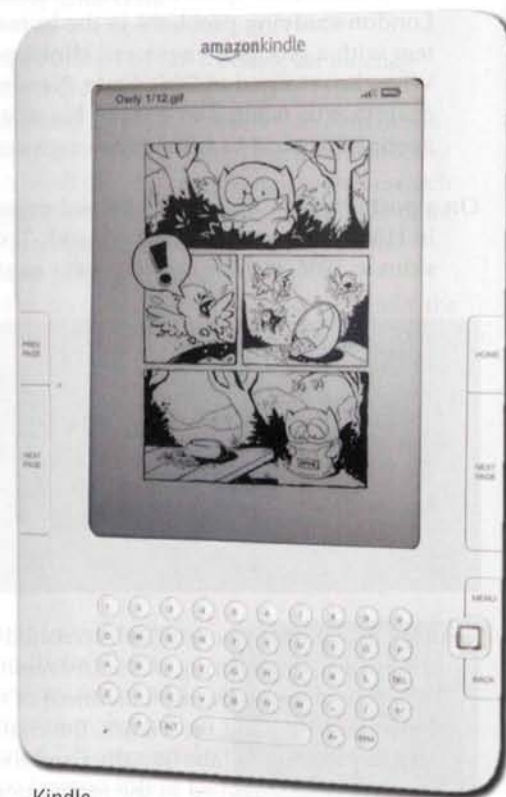


Pleo

I'm a huge fan of my Kindle. The 6-inch model, which I have, is perfect for carrying everywhere and reading anywhere. I read the paper and magazines on it daily, as well as student papers and theses. And all of my fun fiction and nonfiction is on there all the time too.

Having the battery last for a week means that I can read with my Kindle even on long plane rides.

— Mark Guzdial, professor in the College of Computing



Kindle

My favorite Xmas option is still the Wii, which makes a great gift for mom or grandma or the whole family. They are all the rage in retirement homes at the moment, and if you get one for mom, be sure and throw in the Wii Fit, which is the foot pad that comes with all the exercise games.

— Celia Pearce, assistant professor of digital media in the School of Literature, Communication and Culture and director of the Experimental Game Lab

For console gamers, there are a lot of really great new downloadable games on the PS3 and Xbox 360. One of my personal favorites this year is Flower on the



Wii

Father's Game Becomes Son's Business

By Van Jensen

Board games were at the center of the Burns household in Stone Mountain, Ga. In his spare time, Glenn Burns would create games and play them with his family.

Burns' three sons — who would all go on to graduate from Tech — spent many evenings caught up in competitive matches. One of their favorite games was their father's creation, Tri-Cross, a unique strategic challenge.

"We'd play tournaments or team games," said the youngest son, Jeff Burns, Mgt 08. "We grew up playing three sports a year, so we're definitely competitive."

Glenn Burns explored mass producing Tri-Cross in the 1980s, but despite some attention the game ultimately remained on the family's shelf. That is until Jeff Burns saw the potential to use it in a product development class while a student at Tech.

"We always looked at the game and wondered what would have happened if we continued on," he said.

Burns studied the gaming market and developed a business plan for Tri-Cross. After graduating, he began implementing the plan part time, which meant traveling to gaming conventions to show off the game. It quickly gained serious attention and a



stamp of approval from the National Parenting Center and a 2008 Game of the Year award from *Creative Child* magazine. Several Georgia schools have picked up the game for use in the classroom.

In January, Burns left his day job to work full time as vice president of Games for Competitors. His partner in the venture is a former classmate, Brian Howell, Mgt 08.

The secret to the success of Tri-Cross is the nature of the game, which has elements of Stratego and chess and even the uncertainty of Battleship.

"The game has a lot of the challenging aspects of chess or checkers or Stratego, but it simplifies it so anyone can play it," Burns said. "And each game doesn't take that long. It's easier to learn, but the challenge is still there."

Burns and Howell spend most of their time analyzing markets and contacting potential buyers, though they also dedicate several hours a week to developing new products that will soon join Tri-Cross in their catalog. They often turn to Glenn Burns for help with creating and testing games.

"We play board games," Jeff Burns said of the office environment. "We have a good time."

PS3, which was a big hit at the SIG-GRAPH computer graphics show. For PS3 on disk, *LittleBIGPlanet* and the new *Katamari* game, *Katamari Forever*, would be my top picks.

— Pearce

For the more adventurous people who like to see what's new and different, there are some really fantastic indie offerings this year. I got to review a bunch of these for IndieCade, the game festival I chair. I would recommend *The Path by Tale of Tales*. It's been a festival favorite over the past year. There are also some fantastic iPhone games such as *Eliss* and *Ruben & Lullaby*, both of which make really innovative use of the iPhone's capabilities.

— Pearce

The best gadget purchase I've made in years is the iPhone. It's the wonder gadget, the one gizmo to rule them all. I'm in France teach-

Nikon D-90



ing at the Georgia Tech Lorraine campus for the fall, and it's incredible that this one device gives me the Web, my e-mail, all my music and videos, a pocket French dictionary application and a GPS navigator all in my pocket. Oh, and it's also a phone. (Sometimes I forget that last part.) It's changed the way I travel, and I couldn't imagine leaving home without it.

— Keith Edwards, associate professor in the School of Interactive Computing, associate director of the Graphics, Visualization and Usability Center and director of Pixi Lab

My Nikon D-90 digital SLR is fairly compact for an SLR but takes great pictures, especially in low light, starts up instantly, is usable with every Nikon lens ever made, and the battery just keeps going and going. It's a great camera for anyone interested in getting beyond basic point-and-shoots.

— Edwards

Artist rendering of ornament



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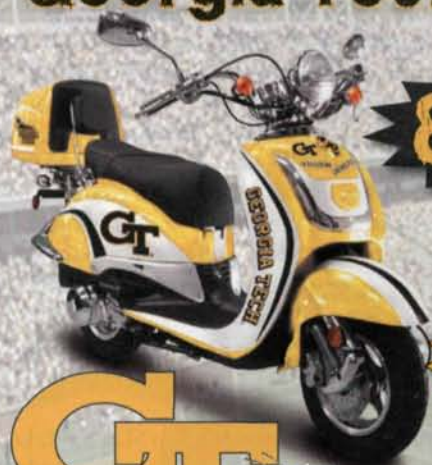
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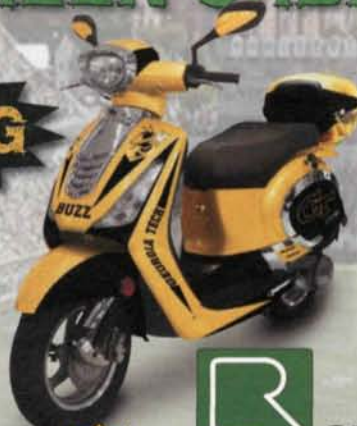
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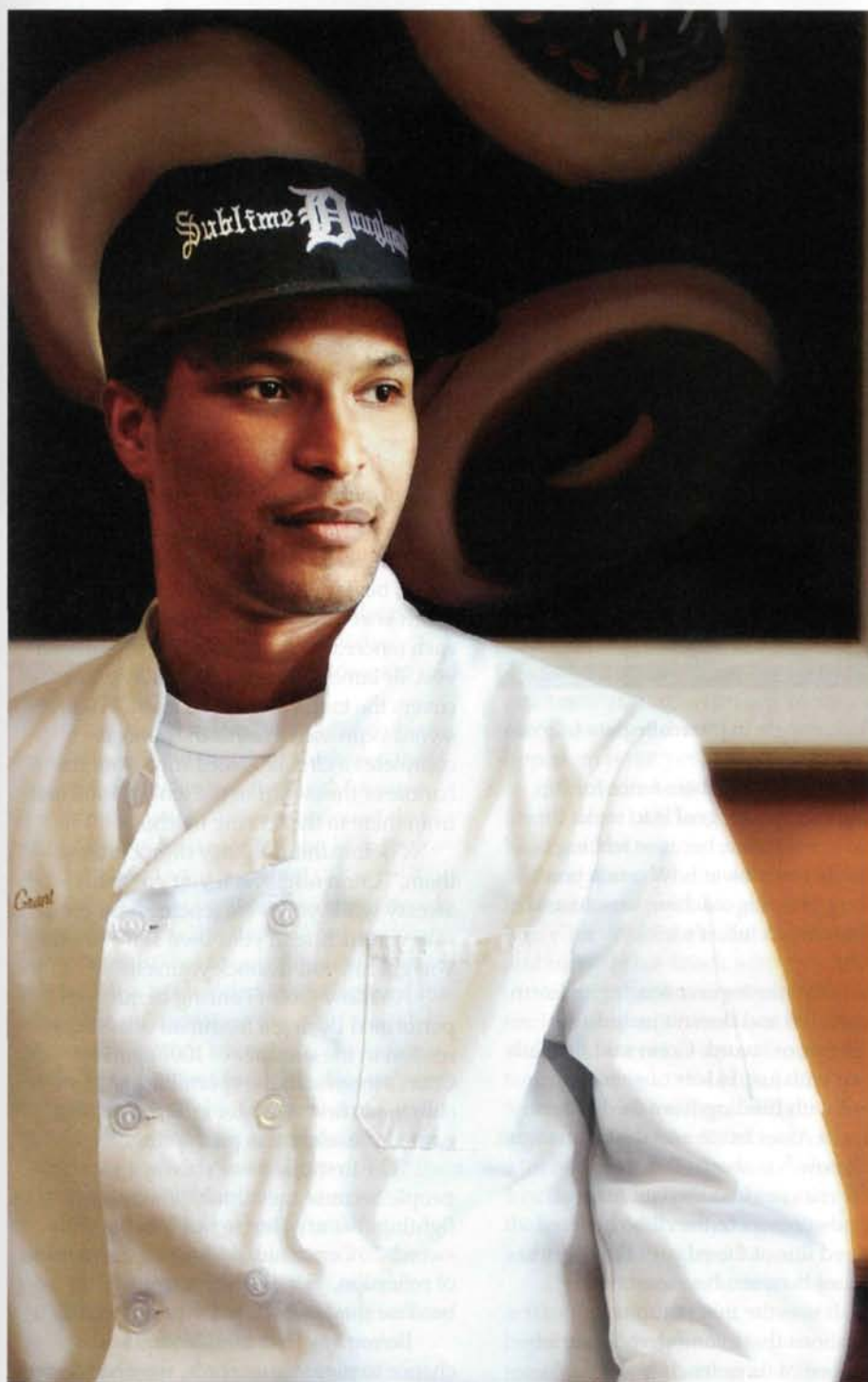


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Sublime Doughnuts



By Van Jensen

The lucky souls who work at Tech's Institute of Paper Science and Technology near 10th Street and Hemphill Avenue just have to cross the street to enjoy a doughnut shop that's been described as "swoon-worthy."

Sublime Doughnuts is run almost entirely by Kamal Grant, who rises at 2 a.m. every day to begin baking his creations with such enticing names as Reese's cup, cookies & creme, s'mores, dulce de leche and Butterfinger.

Grant, who graduated from the Culinary Institute of America, said he combines high-end pastry design with consumer-friendly elements.

"We try to do fun, silly stuff," he said. "Some bakers just want to show off with fancy pastries. I want to do stuff that people will get."

Having grown up in Marietta, Grant shows his Atlanta pride with the A-town creme, an A-shaped variation on the Boston cream. As he talked, Grant was interrupted by one of the frequent rushes of customers, many of whom are Tech students, faculty and staff.

The creative selections on the Sublime menu have been popular — the bakery has nearly perfect ratings at Yelp — but Grant admitted not everything he's dreamt up has taken off.

"I tried a pistachio with white and dark chocolate," he said. "That didn't work out as well. Then I made a Rice Krispies treat one. It was a winner, but the Rice Krispies went stale after an hour. People still ask about that one."

Sublime Doughnuts is located at 535 10th St. N.W., Atlanta, (404) 897-1801.



Good Swordsmanship

Club schools Tech students in the 'giant mind game' that is fencing

By Leslie Overman

The squeak of tennis shoes and thud of basketballs against court echoed throughout the fourth floor of the Campus Recreation Center. Bypassing students playing basketball and badminton, I made my way to the back of the gymnasium where 60 or so students stood in a huddle, engrossed in conversation rather than athletic activity.

While most of them were dressed in T-shirts, shorts and tennis shoes, a handful sported head-to-toe white ensembles. Among the latter was Katherine Meadows, who stood on the sidelines cradling a helmet with a mask of black wire mesh in the crook of her arm. "It's only a really big crowd the first day," said Meadows, a fourth-year Yellow Jacket Fencing club member, as her eyes scanned the students who had turned out for the first practice of the school year. "I think this is the largest I've seen."

Fencing club president Joseph Conn, a third-year biochemistry major, had instructed me to wear tennis shoes and athletic clothing if I planned to participate in the meeting, as it would be both an "informational and athletic" one.

Making his way to the center of a circle the students had formed around the club's officers, Conn quieted the crowd and called the meeting to order.

"Fencing has been around forever," Conn said. "Ever since there were swords, there's been competitive fencing, generally dueling for honor."

Yellow Jacket Fencing has been around since the spring of 2005, when it was founded by three students. The club holds three practices a week, and several members participate in local tournaments. Accompanied by a community coach it hired over the summer, the team this year will be



eligible to compete in intercollegiate tournaments.

But most club members fence for fun, Conn said. "Our main goal is to make it accessible to everyone, because fencing is expensive. If you look at how much you need to buy gear, for coaching lessons and just getting into a club, it's frickin' expensive."

A standard three-piece fencing uniform runs about \$100 and doesn't include a helmet, gloves or sword. Conn said the club started out with just 14 sets of gear purchased with funding from the Student Government Association and donations from alumni. It now has about 30 suits.

A few minutes into the late August practice, newcomers to the club clustered behind a red line at the edge of the court to watch a bout between two seasoned members. It was the first of three demonstrations that evening, each a brief tutorial in one of three fencing weapons —

epee, foil and saber. Each has its own "little subset of rules" and "own little culture," Conn said.

First up was a duel between saber fencers. In a saber bout, fencers may score points by striking an opponent with the edge of the blade as well as the tip. The target area runs from the top of a fencer's head to the bend of his hips. A pair of students started out standing several feet apart in the en garde position, then moved across the floor in a quick series of steps and lunges with an almost incessant clatter of swords.

A few feet away, a referee watched every lightning-fast attack and parry. A scoring machine on the floor made his job a bit easier, buzzing and lighting up whenever a touch was made. The swords are wired, and each fencer wears an electric silver-colored vest, or lame (pronounced la-may), that covers the target area of his torso. When a sword is pressed against the lame, it completes a circuit. A cord runs from the handle of the sword to the fencer's suit and from there to the scoring machine.

"Before the '80s, they didn't ground them," Conn said. "So if you got really sweaty while you were fencing, you could start conducting in your own skin. Anytime you got hit, you'd shock yourself."

A Yellow Jacket Fencing demo performed during a freshman orientation session in the summer of 2007 sparked Conn's interest in the sport. He joined the club in his first semester at Tech and was named president this past spring.

"The first day there's always a lot of people because they think, 'Hey, sword fighting. We're going to beat people with swords,'" Conn said, adding after a moment of reflection, "That might be my fault because that's what I tell them at FASET."

Before any first-time fencers had a chance to play with swords, they had to get a



Eric Turner

Yellow Jacket Fencing president Joseph Conn and team captain Blake Watson turn out prepared to parry three days a week at the Campus Recreation Center.

feel for the footwork in action. Students were told to grab a glove from a box by the bleachers and then return to the court to find a partner.

I was paired against one of the club's more experienced fencers. I confessed that I had missed the fencing footwork lesson a few minutes before. I also mentioned that I had taken a semester of fencing in college — an admission I soon regretted.

The en garde position was easy enough to remember. For the stance, a fencer points one foot (right foot for a right-handed fencer and left for a left-handed fencer) toward his opponent and positions the other at a 90-degree angle. With knees bent, the fencer moves the front foot forward a foot or more to balance his weight. The front arm should remain loose. The back arm should be held away from the body but in line with the front arm to maintain balance.

Instead of doing what felt natural, I second-guessed myself and mirrored the pose of my opponent, who then asked, "You're left handed?" I tried to laugh off my blunder as I quickly reversed my pose.

At the blow of a whistle, fencers

advanced. After a few missteps on my part, my opponent reminded me of the basic rules of the drill: As one player advances, the other must retreat, and, when advancing, a fencer can't take more than two steps, even if his opponent is not yet in reach.

We tried a second time. A third time. A fourth time. I understood the rules, but my head couldn't get the message through to my feet and arms. Whenever my opponent dove in to strike me with his glove, I lunged at him with my glove rather than retreating and meeting his attack with a parry.

Eric Lange, a second-year biomedical engineering major, has been fencing for six years and serves as squad leader for the team's epee fencers. Lange said expert fencers learn how to make their hands and legs act independently of each other through a lot of practice. "Sometimes when you start fencing, you tend to do things in sync. But the more experience you get, the better you learn to break that up," he said.

By this time, students had sprawled out across the court in pairs, now with swords in hand. Several of the club's returning members stood chatting near the bleachers.

They said the sport had brought them the respect and approval of peers as well as strangers. As the club's vice president Nate Klein more casually put it, fencing makes "you look exceptionally bad ass."

Christopher Simpson, a mechanical engineering student who notes his fencing experience on his resume, said it makes for a good conversation starter in job interviews.

"It's basically a big, giant mind game," Simpson said. "I've heard it described as you're playing chess with another person, but you're the chess piece. So not only do you have to have the physical stamina in order to do what your mind needs to do, but you have to be able to outwit the other person and then have your body follow through."

"I think it clears my mind a lot," he continued, "and you're super agile."

Another member chimed in that it helps with hand-eye coordination.

Conn shook his head. "You know," he said, "I'm going to have to disagree with you. I'm terrible at that. I haven't gotten that one yet."

That makes two of us.

Calling all Yellow Jackets!

To find your local GT Club,
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Networking



TEAM Buzz



Game Watching



Playhouse Aids Homeless

A Student Construction Association-built replica of the Tech Tower was one of three playhouses raffled off in early October to benefit HomeAid Atlanta, which builds and maintains transitional housing for homeless families and individuals.

Kyle Taylor, a fourth-year architecture major, said the Tech Tower playhouse was designed to have two parts, each representing an aspect of college life. One has a bookcase and study area, and the other holds games and a play area. Another fun feature, Taylor said, is a faux fireplace that hides a secret door.

"Designing something on such a small scale was a challenge, getting the proportions and making it look right," Taylor said of the 8-by-10-foot structure and its 15-foot-tall tower.

Taylor and his classmates tracked down the original construction documents for the Tech Tower to determine the scale and pitch of the roof. "We tried to hold it as true as possible," he said.

The project was supported through donations from the Student Foundation, the College of Architecture and the Building Construction Program, said Patrick Smith, a third-year building construction major and president of the Student Construction Association.

Smith said the project was a natural draw to students, as it offered the chance to get hands-on construction experience on a unique and challenging project. And it served to benefit a worthy cause.

"Seeing how a group of students can work together with a large variety of skill sets and backgrounds to build something this complex is amazing," Smith said. "I mean, what Tech student or alum doesn't want to build their own miniature Tech Tower?"

— Van Jensen

Andy Blanton: JumboJacketTron Jockey

During game days at Bobby Dodd Stadium, fans cheer along to images splashed across the JumboJacketTron, as athletic director Dan Radakovich dubbed the massive new Panasonic screen adorning the stadium's south side. Tech's wizard of Oz, the man controlling those images, is Andy Blanton, director of video production.

1. Is the screen more challenging to operate or is it just larger?

It is bigger, and it is better. It's clearer. The main screen is three times the size of the older screen. The scoring aspect used to be a separate operation, but now the surface is just one big canvas. We've also added smaller strips of LED screens underneath the main board, on the west side, on the north end zone and on the east. That certainly makes it more involved.

2. Are you putting up more statistical content?

A fan used to expect the final score of their team. Now if they need to know the score of their other favorite team, we should deliver that. They also should be able to keep up with their favorite player. So we're attempting to deliver as quickly as we can as much information as we can.

3. I'm sure gamers want to know if you can hook up an Xbox.

With the old video board we did that. We plugged in a Playstation and sat in the press box on a rainy day and played a game of tennis. The new screen has that capability, and I'm sure there will come a lazy afternoon when we'll see what it can do. There is somewhat of a minimal delay, so it is a little bit difficult to hit your mark or attack your opponent. If it works out, we may have an on-field interactive game where we have two fans play each other for a prize.

4. What's the strangest thing someone has done on screen?

The most bizarre thing I've seen happened at Alexander Memorial Coliseum. We were doing our "kiss cam" feature where we show couples and play music that suggests kissing. One of our camera guys showed a referee to be funny. Within seconds, one of the other referees ran over and kissed him on the mouth. The fans went crazy. It was quite a moment.

5. What's the best way for a fan to make it onto the screen?

Dressing up in an interesting way is good. What we want to put up is just a really passionate Georgia Tech fan. Our hope is when other fans see that it makes them want to cheer harder. And it doesn't hurt to be a pretty lady.

6. Are you able to watch the game while operating the system?

It is hard to be engaged in the game when you're engaged in so many aspects of what's going on. Ninety percent of the time I can't tell you the score. Usually I know whether we're winning or losing. There are certainly moments I feel the intensity as much as the fans do, but I try to keep focused.



Photo illustration by Van Jensen

7. What's the most challenging part of game days?

The most challenging aspect is not being able to fully script out what you do. The game itself is unpredictable. It would be difficult to pull in a nice, happy feature after we'd been scored on and were down 20 points.

8. What's the best part?

I enjoy the emotion of knowing that what I do can affect more than 55,000 people at one time. My favorite moment was the first time we played the Will Ferrell cowbell skit from *Saturday Night Live* during an official review. I watched on ESPN at the same time and saw the referee looking up at the video board when he was supposed to make a game-changing decision, and he was laughing at the skit.

9. Have there been any funny moments so far this season?

I did enjoy putting up a few fans that had made signs for the Clemson game. They were pretty creative! It's funny how quickly the fans realize they are up on the new screen, and some of the reactions have been priceless. Also, it's neat to watch a replay of our game on ESPN and see the reflection of the screen on players' helmets!

10. What has the response been like?

The fans are really pleased with the addition of the LED scoreboard above the press box that shows game stats. But I have really only touched the surface of the ultimate plans for it.

— Van Jensen

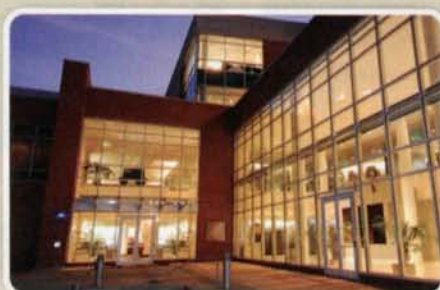
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Mission Zero

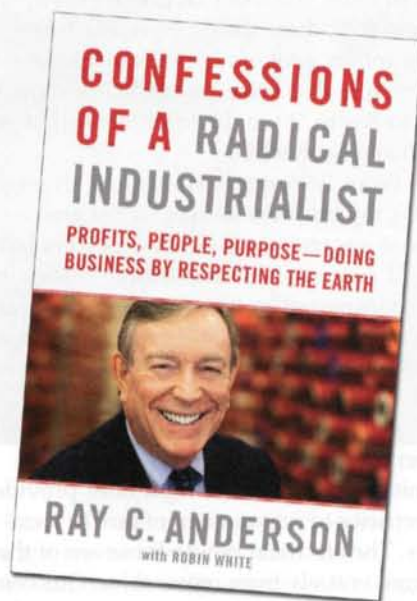
In his newly published book, *Confessions of a Radical Industrialist*, carpet manufacturer **Ray Anderson**, IE 56, explains why he steered his company on a course toward sustainability.

I'm an industrialist. Some would say a radical industrialist. *Time* magazine called me a "Hero of the Environment." *U.S. News & World Report* said I was "America's Greenest CEO." *Fortune* magazine was kind and astute enough to include my company, Interface, in its annual list of the "100 Best Companies to Work For" — twice. The GlobeScan (2007) Survey of Sustainability Experts listed Interface Inc. as leading the list of global companies with the greatest commitment to sustainability. Following Interface, in order of ranking, were Toyota, GE, BP and DuPont.

But I've also been called a hypocrite and a dreamer who pours his time, energy and stockholder money into lofty ideas about ecology and sustainability instead of the bottom line. Yet I would reply that I'm as profit-minded and competitive as anyone you're likely to meet.

I grew up in a small Georgia town during the tail end of the Great Depression and the second World War. My father worked in the post office. My mother was a retired schoolteacher. I attended college on a football scholarship, graduated with highest honors and spent 17 years in industry working for someone else.

Then, in 1973, I took the entrepreneurial plunge and founded a company, Interface, with nothing more than a good idea, my life's savings and the faith of a few brave



investors. We grew that company from scratch into the world leader in carpet tiles (modular carpet) with annual sales of more than a billion dollars.

In 1994, at age 60 and in my company's 22nd year, I steered Interface on a new course — one designed to reduce our environmental footprint while increasing our profits. I wanted Interface, a company so oil intensive you could think of it as an extension of the petrochemical industry, to be the first enterprise in history to become truly sustainable — to shut down its smoke-

stacks, close off its effluent pipes, to do no harm to the environment and to take nothing from the Earth not easily renewed by the Earth. Believe me when I say that goal is one enormous challenge.

But as I said, I'm profit-minded and extremely competitive. I thought "going green" would definitely enhance our standing with our customers and maybe give us some good press too. But I also thought it just might be a way to earn bigger profits from doing right by the Earth. No one had ever attempted that kind of transformation on such a large scale before. We aimed to turn the myth that you could do well in business or do good, but not both, on its head. Our goal was to prove, by example, that you could run a big business both profitably and in an environmentally responsible way. And we succeeded beyond my own high aspirations.

Not everyone at my company was happy with this in August 1994. It had been a very good year at Interface. We had weathered a deep recession, we were growing again and very profitable. Why should we conduct this grand experiment when nobody, not even I, knew how it would come out?

We caught plenty of flak from outside the company too. Wall Street heard "environment" and thought "costs." Even after we showed them how reaching for sustainability could take a big bite out of waste



Whichever way we look, from global warming to deforestation, from empty water reservoirs to vanishing species, to the price of a gallon of gas at the pump, the evidence is all around us. The Earth is finite and fragile, and we ignore these plain physical facts at our peril. That's why we need a new industrial revolution.

and save us real money, even after we discovered that running a billion dollar corporation with the Earth in mind was a terrific new business model, there was still a lot of skepticism. There still is some, even though we now have over a decade of hard numbers that prove — beyond a doubt — that our course was both right and smart. Why, then, all the resistance?

I think it's because our transformation flew in the face of all the old rules that still drive the "take-make-waste" economy, old rules that we inherited from the steam-driven days of the first industrial revolution and (many of us) unthinkingly accept as true. That old way of doing business seemed to work just fine when we thought the Earth could provide endless resources, endless energy and endless room to throw away all the stuff we make and waste.

Whichever way we look, from global warming to deforestation, from empty water reservoirs to vanishing species, to the price of a gallon of gas at the pump, the evidence is all around us. The Earth is finite and fragile, and we ignore these plain physical facts at our peril. That's why we need a new industrial revolution.

Conventional wisdom, wed to the status quo, was certain there was no business case for sustainability, that what we started at Interface was misguided, tangential and doomed to fail. Conventional wisdom was wrong.

Consider a few facts. Remember the Kyoto Protocol? It was designed to reduce

greenhouse gas emissions by about 7 percent by 2012 in the United States. Though a small reduction like that doesn't even begin to address the problem of climate disruption, a lot of my peers in industry were sure that if the United States signed on to Kyoto, it would drive them right out of business. Really?

From 1996, our baseline year, through 2008, my business has cut its net greenhouse gas emissions not by 7 percent but by 71 percent (in absolute tons) while our sales increased by two-thirds and our earnings doubled. Profit margins expanded, not contracted, while greenhouse intensity, relative to sales, declined some 82 percent.

While some businesses fret and sweat over rising fuel bills, renewable energy, limitless and available right now, provides electricity to power eight of our 10 factories. The electrical power for seven of them comes entirely from renewables. Our consumption of fossil fuels per square yard of carpet is down 60 percent.

Our company-wide waste elimination measures have put a cumulative \$405 million of avoided costs back into our pockets. Taking a sledgehammer to conventional wisdom has thrown innovation into overdrive.

We've patented machines, processes and products that do a whole lot more with a whole lot less and better too. Each year, more of our products take their inspiration from nature, exhibiting nature's beauty as well as benefiting from her

genius for design that has been perfected over billions of years.

We're making more of our carpets from recycled materials too. At last count, we've kept 175 million pounds of carpet out of landfills and trimmed the scrap we generate and send to the landfills by 78 percent. Now what used to be waste for the landfill goes back into our factories as feedstock. Valuable organic molecules are salvaged to be used again and again, with less fresh oil required each year, emulating nature in our industrial processes. After all, in nature, one organism's waste becomes another organism's food.

We haven't used our final drop of oil quite yet, but I can see that day coming, and I hope to be around when it arrives. Just think about what that could mean for your business, your family and your country. And, if enough people did it, the planet.

In fact, since 2003, we've manufactured and sold over 83 million square yards of carpet with no net global-warming effect — zero — to the Earth. We call these climate-neutral products Cool Carpet™, and they have been runaway best-sellers. That's competitive advantage at its best — doing well by doing good.

Here's the thing: Sustainability has given my company a competitive edge in more ways than one. It has proven to be the most powerful marketplace differentiator I have known in my long career. Our costs are down, our profits are up and our



products are the best they've ever been. It has rewarded us with more positive visibility and goodwill among our customers than the slickest, most expensive advertising or marketing campaign could possibly have generated. And a strong environmental ethic has no equal for attracting and motivating good people, galvanizing them around a shared higher purpose and giving them a powerful reason to join and to stay.

The business case for sustainability is crystal clear, and we're just beginning. You see, there's a mountain out there that we call Mount Sustainability. It is higher than Everest, but we have a plan to climb it — all the way to the top — by the year 2020. We call this initiative Mission Zero.

We will reach the summit when we have cut our last umbilical cord to the mines and the oil wells, when we no longer dump our waste into the landfills or pollution into the air or water, when we no longer take anything from the Earth that the Earth cannot renew rapidly and naturally.

Mind you, striving for the top will require nothing short of a vast, ethically driven redesign of our industrial system, a new industrial revolution that corrects the many things the first one got wrong. But can we do it in time?

I think we can, though I can't promise the climb will be easy or painless. We at Interface have committed ourselves to

bringing sustainability fully into existence, to proving that it is not only possible but profitable — a better way to bigger, more legitimate profits.

Based on our experiences since 1994, I can promise this: Done right, sustainability doesn't cost. It pays. And the view from that summit — looking out on a clean, healthy world for which our children and grandchildren will thank us — will make every step you and I take today for ourselves, and for them, worthwhile.

Excerpted from Confessions of a Radical Industrialist by Ray C. Anderson with Robin White. Copyright © 2009 by the author and reprinted with permission of St. Martin's Press LLC.



Interface Offshoot ReEntry 2.0 Emerges as Recycling Innovator

By Kimberly Link-Wills

Eric Nelson will never forget a 1994 sales meeting at which Ray Anderson outlined his goal for Interface.

"He came out and told us we were going to change the entire course of our corporation and we were going to become a sustainable company. We all looked at each other and said, 'Oh my god, Ray has gone crazy,'" recalled Nelson, IE 91.

"Here we are 15 years later. If you go to interfaceglobal.com, we show the progress we've made each year in waste elimination, in renewable energy, in recycled content. We're about 55 to 60 percent of the way there," said Nelson, now the vice president of ReEntry 2.0, an Interface offshoot launched in 2006 to recycle its carpet as well as its competitors' commercial and residential products at a LaGrange, Ga., facility that employs some 50 people.

"We're just scratching the surface," he said. "This is going to be enormous one day."

ReEntry is tasked with tackling a monumental problem in the carpet industry.

"Six billion pounds of old carpet every year go to landfills in the U.S. alone," Nelson said. "If we can figure out how to make this a profitable business by taking old carpet and making good stuff out of it, then we can expand and open one of these plants in every city in the country and make

a huge dent in that 6 billion pounds.

"We have what some may say is an audacious goal of decoupling ourselves from virgin materials. That means moving to either bio-based materials or recycled materials. When you make carpet, that's kind of a daunting task because everything comes from oil, but we've made some major steps forward," he said.



Nelson went to Italy to acquire a machine used in the leather industry that has been adapted to separate the carpet face from the backing, producing a nylon fluff that can be melted and re-extruded as new carpet fiber or as a liquid for plastics manufacturers.

ReEntry also is working with a company that makes composite lumber, which currently contains virgin polypropylene. Potentially, that lumber could include recycled polypropylene from old carpet, Nelson said.

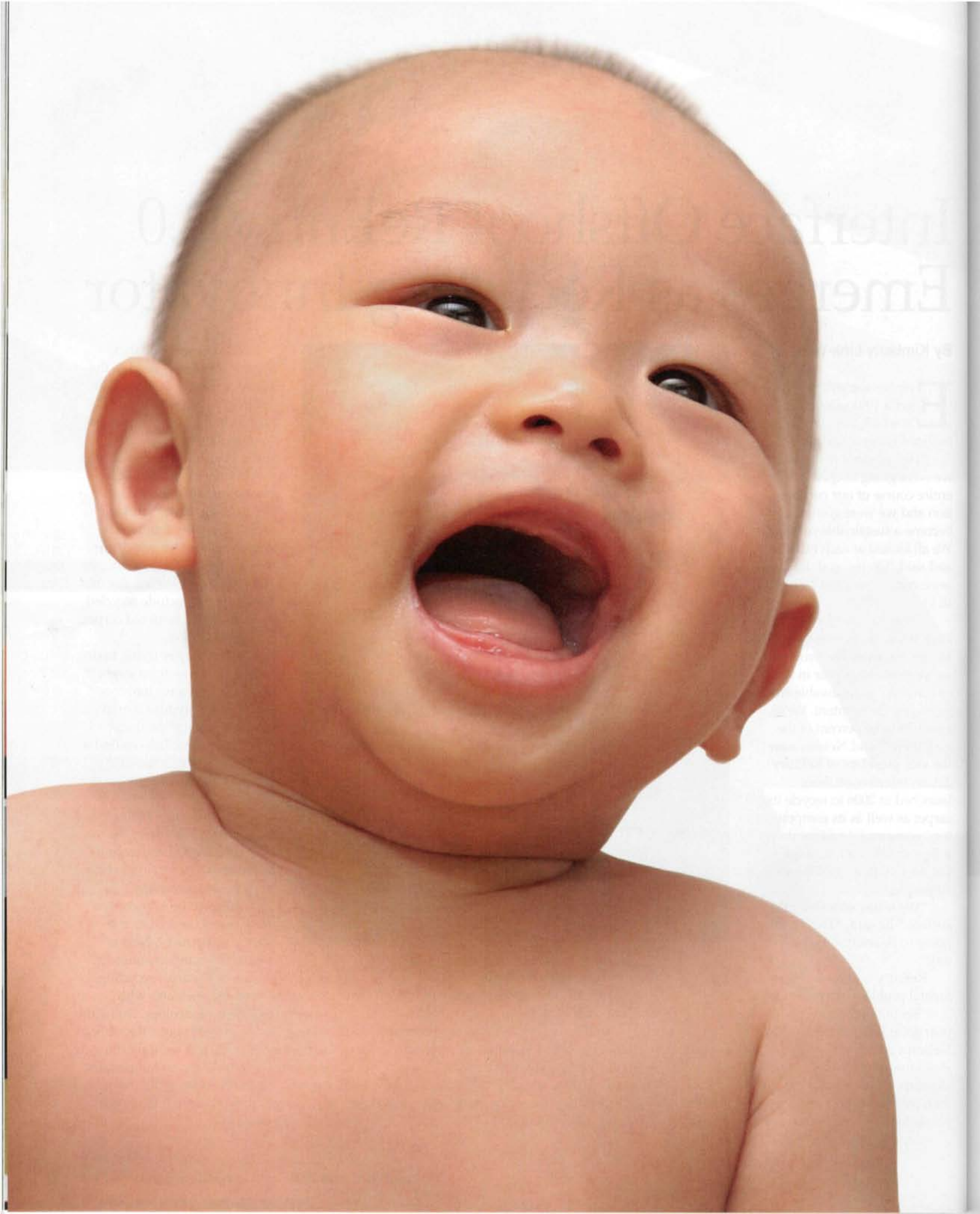
"What they're trying to do is to move away from virgin oil-based polymers into recycled-based polymers to make a more sustainable product and at the same time help us find a home for all the materials."

Nelson is excited about the world of possibilities for recycled materials from old carpet. "We're just at the tip of the iceberg. Think about the volume of old carpet. It's going to be a huge business one day."

Although he is quoted in Anderson's *Confessions of a Radical Industrialist*, Nelson credits the company founder

for inspiring his work in carpet recycling.

"What he says just resonates with everybody, regardless of ideology. Doing the right thing for the planet is not a Republican or Democrat thing. It's just the right thing to do. Ray's message of 'I was an industrialist plundering the Earth and now I'm born again' is a cool thing to hear. It really is a powerful message."





By Kimberly Link-Wills

AMONG THEM, THESE FOUR TECH-TRAINED PHYSICIANS HAVE DELIVERED MORE THAN 28,500 BABIES. THE THRILL OF WITNESSING THE FIRST BREATH NEVER WANES. NEITHER DOES THE THIRST FOR KNOWLEDGE TO IMPROVE THE TREATMENT OF WOMEN AND NEWBORNS. AND FOUR OUT OF FOUR DOCTORS AGREE THEY WEREN'T CODDLED AT GEORGIA TECH, WHICH HELPED PREPARE THEM TO BRING NEW LIFE INTO THE WORLD.

G.B. ESPY, ME 57

Record Setter



G.B. Espy had a tough row to hoe after graduating from Tech just getting to medical school at Tulane University.

"Because I was a cop at Tech, that was five years. I was broker than the Ten Commandments. So the year afterward I literally had three full-time jobs. I taught three five-hour courses in math for four quarters. I had a full 40-hour job at the research center, where I could work day or night. I had a full-time job tutoring," Espy said. "I saved up enough money to go through three years of medical school."

More hard work was ahead as an Army obstetrician/gynecologist stationed at Fort McPherson in Georgia.

"It was during the Vietnam War, and we were working OB calls 15 nights out of the month and the emergency room all night another five. We were taking care of every military dependent for the Army, Marines, Air Force. I think I delivered 500 babies that year," Espy recalled.

Financially struggling to fund his Tech education and physically struggling to meet his military obligation instilled in him a strong work ethic, one that continues to this day. At 74, Espy has no interest in retirement.

"I'm credited from the time I started my residency, military and 42 years of private practice with delivering over 12,000 babies, supposedly more than any other doc in history in Georgia," said Espy during a break from seeing patients at his Marietta, Ga., office.

When pressed, Espy tries to whittle his long obstetrics career down to a single memorable moment.

"Late one night, this was 35 years ago when we did not have anesthesiologists who stayed on the unit all night, I was listening for the baby's heartbeat, the nurse was listening for the heartbeat, and we could not pick it up. I physically picked this lady up, carried her to the elevator, took her up one floor, put her in an operating room as people rushed in instruments and, under local anesthesia, I did a Caesarian section. This baby would have died.

"About 22 years later, I delivered the baby of that baby," Espy said.

His humanitarian work is just as memorable. Espy has made about a dozen overseas missions. "One of the super, super highlights was I went to the Kosovo war and delivered babies of refugees and did surgery in 1998," said Espy, who received a community service award from an Atlanta television station for that mission.

"I've brought over three or four children from war-torn countries and had them operated on and covered their expenses," said Espy, who most recently made it possible for a 7-year-old Iraqi boy to come to Atlanta for a bone-lengthening operation.

"He hadn't walked since he was 2. He'd had 11 operations, and they were going to amputate his leg. For six months, I worked day and night trying to get a visa for him and his father," said Espy, who covered the family's expenses and convinced the surgeon and hospital to waive their fees.

In late August, the little boy, Muham-



mid, appeared at a fundraising dinner for humanitarian work in Iraq. "For the first time since he was 2, he walked across the stage," Espy said, "to thunderous applause."

Espy himself has received plenty of applause. In 2004, the Medical Association of Georgia presented him the Jack A. Raines Humanitarian of the Year Award. In 2005, the Woodruff School of Mechanical Engineering at Georgia Tech gave him its Distinguished Alumnus Award.

His latest mission is not for glory, the



G.B. Espy holds Wesley Borden, whom he delivered July 9. The baby's mother, Allison Borden, says Espy "has truly impacted the world in a positive way."

doctor said, but to improve the lives of Iraqi women.

"I'm bringing mammography to Iraq for the first time in their history," he said. "In the United States, we have a 90 percent five-year survival rate for cancer of the breast. The minister of health in Iraq told me there's never been one single five-year survivor of cancer of the breast in Iraq.

"All these mothers are dying and leaving orphaned children," Espy said. "It's a

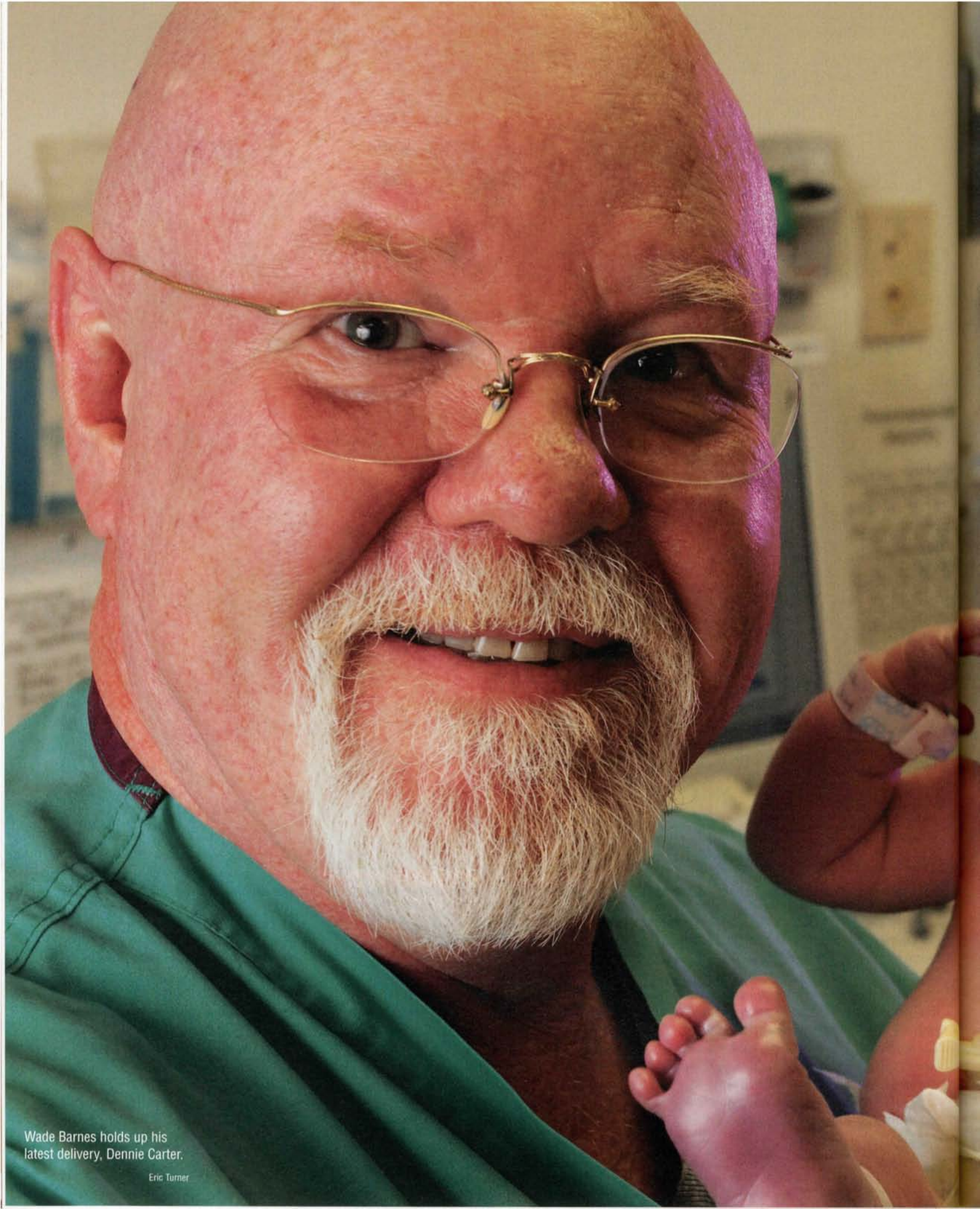
terrible, terrible story, but we're going to turn it around."

Because no one is trained to read mammograms in Iraq, Espy will pay an estimated \$20,000 annually to have the films sent to the United States for diagnosis. He will then have them sent back to Iraq so the films can be used for training.

Espy went to Iraq in June to begin the establishment of a mammography clinic and will return in early November to complete

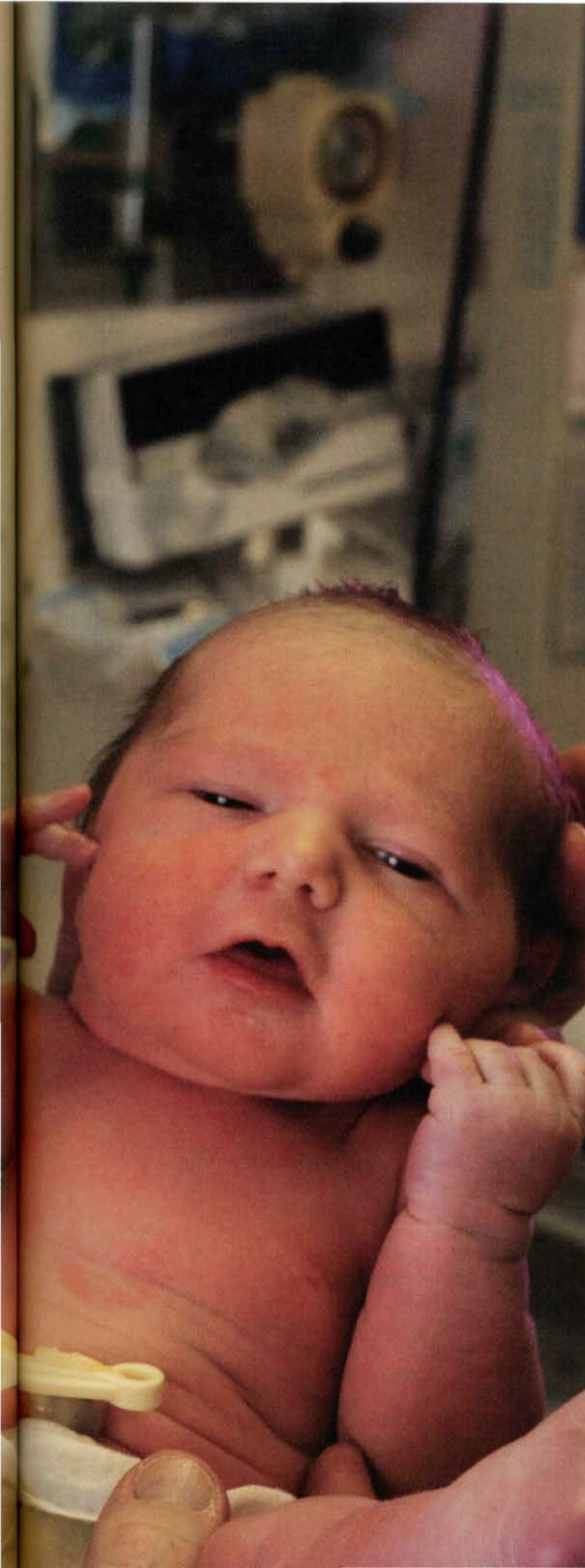
it. He plans on making four trips a year for physician training, the installation of more mammography machines and to work on bringing Pap smears to the country.

In overcoming the cultural barriers that lay ahead, Espy will rely, in part, on "the analytic thinking, the incredible discipline" he learned at Georgia Tech. That discipline also is being called upon as he trains for his 30th New York City Marathon, all 26.219 miles of it on Nov. 1.



Wade Barnes holds up his latest delivery, Dennie Carter.

Eric Turner



WADE BARNES, ABiol 71

And Many More



ade Barnes sings "Happy Birthday" to each baby he delivers. So far, he's sung that tune about 8,600 times.

"I decided to go into OB/GYN mainly because of the happy nature of the business. I love seeing 'my babies' grow up and excel. I have delivered some future Georgia Tech football players, whom I have loved to watch playing on Grant Field," said Barnes, who named Colin Peek in particular and is still proud even though the stand-out tight end transferred to Alabama.

Barnes graduated from the Medical College of Georgia in 1975 and completed his residency in obstetrics/gynecology at the University of Florida/Jacksonville Health Science Center in 1978, the same year he started a private practice. In 1994, he founded North Florida Obstetrics and Gynecology, which now has 28 offices, 57 doctors and more than 400 employees.

"There can be no better preparation for med school than Georgia Tech," Barnes said. "Tech taught me that I could learn anything. Tech required much more complex thought and application of all of the things I had learned. Med school seemed easy compared to Tech."

Barnes enjoys connecting with patients who've had similar experiences. "My greatest fun comes from delivering babies to Georgia Tech couples or seeing kids I delivered grow up to attend Tech," he said.

Barnes delivered Sophia Lee, daughter of Adriana and John Lee, MSE 00, at 12:10 p.m. Aug. 4.

"I actually met Wade before I met my wife," Lee said. "I attended a Georgia Tech Club of Jacksonville meeting in the fall of 2001, and Wade recruited me to help him interview President's Scholarship semifinalists."

After marrying in 2004, Lee, who served three terms as president of the Jacksonville Georgia Tech Club, encouraged his wife to become one of Barnes' patients.

"Wade is beloved by the Jacksonville community," Lee said, "because he gives all his patients the kind of personal attention that is hard to find these days, but he takes a special interest in delivering the babies of Georgia Tech alumni. Throughout the entire pregnancy, Wade treated us like we were part of his family."

DENNIS McCUNNIFF, Chem 77

No Kidding Around



Dennis McCuniff jokes that he wasn't babied at Georgia Tech.

"You either got the job done or were sent home packing. That mind-set also applied to med school, so I was ready for it," said McCuniff, who graduated from the Medical College of Georgia in 1981 and practices obstetrics/gynecology in Winston-Salem, N.C.

"One of the things I learned at Georgia Tech was the importance of collaboration in the educational process," McCuniff said. "I could not have made it through Georgia Tech without the help of many people. I always have learned better when I was learning with colleagues, and that remains true to this day.

"I also learned that when you surround yourself with

people smarter than you, it helps to make you smarter."

McCuniff didn't set out to be a doctor when he enrolled at Tech. "One summer I worked as an orderly at Grady Hospital while taking a couple of classes. I found the doctors and nurses to be special, caring people. They encouraged me to consider medicine as a career."

He delivered his first baby in 1979 as a medical student and said he was hooked from that moment.

"What an incredible thrill it was to hand a mother her beautiful baby," McCuniff said. "I decided then to make it my career and have not regretted the decision. It has remained a thrill over the years."

To date, McCuniff has experienced that thrill an estimated 5,500 times.

"It is always special being present at the moment of birth. On the occasions you are there for a family that has previously lost a baby and are blessed enough to hand them a healthy child, it literally brings tears to everyone's eyes," he said.

In addition to his busy practice, McCuniff is a clinical assistant professor at the Wake Forest University School of Medicine. "Teaching medical students and residents the art of obstetrics and watching them grow in ability and confidence is very rewarding," he said. "Some of those students and residents are now my partners.

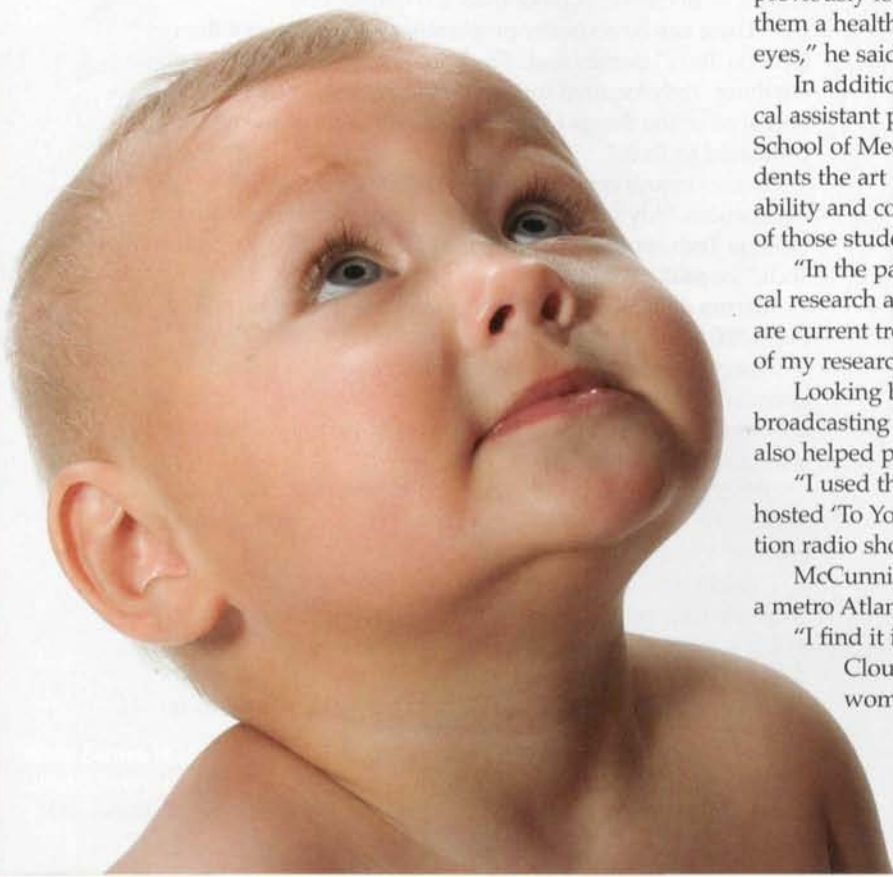
"In the past decade, I also have been involved in clinical research and I find it rewarding knowing that there are current treatments that have been approved because of my research," McCuniff said.

Looking back on his days at Tech, McCuniff said broadcasting Yellow Jackets baseball games in 1976-77 also helped prepare him for his future.

"I used this experience later when I produced and hosted 'To Your Health,' an award-winning health education radio show in Winston-Salem for six years," he said.

McCuniff's Tech roommate, Gerald Clark, ChE 77, is a metro Atlanta pediatrician.

"I find it interesting that two guys stuck together in Cloudman Dorm would go on to care for both women and babies," McCuniff said.





*Dennis E. McCunniff, M.D.
Obstetrics & Gynecology*

JANE ELLIS, Psy 77, PhD Psy 86

The Circuitous Route



Jane Ellis had no idea the path her life would take after she graduated from Georgia Tech.

"Oh boy did I do the circuitous route," said

Ellis, now the medical director of the Emory Regional Perinatal Center at Grady Hospital in Atlanta and an assistant professor of obstetrics and gynecology at Emory University.

"I was going to work with a company to design helicopter cockpits," Ellis said of the decision she made during her last quarter on campus. "One of my professors in the psychology department completely changed my life course. One of his graduate assistants didn't show up one day, and he asked me if I wanted to go to the Yerkes Primate Center to do some observations on some chimpanzees. It changed what I wanted to do. I called the company and told them, 'I'm sorry, I'm not going to take this position.'"

Still, Ellis wasn't sure what she did want to do with her life. She took a year off, "toying with the idea of law school," before returning to Tech. With the notion of a career in biomedical research at Yerkes, Ellis conducted maternal/fetal studies at the primate center during and after the pursuit of a doctorate in psychology, which she obtained in 1986.

"I got a lot of experience at the primate center doing what I do now. I learned how to do amniocentesis, which is when you take some fluid from around a baby, and I learned a lot of basic ultrasound on fetal monkeys," said Ellis, who realized from that work that she wanted to practice medicine on human females and babies.

Because her realization came a bit later

in life, Ellis was more than a decade older than most of her med-school peers.

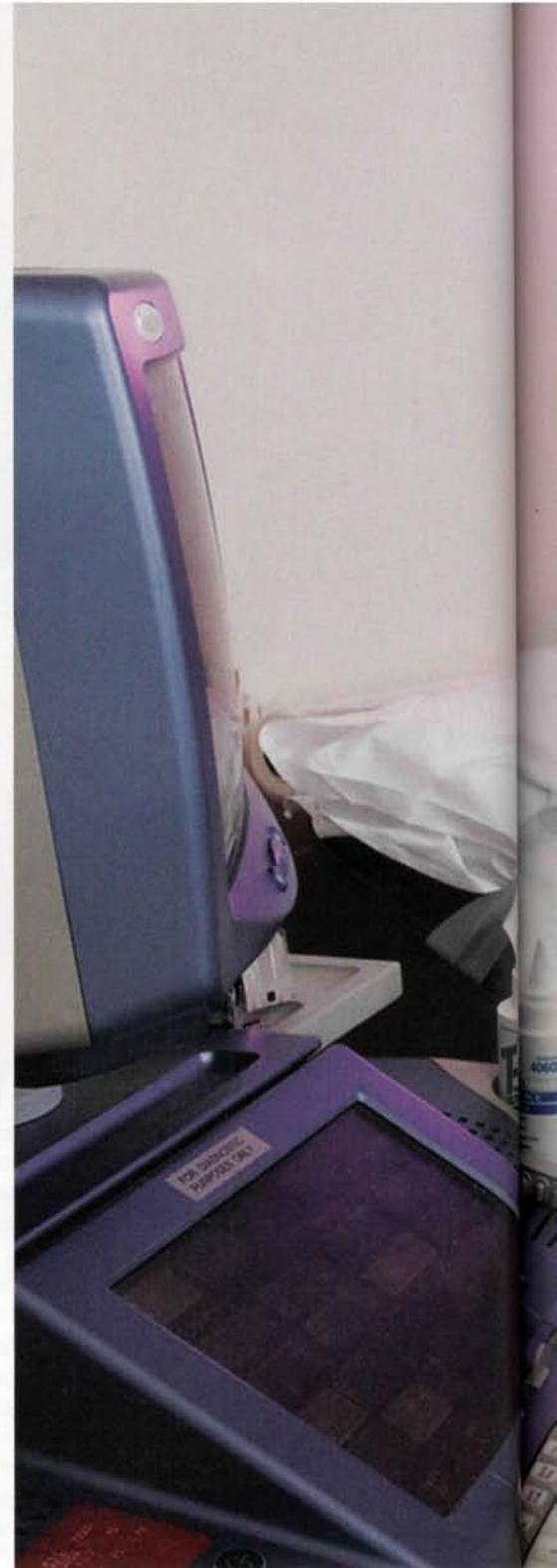
"It was a little bit sobering. There were people at all different levels who could never say it directly but wondered why I was there," Ellis said. "I had my first child in my first year of med school. When the other students went home, they had to read and everything else you have to do to be a good physician, but I also had a newborn, then I had another child when I was a second-year resident. I was also married to a very busy physician in private practice.

"Being older, I did have a bit different perspective on things. I can tell you I probably wouldn't have been a good mother at 20 or 22, so I'm glad I did wait. It did make things harder, but I wouldn't have done it any other way," said Ellis, who joked that husband David Olson and their children, Tyler, 16, and Caroline, 11, might tell different stories.

Ellis, who received her Emory medical degree in 1996 and completed her residency there in 2001, now counsels students who may take meandering paths to med school.

"We're seeing more of the so-called non-traditional students who are going through medical school. It's not unusual to have students who were like me at the time, who have PhDs and are now going back to school. They're in their 30s and 40s. Their learning styles are sometimes a little different. I have to take that into account, but yet in many cases they'll have a different level of maturity than the students we're seeing fresh out of college."

Two years ago the Georgia Tech Alumni Association formed the Health Professionals Affinity Group to bring together graduates of all ages in all aspects of medical-related



fields. President since the group's inception, Ellis will continue to lead the organization, now about 60 members strong, for at least the next year.

Ellis still hopes to help establish a nationwide mentoring program for Georgia Tech students interested in being paired with Institute-trained physicians in their hometowns.

"Here at Grady I can take students occa-



Eric Turner

sionally to shadow me, but I have teaching roles for my own medical students. It's hard for me to accommodate even a small portion of the requests I get," she said.

Ellis, who has welcomed an estimated 2,500 babies into the world, nearly missed a Health Professionals-hosted Homecoming seminar last year because she was treating a woman with a rare pregnancy complication.

"We had this mom transferred in with a

twin-twin transfusion. She was sent to us to attempt to do a tricky procedure that we don't do very often. We were successful at doing the procedure, and then she went back to her regular OB," Ellis said.

She has delivered babies affected by cocaine, methamphetamines and alcohol and, through volunteer work on an American College of Obstetricians and Gynecologists committee, evaluates health

services on American Indian reservations in an effort to improve care for underserved women.

Ellis doesn't even try to hide her emotions when treating patients and related a story when she herself was within just weeks of delivering a child and had to tell a woman that her baby had died in the womb.

"We just sat on the floor and cried."



Imagining the Infrastructure of Tomorrow

Infrastructure defined:

"Infrastructure consists of the constructed physical facilities which support the day-to-day activity of our society and provide the means for distribution of resources and services, for transportation of people and goods and for communication of information.

Examples include roads, bridges, water and sewer systems, airports, ports, public buildings, schools, health facilities, jails, recreation facilities, electric power production, fire safety, dams, levees, communications services, pipelines and rail."

— Reginald DesRoches

Story by Van Jensen

Illustrations by J Chris Campbell

The first blare of warning sounded in August 2005 as New Orleans' levees failed to withstand Hurricane Katrina's floodwaters, leaving more than 1,800 dead and a city submerged. Then, almost two years later, Minneapolis' I-35 bridge suddenly gave way, falling into the Mississippi River, claiming 13 lives.

A report from the American Society of Civil Engineers a year later crystallized the message: America's infrastructure is failing.

The report graded infrastructure areas, with one of the highest scores a C for bridges. But it went on to say a quarter of the country's bridges "are either structurally deficient or functionally obsolete."

Becoming a point of debate during the 2008 presidential election, infrastructure now is seen as connected to sustainability and is firmly entrenched in the public's awareness. The federal government has begun focusing on infrastructure projects, but Reginald DesRoches, a civil engineering professor at Georgia Tech and a leader of the Institute's multidisciplinary infrastructure research effort, worries it isn't enough.

"The spending was focused on fixing and repairing infrastructure systems rather

than looking to developing the type of infrastructure systems we need to support a 21st century economy," DesRoches said. Issues that need to be addressed include "increased urbanization, increasing risks from natural and manmade hazards, the increased complexity and interdependency of infrastructure systems and, of course, limited availability of funding."

In a congressional briefing late last year, DesRoches said, "Improving our nation's civil infrastructure is the key to economic growth, national security and quality of life. We have an opportunity, through research and innovation, to define what the next generation of infrastructure can look like."

More than 125 Tech faculty members are helping to shape that vision through the Institute's interdisciplinary infrastructure research partnership. Their research is broken down into six areas: disaster resilience, new materials, water, transportation, energy and green building.

Looking at each of these areas, one can imagine a future city with an advanced infrastructure inspired by Tech's researchers. Far from a glistening metropolis of science fiction, it would be a city that utilizes often small, practical improvements that make big differences. It's a city, researchers say, that is well within reach.



Disaster Resilience

The situation: In late 2004 a tsunami claimed at least 4,812 lives in Thailand, and less than a year later Hurricane Katrina struck New Orleans. As noted in the book *At Risk*, such disasters only cause damage when they strike where a group of people is vulnerable. According to Tech's civil engineering department, that damage amounts to \$1 billion per week around the world. Disasters such as hurricanes, tsunamis, flooding and earthquakes pose threats particularly to coastal cities. The New Orleans levee failure illustrated that these areas often are unprepared to handle such a disaster. With more people living in coastal areas and climate change said to be causing more storms, the charity Oxfam has predicted the number of people affected by climate-related natural disasters will increase 50 percent by 2015, to 375 million per year. But many cities and regions haven't begun strengthening their defenses against earthquakes and storms.

The solution: The Port of Los Angeles is the busiest in the United States, with more than 160 metric tons of goods passing through per year. Occupying 43 miles of waterfront to the south of downtown Los Angeles, the port is vulnerable not just to Pacific storms but also to earthquakes along the San Andreas Fault. Civil engineering professor Glenn Rix and DesRoches have launched a study with port authorities to use geotechnical and structural engineering to

strengthen it against earthquakes.

Bridges are also at risk to seismic activity, as well as the wear and tear from vehicles and weather. Laurence Jacobs, professor and associate dean of the School of Civil and Environmental Engineering, is developing new ultrasonic monitoring systems to detect structural weaknesses in bridges well before they collapse. That will enable transportation departments to know when to repair and replace bridges. Such a monitor would have immediately detected the cracked steel beam that shut down San Francisco's Bay Bridge for several days in September.

"We are looking to prevent catastrophic failures such as the one that occurred in Minnesota," Jacobs said. "But these techniques can also be used to design the next generation of infrastructure, where the maintenance and prognosis are designed and built into the new infrastructure."

Similar monitoring systems can be used in buildings in earthquake-prone areas, said assistant professor Yang Wang. That would allow damage to be detected and repaired immediately. Wang's research also includes installing smart control technologies to reinforce structures, reducing vibration by nearly half. Even less expensive control technologies such as elastoplastic base isolators and hydraulic dampers can lessen damage.

DesRoches stressed that because a natural disaster can cost billions in casualties and damage, spending on such infrastructure now is of great benefit in the long term.

Infrastructure Report Card

Earlier this year, the American Society of Civil Engineers rated the country's infrastructure and found every area lacking, with an overall grade of D. ASCE estimated a needed \$2.2 trillion investment in infrastructure over the next five years.

Area	Grade
Aviation	D
Bridges	C
Dams	D
Drinking Water	D-
Energy	D+
Hazardous Waste	D
Inland Waterways	D-
Levees	D-
Public Parks and Recreation	C-
Rail	C-
Roads	D-
School	D
Solid Waste	C+
Transit	D
Wastewater	D-

New Materials

The situation: The world of infrastructure is built of concrete and metal. And while structural designs have grown more advanced and stable, the tons of material that make up buildings, levees, roads and bridges have changed little. These construction materials are vulnerable to vibration, corrosion and the elements, which then put them at risk for disaster. During the investigation of the collapse of the I-35 bridge in Minnesota, it was found that parts of the structure had severely corroded, possibly contributing to the collapse. In a study of Georgia's bridges, Tech faculty found that 27 percent had severe corrosion of anchor bolts in steel girder bridge bearings. The creation of Portland cement — used to bind the rock and sand that makes up concrete — causes about 5 percent of manmade carbon dioxide emissions, according to *The New York Times*. The manufacture of materials also contributes to nearly a quarter of worldwide energy consumption, according to DesRoches, meaning they strain both the electrical grid and the environment.

The solution: By incorporating nanoparticles into concrete, cement and metal alloys, researchers at Georgia Tech are creating next-generation construction materials that are more resistant to corrosion and strain.

DesRoches and Ken Gall, a professor in the School of Materials Science and Engineering, have adapted nano-structured metal alloys to improve disaster resistance. Kimberly Kurtis, an associate professor of civil engineering, is studying the potential of photocatalytic TiO₂, or

titania, to protect cement from smog and other corrosive elements, and is examining the potential of limestone powders to make cement stronger.

Kurtis also is studying the potential to create more environmentally friendly cement and concrete. One option is using the ash by-product left over from places such as coal power plants to partially replace Portland cement.

"My group also has worked with the kaolin industry in Georgia to understand how heat-treated clays, or metakaolin, can be used to improve the durability of concrete," Kurtis said.

While such materials might come at a steeper cost, the result is a stronger structure with a smaller environmental footprint. Next-generation materials similar to the ones being developed at Tech were used in the reconstructed I-35 bridge in Minneapolis.

"It's a great example of how new technology can be deployed rapidly even in large-scale, time-constrained projects to bring real benefits to society through the design and construction of more sustainable infrastructure," Kurtis said.



Water

The situation: More than 3 million people die each year from diseases spread through dirty water and poor sanitation, according to the Red Cross. Most of those deaths take place in developing countries where infrastructure is underdeveloped, but problems in water systems exist in developed countries as well. Until a lengthy drought in Georgia ended this year, Atlanta was running dangerously low on water. Lake Lanier remains below full and Georgia continues a battle over water resources with surrounding states. Around the United States, growing urban centers are straining to find enough water to fill their often inadequate or inefficient systems. Water quality is a problem in developed countries as well. Nearly half of U.S. streams and lakes were classified as polluted in 2007 by the Environmental Protection Agency. Additionally, changing climate patterns are predicted to cause increased flooding, which endangers bridges and other infrastructure, and coastal areas face the constant threat of erosion.

The solution: Tech researchers are actively working in developing countries to create practical water infrastructure systems to slow the spread of disease and damaging of resources. Joseph Hughes, a professor and chair of the School of Civil and Environmental Engineering, has led researchers to Angola to create water-distribution systems and clean oil pollution. Kevin Caravati of the

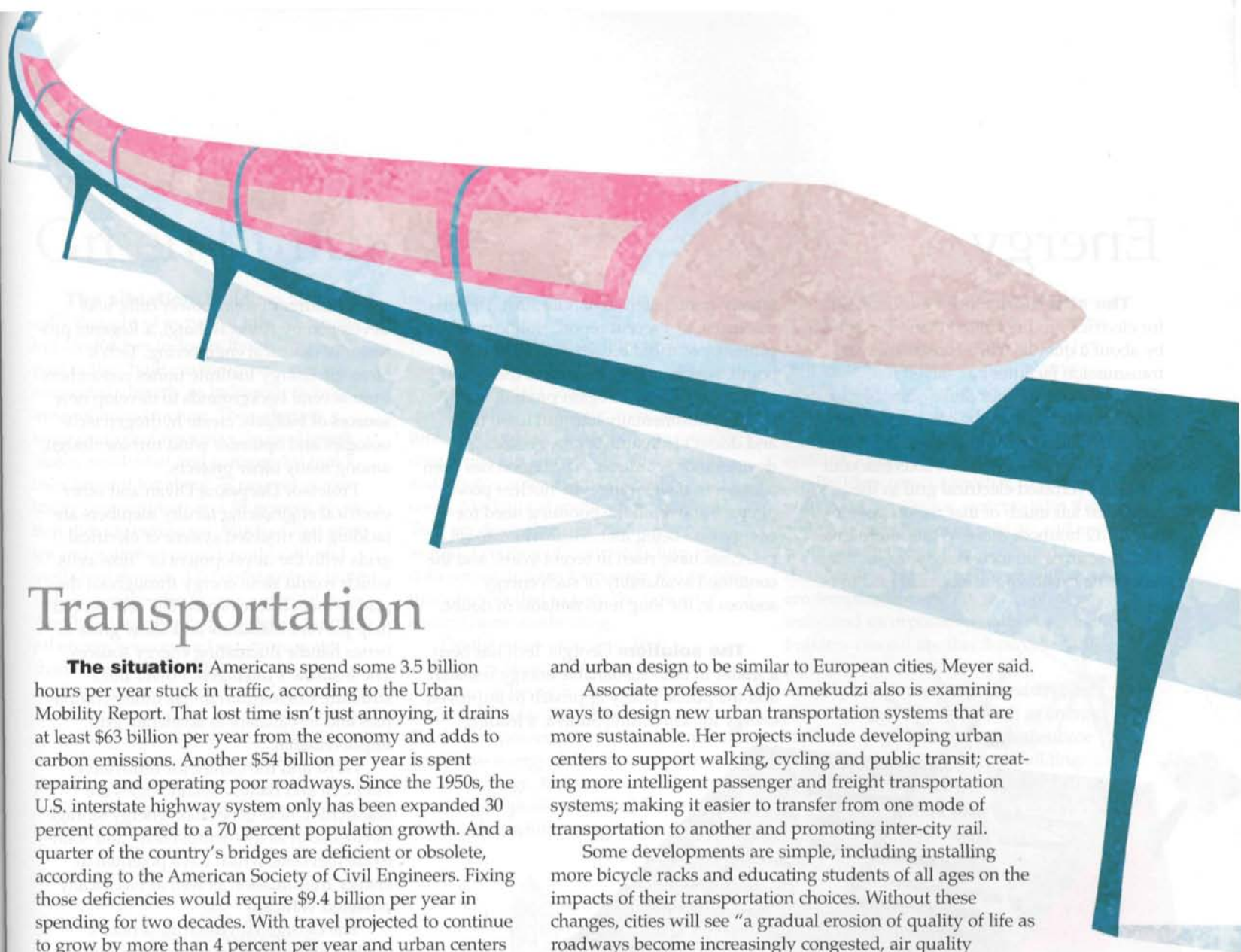
Georgia Tech Research Institute assisted in the effort. Hughes' research team also is examining the metabolic capabilities of bacteria and plants for use in cleaning contaminated water.

John Crittenden, director of the Brook Byers Institute for Sustainable Systems, is helping U.S. cities create better water systems, including using reverse osmosis, hydrogen peroxide and ultraviolet light to purify water. In a study for the New York City Watershed, Crittenden found that measures such as managing and treating storm water runoff and better use of land could prevent the need to build a new \$6 billion filtration center. Other simple changes Crittenden advocates for residential buildings in urban areas are installing systems that collect water for rooftop gardens and cooling water towers that supply water to toilets. Studies have shown such systems can reduce water and sewage bills by a quarter.

Civil and environmental engineering professors Thorsten Stoesser and Terry Sturm are studying the impacts of flooding on bridges to design sturdier piers. Another professor, Phil Roberts, has created techniques using laser-induced fluorescence in seawater desalination.

Researchers at Georgia Tech Savannah are tackling coastal issues. Paul Work, associate director of the campus, and other researchers are examining beach nourishment, tidal power potential, biofiltration and transportation of contaminants.





Transportation

The situation: Americans spend some 3.5 billion hours per year stuck in traffic, according to the Urban Mobility Report. That lost time isn't just annoying, it drains at least \$63 billion per year from the economy and adds to carbon emissions. Another \$54 billion per year is spent repairing and operating poor roadways. Since the 1950s, the U.S. interstate highway system only has been expanded 30 percent compared to a 70 percent population growth. And a quarter of the country's bridges are deficient or obsolete, according to the American Society of Civil Engineers. Fixing those deficiencies would require \$9.4 billion per year in spending for two decades. With travel projected to continue to grow by more than 4 percent per year and urban centers continuing to grow, the country's transportation systems are in need of changes.

The solution: Georgia Tech's researchers are focused not just on making cosmetic changes to the existing transportation system but on creating robust, safe systems that link travel needs, human behavior, urban design and environmental awareness.

"We have not utilized the full promise of available technology in our transportation system, and so my ideal transportation system would use communication, information, system monitoring and other applicable technologies to provide users with information on the many options that would be available for transportation," said Michael Meyer, a professor in the School of Civil and Environmental Engineering.

The system Meyer is designing would involve cell phones, information kiosks, the Internet and other communication technologies. And the system would need a variety of transportation options including roads, rail, bicycle paths and pedestrian walkways. To do so means optimizing land use

and urban design to be similar to European cities, Meyer said.

Associate professor Adjo Amekudzi also is examining ways to design new urban transportation systems that are more sustainable. Her projects include developing urban centers to support walking, cycling and public transit; creating more intelligent passenger and freight transportation systems; making it easier to transfer from one mode of transportation to another and promoting inter-city rail.

Some developments are simple, including installing more bicycle racks and educating students of all ages on the impacts of their transportation choices. Without these changes, cities will see "a gradual erosion of quality of life as roadways become increasingly congested, air quality becomes poorer and businesses refuse to locate in cities because conditions are below acceptable," Amekudzi said.

Civil engineering professor Roberto Leon spent 12 years at the University of Minnesota and said he drove over the I-35 bridge thousands of times. Now, working with the Federal Highway Administration, he's developing a new design for gusset plates — the structures that connect beams and that failed during the I-35 bridge collapse.

Leon's three keys for bridges are using advanced materials, controlling quality during construction and implementing monitoring systems. He stresses that while many bridges need to be replaced because of increased traffic loads, most bridges simply need more repair and upkeep.

"Bridge maintenance is a little bit like preventive medical care for humans," Leon said. "If we do a good job of it, we will have far fewer problems in the future and save a lot of money in the process. Our problem is how do we communicate that need to the public. Infrastructure maintenance, when properly done, is not glamorous or even noticeable, so politicians and the public do not pay attention until a major failure occurs."

Energy

The situation: Since 1990, demand for electricity in the United States has grown by about a quarter while construction of transmission facilities has stayed flat. Congested power lines cause outages and disturbances that cost the economy more than \$25 billion, according to the American Society of Civil Engineers. A 2003 blackout from an overtaxed electrical grid in the Northeast left much of that region powerless for 12 hours or more. While alternative energy sources are increasingly used, reports have shown the electrical grid to be

largely unprepared to handle such irregular resources. In a recent report, public policy professor Marilyn Brown examined the South, which uses 44 percent of the country's energy. But the region predominately uses environmentally harmful fossil fuels and doesn't fully utilize energy-saving devices and techniques. The region has been a leader in developing new nuclear power plants, but overall the booming need for energy isn't being met. Meanwhile, fossil fuel costs have risen in recent years, and the continued availability of such energy sources in the long term remains in doubt.

The solution: Georgia Tech has been a leader in both sustainable energy research and the public policy approach to improved energy infrastructure. Suniva, a leading

manufacturer of solar power cells, was developed by Aheet Rohatgi, a Regents professor of electrical engineering. Tech's Strategic Energy Institute unites researchers from several backgrounds to develop new sources of biofuels, create hydrogen technologies and optimize wind turbine design, among many other projects.

Professor Deepakraj Divan and other electrical engineering faculty members are tackling the troubled system of electrical grids with the development of "flow cells," which would store energy throughout the grid to meet future needs. The cells would help prevent blackouts and allow grids to better handle fluctuating energy sources. The Institute's Intelligent Power Infrastructure Consortium unites utility companies and researchers to accelerate grid improvements.

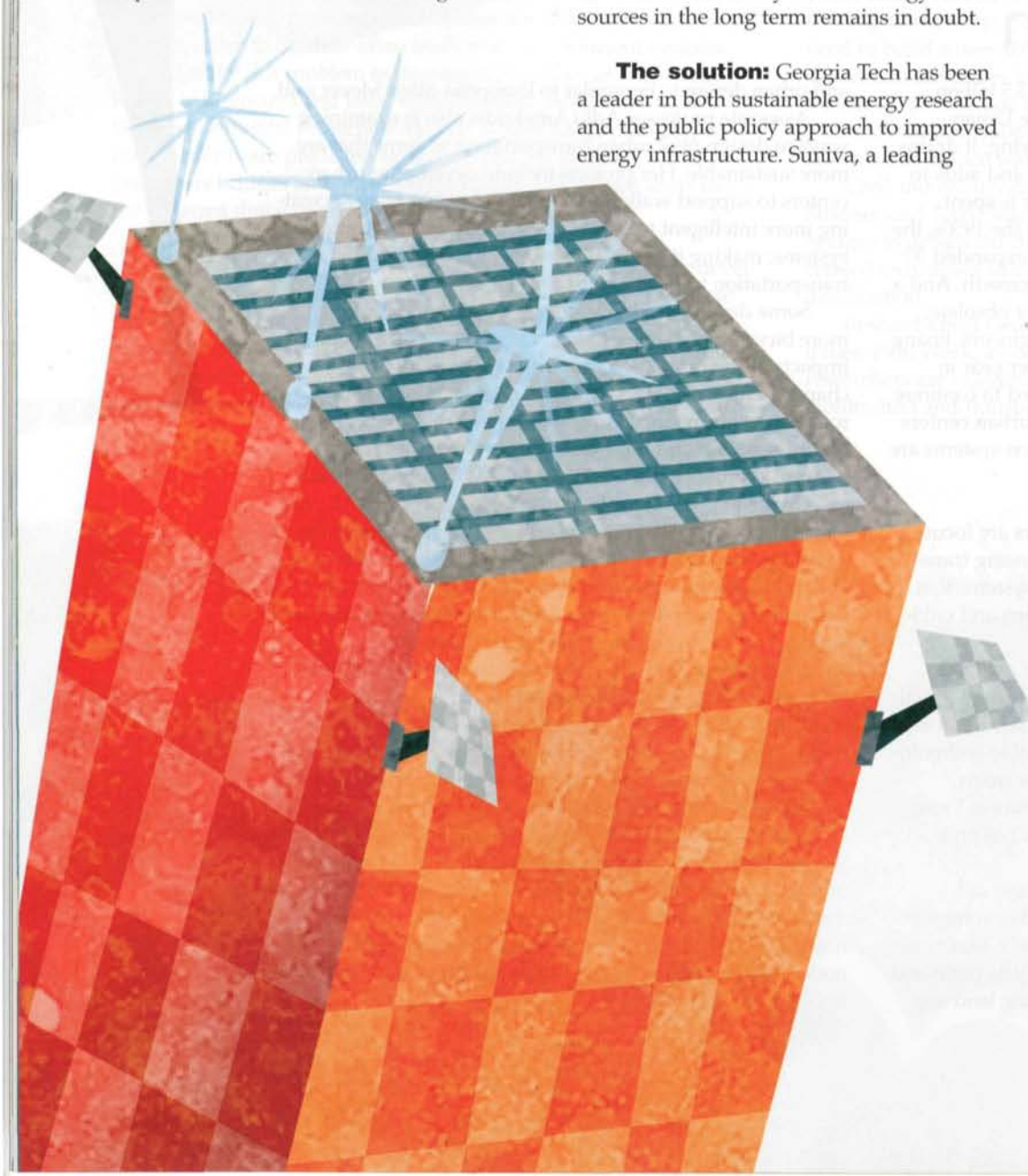
GTRI and the Center for Innovative Fuel Cell and Battery Technologies are researching next-generation energy-storage devices such as low-temperature and solid-oxide fuel cells, which have potential in energy transmission as well as electrically powered vehicles.

The George W. Woodruff School's nuclear engineering program is training a new generation of alumni to work in under-development nuclear power plants, while faculty like professor Nolan Hertel are researching methods to enhance nuclear energy safety.

Focusing on the public policy side of energy, Brown has worked on numerous projects to help energy consumers make basic changes to be more efficient. Those measures include installing efficient appliances, devices and light bulbs and turning off lights when not in use. Such changes could reduce the need for more coal-fired power plants, which would in turn benefit the environment, Brown said.

Improving other areas of infrastructure will benefit energy as well, DesRoches said.

"Developing smarter, more efficient infrastructure will be the key to energy independence," he said. "I think people are beginning to appreciate the connection between energy and infrastructure."



Green Building

The situation: Buildings aren't typically thought of as part of infrastructure, but DesRoches includes them. They are part of the "built environment" and are connected, directly or indirectly, to most areas of infrastructure. They also use a large portion of resources. In the United States, residential and commercial buildings account for about 72 percent of electricity consumption and 38 percent of carbon dioxide emissions. Much of that energy and pollution owes to outdated and inefficient designs. Old construction materials lessen the effectiveness of insulation. And buildings typically underutilize natural energy sources and use more water than is needed. With Internet usage growing by 10 percent per year and more than 1.5 billion people now online, an additional challenge is building efficient facilities to store the data processors needed to support the Internet. A recent report by Credit Suisse estimated that YouTube would lose at least \$400 million in 2009, with much of

the expense owing to data storage.

The solution: As Internet use continues to boom, some of the greatest energy users are data centers — several-acre facilities filled with computing infrastructure. Facebook alone needs three massive data centers to store all the information and photos uploaded by its millions of users. Mechanical engineering faculty at Tech are designing new technology, such as liquid cooling of computer chips, and data server designs to manage the air conditioning needed to keep the powerful servers from overheating.

On the residential side, Tech researchers already have constructed a zero-energy house in the Institute's entry in the 2007 Solar Decathlon competition. The home, powered by the sun, featured a predictive energy delivery controller to optimize usage. But Godfried Augenbroe, an associate professor of architecture, stresses that while energy-neutral build-

ings are desirable, it's far easier and cheaper to cut energy use by about 60 percent.

"Not being stupid saves you 30 percent by building better skins, passive design principles, better shading devices, high-performance windows, good insulation and not sexy but responsibly designed systems," Augenbroe said.

Builders can cut another 10 percent with good ventilation systems with the ability to recover hot or cold air and a solar rooftop boiler for hot water, he said. Another 15 percent can be cut with modern temperature and energy control systems, and incorporating natural ventilation builders can cut another 5 percent to 10 percent.

"Buildings are the prime drivers of infrastructural demands such as energy, traffic, sewage and waste," Augenbroe said. "So without managing buildings as nodes in the system, you cannot deal with the topology of supply and demand, or its infrastructural implementation."



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Seeing the Big Picture

By Kimberly Link-Wills

don't expect to find advertisements for chain restaurants and department stores in *UNSCENE*. Christophe Gauspohl's city guides are "urban navigators" showcasing independent businesses.

Introduced in 2000 in Chicago, where Gauspohl lives, *UNSCENE* has expanded to 12 other cities — Atlanta, Austin, Los Angeles, Minneapolis, New Orleans, New York, Portland, San Diego, San Francisco, Seattle, St. Louis and Cincinnati, his hometown. Gauspohl, Arch 95, lived in Europe in 1995 and '99, and the guides emanated from that experience.

"I went over there to try to push a new direction in my artwork and to DJ. I mainly do installation art where I've taken my architecture background and applied it to more contemporary art-based and symbolic projects," Gauspohl said. "Going to little restaurants, boutiques and cafes in Paris and Madrid really opened my eyes. There wasn't any of the big-box mentality.

"When I came back to the U.S., there was a new phenomenon that I noticed happening in various urban areas, where developers converted entire sectors of cities into outdoor malls," he said. "The manifesto I wrote for *UNSCENE* is all about the cities being our last bastion for individuality, whereas the suburbs and the rural areas all

look the same with McDonald's and Target signs overshadowing old diners and record stores. The death of the town center leads to isolated shopping centers devoid of any sense of community."

Published every six months, 30,000 copies of each city guide include a map as well as addresses and descriptions of shops, cafes and nightlife. The guides are distributed at the advertisers' establishments in addition to hotels and real estate offices and at events. The independent businesses spotlighted get national exposure through the *UNSCENE* Web site.

"This fall we're launching a mobile Web app that is going to be unparalleled in the world. It will launch with a large release of

Almost no one who is working for us has any formal type of marketing background. They might be designers or actors. I welcome them to dress urban funky and not worry about the traditional norms of the dark suit.



new Android phones, which is the rest of the world's rebuttal to the iPhone," he said. "We're on the cusp of integrating GPS technology with navigation. It's going to allow us to say, 'Do you want us to locate you and help you find your way around?' On top of that, it can let you know when you're walking past these places who's offering half-price bottles of wine, who's offering 20 percent off today."

The mobile guide will be an ideal tool for out-of-town visitors, Gauspohl said.

"As soon as you touch down and turn on your cell phone, UNSCENE.com can come up, and you can start your navigation process."

Navigating with the print version of UNSCENE is easy as well. The guide is a 15-inch square folded to a 5-inch one.

"Like architecture, you have to take into consideration the circulation of the space. You have to figure out what's big enough to get all this information in — and that you can hold it open and not look like a fumbling

tourist — and also fit it into your purse or pocket," Gauspohl said.

UNSCENE also is designed to be easy on the wallets of the boutiques and bookstores that pay to be included in the guide. "We have a low price point, which is how we're able to promote these independent businesses that all have really low ad budgets," Gauspohl said.

"We only have two employees, but we have a lot of subcontractors in each city. Almost no one who is working for us has any formal type of marketing background. They might be designers or actors. I welcome them to dress urban funky and not worry about the traditional norms of the dark suit. The main characteristics are people who are well connected within the indie business community. Probably paramount would be the people who are proactive or socially conscious in supporting independent businesses."

Gauspohl had no experience in publishing or sales either. "I saw such a lack

of progression in that world," he said. "There were all these voids that I saw that existed, that people were going with the same old dog kind of publishing. I integrated new sales tactics, new distribution means and new technologies."

UNSCENE's target audience has evolved as the guides have expanded.

"We started out with this 25 to 45 cultured urbanite, but we found out it's used all across the board. The design is made a little more edgy and modern, but because the guide has four-star restaurants and upscale salons next to dive bars and tattoo studios, it appeals to everyone," Gauspohl said.

Yoga studios, flower shops and tattoo parlors all are welcome to pay to be included in the guides. Gauspohl does stay away from "businesses that lack soul, so obviously big-box stores are not invited to be a part of it. On top of that, we'd much rather work with places that have a lot of character. We're not being elitist. It doesn't have to be really chic, it just has to have a certain je ne sais quoi."

Ramblin' Roll

1950s

Rick Downey, EE 57, has published *Pirate Queen: The Curse*. A sequel to his novel *Kwatee*, the book has earned eight awards. Downey is retired and lives in Asheville, N.C., with his wife, Branwen. Information on Downey and his books is available at piratequeenthecurse.com.

Alexander Alan "Alex" Scarborough, ChE 50, received one of the Natural Philosophy Alliance's inaugural Sagnac Awards in May. He was recognized for "a lifetime commitment to excellence in scientific pursuit" and for "empirically consistent models of an expanding Earth, for sound explanations of abiogenic hydrocarbon production and for a theoretical fourth Keplerian law based on phi harmonics between planets." Scarborough presents lectures on his discoveries, which include a fifth law of planetary motion and a model of universal origins as detailed in the 10th edition of his cumulative Energy Series *Origins of Universal Systems: A Brief History of the Right Answers ... Simple and Beautiful*. The book is available at www.alexscarborough.com. Scarborough lives in LaGrange, Ga., with his wife, two children and two granddaughters.

1960s

Thomas J. Pierce Jr., ChE 61, of Bermuda Run, N.C., was elected chairman of the board of directors of Hickory Springs Manufacturing Co., headquartered in Hickory, N.C. The company is one of the largest manufacturers to the furniture and bedding industries, with more than 2,500 employees and more than 60 manufacturing plants in 16 states as well as China.

George B. Pilkington II, CE 61, MS CE 70, M CP 70, received the Lillie Barnes Individual Award from the Older Atlantans Task Force on May 21. He was cited for his work in developing and lobbying for passage of the senior zone policy, which became an ordinance May 13. Pilkington is principal engineer of Pilkington Engineering.

Wayne Robertson, IE 69, was selected as a member of the LEED faculty by the U.S. Green Building Council. Robertson is president of En-

ergy Ace Inc., a sustainability consulting firm located in Decatur, Ga.

G. Thomas Smith, IE 62, a real estate attorney with Smith Sauer & DeMaria in Pensacola, Fla., was invited to become a member of the Attorneys Law Institute. He recently was elected president of Attorneys' Title Fund Insurance Inc.

1970s

Steve Johnson, Phys 79, is an engineer with Scitor Corp., which provides consulting and technical assistance to the federal government. Johnson recently finished building his second homemade telescope, a project that included grinding and polishing the paraboloidal mirror. "Fellow residents of Techwood Dormitory, RIP, may recall the first one crowding their already cramped living space," wrote Johnson, who lives

in Oakton, Va., with his wife, Lynn Rafferty, and their children, Taylor and Russell.

C. Merrill Moter, Arch 72, of Louisville, Ky., has become an accredited green roof professional and LEED-accredited professional. He is among the first group of green roof professionals in North America and is the only Kentucky-based architect to have completed the requirements. Moter is principal-in-charge of Louisville-based Joseph & Joseph Architects.

Craig J. Mundie, EE 71, MS ICS 72, was named one of the world's top 25 masters of innovation by *BusinessWeek* magazine in its 2009 rankings of the most innovative companies. Mundie has served as Microsoft's chief research and strategy officer since 2006.

King C. "Tim" Timmons, IE 74, has been awarded a medal of valor by the Spartanburg



Wing Presentation

Jud Ready, MSE 94, MS MetE 97, PhD MatSci 00, faculty adviser to the Yellow Jacket Flying Club, accepts the donation of a Piper Apache from Zack Norville, TE 51, chairman of Norville Industries, who also gave \$50,000 to the School of Polymer, Textiles and Fiber Engineering.

Ramblin' Roll

County Sheriff's Office for his participation in the capture of a murder suspect. Timmons has been a reserve deputy since 2003. He worked at Oxford Industries for 31 years and, after successful cancer surgery, got his teaching certificate. He now teaches math at Chapman High School in Inman, S.C. He and his wife, Diane, live in Wellford, S.C. The couple have two grown children, including K.C. Timmons, IE 97, and four grandchildren.

Gary T. Williamson, Math 74, has been promoted to vice president and chief information officer for Georgia System Operations Corp. As CIO, he supports Georgia's rural electric companies Oglethorpe Power Corp. and Georgia Transmission Corp. in addition to Georgia System Operations.

1980s

Anthony Joseph Borrelli, Econ 89, is chair and associate professor in the department of communication and journalism at Shippensburg University. He lives with his daughter, Elinor, in Chambersburg, Pa.

Brian Lawrence Evans, MS EE 88, PhD EE 93, has been elevated to fellow of the Institute

of Electrical and Electronics Engineers for his "contributions to multicarrier communications and image display." He was recognized for his ideas to increase data rates in wireless base stations and DSL receivers, as well as to improve visual quality for printed images. Fellow is the highest membership status within IEEE. Evans is a professor of electrical and computer engi-

neering at the University of Texas at Austin.

Rebecca Lane Oesterle, MgtSci 83, has received a master's degree in packaging sciences from Rochester Institute of Technology. Oesterle is the manager of global packaging development for Energizer Household Products in St. Louis.

J. Kevin Pope, IE 87, has been promoted to the rank of colonel with the Army. He is attending the Army Senior Service College Fellowship Program at the University of Texas at Austin. Pope and his wife, Angelita, have a daughter, Allison, 8, and son, Kevin, 13.

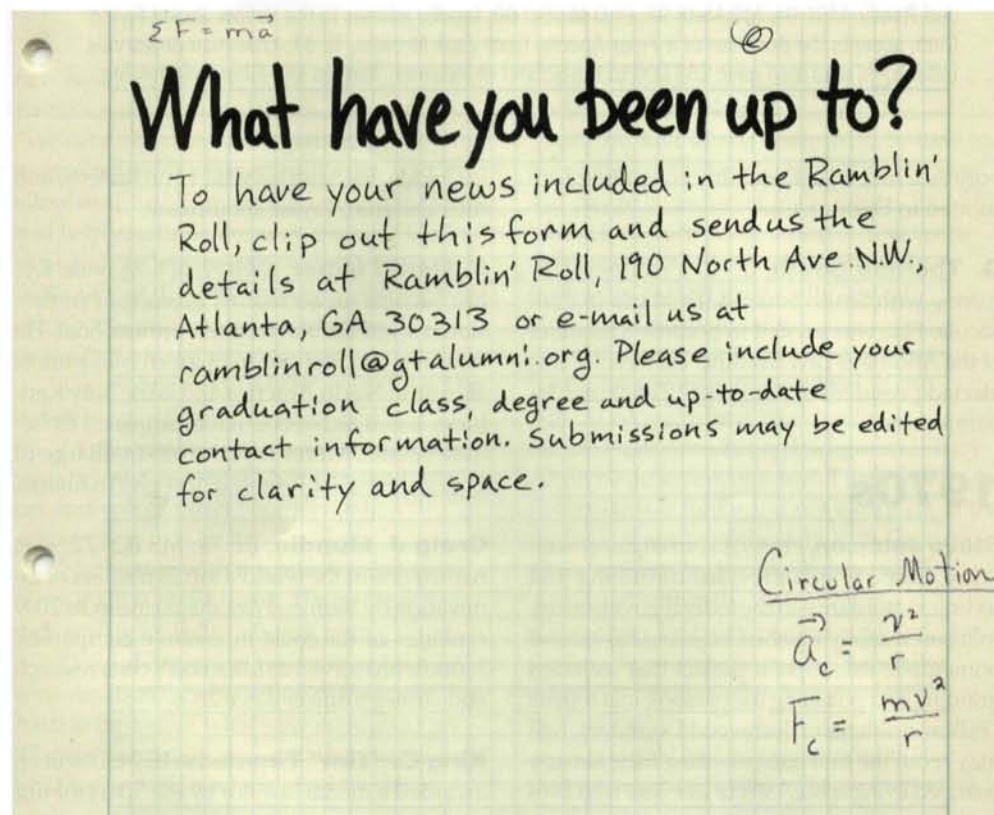
Gregg Worley, ChE 86, and his wife, Karla, announce the birth of a daughter, Anslie Lynn, on May 21. Anslie joins sisters Josie, 2, and Maisie, 5, at the family's home in Dunwoody, Ga. Worley is chief of the air permits section for the Southeast region of the U.S. Environmental Protection Agency.

1990s

Kim Oliver Bell, Mgt 97, and her husband, Chuck, announce the birth of daughter Blake Ly Mae on June 19. She joins sister Lucy Hope at the family's home in Atlanta. Bell is employed by the North Georgia Conference of the United Methodist Church.

Trisha Anderson Chambard, ChE 98, and her husband, John, announce the birth of a daughter, Sydney Mae, on July 28. Sydney joins

Bill George, IE 64, launched the Web site www.billgeorge.org to coincide with the publication of his latest book, *7 Lessons for Leading in Crisis*. Described on the author's Web site as "the must-read survival kit for anyone in a leadership position," the book offers such advice as "Don't be Atlas; get the world off your shoulders" and "Get ready for the long haul." George, the former chairman and CEO of Medtronic, is a professor of management practice at Harvard Business School as well as the author of three best-selling books. Last year, he was awarded an honorary doctorate from Georgia Tech.



her brother, Jack, 2, at the family's home near Washington, D.C. Chambard works for Exxon-Mobil.

Stefanie Sherwood Ezratty, Mgt 99, and husband **Michael Joseph Ezratty**, Mgt 99, announce the birth of daughter Vanessa Joelle on June 30. Stefanie is a senior project manager with Signature Consultants, and Mike is an account executive with EDS, an HP company. The family lives in Huntersville, N.C. Vanessa is the granddaughter of Steve Sherwood, Phys 73, of Kennesaw, Ga.

Susan Fisher, CS 99, who earned a master's degree in computer science from the University of North Carolina at Chapel Hill, married Julian Yu Fong on June 27. The couple both are employed at Pixar Animation Studios in Emeryville, Calif.

Mark Gillespie, MS ME 98, and his wife, Trixy, announce the birth of a daughter, Caroline Emma, on June 15. She joins her brother, Connor, 2, at the family's home in Odessa, Fla. Gillespie works for Progress Energy Florida.

Harrison J. Hummel IV, Mgt 98, vice president of technology for Hummel's Office Plus, has been elected to the national board of directors for Independent Stationers Group, a cooperative of hundreds of independent office-supply dealers across the United States, South America and the Caribbean. Hummel will serve a three-year term as a board member and also serve as treasurer.

Jarvis Jerel Jackson, EE 96, and wife Nicole announce the birth of a son, Jordan Warren, on March 16. Both Jarvis and Nicole are contractors for the Centers for Disease Control and Prevention. The Jackson family lives in Atlanta.



Renu Kulkarni, MgtSci 85, has joined Georgia Tech as head of the FutureMedia Initiative, which pulls together the Institute's research, entrepreneurial and commercialization expertise in social and digital media. Kulkarni comes to Tech from Motorola, where she served as vice president for technology partnerships. Kulkarni has 20 years of experience in transforming research into new products and developing new businesses. The FutureMedia Initiative reports to the Georgia Tech Research Institute and the Enterprise Innovation Institute.



Come Fly With Us

Yellow Jackets swarm the Naval Air Warfare Center Aircraft Division in Patuxent River, Md. They include, left to right, Joe Foster Jr., EE 90, an electro-optics/infrared systems flight test engineer; Andy Tebbano, EE 00, lead tactical data link engineer for the E-2D Hawkeye; Mike Harris, AE 04, lead Navy flying qualities, flight controls and performance flight test engineer; Lori McCullough Gallo, ISyE 85, F/A-18 mission system technology lead; Alex Hoffman, AE 07, flying qualities and flight controls engineer on the F-35; Jennie Teague Mitchell, AE 06, a V-22 flight test team member; Zantiago Zurita, AE 04, F/A-18 Hornet flight test engineer; Thomas Riney, AE 07, flight test engineer; and, in the cockpit, John Tougas, AE 88, MS AE 91, a retired Navy pilot now an F/A-18 experimental test pilot for Boeing.

Carl S. Kirkconnell, ME 90, MS ME 92, PhD ME 96, has been appointed chief technology officer of Iris Technology, an Irvine, Calif.-based defense contractor that specializes in military power systems and space electronics. Kirkconnell has been awarded eight U.S. patents and has six pending in the area of cryogenic refrigerator design. Prior to joining Iris Technology, Kirkconnell held positions at Raytheon as senior fellow and product line manager for the company's space cryocooler production

and development programs and was lead technologist for all of Raytheon in spaceborne cryogenic system design.

Brian Leary, Arch 96, MCP 98, vice president of Atlantic Station, has been named president and CEO of Atlanta BeltLine Inc. The proposed BeltLine will combine transit, trails and green space in a 22-mile corridor encircling downtown Atlanta.

Jamie Janus Lilly, EE 94, recently co-founded Lilly Young & Associates, a women-owned firm in Norcross, Ga., that specializes in mechanical/electrical engineering in the building construction industry. The firm is certified as a women's business enterprise.

Alice Tilzey McConnell, CE 98, and **Dan McConnell**, CmpE 99, announce the birth of their daughter, Evelyn Clair, on May 19. Alice is taking a leave of absence from her engineering position to be a full-time mother. Dan is employed as a product marketing strategist

Ramblin' Roll

with Dell. The McConnell family lives in Round Rock, Texas.

Marc McGrath, Mgt 97, was promoted to senior vice president at Georgian Bank. McGrath will continue leading the IT department, for which he manages four technology experts. McGrath, who joined the bank two years ago, has worked in the bank technology industry for more than 12 years.

Stacy Priest Nadeau, AE 91, and her husband, Jeff, celebrated son Aaron Jeffrey's first birthday on Oct. 6. The Nadeau family, which also includes sons Eric, 3, and Ian, 5, lives in Canton, Mich.

Brian O'Connor, CE 99, and Lindsey Destino O'Connor, IE 03, of Marietta, Ga., announce the birth of a son, Arthur "Art" Gregory, on Aug. 6. Brian is a transportation engineer for Gresham, Smith and Partners. Lindsey is senior business analyst at The Home Depot.

Brian K. Payne, IE 96, has been promoted to partner with Accenture, a global management consulting, technology services and outsourcing company. He is a leader in Accenture's talent and organization performance practice focused on managing organizational change within the utilities industry. He and his wife, **Heather Simon Payne**, ChE 99, live in Chapel Hill, N.C., where she is in her second year at the UNC School of Law.

Mark Pinion, Mgt 90, has been promoted to senior vice president and senior credit officer at Georgian Bank. He will manage risk management and underwriting for corporate and commercial banking, leading a team of six credit underwriters. Pinion, who earned an MBA in corporate finance from the University of Georgia, joined the bank two years ago.

Andrew B. Platten, ME 99, and his wife, Oanh Bui-Platten, announce the birth of a son, Matthew, on July 14. A lieutenant commander with the Navy, Platten is the engineer on the USS West Virginia. They live in Kingsland, Ga.

Alice Torres Roby, Chem 99, and Darrin Roby, CE 00, announce the birth of son Cael Magnus "Gus" Roby on April 14. He joins his sister, Erin, 4, at the family's home in Palmdale, Calif. Alice is a full-time mother, and Darrin is a project manager for Layton Construction.



Portman Exhibit

This chair is part of the John Portman: Art & Architecture exhibit at the High Museum of Art in Atlanta through April 18. Fifteen architectural projects, from the Hyatt Regency Atlanta to Marina Square in Singapore, will span five decades of Portman's career and will be represented with large-scale photographs, design plans and architectural models. The exhibition also will feature furniture, paintings and sculpture by Portman, Arch 50. Most have never before been publicly exhibited. In September, Portman received the lifetime achievement award at the Governor's International Awards ceremony.

Michael Stafford, EE 95, MS ECE 03, and his wife, Jennifer, announce the birth of a son, Aiden Michael, on July 23. He joins his brother, Cole, 4, at the family's home in Roswell, Ga. Stafford is a senior systems engineer with Lockheed Martin in Marietta.

Heidi Clark Sutton, CE 92, and her husband, Kevin, announce the birth of son Logan Fredrick in November 2008. Logan's twin sisters, Lauren and Leah, are 9 years old. Sutton, a member of the Hawaii Air National Guard, currently is working with the 169 Civil Engineer Squadron with the South Carolina National Guard. The Sutton family is en route to an active duty station in Mississippi.

Justin H. Wiedeman, MS CE 93, of Atlanta, has been appointed to the state Board of Cor-

rections by Georgia Gov. Sonny Perdue. A 5th Congressional District representative, he is a partner, project manager, management committee member and financial manager with Wiedeman and Singleton Inc., a civil and environmental engineering consulting firm.

2000s

Bahareh Azizi, PhD Chem 05, research support manager in Tech's School of Chemistry and Biochemistry, is running for the Atlanta City Council District 6 seat in the Nov. 3 election.

Shane Bailey, IE 02, of Acworth, Ga., was promoted to operations support process improvement leader for Shaw Industries in August. He had served as operational deployment Lean Sigma Black Belt since July 2007.

Let Them Eat Cakes & Ale

By Leslie Overman

A large chalkboard hangs on a wall of the Decatur, Ga., restaurant Cakes & Ale. Among the menu items scrawled across the board in late August were chilled watermelon soup, smoked pork belly BLT and homemade ginger ale and peach sorbet float.

If you drop by the pub hoping to try one of these mouth-watering dishes, you may be disappointed. The restaurant's menu changes often, sometimes even daily, so the chefs may take advantage of the freshest local ingredients.

Kristin Whittington Allin, IE 97, and her husband, Billy, are co-owners of the restaurant, which takes its name from a line in Shakespeare's *Twelfth Night* signifying the "good things in life," said Allin.

The eatery seems to be making good on its promise. Cakes & Ale was named one of the top 10 best new restaurants in America in the September issue of *Bon Appetit* magazine.

The positive press has meant the restaurateurs have had to turn away some would-be patrons. The cozy space seats just 54 diners. "That's the only problem we have right now," said Allin, "which is a good problem to have."

While her husband is busy in the kitchen as executive chef, Allin is tasked with keeping "everything running," she said. That includes doing books, managing employees, meeting with wine vendors and PR people and making sure there are fresh flowers for the tables. When not at the restaurant, she's home tending to sons Liam, 5, and Van, 2.

Allin got her start in the restaurant industry while she and her husband were living in California. The couple, who were married in '97, relocated to the West Coast for Allin's job in sales and marketing with Eaton/Cutler-Hammer, a company that sells electrical equipment. When Billy's job in finance required another move, the couple decided to take a "leap of faith," Allin said.

"We could've moved with them, or he could've done what he always wanted to do," she recalled. "I worked and sup-



ported us while he went away to culinary school."

By the time her husband began working in restaurants, Allin had obtained an MBA from Saint Mary's College of California — and an interest in the restaurant scene. So she took a job at a winery.

Following the birth of their first child, the Allins returned to Georgia and began looking into opening a restaurant. While Billy worked as a sous chef at Watershed in Decatur, Allin cared for their baby and worked on a business plan.

"It helped me a lot to be a Georgia Tech graduate because I could see the project or see a problem we were trying to surpass and just hit it at every angle until we figured out how to solve it," she said. "I guess you have to work so hard to get through some of the classes at Georgia Tech that you don't realize until later that maybe what they were trying to do the whole time is give you this work ethic and this ability to keep going."

Cakes & Ale may owe its success to the care the Allins take in shopping for produce and proteins.

"We just are very picky about where everything comes from," she said. "That came with us from California — and really it's prevalent here too — just being concerned about how far everything has traveled and how it was raised."

A portion of the restaurant's produce comes from a half-acre garden at the Allins' home. Other items are purchased at local farmers markets or from farmers and vendors the couple have researched.

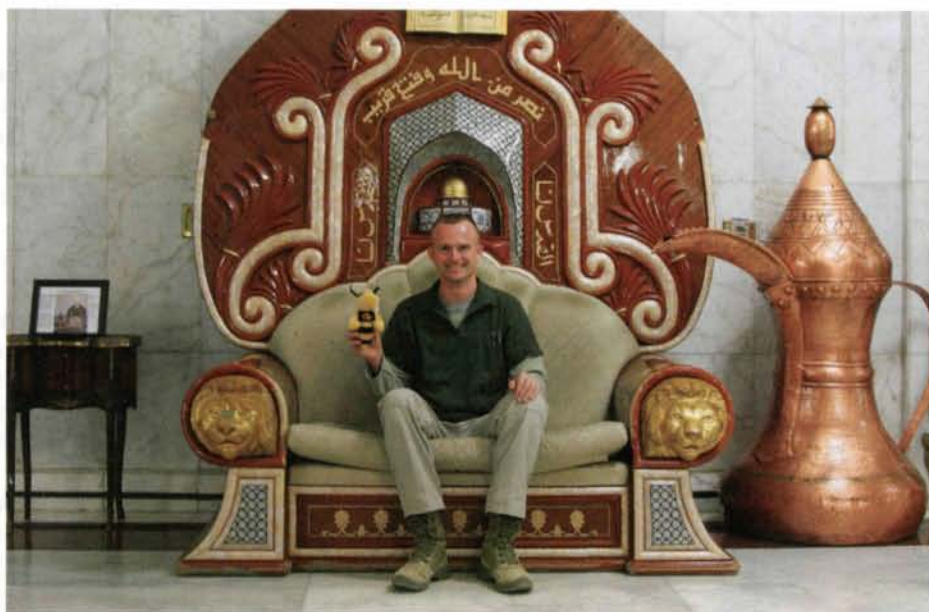
Cakes & Ale's attention to detail has prompted the city of Decatur to recruit Allin for help with community projects. She's now working with the city to develop a Saturday farmers market. She's also provided ideas to a committee working on a sustainable restaurant program the city is piloting. Cakes & Ale has its own water filtration system, eliminating bottled water waste; prints its menus on 100 percent recycled paper; and composts its vegetable scraps.

Allin also has become involved in a Decatur farm-to-school program, which will promote healthy eating habits among children by teaching them about nutritious foods and allowing them to pick fruits and vegetables from gardens and participate in hands-on cooking tutorials in the classroom.

With the opportunities the restaurant has brought her, Allin doesn't anticipate returning to an industrial engineering career anytime soon.

"I guess I always thought success was being a top manager at a large company, but there are different successes," she said. "I think this is success in a different way."

Ramblin' Roll



Jan Osburg, MS AE 96, in June completed a six-month stint in Baghdad, where he provided strategic support to Multi-National Force-Iraq under the leadership of Gen. Ray Odierno. As part of a joint interagency task force based at Camp Victory's Al-Faw Palace, a former home of Saddam Hussein, Osburg developed and refined plans to counter al-Qaida and other terrorist groups and helped to coordinate their implementation. He also took a moment to have his photo taken with Buzz atop Hussein's former throne. Osburg was a research engineer at the Aerospace Systems Design Laboratory from 2003 to 2007 and a postdoctoral fellow of the Sam Nunn Security Program at Georgia Tech in 2006-07. Osburg now lives in Pittsburgh, where he works for the RAND Corp.

Adam Caplan, ME 03, and his wife, Amy, announce the birth of a son, Ryan Joseph, on July 18. Ryan joins his sister, Jana, 2, at the family's home in Dunwoody, Ga. Caplan is a mechanical engineer with Kliklok-Woodman, located in Decatur.

Kelly Farrell Crosby, HTS 04, and **Justin Derry Crosby**, EE 04, MS ME 06, announce the birth of a son, Jack Derry, on July 24. Kelly is a commercial property manager for CB Richard Ellis/New England, and Justin is a transducer engineer for Bose Corp. The family lives in Southborough, Mass.

Meredith Dreher, Mgt 09, married **Peter Freeman**, Mgt 09, on May 9. The couple live in Pensacola, Fla., where Freeman is studying to become a naval flight officer.

Bob Holt, Econ 02, married Mia Stendahl on Aug. 15. Holt is a Web producer in communications and marketing at Boston University. The couple live in Boston.

Jessica Keesee, ME 01, graduated from Georgia State University College of Law and joined Finnegan, Henderson, Farabow, Garrett and Dunner LLP as a patent attorney in the firm's mechanical practice group.

LeeAnn Lands, PhD History of Technology

01, associate professor of history and American studies at Kennesaw State University, has been named interim director of the university's master of arts in American studies program. Lands' book, *The Culture of Property: Race, Class and Housing Landscapes in Atlanta, 1880-1950*, will be published this year by the University of Georgia Press.

Sarah Beckenhauer Lightner, IE 01, and her husband, Chris, announce the birth of a daughter, Catherine Rose, on June 15. Catherine joins her sister, Caroline, 2, at the family's home in Marietta, Ga. Lightner is a full-time mother.

George Lountos, Chem 00, PhD Chem 05, received a 2010 Fellows Award for Research Excellence in the protein structure/structural biology study section from the National Institutes of Health. Lountos also received a Federal Technology Transfer Award from the National Cancer Institute for the development of CHK2 inhibitors as potential oncology therapeutic agents. He is a postdoctoral fellow in the Macromolecular Crystallography Laboratory at the National Cancer Institute at Frederick, part of the National Institutes of Health.

Brooke Burger Marshall, Mgt 03, and her husband, Justin, announce the birth of a son, Britton John, on April 1. Marshall is a search en-

gine marketing manager for Gazelle Interactive. The family lives in Orlando, Fla.

Ivy Holcomb Martin, IE 02, and **Neal Martin**, PFE 03, announce the birth of a son, Eli Colt, on April 15. Ivy is a full-time mother. Neal, a business analyst for Michelin North America, is pursuing an MBA at Clemson University and expects to graduate in December. The family lives in Spartanburg, S.C.

Grace McGee, IntA 09, and **David Miller**, CE 08, MS CE 09, were married Aug. 8. McGee is pursuing a career in art. Miller, who is an ensign in the Navy, is training to be an officer on a nuclear submarine. The couple live in Mount Pleasant, S.C.

Lindsey Destino O'Connor, IE 03, and Brian O'Connor, CE 99, announce the birth of a son, Arthur "Art" Gregory, on Aug. 6. Lindsey is senior business analyst at The Home Depot. Brian is a transportation engineer for Gresham, Smith and Partners. They live in Marietta, Ga.

Darrin Roby, CE 00, and wife Alice Torres Roby, Chem 99, announce the birth of a son, Cael Magnus "Gus" Roby, on April 14. Gus joins his sister, Erin, 4, at the family's home in Palmdale, Calif. Darrin is employed as a project manager for Layton Construction, and Alice is a full-time mother.

In Memoriam

1930s

Remer Hamilton Crum, Cls 33, of Atlanta, on Aug. 8. Mr. Crum retired from the U.S. Forest Service as Southern road engineer in the 1970s and worked as an investor and real estate manager. A member of the American Society of Civil Engineers, he lived in Honolulu in the 1940s while helping rebuild Pearl Harbor. He was a lifetime member of the board of trustees and the Presidents Club and named a doctor of laws at Mercer University and a lifetime fellow and doctor of philanthropy at LaGrange College. He served as president of the Fisher-Crum Foundation until his death.

John Hudson Holcomb Jr., ChE 35, of Birmingham, Ala., on Aug. 24. In 1948, he joined his father in business at the Britling Cafeteria Co., for which he later served as president. An employee of Merck and Co. earlier in his career, he was manager of the Merck Stonewall Plant in Elkton, Va., during World War II. A member of Beta Theta Pi fraternity at Tech and a life deacon at his church, he also was a recipient of the Salvation Army's William Booth Award for outstanding service to the community.

1940s

William Lawrence Aycock, GE 41, of Fayetteville, N.C., on July 17. After selling Aycock Gas Co. in 1963, he worked as an engineer and later a personnel manager for North Carolina Natural Gas for 30 years. A first lieutenant in the Army during World War II, he continued service in the Air Force Reserve until 1955.

John S. Brown, Cls 43, of Dallas, on July 21. In 1956, he moved to Dallas, where he founded Brown Aero Corp. and in 1958 was a founder of Addison Airport. Mr. Brown served as a director of Texas Bank & Trust and was active in the management of E.W. Brown Properties until 1990. Mr. Brown, who received a pilot's license in 1940, accumulated more than 6,000 air hours in his lifetime. In 1943, he received an aeronautical engineering degree from Spartan Aeronautical Institute and was commissioned as a second lieutenant in the Army Air Corps, serving as a pilot until 1945. Mr. Brown was a member of the Institute of Aeronautical Sciences, Chi Psi fraternity, the

Dallas Gun Club, the National Rifle Association and Conquistadores del Cielo, an honorary organization that includes former astronauts and aviation pioneers.

James Richard Chapman, ME 49, of St. Augustine, Fla., on Aug. 4. After retiring from Mead's packaging division as a technical services manager, Mr. Chapman was a jewelry appraiser. He was a B-17 pilot during World War II and a member of Pi Tau Sigma while a student at Georgia Tech.

Robert G. "Bob" Erwin Jr., Cls 42, of Fort Myers, Fla., on Aug. 1. A graduate of Georgia State University, he worked for Law Engineering Testing Co. in Atlanta for 24 years, retiring as corporate secretary, comptroller and insurance and safety manager in 1979. He later worked part time as a teacher's aide at an elementary school and as a bookkeeper at a church. Mr. Erwin, a member of the Army ROTC at Tech, served in the Pacific theater as a B-24 Liberator navigator with the Army Air Corps during World War II.

Harold Vincent Fleming Sr., IE 48, of Jupiter Inlet Colony, Fla., on Sept. 11. Mr. Fleming retired as executive vice president of corporate development with Dexter Corp. in Windsor Locks, Conn. He was a past master of the Suffolk, Conn., Free and Accepted Masons Lodge and a veteran of World War II and the Korean War, having served as a first lieutenant in the Air Force.

Dales Young Foster, Arch 43, of Dallas, in July. Mr. Foster was a draftsman for Tatum and Quade before opening Dales Y. Foster Architect and later Foster-Meier Architects. He retired in the late 1970s. A basketball player at Tech, he served in the Navy during World War II and did postgraduate work at MIT. He was a deacon and elder at his church.

Joe W. Jordan, Chem 41, a resident of Richland, Wash., on July 25. Mr. Jordan retired from Rockwell as a manager of nuclear materials control in 1980.

William C. "Bill" Peterson, Cls 47, of Macon, Ga., on Sept. 1. He was a stockbroker in Denver before returning in 1964 to his home-

town of Soperton, Ga., where he was a tree farmer. Mr. Peterson was a graduate of the United States Naval Academy in Annapolis, Md., and a veteran of World War II and the Korean War. Mr. Peterson served on the boards of directors of the Bank of Soperton, Montgomery Bank and Trust and Choo-Choo Supply and was a member of the Treutlen Historical Society and Veterans of Foreign Wars.

Neal Hadaway Rainwater, IM 48, a resident of Gainesville, Ga., on Aug. 7. Mr. Rainwater worked for Motors Insurance Corp., a division of General Motors, for 32 years. He flew B-25 bombers during World War II and retired as a colonel in the Air National Guard. Mr. Rainwater was a Sunday school teacher and life deacon.

Toy F. Reid, MS ChE 49, of Kingsport, Tenn., on July 26. Mr. Reid retired as an executive vice president of Eastman Kodak Co. and general manager of Eastman Chemical in 1989 after 41 years with the company. He directed the pioneering of polyethylene terephthalate in beverage and food containers. He also led the development and application of approaches to accelerate commercialization of the PET packaging business. In 1994, Mr. Reid was inducted into the Georgia Tech College of Engineering's Academy of Distinguished Alumni. He served on the boards of directors for Eastman Kodak, the Tennessee State Board of Education, Junior Achievement of Kingsport and United Way of Greater Kingsport. He also served as director of the Chemical Manufacturers Association; a fellow of the American Institute of Chemical Engineers; and a Paul Harris fellow. As an Army Air Forces captain during World War II, Mr. Reid served as a meteorologist and was in charge of restoring the German civilian weather service.

Robert A. Schulze, ChE 41, of Columbia, S.C., formerly of Wilmington, Del., on Aug. 12. Mr. Schulze retired from DuPont as a chemical engineer after a 41-year career with the company during which he worked throughout the United States and in Ireland and Switzerland. He later was a hospice volunteer and wrote a book outlining safety practices in chemical engineering. Following graduation from Tech, where he was president of Sigma Chi fraternity,

In Memoriam

he worked on the Manhattan Project. A lifelong Republican, Mr. Schulze waited in line in the rain for more than an hour to vote for Barack Obama in the 2008 presidential election.

Alex "Gene" Shaw, ME 41, of Burleson, Texas, on Aug. 28. Mr. Shaw was a mechanical engineer with Sinclair and Arco Oil Refinery for 31 years in Houston. He played baseball at Tech and was a letter winner in football.

Alvin L. Slotin, ME 44, of Augusta, Ga., on Jan. 21. He was the owner of Clothes Rack.

James A. Suddeth, Cls 43, of Richmond, Va., on Aug. 31. Mr. Suddeth, who earned a bachelor's degree in military science from the University of Maryland, was commissioned in the Army in 1943 and served for 23 years, retiring as a lieutenant colonel. He later worked for Martin Marietta, the Philip Carey Corp. and the Bank Building Corp. and in commercial real estate. He went back to college at about 70 years old and earned a master's in humanities from the University of Richmond. A stamp and coin collector, he was a member of the Sons of the American Revolution, Jamestowne Society and Society of Colonial Wars and past president of the Richmond chapter of the SAR.

Harold C. Van Arsdale, CE 41, of Boca Raton, Fla., on July 6. He retired as president of the George Uhe Co. in New York City. A member of Sigma Phi and the swim team at Tech, he was commissioned as a Navy officer and served tours on the USS Terazed in the North Atlantic and the USS Columbia in the South Pacific during World War II.

Leroy W. Vanover, BS 49, Arch 50, of Vincennes, Ind., in June. Mr. Vanover was the corporate architect for Colonial Stores, headquartered in Atlanta, before moving to Vincennes, where he was involved in community projects and restorations. He was in active practice until his death. He served in the Air Corps before the bombing of Pearl Harbor and was instrumental in laying out Maxwell Field, where the Tuskegee Airmen were trained. He served in Iceland during the war. Following graduation from Tech, Mr. Vanover returned to active duty as a major, serving in Texas during the Korean War.

George S. Whittlesey Jr., ME 47, of Albany, Ga., on April 2. Mr. Whittlesey retired

from Engineering & Equipment Co. of Albany as sales manager after more than 45 years with the company. A member of the Navy ROTC at Tech, he was commissioned in the Navy and took part in the invasion of Okinawa in April 1945. He also was a member of Phi Delta Theta at the Institute and the football team's equipment manager for the 1944 Sugar Bowl. He served as president of the Dougherty County Kiwanis, lieutenant governor of the Georgia Kiwanis and chairman of the Albany Housing Authority. Survivors include his son George Whittlesey III, ChE 79, MS ChE 81.

1950s

Charles L. Adams, Text 50, of Roswell, Ga., on Aug. 14. Mr. Adams retired in 1986 after working for 36 years for Texaco Inc. as a sales engineer. A Navy veteran of World War II, Mr. Adams served in the Atlantic theater as a member of a gun crew on a Liberty ship and two T-2 tankers and later on the USS David W. Taylor DD-551 at Okinawa. He was a mason, a member of the Yaarab Shrine and a life member of Veterans of Foreign Wars Post 12002 of Alpharetta. Memorials in his name may be made to the Georgia Tech Foundation.

John Maurice Allen Jr., IM 54, of Atlanta, on July 30. Mr. Allen was the owner of John Allen Inc. women's apparel stores in Atlanta for nearly 30 years. He also sold small airplanes for several years. A second lieutenant in the Army, Mr. Allen was a trustee of the Haggai Institute, a worldwide Christian evangelist training organization; a deacon; a Sunday school superintendent; and a member of his church's choir and wind ensemble. An accomplished pianist, Mr. Allen and his wife were members of the Atlanta Concert Band.

H. Grady Baker Jr., EE 53, of Stone Mountain, Ga., on Aug. 13. He retired from Georgia Power as senior executive vice president in 1990 after more than 40 years with the company. Mr. Baker, who began working there as a co-op student at Tech, was instrumental in establishing a Georgia Power chair in the School of Electrical and Computer Engineering as well as in the School of Mechanical Engineering. He was inducted into the inaugural class of the Georgia Tech Engineering Hall of Fame in 1994.

James P. Bradley Jr., ME 56, a resident of Placentia, Calif., on July 26 of leukemia. After

retiring from the Air Force as a colonel in 1983, he joined Hughes Aircraft and played an important role in putting the country's first GPS satellites into orbit. He retired in 1996. He joined the Air Force in 1956 and served an 18-month tour in Vietnam as a navigator on C-130s. A previous two-time cancer survivor, he was actively involved with the American Cancer Society's Relay For Life with his grandchildren.

James F. Bush, IE 58, of Atlanta, on Sept. 2. He spent most of his career working for Blount Construction Co., from which he retired in 1994. Mr. Bush, who attended Tech after serving in the Army, was a member of the Civil War Round Table of Atlanta and Sons of Confederate Veterans. Memorials in his name may be made to the Georgia Tech Foundation.

Louis H. Cone, EE 50, of Tucker, Ga., on July 28. Mr. Cone worked as an engineer with General Motors Corp. for more than 30 years. He joined the Air Force in 1942, serving as a captain in the 3rd Chinese-American Composite Group. A carpenter and woodworker, he enjoyed photographing hummingbirds in flight.

Larry Doyal, Cls 52, of Atlanta, on July 16. He built, managed or leased apartment complexes, office buildings and shopping centers in metro Atlanta and was co-developer of Doyal Mills Court, a subdivision in Stone Mountain. A Tech football player, he received a business degree from Auburn University in 1953 before earning a real estate license and joining the family firm. Mr. Doyal, who had a disabled daughter, helped found Just People Inc., a nonprofit that provides housing, job training and social activities for the mentally ill, challenged adults and people with head injuries. Serving as the organization's fundraising director and chairman, he helped secure financing for Just People Village, an apartment complex in Roswell.

Jasper Stevens Franklin, IM 50, of Baton Rouge, La., on Sept. 8. A Navy veteran of World War II, Mr. Franklin retired from the federal government in 1991 after 30 years of service. He was a member of Sigma Alpha Epsilon fraternity as a student at Tech and a member of the Cortana Kiwanis Club of Baton Rouge.

Harvey Granger Jr., IE 51, of Savannah, Ga., on Sept. 10. He began a 40-year career with Steel Products Co., now Great Dane Trailers Inc., in 1956 as an industrial engineer. He served as

Randy Whitfield Endured Rocky Trip to 1929 Rose Bowl

By Leslie Overman

When Randy Whitfield was interviewed by the Alumni Association's Living History program in 1995, memories of his college days more than half a century earlier were still vivid, especially those of the 1929 Rose Bowl. Surprisingly, he was most interested in talking about the cross-country trip he took to watch the game, one made famous by the wrong-way run of California Bears center Roy Riegels.

Mr. Whitfield, ME 32, MS ME 34, recalled the dreary December afternoon in 1928 on which 80 students, alumni and fans boarded buses outside the Biltmore Hotel. "We had a bigger crowd to see us off than saw off the football team at the railroad station a few days earlier, 'cause there was a lot of speculation as to whether or not we'd actually make it," he said. "This was a quarter of a century before the interstate highways were even thought about, and much of the roads across the country were not paved."

The travelers encountered sludge in Alabama, snow in the Rockies and dust storms in the West. One bus narrowly escaped a collision with an oncoming truck in turning a sharp curve, and another nearly plunged off the side of a mountain. (A clip from Living History's interview with Mr. Whitfield is available at gtalumni.org/livinghistory.) Mr. Whitfield visited a Western Union office every night to wire updates on the caravan's travels to the *Atlanta Journal* for publication.

Randolph Whitfield, who witnessed some of the most legendary moments in the Institute's history and the start of some of its most enduring traditions as a student, died Aug. 1 in Atlanta. He was 100 years old.

He was enrolled at Tech when it was



visited by Winston Churchill and Charles Lindbergh. He was on campus for the birth of the Ramblin' Wreck Parade and shirttail races and the opening of Brittain Dining Hall.

A suite of offices in Tech's Student Success Center is named for him. A retired Georgia Power official, Mr. Whitfield served as president of the Greater Atlanta Georgia Tech Club and a trustee of the Alumni Association. He received the Alumni Association's Joseph Mayo Pettit Alumni Distinguished Service Award in 1995.

While growing up in Tallahassee, Fla., Mr. Whitfield didn't know much about Georgia Tech except that it had a great football team, he told Living History. He worked his way through school in the co-op program, doing assembly line work with Ford and Chevrolet. He stayed busy on campus too, serving as president of the co-op club, his senior class, Omicron

Delta Kappa, the Tech Cotillion Club and Pi Delta Epsilon and as a member of ANAK, Phi Kappa Phi, Tau Beta Pi and Delta Tau Delta. He also was a business manager of the *Blueprint* and assistant editor of the *Technique*.

An environmentalist, Mr. Whitfield was a charter member, trustee and vice president of the Georgia Conservancy; chairman of the Atlanta Chamber of Commerce's Environment Legislation Committee; and a member of the conservation organization Izaak Walton League.

Survivors include grandson Randy McDow, IE 95, MS PubPol 03, director of the Office of Special Scholarships at Tech, and his wife, Lauren Weatherly McDow, Mgt 03, program manager for the College of Management. The family has established a President's Scholarship endowment in Mr. Whitfield's name. Memorials may be made to the Georgia Tech Foundation for the endowment fund.

president and CEO of the company from 1984 to 1992, after which he spent four years as a consultant. Under his leadership, Great Dane became the No. 1 truck-trailer manufacturer in the United States. Mr. Granger, who served in the Navy from 1945 to '48, served for three years on the alumni advisory board of Georgia Tech's School of Industrial and Systems Engineering, which named him a distinguished alumnus in

the 1980s. Mr. Granger was a trustee of Saint Joseph's Hospital and Saint Joseph's/Candler Health System from 1988 to 2003. Mr. Granger also served as vice chairman and chairman of Saint Joseph's and was one of the key participants in negotiations that led to the hospital's merger with Candler Hospitals. He was the founding chairman of Saint Joseph's/Candler Health System.

Byron Patton Green Jr., IM 58, of Hattiesburg, Miss., on Sept. 12. Following graduation, he returned home to Mississippi and took over Green Oil Co., which was founded by his father. Mr. Green also was associated with Covington Propane, Greentree Enterprises, Red Arrow Car Wash, Green Investment Co. and Tru-Vision Communications during his career and was a past president of the Alabama-Missis-

In Memoriam

Mississippi Oil Jobbers Association. An Air Force veteran, he enjoyed boating, traveling from the California coast to the Bahamas via the Panama Canal on one adventure.

Donald M. Harvey, ME 52, of Webster, N.Y., on July 20. In 1986, he retired as a senior technical associate with Eastman Kodak after a 35-year career with the company during which he led the design team for the Disc camera. In 1984, he was named Rochester Inventor of the Year by the Rochester Patent Law Association. Mr. Harvey, who served in the Army from 1946 to '48 and was a member of Tau Beta Pi at Georgia Tech, was a volunteer counselor in the Good News Jail and Prison Ministry at the Monroe County Jail, ministering there twice a week for the past 15 years. He also mentored many men following their release.

Reuben Carnes "Jake" Hull, EE 50, of Atlanta, on July 21. Mr. Hull worked for Honeywell International, Evans Engineering and for more than 20 years with Western Electric Co. He served in the military as a radar instructor for three years before attending Tech. A ham radio operator and a fan of jazz and big band music, he and his wife performed the jitterbug up through the last year of his life.

William Singleton "Bill" Hunt, CE 51, of Jackson, Miss., on Sept. 11. Mr. Hunt, a longtime engineer with South Central Bell, took early retirement in 1984 and worked as a freelance land surveyor while caring for his wife, who was suffering from cancer. He served in the Army during World War II, fighting in Italy, Austria and Germany, and later participated in ROTC at Tech. Mr. Hunt enjoyed sailing and yacht racing. He was a Scoutmaster, a leader in Explorer Post and a navigation teacher.

Clarence W. "Kit" Kaiser, ME 57, a resident of Fairburn, Ga., on Aug. 5. Mr. Kaiser was a retired systems chief with the Federal Aviation Administration. An Air Force veteran who served in Germany during World War II, he flew across the country as a licensed pilot and even built a plane. Mr. Kaiser served on the board of directors and taught Sunday school at his church and enjoyed caring for a variety of animals, including geese and llamas, on his 10 acres in Fairburn.

Jerry Parker Leonard, CE 55, of Kingsport, Tenn., on July 14. Mr. Leonard worked for J.A.

Jones Construction, Armstrong Construction and Barker Building before becoming a real estate agent with Town and Country Realty at age 70. He was commissioned in the Marine Corps and served in the Korean War. A deacon, Sunday school teacher and choir member at his church, he also was a Gideon and a member of the Symphony of the Mountains Chorus.

Charles H. Martin Jr., IE 58, of Cumming, Ga., on July 9. Mr. Martin retired as the all-time top salesman of the Audichron Co. He started the Charlie Martin Band, which played in the Fox Theatre's Egyptian ballroom for two years. Mr. Martin also played in the Air Force band while serving in the Air Force National Guard in Alexandria, La., and performed at his children's weddings.

Roy A. Martin, MS EE 51, of Atlanta, on July 16. He retired as president of Roy A. Martin Associates Inc., a consulting firm that specialized in electrical safety. A co-op student at Georgia Tech, Mr. Martin later spent 20 years at the Institute as an electrical engineering instructor and research scientist. He held several patents and was involved in the development of an early cardiac catheterization device, a collaboration between Tech and Emory University. After retiring from Tech, he traveled across the country to conduct electrical fire investigations. A member of the 516th Signal Aircraft Warning Regiment during World War II, he served as an Army first lieutenant in efforts to oversee the safety of the Panama Canal zone.

James Howard "Jim" Mauldin, Phys 53, MS Phys 55, of Lynn Haven, Fla., on July 23. He was a career naval officer and pilot, serving several tours of duty in Vietnam and completing his 27-year naval career as commanding officer of the USS Dwight D. Eisenhower. His decorations included the Navy Commendation Medal, Air Medal, Bronze Star, Vietnam Service Medal and National Defense Service Medal. He later began a second career at Newport News Shipbuilding and for the next 12 years served as submarine overhaul manager, overhaul manager of the USS Eisenhower and director of trades administration before heading aircraft-carrier propulsion systems.

Harold C. McKenzie Jr., IE 53, of Marietta, Ga., on July 8. Mr. McKenzie retired as president and CEO of Southern Electric International in 1980. He received a law degree from

Emory University, began his career as a partner in the law firm of Troutman, Sams, Schroder & Lockerman and later became executive vice president and a member of the board of directors of Georgia Power.

John Horace Millican, IM 54, of Perry, Fla., on Sept. 2. A nationally recognized environmental consultant, he retired from Procter & Gamble in 1986 after 32 years with the company. He was an Army Air Corps veteran of World War II and a member of the Elks Lodge.

Thomas Eugene Moore, TE 53, of Pensacola, Fla., on Aug. 10. Mr. Moore retired in 1985 after working for the Chemstrand Corp., later Monsanto, for 32 years. Prior to attending Tech, he served in Korea with the Army.

Paul Randall Ozmer Sr., ME 56, of Marietta, Ga., on July 9. A member of Phi Delta Theta fraternity at Tech, he was commissioned in the Air Force and became a fighter pilot, flying the F-86 Sabre. Mr. Ozmer, a skeet shooter, was a member of the Single Action Shooting Society. Survivors include his son Joseph Windsor Ozmer II, IE 86.

William R. "Bill" Scaife, Arch 55, a resident of Cartersville, Ga., on Aug. 17. He retired in 1983 after working in the engineering and architecture fields with various firms and as a consultant. An Eagle Scout, a World War II veteran and a Civil War history buff, Mr. Scaife made maps of Civil War battles by adding information and facts to topographic maps of battlefields. Mr. Scaife also taught an army tactics and strategies course at Emory University; led battlefield tours; and wrote 14 books, including *The Campaign for Atlanta*, which won the Civil War Round Table of Atlanta's 1995 Best Book Award. Mr. Scaife, who served as president of the Atlanta round table, also received its Member of Distinction Award.

Roy McAllister Scruggs, AE 58, MS EM 64, PhD AE 71, of Chamblee, Ga., on Sept. 1. Dr. Scruggs began his career with Lockheed-Georgia Co. in Marietta and later was chief scientist with Consulting Aviation Services Inc. He also was an adjunct professor at Georgia Tech, where he taught applied mathematics, and Georgia State University.

Donald M. Sheppard, IE 57, a resident of Summerville, S.C., on Aug. 22. An Army vet-

Former Alumni Association President Buck Stith Dies

Henry Hammond "Buck" Stith Jr., CE 58, a former Georgia Tech basketball player who as an alumnus devoted decades to serving his alma mater, died of cancer Sept. 11 at his home in Atlanta. He was 73.

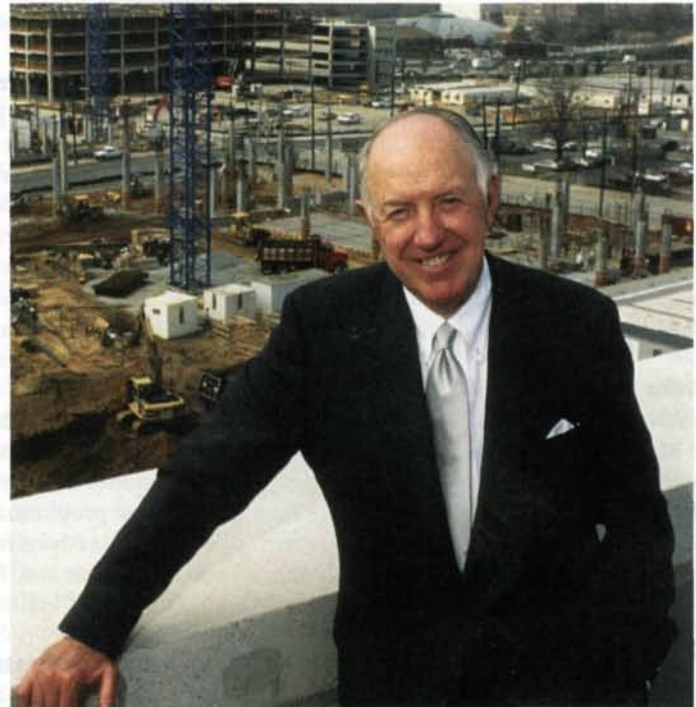
Mr. Stith was president of the Alumni Association from 1992 to '93, following years of service as a trustee. He later served as a trustee and chair of the Georgia Tech Foundation during which time he helped support the Institute's creation of Technology Square. Mr. Stith wielded a shovel for the ceremonial groundbreaking of the Midtown development in 2001. He also served Tech's Capital Campaign for five years and was a supporter and adviser for the School of Civil and Environmental Engineering.

In 2004, Mr. Stith received the Alumni Association's Joseph Mayo Pettit Alumni Distinguished Service Award, the highest honor bestowed by the Association. Upon receiving the award, he told *Tech Topics* that of all of his accomplishments while serving Tech he was most proud of the part he played in having communications instruction added to the Tech curriculum. Mr. Stith, who served as co-chair of his class' 40th reunion fundraising campaign, encouraged his classmates and the Tech administration to put the money toward teaching communications skills on campus.

"Good writing requires clear thinking," Mr. Stith said. "You may be the smartest engineer in the world, but if you can't communicate your ideas and solutions, you are not going to be successful."

An Atlanta native, Mr. Stith attended Tech on a basketball scholarship and lettered in the sport. While on campus, he also was a member of Sigma Nu fraternity, the T-Club, the *Technique* staff, the Tech chapter of the American Society of Civil Engineers and the Tau Beta Pi engineering honor society.

Mr. Stith retired as president of Stith Equipment Co., a distributor of heavy construction and mining machinery. He joined



the family-owned company after graduating from Tech.

During his career, he was a member of the U.S. Chamber of Commerce as well as the boards of the Georgia Business and Industry Council and Georgia Chamber of Commerce.

In an interview with the Alumni Association's Living History program, Mr. Stith said, "If I had to describe my life and what made it work, I'd say it was balance. As a young man I balanced reading, studying, sports, play and girls. It was reinforced at Georgia Tech and has served me throughout my business career."

eran, Mr. Sheppard retired from DuPont for which he worked as an industrial engineer.

George William Snyder, Text 50, of Spartanburg, S.C., on Sept. 6. Following graduation, he began a 34-year career with Eastman Chemical in Kingsport, Tenn. He retired from the company in 1983 after serving in many managerial roles. An Army veteran of World War II, he served in the European theater and took part in the Normandy invasion in 1944. He was presented the Normandy Medal of the Jubilee of Liberty in 2000. He was a charter member of the Kiwanis Club of Kingsport. Survivors include his son, George W. Snyder Jr., ChE 74.

Milton Edward Sweigert, BS 56, Arch 59, of Alpharetta, Ga., on Sept. 8. Mr. Sweigert was an architect and professor at Southern Polytechnic State University. A Navy veteran, he was a past president of the Georgia Architectural and Engineering Society. Mr. Sweigert sang in various choruses and church choirs in the Atlanta area for many years.

James P. Taylor, AE 56, a resident of Fair Oaks, Calif., on May 20. In 1993, Mr. Taylor retired from Aerojet to start Clean Energy Systems, a green energy company that designs and builds zero-emission gas-fired generators for power plants. He joined Aerojet in 1973 and

was involved in many projects supporting the space and defense programs, including the Aerobee and Astrobee families of sounding rockets. For many years, he served in senior management at Aerojet, running its rocket testing and safety program.

Robert Van Valin, IM 51, of Atlanta, on Aug. 15. A Texas resident for more than 50 years, he ran Van Valin and Associates there for more than 35 years. A member of Phi Gamma Delta fraternity as a student at Georgia Tech, he was a World War II veteran, serving as a submarine officer in the Navy. During the Korean War, Mr. Van Valin served as a com-

In Memoriam

manding officer in an underwater demolition team now known as the Navy SEALs.

Walter John Volmar, IE 58, a resident of Fayetteville, Ga., on July 14. He began his career as a branch manager for Omark Industries and later was the founder and president of Builders Equipment Co. in Decatur, Ga. He was based at Fort McPherson while serving in the Army Corps from 1951 to '56. Mr. Volmar's survivors include daughters Teresa Swany, IE 82, and Lisa Volmar, IE 86, and sons-in-law Michael Swany, APhys 80, and Thomas Stephens, BC 88. Memorials in his name may be made to the Catholic Center at Georgia Tech, 172 Fourth St. N.W., Atlanta, GA 30313.

William Durwood "Bill" Wallace, IE 57, of Seabrook, Texas, on July 16. An Army veteran, Mr. Wallace worked for Chrysler, Martin Marietta and the Jet Propulsion Laboratory before moving to Texas in 1974 to work for Rockwell International and Boeing as a contractor to NASA at the Johnson Space Center.

1960s

Roy F. Clackum, CerE 61, a resident of Gadsden, Ala., on Aug. 12. Mr. Clackum was an employee of Republic Steel for 35 years. Mr. Clackum, who earned the rank of major in the Marine Corps, was a test pilot for the first UH-1 "Huey" helicopter.

Carl David Gent, IM 68, of Greer, S.C., on July 8. A member of the Navy ROTC at Georgia Tech and a retired Navy lieutenant, Mr. Gent worked in the banking industry for more than 35 years. Memorials in his name may be made to the Georgia Tech Foundation for the Carl D. Gent Memorial Scholarship Fund.

John Henry Gutzke, EE 60, MS EE 65, of Austin, Texas, on Aug. 17. A Marine Corps veteran, he worked on artillery aircraft and submarine wiring systems for defense contractors in the early years of stealth technology and later taught tennis for many years. In the spring of 1982, Mr. Gutzke spent four weeks helping provide water for the village of Bulape in Zaire. After being commissioned as a missionary later that year, he returned to the village with solar panels and equipment to provide electricity to its hospital. He then began splitting his time between Africa and the United States while participating in mission trips.

Richard Ray Hodges, IM 60, MS IM 62, of Decatur, Ga., on Aug. 31. Dr. Hodges worked at Georgia State University, from which he earned a doctorate, for more than 25 years. He earlier worked across the nation with such companies as Lockheed and Western Electric.

Woodrow W. "Jerry" Jarrell Jr., Psy 64, of Mars Hill, N.C., on June 19 following a four-and-a-half-year battle with brain cancer. A retired associate pastor and minister of music and Christian education, he served the last 28 years of his ministry at Mars Hill Baptist Church. President of the Baptist Student Union during his senior year at Tech, he also was a graduate of Southern Baptist Theological Seminary in Louisville, Ky.

Thomas Strong Moss Jr., CE 62, MS ICS 73, of Greensboro, Ga., on Sept. 14. Mr. Moss retired from First Data Corp. as a system development project manager. He was a member of Kappa Alpha fraternity at Tech. Survivors include his son, Thomas Strong Moss III, MatE 92, PhD CerE 95.

Joseph Ross Pattillo, BC 65, a resident of Kennewick, Wash., on July 23 of pancreatic cancer. In 1975, he moved to Kennewick, where he owned Pattillo's Construction Co. A member of the Church of Jesus Christ of Latter-day Saints, he had served as a bishop, Elder's Quorum president and High Priest group leader. He served a stake mission for the church and served as a temple worker for 10 years. Mr. Pattillo also served in the Coast Guard and volunteered with the Boy Scouts and Habitat for Humanity, from which he received a Lifetime Achievement Award in 2004 and Pioneer in Excellence Award in 2009.

Frank Anthony "Tony" Player Jr., IM 61, of Atlanta, on Sept. 7. Mr. Player retired from Cox Enterprises. He was commissioned in the Navy and served aboard the USS Independence during the 1962 Cuban missile crisis. The aircraft carrier was a key participant in the United States' naval blockade of Cuba.

Carl A. Puls, IM 68, of Atlanta, on Aug. 17. After receiving a law degree from Emory University in 1970, he worked for the DeKalb County district attorney and practiced law in Conyers before establishing the law firm of Hartley & Puls in Decatur. At Tech, he was a co-op student and a member of Kappa Sigma.

James Rufus Willingham, Cls 61, a resident of Macon, Ga., on Sept. 2. Mr. Willingham worked as a real estate broker in the Macon area for more than 30 years. A National Merit Scholar, he graduated from Mercer University in 1961 and was an Army intelligence officer from 1961 to 1964.

1970s

David Scot Curry, Cls 72, of Tallahassee, Fla., on July 10. Mr. Curry participated in the co-op program while at Tech.

Edwin Byrd "Ed" Drane, Arch 73, a resident of Hilton Head Island, S.C., on Aug. 6. Mr. Drane was a conservationist, architect and town of Hilton Head Island urban planner. Growing up in Savannah, Ga., he participated in the Boy Scouts and achieved the rank of Eagle Scout. His family said he brought home pets throughout the years, telling them that his wife, Betty, was the one responsible. Survivors include his dogs, Bally and Sassy, and Pooh, the \$10 cat.

Russ Gribble, IE 74, of Virginia Beach, Va., on Aug. 31. Mr. Gribble was the co-owner and president of Coastal Material Handling in Suffolk. He served as a captain in the Army, was a private pilot in aviation for 31 years and collected antique British cars.

Robert John McCann, ChE 78, a resident of Atlanta, on July 24 of metastatic melanoma. Mr. McCann had been working for the U.S. Environmental Protection Agency in Atlanta since 1982. He earlier was a chemical engineer with Goodyear in Akron, Ohio. Mr. McCann was a professional engineer and a member of the American Chemical Society and American Institute of Chemical Engineers. A deacon and board member at his church, he also was a volunteer with Outreach Ministry, Habitat for Humanity and the Bill Glass Prison Ministry.

John Stephen Phillips, IE 75, of Marietta, Ga., on July 29. A co-op student at Tech, Mr. Phillips worked at Lockheed Martin in Marietta for 36 years, retiring in 2006. During his career, he worked on the C-5, C-130 and F-22 programs and served as program manager of the WC-130J Hurricane Hunter program. Mr. Phillips enjoyed flying his Cessna and restoring antique cars. His father, Emory B. "Jack" Phillips, EE 47, died Jan. 5.

Phongsak David Yehsakul, EE 70, a resident of Columbus, Ohio, on Aug. 3. He was an engineer for American Electric Power. A native of Thailand, Dr. Yehsakul moved to the United States at the age of 16 to pursue an education in engineering. He earned a master's degree from Berkeley and a master's and doctorate from Cornell.

1980s

Dwight D. Alexander Sr., EE 81, of Valencia, Calif., on Aug. 6. Mr. Alexander worked in nine different states during his career, most recently in California, where he was a site director for Mars Pet Care in Santa Clarita. Mr. Alexander, whose hobbies included playing the saxophone, was a member of the Lambda Delta chapter of Kappa Alpha Psi fraternity at Tech.

Hector L. Medina, CE 81, of Tampa, Fla., on July 15. A bridge engineer for 27 years, he built bridges in several countries and was involved in the completion of a long-term project in his native Puerto Rico, a cable-stayed bridge over La Plata River. Mr. Medina also opened Bridge Concepts, for which he served as president.

Cheryl Anne Hodges Watson, MS CE 86, of Mechanicsville, Va., on Aug. 5. Mrs. Watson, who earned a bachelor's degree in civil engineering from the University of Florida, was a self-employed, registered professional engineer who specialized in geotechnical engineering and design.

1990s

Joyce "Joy" Castronova, Mgt 92, a resident of Conyers, Ga., on July 14. She was a teacher for the Rockdale County School System. She received a master's in early childhood education with a specialization in instructional technology from Mercer University.

Bettye Rose Connell, PhD Arch 92, of Atlanta, on May 13. She was a health research scientist at the Atlanta VA Medical Center, director of research for the Geriatrics Research, Education and Clinical Center and assistant professor of medicine in geriatrics and gerontology at Emory University. She studied the effects of physical and social environments on the lives of the frail and the elderly.

Kristen Cooper DeWeese, EE 99, of Sev-

ern, Md., on July 27 after a two-year battle with cancer. A co-op student and a member of Alpha Chi Omega sorority and the Ramblin' Reck Club at Georgia Tech, she earned a master's degree in electrical engineering from Johns Hopkins University. Survivors include her husband, Keith DeWeese, AE 99.

2000s

Benjamin Bedell Koomen, ChE 04, of Washington, D.C., formerly of Nashville, Tenn., on Aug. 9. He was a clinical laboratory manager at GeneDx in Gaithersburg, Md.

Students

Justin R. Bellmor, 23, of Marietta, Ga., on Aug. 26 as a result of a major brain hemorrhage suffered July 6. A sixth-year computer science major, Mr. Bellmor worked for Georgia Tech's Information Security Center. More than 200 family members, classmates, professors and friends attended a memorial service for him Aug. 29 in the atrium of the Klaus Advanced Computing Building. Memorials in his name may be made to the Georgia Tech Foundation for the Justin Bellmor Memorial Fund.

Friends

William Francis Ames, 82, a resident of Sandy Springs, Ga., on Aug. 3. Regents professor emeritus of mathematics at Tech, he taught at nearly a dozen universities in a more than 35-year career in academia. He joined Tech in 1975, was named director of the School of Mathematics in 1982 and retired in the early 1990s. He was the author of 18 technical books and 113 research publications on applied mathematics and in 1991 became co-editor-in-chief of the *Journal of Mathematical Analysis and Applications*. A Navy veteran of World War II and the Korean War, he earned undergraduate and graduate degrees in applied mathematics from the University of Wisconsin-Madison.

Adrian Arakaki, 42, on Sept. 9. A researcher in the Georgia Tech Center for the Study of Systems Biology, Dr. Arakaki was involved in the prediction of protein structure and function from sequence. At the time of his death, he was embarking on a new cancer metabolomics initiative. Dr. Arakaki joined Tech's School of Biology in 2006 as a member of professor Jeffrey Skolnick's research group.

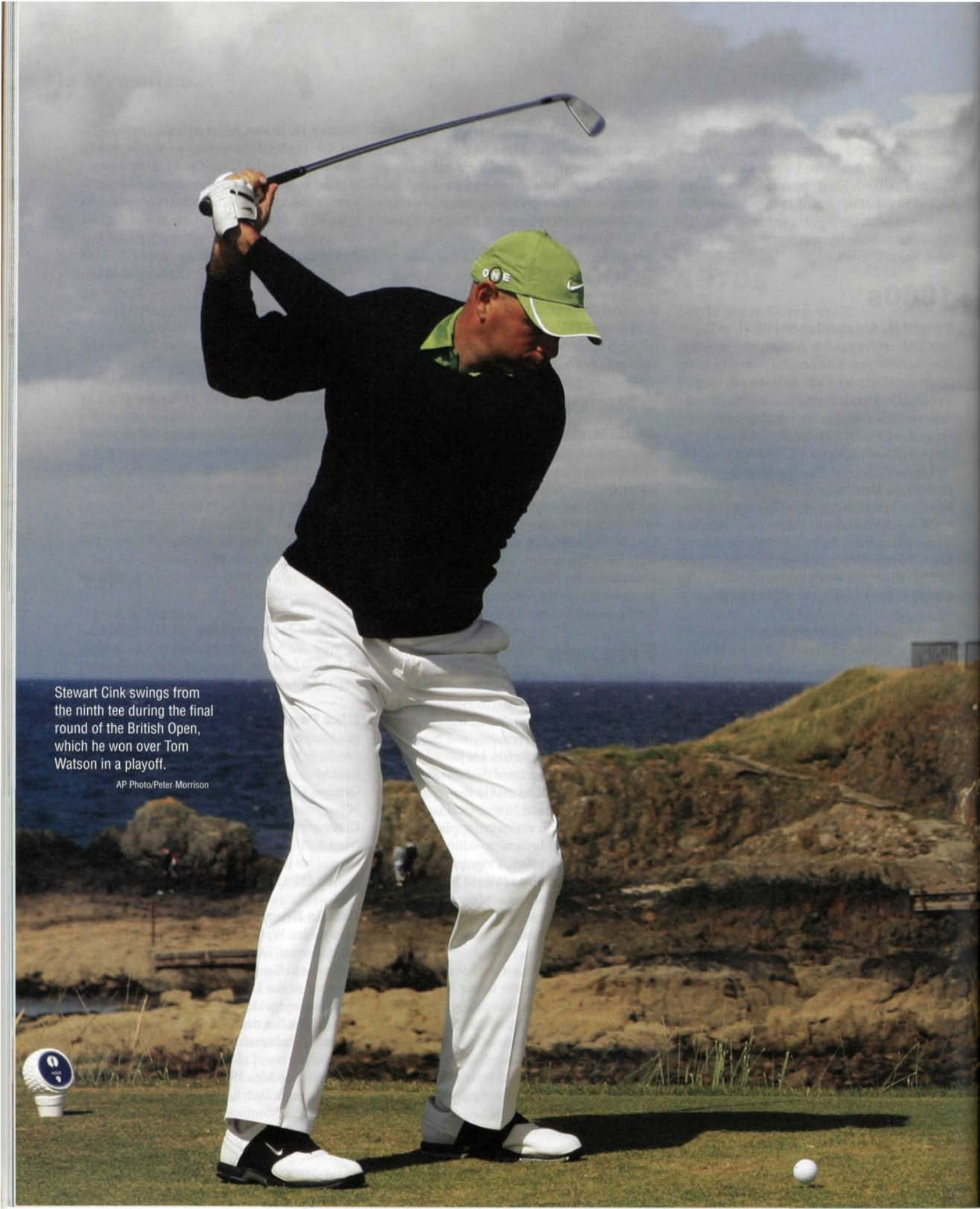
Walter H. Dunn, 86, of Atlanta, on June 22. An Army Air Corps veteran of World War II, he worked for the Coca-Cola Co. in various marketing and sales positions for more than 40 years, retiring in 2000 as senior vice president in the office of the chairman. He received a Life Achievement Award from the company and continued to serve as a consultant until 2002. Mr. Dunn, whose great-grandfather John Fletcher Hanson was a founder of Georgia Tech, served on the board of the Bobby Dodd Foundation. Memorials in his name may be made to the Georgia Tech Foundation for the Walter H. Dunn Scholarship Fund.

Ferdinand Alexi "Ski" Hilenski II, 62, of Atlanta, on July 29. He had worked at Georgia Tech since 1993, first as director of development for the College of Architecture and later as the founding development officer for the Ivan Allen College. Dr. Hilenski, an advanced certification fundraising executive, received a PhD in English from the University of Tennessee in Knoxville and in 1992 was awarded a Fulbright Scholarship. Memorials in his name may be made to the Georgia Tech Foundation for the Hilenski Memorial Fund.

Michael John Kelly, 64, of Gainesville, Ga., on Aug. 25. Mr. Kelly worked at the Georgia Tech Research Institute for 13 years and retired from Montana State University.

Mike Page, 61, of Rome, Ga., on Sept. 19. A graduate of Davidson College and the Citadel, Mr. Page was a dedicated supporter of Tech, having served as an officer for both the LaGrange, Ga., and Rome Georgia Tech clubs. A Navy veteran, he was employed by Milliken & Company in various management positions from 1977 until his retirement in 2005. At the time of his death, Mr. Page was affiliated with Riddle & Page Office Products.

Estelle Bruggemann Wyly, 94, of Atlanta, in July. Mrs. Wyly was predeceased by her husband, Lemuel David Wyly Jr., a retired physics professor at Georgia Tech. She was a longtime member of the Georgia Tech Drones Club as well as a bridge club made up of wives of Tech professors. For decades, she knitted caps for premature babies at Emory Hospital. Survivors include her son, L. David Wyly III, AMath 65. Memorials in Mrs. Wyly's name may be made to the Georgia Tech Foundation for the Lemuel David Wyly Memorial Fund.

A full-page photograph of golfer Stewart Cink in the middle of his golf swing. He is wearing a black long-sleeved shirt, white trousers, a green Nike baseball cap, and white golf gloves. He is holding a golf club with a dark head. The background shows a coastal landscape with a blue sea, a rocky cliff, and a cloudy sky. A white golf ball is on the grass in the foreground, and a white bucket is visible to the left.

Stewart Cink swings from the ninth tee during the final round of the British Open, which he won over Tom Watson in a playoff.

AP Photo/Peter Morrison

Cink's Revamped Game Has Fans Atwitter

By Van Jensen

When discussing golfers' careers, pundits and fans often use wins at major tournaments as the ultimate measure. Greg Norman and Phil Mickelson famously spent years as great golfers who hadn't won a major.

That was the situation Stewart Cink, Mgt 95, found himself in on July 19 at Turnberry Resort in Scotland, readying for a playoff against Tom Watson with the British Open on the line. Cink had had more than 13 successful years on the PGA Tour, often breaking into the Tour's top 10 golfers. And while his resume included a few big wins, he'd never taken a major.

To outsiders, a Cink victory at the British had seemed almost unfathomable. Only a couple of months earlier, he'd decided that, success be damned, there was untapped potential in his game.

"I felt like I needed to do something really drastic," Cink said. "The major change was from the long putter to the short putter. I dismantled everything and built up a new pre-shot routine. I felt the best way was to get the new putter, so I wouldn't fall back on old ways."

Cink had planned to spend the rest of the season acclimating to the changes, "writing off 2009," he said. But in his next tournament, the Colonial, Cink finished a strong 22nd. The following week, he came in eighth at the Memorial Tournament.

"I felt very comfortable off the bat," he said. Going into the British Open, "I knew I had it in me."

So there Cink was at the tee box for a playoff against fan-favorite Watson, who, at 59, had eight major victories under his belt. But experience lost out, as Cink dominated from the first hole and won by six strokes. Cink had claimed his first major.

"It doesn't change you as a person," Cink said. "I'm who I am; I'm not changing. But it does change you as a golfer. On the course, you have a lot bigger well of confidence to draw from."

"Now when I get into a tough situation, I can reflect back on that

and know that in a tough situation my abilities got me through."

The victory also turned the spotlights on Cink. Most noteworthy was an appearance on *The Late Show With David Letterman*, where Cink read the Top 10 list.

"I'm a big fan of the show, so to see the nuts and bolts of it was great," said Cink, who traveled to New York from his home in

Duluth, Ga., with his family for the taping. "Basically they just throw you out there and say: 'Read this.' It's like, 'Whoa, that was quick.'"

The Cinks made it home in time to watch the show air from the comfort of their couch.

The attention afforded by the victory has increased demands on Cink's time, which just adds to the challenging balancing act of golf, business and family, he said. But because golf requires so much focus — Cink said he reins in his personality while competing — the appearances have allowed him to connect more directly with his fan base.

Another growing avenue for that is Twitter. Cink is nearing 800,000 followers, and he posts a steady flow of insider golf information, jokes and random observations. He said he reads every response and replies to as many as he can.

Shortly after the British win, Cink posted a photo of the Claret Jug and two glasses sitting on his kitchen counter. "Having trouble deciding which cup to pour my OJ in this morning," he tweeted.

"I had warned all my followers I was going to have some fun with it. The night before, the

kids had had some Coke [out of the jug], and we had some Guinness," Cink said of his wife, Lisa, Biol 95.

Heading into the FedEx Playoffs, golf's postseason of four tournaments, Cink said he was easing back on publicity appearances, though he'd been asked to throw out a first pitch at a Gwinnett Braves game. And the Thrashers have plans to honor Cink, who holds season tickets.

"I'm just trying to be a golfer right now," he said.



Stewart Cink posted this photo of the Claret Jug to Twitter. "Having trouble deciding which cup to pour my OJ in."

Backcourt Pair Grow Through Challenges

By Van Jensen

The darkest moments came last winter. As the Yellow Jackets limped to a 2-14 ACC mark, guards Moe Miller and D'Andre Bell yet again were beset with obstacles.

Miller, now a junior point guard, had started the season strong but then twice suffered a concussion and, in a Dec. 14 game, had his nose shattered by an opponent's elbow. He missed a month of action and returned wearing a mask that blocked his vision and left him uncomfortable on the court.

It was just the latest setback for Miller, who has been deaf in his right ear since childhood and whose father is in prison, convicted of murder.

Meanwhile Bell, now a senior shooting guard, was only dreaming of playing. Before the season, he collided with a teammate during practice and collapsed.

"I thought I was paralyzed when I couldn't feel my arms and my legs," said Bell, who was diagnosed with spinal stenosis, a congenital narrowing of the spine.

After surgery to insert plates along four vertebrae, Bell spent more than eight months recovering, unable to step on the court.

While this offseason has seen the focus on coach Paul Hewitt's top-ranked recruiting class, which added five blue chip freshmen to the Yellow Jackets roster, the team's success depends in large part on the healthy return of Miller and Bell. The two are counted on as backcourt leaders on the youthful team.

Bell, whose soft voice contrasts with his thick, 6-foot-6 frame, returned to the court over the summer. He said he felt stronger immediately.

"I can't explain the feeling because I don't know if it's something I've been missing my whole life," he said. "I'm stronger mentally as well. I had a lot of time to think about things and put things in perspective."

While immobilized in the hospital and fearing he might never play again, Bell realized his love of writing had been dormant for years, always pushed to the side for basketball and school. Already holding a degree in management, Bell now is pursuing a bachelor's in literature, communication and culture. He prefers a

"I write about everything, whatever comes to mind. The last few have been about love."

BlackBerry for composing his poems and is inspired more by Joe Budden than Lord Byron.

"I write about everything, whatever comes to mind. The last few have been about love," he said with a laugh. "Very abstract, but nonetheless tasteful."

Bell said he intends to lead by example, helping pull together the blend of new and older players toward a single goal. And, with so much talent on the team, expectations are sky high.

"This is a wonderful group of guys," he said. "It's the most excited I've ever been

about playing ball, about the team I have, the confidence I have in my teammates, the respect I have from my teammates."

Miller said there's no division in the team between freshmen and upperclassmen, calling them "a family that will do whatever it takes to win."

"Nobody has as high of expectations as we have for ourselves," Miller said. "We know we're going to be good. We're putting in the effort now to go to the Final Four."

While that may seem a lofty goal for a player who struggled through last season, Miller was a top-rated high school point guard and showed flashes of dominance before injuries got in the way.

The management major has spent most of his life leaping one hurdle after another. He hasn't talked directly to his father, Maurice Miller, since he was incarcerated at the Grafton Correctional Institution in Ohio in 1996.

Moe Miller's mother, Monica, then relocated the family to Memphis, where Miller developed as a player while avoiding the dangers of drugs and violence that plagued their neighborhood.

Miller excelled in his first season at Tech, but just as last year was getting under way came the broken nose, which required surgery. As Miller tried to play with the mask, he noticed that he often struggled to breathe, hurting his conditioning. After the season, he returned to the doctor and discovered his right nostril was blocked, requiring more surgery.

"The little things you take for granted, like breathing, it's wonderful to just be able to breathe," he said.

After struggling in the spring, Miller entered the summer questioning himself as a player. While practicing with Jarrett Jack, Cls 06, now with the NBA's Toronto Raptors,



Eric Turner

Senior D'Andre Bell, left, and junior Moe Miller will be team leaders for a Yellow Jackets squad best known for its top-notch freshman class.

Miller watched the former Yellow Jacket confidently lead his teammates.

"I was down on myself a lot," Miller said. "He pulled me aside and said, 'Look, man, you can play some ball. You have all the potential in the world. You just have to work hard and be a leader.' I realized I really can do this, so I started establishing myself more, becoming more vocal."

The mask Miller wore last season is gone. Monica Miller, who recently moved to Atlanta, keeps it with her son's trophies. He swears he'll never touch it again.

Miller's girlfriend and 2-year-old

daughter also now live in Atlanta. He enjoys playing an active role in his daughter's life, being the father he didn't always have.

"Building that relationship, it's a beautiful thing," Miller said. "I wouldn't trade it for anything in the world."

Miller doesn't just seek to prove himself as a player but, more importantly, to help the Jackets reverse their fortunes.

On a Yellow Jackets team stacked with scorers, Miller's eyes widened at the prospect of having so many playmakers to whom he can pass the ball. Predicting the team could score 90 points a game, he has

set a goal for himself of 10 assists an outing.

When Miller suddenly fell ill just as the team was starting fall conditioning drills — at the same time the campus was hit with dozens of H1N1 cases — no one would've blamed him for pitying himself that one more thing had gone wrong.

But Miller just pushed through. Both he and Bell have been through enough hard times that they don't lose sleep over challenges.

"I'm not worried about what could go wrong," Miller said. "What more could I possibly go through?"

Sports Briefs

Wishful Thinking

The University of Georgia may have a mathematics department, but whoever was in charge of putting together page 163 of the school's 2009-10 football media guide needs a remedial lesson in counting.

The Nov. 29, 2008, game that every Tech fan remembers fondly is listed as a 42-42 tie between the Jackets and Bulldogs. Certainly no one who wears the white and gold needs reminding that Tech won by a 45-42 margin.

Once the error was pointed out, responsible parties attributed it to a typo. Regardless of the "tie," the schools remain in disagreement over their head-to-head record. Tech claims 39 wins, while Georgia admits to only 37 defeats.

What Learning Curve?

Tech's volleyball team didn't need much time to learn new coach Tonya Johnson's style of play. Or any, really.

The Yellow Jackets started the season

11/8	42	Kentucky	38	L
11/15	17	Auburn	13
11/29	42	Georgia Tech	42
CAPITAL ONE BOWL				
1/1/09	24	Mich. State	12

The 2009-10 Georgia football media guide credits the Bulldogs with a 42-42 tie against Tech last season. The Yellow Jackets actually won 45-42.

with a win over Georgia and went on to sweep the Regency Suites Invitational at O'Keefe Gym. As of press time, the team had lost only four matches while racking up wins against top opponents.

Much of the credit for the early-season success owes to senior middle blocker Brittany Roderick, who was named ACC Player of the Week for a dominant run in the Courtyard Classic, also at O'Keefe Gym. Roderick swatted 15 kills in one match against Clemson.

Swede Success

Sweden is known for many things — alpine skiing, meatballs and ABBA, to name a few — but it doesn't have a reputation as a basketball hotbed.

That may change for fans of Tech's women's basketball team, as freshman forward Danielle Hamilton-Carter becomes the fourth Swede to take the court for the Yellow Jackets.

Hamilton-Carter, whose mother is Swedish and father is American, grew up in Sweden playing with former Tech stars Nina Barlin, IntA 04, and Jasmina Pacariz, IntA 05. Senior guard Chioma Nnamaka also is Swedish.

With advice from Barlin and Pacariz, Hamilton-Carter enrolled at Tech.

"Soccer is huge. Ice hockey is huge," Hamilton-Carter said of sports in Sweden. "We don't have the same culture when it comes to sports. This is my passion. I love sports in general, so to be able to be a part of this culture of sports is just amazing."

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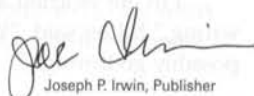
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Joseph P. Irwin, Publisher



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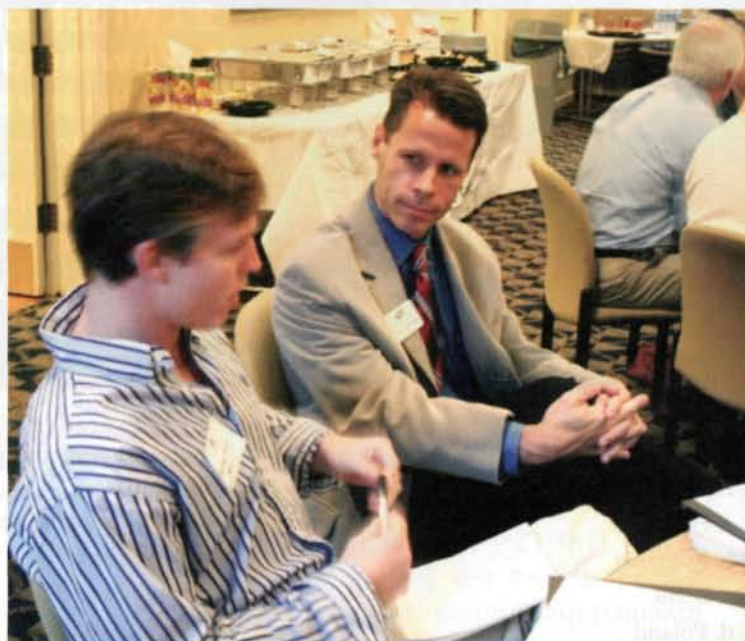
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Mental Floss Quiz

By Sandy Wood and Kara Kovalchik

1 | Sylvester Graham is best remembered as which of the following?

- a. an inventor
- b. a pro football quarterback
- c. a silent-film director
- d. a dietitian

5 | In 1959, 12 nations, including the United States and USSR, signed a treaty to suspend territorial claims on which of the following?

- a. Antarctica
- b. Mars
- c. the moon
- d. Cuba

8 | Which group of Native Americans was sometimes referred to as the Muskogee?

- a. Creek
- b. Sioux
- c. Iroquois
- d. Shoshone

9 | There are 1,760 ____ in a ____.

- a. yards, mile
- b. pounds, ton
- c. ounces, bushel
- d. square feet, acre

10 | What is the only surname shared by more than 1 percent of Americans?

- a. Brown
- b. Jones
- c. Smith
- d. Williams

11 | G. P. "Bud" Peterson is the ____th president of Georgia Tech.

- a. 10
- b. 11
- c. 12
- d. 13

12 | In 1840, what nation issued the world's first adhesive postage stamp?

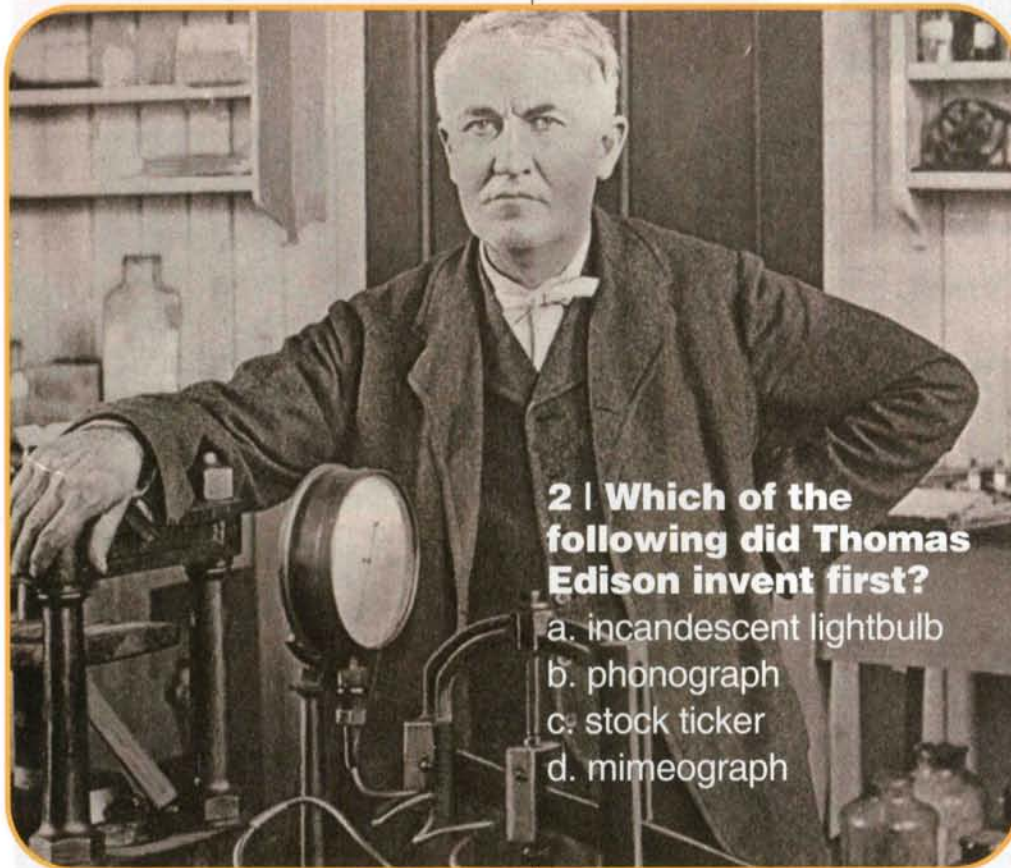
- a. United States
- b. Egypt
- c. United Kingdom
- d. Germany

13 | Which of these dystopian films was set in the United States?

- a. *V for Vendetta*
- b. *28 Days Later*
- c. *Children of Men*
- d. *I Am Legend*

14 | By average weight, which of these is the world's largest rodent?

- a. capybara
- b. gopher
- c. beaver
- d. mongoose



2 | Which of the following did Thomas Edison invent first?

- a. incandescent lightbulb
- b. phonograph
- c. stock ticker
- d. mimeograph

3 | Nadia Comaneci, the first athlete to earn a perfect 10 in Olympic gymnastics, represented what nation?

- a. Hungary
- b. Romania
- c. USSR
- d. Poland

4 | Which of these celebrities has never been the mayor of an American city?

- a. Sonny Bono
- b. Jerry Springer
- c. Andy Griffith
- d. Clint Eastwood

6 | With nearly 6,000 performances, what is the longest-running Broadway revival in history?

- a. *The Threepenny Opera*
- b. *42nd Street*
- c. *South Pacific*
- d. *Oh! Calcutta!*

7 | Tech President G. P. "Bud" Peterson played football for which university?

- a. Kansas State
- b. Nebraska
- c. Illinois
- d. Iowa State

15 | What category of accidental deaths has more than doubled in the United States since 1999?

- a. poisonings
- b. suffocations
- c. drownings
- d. shootings

16 | What does the Latin phrase *genius loci* mean?

- a. psychic thoughts
- b. a protective spirit
- c. perfect vision
- d. a good library



17 | According to Edgar Rice Burroughs' Tarzan novels, what is Jane's last name?

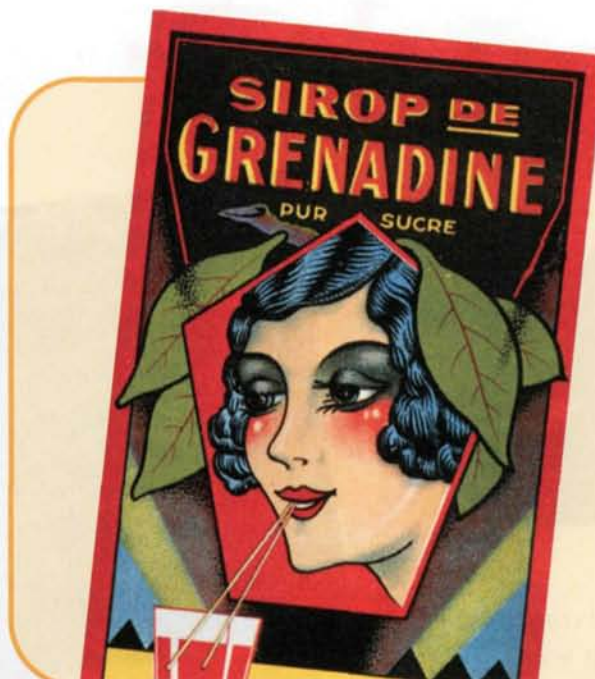
- a. Pearson
- b. Pierce
- c. Pauley
- d. Porter

18 | Which U.S. president arranged to have a "modesty panel" installed across the front of the desk in the Oval Office?

- a. William H. Taft
- b. Franklin D. Roosevelt
- c. John F. Kennedy
- d. Richard M. Nixon

19 | Which company was the key proponent of the HD-DVD format that lost out to Blu-Ray in the high-capacity DVD market?

- a. Sony
- b. Hitachi
- c. Toshiba
- d. Philips



20 | Grenadine, a red syrup used by bartenders, contains juice from what fruit?

- a. strawberry
- b. pomegranate
- c. cherry
- d. raspberry

21 | Which of these Canadian provinces is not currently home to a National Hockey League team?

- a. Manitoba
- b. Ontario
- c. British Columbia
- d. Alberta

22 | In the French language, a cedilla hangs from which letter of the alphabet?

- a. J
- b. C
- c. E
- d. P

23 | According to the Recording Industry Association of America, what's the top-selling soundtrack album in U.S. history with more than 17 million copies sold?

- a. *The Bodyguard*
- b. *Purple Rain*
- c. *Saturday Night Fever*
- d. *Cocktail*

24 | Captain Nemo is a key figure in which Jules Verne novel?

- a. *Journey to the Center of the Earth*
- b. *Around the World in 80 Days*
- c. *From the Earth to the Moon*
- d. *20,000 Leagues Under the Sea*

25 | A garland of yellow black-eyed Susan wildflowers is draped on the thoroughbred that wins which famous race?

- a. Preakness Stakes
- b. Kentucky Derby
- c. Breeder's Cup
- d. Belmont Stakes

Answers

1-d, he was a Presbyterian minister who championed vegetarianism and also invented the Graham cracker.
2-d. 3-b. 4-c. 5-a. 6-d. 7-a. 8-a. 9-a. 10-c. 11-b. 12-c. 13-d. 14-a. 15-a. 16-b, the phrase translates to "spirit place." 17-d. 18-b, he hoped the panel would hide his leg braces, but he died before it was completed. 19-c. 20-b. 21-a. 22-b. 23-a. 24-d. 25-a.

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November



Twelfth Night,

Shakespeare's romantic comedy about mistaken identity, will be staged by DramaTech Nov. 4-6 and 11-14. dramatech.org



Tech vs. Georgia, the Thanksgiving weekend classic, will be played on home turf Nov. 28. Go Jackets!

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Young Alumni Reunion

activities Nov. 6-8 will include Young Alumni Council members combing campus in the Alumni Association's "Techmobile" (think golf cart) before the football game against Wake Forest to award prizes at tailgating parties of alums from the classes of 1999 to 2009. gtalumni.org/youngalumni



Thanksgiving in New York City

will be carefree with Georgia Tech Alumni Travel handling everything for the Nov. 25-29 trip, which includes indoor parade viewing and tickets to the Radio City Christmas Spectacular. gtalumni.org/tours

December



Costa Rica

is the destination for Outdoor Recreation at Georgia Tech's eco-adventure Dec. 12-20. crc.gatech.edu/orgt/international

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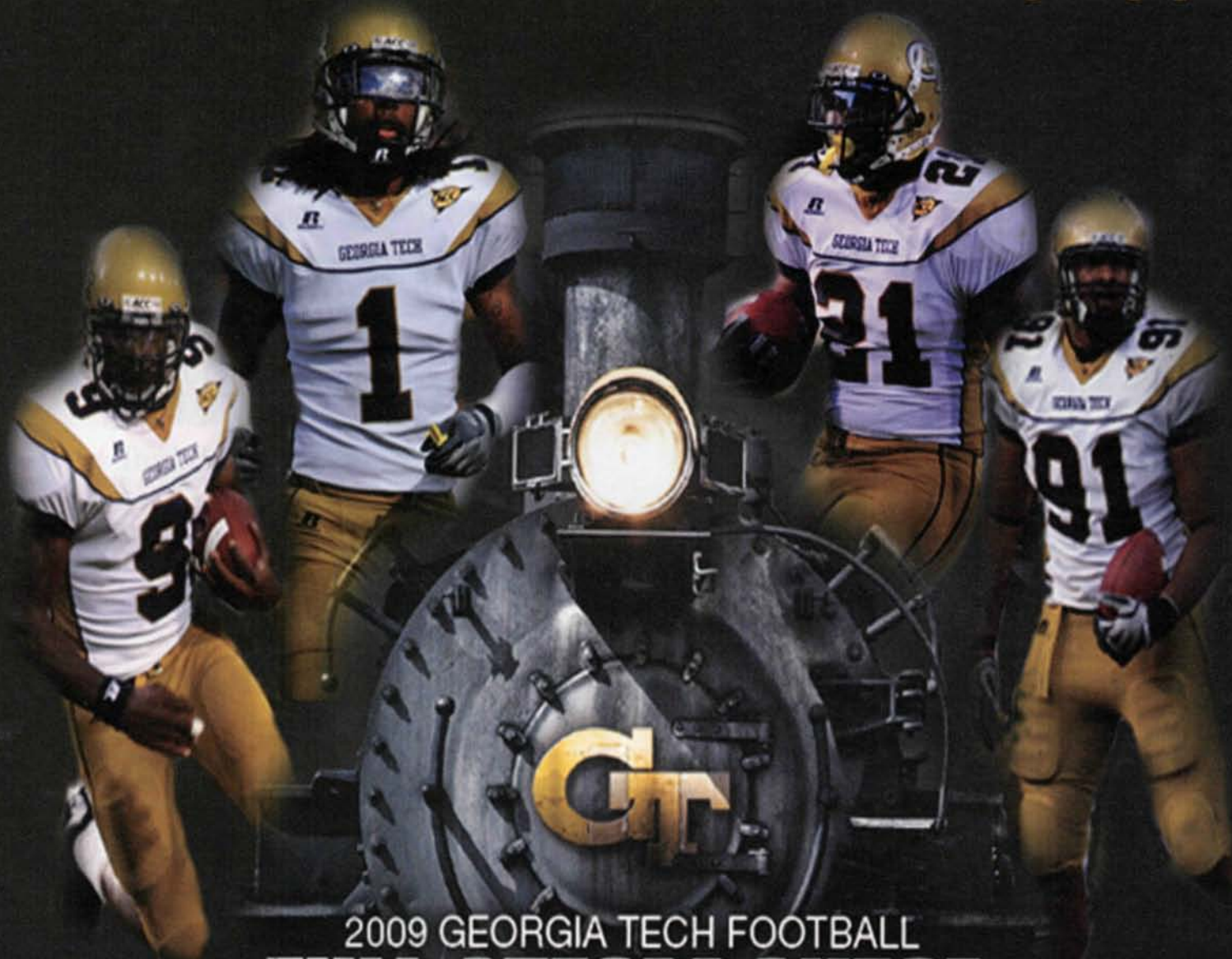
for Grammy Award-winning guitar master Earl Klugh to perform his interpretations of holiday classics at 8 p.m. Dec. 5 at the Ferst Center for the Arts. ferstcenter.gatech.edu

Commencement

speakers will be DARPA director Regina Dugan at the PhD and master's degree ceremony at 7 p.m. Dec. 11 and Richard Truly, AE 59, former astronaut and GTRI chief, at the 9 a.m. Dec. 12 undergraduate ceremony for all colleges except Engineering, which will award its degrees at 2 p.m. Dec. 12 with speaker Bill Nuti, chairman and CEO of NCR Corp.



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Home

Sat., Sept. 5 vs. Jacksonville State- 1:00pm
*Thurs., Sept. 10 vs. Clemson -7:30pm (White Out)
*Sat., Sept. 26 vs. UNC (Family Weekend)
*Sat., Oct. 17 vs. Virginia Tech (Homecoming)
*Sat., Nov. 7 vs. Wake Forest
Sat., Nov. 28 vs. Georgia

Away

*Thurs., Sept. 17 at Miami -7:30pm
Sat., Oct. 3 at Mississippi State
*Sat., Oct. 10 at FSU
*Sat., Oct. 24 at Virginia
Sat., Oct. 31 at Vanderbilt
*Sat., Nov. 14 at Duke

* ACC Games

The Demise of a Humor Magazine

By Kimberly Link-Wills

The *Yellow Jacket*, which labeled itself "America's most original college humor magazine," pushed the envelope of bad taste for some 30 years until it was banned in 1955.

The magazine ran articles devoted to the bikini and to beer, cartoons and poems and even advice on such matters as the best place in town to make out in the car. Each issue contained a healthy percentage of legitimate ads, including a full page on the back cover for cigarettes.

But it was the front cover as well as the editorial content that was its undoing. An editorial note in the December 1953 issue reads: "Ye ole Yeller Jacket almost didn't make it to the homes of all youse stoo-dents again cause of a little bit of difficulty from one of our more emotional fan clubs, but we showed 'em who was right and here we are just six months late."

The cover story in the February 1955 issue featured a famed exotic dancer named Kalantan who performed in both Atlanta and New Orleans. The staff followed that in May with an article titled "Secrets of a Secretary" — a story of a man-hungry woman working for a clueless dean.

That was the last straw. The Faculty Senate voted unanimously on May 25, 1955, to permanently end the run of sex jokes and female caricatures.

Korean War veteran Gordon Albury, BS 55, Arch 56, was the editor. His two immediate predecessors had been canned for objectionable content. Albury expected he too would be ousted but did not know the magazine would be killed for good.

"I was notified that there would be a

meeting to determine the course of action for publication of this story. [The writer] and I were called to the carpet to explain what we had done and why we had done it," said Albury, who asked to speak first so that he could take the blame.

"I was in my fifth year of architecture, and I was really carrying a healthy load of work. I also was doing stage design for an amateur theater in Atlanta. I got myself doing too much, and I was not practicing my editorial responsibilities as I should have been," Albury said, recalling that he took the writer's article directly to the printer — without editing it, without even reading it.

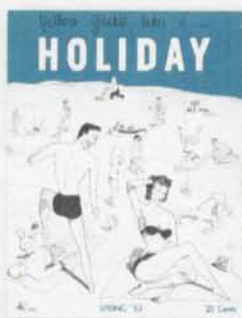
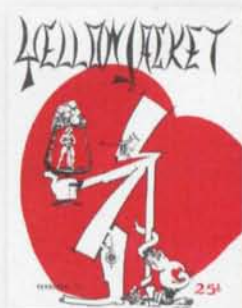
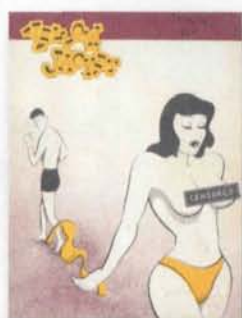
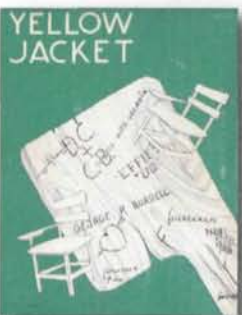
"The story portrayed the dean as not quite bright. He was a man of great character, and I liked him immensely," Albury said. "He was my adviser, and I spoke with him frequently about the progress of the magazine. He placed an awful lot of confidence in me, and to this day I regret it immensely that I did not carry out my responsibilities to the point that I should have. There really was no excuse for it."

Albury doesn't make excuses for some of the interview subjects he encountered.

"These were ladies who were stripteasers, if you will, in nightclubs in New Orleans. Some of them came to Atlanta and called me when they got there and said they'd like to see me and could we have supper or drinks. They would be with their chaperones," he noted.

Albury, who now lives in Sarasota, Fla., went on to an illustrious career as a design architect at Harvard, Los Alamos National Laboratory and the Smithsonian Institution.

Did he ever interview exotic dancers again? "Only in my dreams," he said, following the retort with peals of laughter.





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