

Inside:

Fulbright FellowPage 2
 Freeman's farewellPage 3
 In BriefPage 3
 Campus EventsPage 4



THE WHISTLE

FACULTY/STAFF NEWSPAPER

VOLUME 27, NUMBER 18 • MAY 6, 2002

THE GEORGIA INSTITUTE OF TECHNOLOGY

Chief of Police Vickery retires; director of campus safety created

New responsibilities for successor

*Michael Hagearty
 Institute Communications and Public Affairs*

Take a large college campus. Then put it in the middle of a major metropolitan city. Finally, expand its population density and land area across an interstate. Now find somebody willing to oversee law enforcement and security under these circumstances. A lot has changed during the past 22 years, but Police Chief Jack Vickery has remained a fixture. His retirement — effective June 1 — coincides with a redefinition of the

role of Tech's head police official. Bob Thompson, senior vice president for Administration and Finance, cited the importance of emergency planning and response as a major factor in the decision. "A desire to continue our campus safety progress, coupled with Chief Vickery's retirement, have caused us to consider how we might best organize and deliver these services," he said. Vickery said that, as Tech becomes more connected to the community, such a change was to be anticipated. "I believe society's expectations and the expectations of most campus communities have evolved — and are continuing to evolve — to expect

Safety continued, page 2

Zegura named interim dean for College of Computing

*Bruce Brooks
 College of Computing*

Provost Jean-Lou Chameau has named Ellen Zegura, assistant dean of facilities planning and associate professor of computing, to the position of interim dean of the College of Computing, effective May 6. Chameau made the announcement at a special faculty meeting on April 25, which was open to all members of the College. Zegura will serve as dean while a search committee looks for a replacement, which could be announced as early as this summer.

In making the announcement, Chameau said, "I'm very pleased that Ellen has accepted my offer to hold this important position during this critical time for the College. Having served the College and Georgia Tech in numerous capacities over the years, I'm confident that the College will continue to perform very well under her guidance and leadership."

In January Peter Freeman announced he was stepping down as dean to assume a position with the National Science Foundation (NSF) in Washington as assistant director of NSF for Computer and Information Science and Engineering (CISE). He will remain a member of the Georgia Tech faculty, on assignment to NSF.



Ellen Zegura

"I am delighted to be named interim dean of the College of Computing," Zegura said. "This is an important time for the College. We are revamping the introductory courses to improve both the learning experience and the assessment process; we are planning for two new buildings (Yamacraw and the Klaus Advanced Computing Technology Center); and we have a substantial and unexpected increase in new Ph.D. students for the fall semester. I look forward to working with staff and colleagues on these and other near-term tasks."

Zegura continued, page 3

Spring Commencement largest in school history

*Elizabeth Campell
 Institute Communications and Public Affairs*

When asked about her plans after graduation, Erin Combes replied, "Road trip!" She plans to hit four different amusement parks and two baseball games before returning to Atlanta to do some serious job searching while continuing to work as a lab technician at the Georgia Tech Research Institute (GTRI).

This past weekend, Erin and father, Rich Combes, each celebrated their graduations from Tech, two of the 1,847 students who received degrees at Alexander Memorial Coliseum during Georgia Tech's 212th commencement ceremony.

President Wayne Clough served as master of ceremonies, and John Marburger III delivered two commencement addresses at both the morning's undergraduate ceremony and the afternoon event for those receiving master's and doctoral degrees. Marburger is science advisor to President George W. Bush and director of the Office of Science and Technology Policy, which oversees the President's Council of Advisors on Science and Technology, of which Clough is also a member.

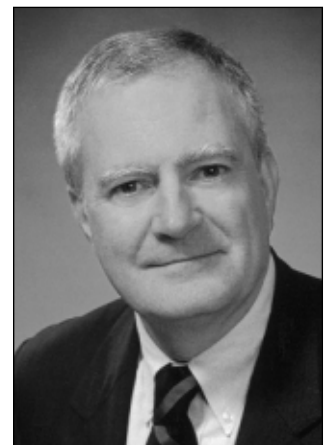
While Erin received her bachelor's degree in polymer and textile chemistry, Rich received his fourth degree, a Ph.D. in History of Technology, to go with bachelor's and master's degrees in mechanical engineering, and a master's degree in technology and science policy — all from Georgia Tech.

With 30 years of service, Rich will retire in late June from his position as a senior research engineer with GTRI. He and his wife, Bonnie, plan to move to South Carolina where he plans to teach.

"One of the things that attracted me to the job was the option of attending graduate school at Tech while working full-time," he said. "I've earned three degrees while working at GTRI, which has been very supportive of my studies."

His daughter credits her father's influence in her success. "Looking back on things, I find that my dad's advice about what to do to succeed here at Georgia Tech was completely on target," she said. "It was just a matter of if I listened. He has always

been a good example. It did not really matter that he was also a student here at Tech."



John Marburger, a presidential science advisor, delivered both commencement addresses at Saturday's graduation.

Paralegic graduates with honors

Of all the graduates, Christina Freyman's story stands out as one of fierce determination to overcome a number of obstacles and succeed in what she set out to do — graduate from Georgia Tech. Last weekend, Freyman graduated with honors with a bachelor's degree in materials science and engineering and a minor in public policy. In the fall, she heads to Northwestern University for graduate school.

Last summer, Freyman was driving near Salt Lake City on her way home to Hot Springs, Arkansas, when she had a serious car accident.

Her car ran off the road and flipped several times before coming to a rest upside down. An emergency helicopter, en route to Salt Lake City, saw the stopped traffic and made an unplanned landing.

"This is the sole medical reason I am doing so well," she said. "The medical team in the helicopter was able to administer steroids on the ground. The steroids helped to stop the swelling of my spinal cord and prevented the cord from damaging itself past the original break."

Freyman was in the hospital for two months and missed a semester of school. For a while, the prognosis was that she might not walk again

Graduation continued, page 3

QUOTE— UNQUOTE—

"If the progression of the disease is slowed even a small amount, patients can maintain functionality longer and require less care for a longer period of time. Maintaining function not only benefits the quality of life of the patient, but also the caregiver, who is usually a spouse or relative."

—Anderson D. Smith, Regents' Professor of psychology and associate dean in the College of Sciences, on a shift in Medicare policy, meaning Alzheimer's patients can no longer automatically be denied coverage for services in home health care, hospice care and mental health services. (Atlanta Business Chronicle)

"The key question that drives performance measurement is 'How am I doing?' The problem with all of our traditional measures is that the answer is usually, 'it depends.'"

—Leon McGinnis, professor in the School of Industrial and Systems Engineering, on a new benchmarking tool developed at Tech known as iDEAS for measuring warehouse performance. (Inventory Reduction Report)

Fulbright Fellow wants to build a better airplane

David Terraso
Institute Communications
and Public Affairs

Brian German's love affair with airplanes started when he was three years old, the day his father first showed him the skies in his Lake Buccaneer. No ordinary plane, the Buccaneer could take off and land on the ground and the water, using its fuselage to keep it afloat. It was his first glimpse at innovative aircraft designs and although most kids would've probably wanted to pilot the planes, by the time he was 12, German knew he wanted to build them. Now, as the winner of a Fulbright Fellowship, the 26-year-old graduate student from Lafayette, Georgia, will get the chance of a lifetime when he flies to Germany in August to spend a year immersed in aerospace research at the Technical University of Berlin (TU Berlin).

German says his passion for engineering began at an early age. "I was always big into Lego blocks as a kid. I used to watch the Discovery channel with my dad and they'd show the guys in white coats who designed the planes. I wanted to do that. I wanted to be able to make something from nothing," he said.



Fulbright Fellow Brian German

A long way from Legos, now he's working on using high-intensity sound waves to make aircraft engines more efficient. "You can push air with sound," he said, which increases air compression inside the engine. The higher the intensity of the sound, the more it compresses the air. And as the air compression inside the engine increases, so does its efficiency.

That's the theory, anyway. German's research at TU Berlin should help discover if the theory translates to the real world.

The Fulbright Fellowship will pay for his travel, tuition, books, as well as room and board. The program was created in 1946 with legislation

sponsored by Senator J. William Fulbright, who reasoned that nations would be less likely to go to war against each other if people could study abroad and learn about each other's culture. Each year, the U.S. component of the international program awards about 900 grants for American students to pursue international research. More than 140 countries participated in the program this year.

"Germany has such a strong heritage in engineering and rich history in fluid dynamics that it was a natural choice for me to want to study there," he said.

This will be the first time German will have studied anywhere other than Georgia Tech since he enrolled in the fall of 1994. After earning his bachelor's in aerospace engineering in 1999, German received his master's a year and a half later and expects to get his Ph.D. in December 2003. Until now, he's never applied to any other school.

German said he's ecstatic about the chance to study in Berlin and can't wait to begin his research. But the first thing he'll do when he lands won't be cranking up an airplane engine; it'll be enrolling in a language refresher course.

Safety, cont'd from page 1

more services from the institution and its police, safety and security operations," he said. "Campuses are increasingly community-oriented, both as a campus community with its own unique needs, but also as a significant partner in the larger community to which the campus belongs."

Thompson cited the recommendations of the Campus Safety Task Force, currently being evaluated by senior administration officials, which examined many of these concerns in a report issued over the winter. "We realize that there is a clear need to enhance everyone's awareness of safety, security and emergency response protocols," he said, "as well as to assure our individual attention to them." Adding to that complexity is the rate of campus growth, not only in population, but also in land and buildings as the Institute extends its boundaries over the interstate into Technology Square.

"The world is changing," Vickery said, "and after the tragic events of last September 11, our sense of security, and what are reasonable and acceptable levels of security has changed, perhaps permanently and unalterably.

Georgia Tech, its security practices and its police force must continue to evolve as well."

As a result, the position of chief of police will be changed to director of Campus Security and will report to Thompson's office. In addition to current duties, Vickery's successor will have added responsibilities for emergency preparedness and response. Thompson said a national search would be initiated immediately to assure a qualified pool of candidates with experience working on a large campus in an urban environment. He also announced that a committee comprised of student, faculty and staff representatives had been formed for advisement on campus perspectives and assistance in identifying candidates.



Jack Vickery is retiring after 22 years on the Georgia Tech police force.

coordinating the efforts of the department's three major divisions — patrol, support services and criminal investigation — involving the supervision of 46 sworn police officers among a 69-member, full-time staff.

"Jack has given 22 years of exemplary service to the Georgia Tech community and to generations of students and alumni," said Thompson. "We all wish him the best in his retirement."

In planning for his golden years, Vickery said he plans to hit the road. "This is a great country, and I'm embarrassed to say I have seen too little of it. My wife, Barbara, and I hope to correct that, one trip at a time ... like Charles Kuralt, but without the television cameras."

The advisory committee:

Chuck Donbaugh (chair), associate vice president of Human Resources
Gail DiSabatino, dean of Students
Tommy Little, building services manager in Facilities
Carol Senf, associate professor, School of Literature, Communication and Culture
Stephen Popick, undergraduate student, chair of SGA Campus Services Committee
James Thomas, Public Safety Captain
Rod Weis, director of Parking and Transportation

As the highest ranking official in the department, the police chief is responsible for directing and

Georgia Tech



THE WHISTLE

Editor: Michael Hagearty

Published by Institute Communications and Public Affairs.

Publication is weekly throughout the academic year and biweekly throughout the summer.

The Whistle can be accessed electronically through the Georgia Tech web page, or directly at www.whistle.gatech.edu.

E-mail Whistle submissions to michael.hagearty@icpa.gatech.edu, or fax to Michael at 404-894-7214 at least 10 days prior to desired publication date. For more information, call 404-894-8324.

Cost/\$675

Copies/5,200

Institute Communications and Public Affairs
Wardlaw Center
177 North Avenue
Atlanta, Georgia 30332-0181

Georgia Tech is a unit of the University System of Georgia.

IN BRIEF:

A farewell to Freeman



Peter Freeman, the first dean of the College of Computing, was greeted by faculty, students and alumni who share his taste in neckwear at a "farewell fiesta," in honor of his new position at the National Science Foundation. Clockwise from upper left, doctoral student Vernard Martin, Associate Professor Mary Jean Harrold and Thom McLean, a doctoral student, seen shaking Freeman's hand.



photos by Peter Wan

Golf team retains ACC title

Led by the play of senior Matt Weibring and freshman Nick Thompson, both of whom finished tied for second place at 9-under-par, the Georgia Tech men's golf team won its second-straight Atlantic Coast Conference men's golf championship and its eighth in school history overall. Tech won the 54-hole event at the par-72, 7,102-yard Old North State Club in Uwharrie Point, N.C.

The top-ranked Yellow Jackets carded the second-lowest team round of the final day of play, finishing with a team score of 6-under-par 282 to complete play in the tournament at 27-under-par. Tech's total put it four shots ahead of runner-up NC State, followed by Clemson for third place. The win was Tech's sixth team victory of the year, setting a new school and ACC record for wins since the NCAA limited playing dates in the early 1990s.

The win gave Tech the ACC's automatic bid into the NCAA East Regional, which it will host on May 16-18 at Ansley Golf Club's Settin-down Creek in Roswell, Ga. Full ACC Championships results are available at www.theacc.com.

IPST teams with P&G

Each year, a substantial amount of energy is consumed in the production of more than 100 million tons of paper and paperboard in the United States. The Procter & Gamble Company and the Institute for Paper Science and Technology (IPST) hope to improve the efficiency of papermaking to save energy and money. At a news conference held at IPST, P&G announced last week a donation of its proprietary Pulsed Air Drying (PAD) technology to IPST for further development and commercialization. Procter & Gamble's donation to IPST includes four active and pending patents and all associated intellectual property.

Conventional paper machines dry paper by passing the paper over heated metal cylinders. An improvement over this technique, called impingement drying, adds a steady flow of heated air to the drying process, much like a hair or hand dryer. PAD technology is potentially two to four times faster than impingement drying. PAD technology uses pulses of air and heat with forward and reverse flow to decrease drying time and improve energy efficiency.

Because energy is a significant cost in papermaking, PAD technology could reduce this cost by up to 25 percent, depending on the paper grade. In addition to potential energy savings, PAD technology may allow for significant reductions in capital investment in conventional drying equipment.

The PAD technology is P&G's second technology gift to IPST. In September 2000, the company also donated its "Clay-filled Paper Technology" (CFT), which reduces the amount of wood fiber used in paper by replacing it with kaolin, a type of natural clay - without affecting the paper's strength or softness.

Readership survey

A special thanks to all who responded to last month's Whistle readership survey. Nearly 15 percent of those surveyed returned their cards, and we will be spending the summer months tabulating your opinions and implementing changes where appropriate. Prize winners will be notified via e-mail or, when necessary, by phone.

Zegura, cont'd from page 1

Dean Freeman also praised the provost's choice during the meeting. "I am delighted that Ellen has been named to the interim dean position," he said. "Having worked closely with Ellen on space matters and

other issues, I know that things will be guided wisely and expertly until a new dean is named."

As assistant dean of facilities planning, Zegura oversees all aspects of space needs for the College's faculty, staff and students. She has earned her doctoral, master's and bachelor's

degrees in computer science, and a bachelor's degree in electrical engineering, all from Washington University in St. Louis. She joined the College as an assistant professor in 1993 from Washington University, where she served as a research assistant.

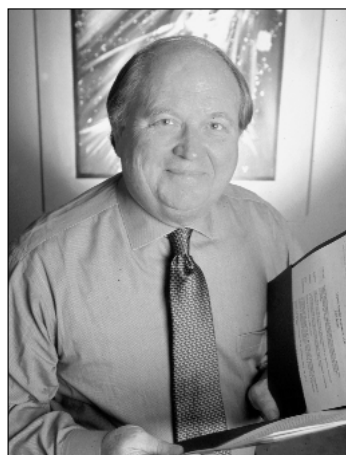
Graduation, cont'd from page 1

and she would lose brain capabilities. Freyman spent the last month of her rehabilitation at Shepherd Center in Atlanta after a stint of therapy in Louisville, Kentucky.

Originally scheduled to graduate last December, Freyman walked across the stage and received her diploma only one semester later than planned.

Inaugural class of EMIL program

There were other notable events as well. For the first time, participants in Tech's Executive Masters in International Logistics (EMIL) program received certificates of completion. The EMIL program offers course work spanning over 18 months that takes participants to Europe and Asia to



Donald Chapman received the alumni award for distinguished service.

learn about the regional influences that shape logistics around the world. Approved by the Board of Regents of the University System of Georgia in 1999, the 22 executives in the

Georgia Tech ceremony represent the inaugural class.

Tech Honors Two Alumni

Two alumni were also recognized during the Commencement ceremony for their outstanding contributions to Georgia Tech and the community. Donald Chapman received the Joseph Mayo Pettit Alumni Distinguished Service Award, and Tony Chan, who earned both his bachelor's and master's degrees at Tech, received the Outstanding Young Alumnus Award.

For more information...

Executive Master's in International Logistics (EMIL)
www.emil.gatech.edu/index.cfm