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THE WHISTLE

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THE GEORGIA INSTITUTE OF TECHNOLOGY

Anchors aweigh!

Staff in the College of Engineering took a break from their routines last week for an afternoon event in their honor. The dean's office sponsored the annual staff appreciation day — this year's theme was "Sailing the Sea with COE" — as a gesture of thanks for their hard work.



To the crowd's delight, school chairs Robert Loewy (Aerospace Engineering) and Andy Griffin (Polymer, Textile and Fiber Engineering) do the twist.



Daurette Joseph, an academic advisor in the School of Aerospace Engineering, tests her flexibility on the limbo line, one of several maritime-themed activities in which staff could participate.

President's annual address aims at 'defining the future'

President Wayne Clough will deliver the annual State of the Institute Address to faculty and staff on Oct. 10 at 3 p.m. in the Global Learning and Conference Center during the fall combined meeting of the General Faculty Assembly and Academic Senate.

Each fall, President Clough shares his assessment of Georgia Tech's progress as a way to recap Georgia Tech's achievements of the past year and to map out a plan for the Institute's continued success.

The presentation also offers the campus community a chance to hear about student accomplishments and faculty success while evaluating the direction of the Institute initiatives for the upcoming year.

The theme of this year's address, "Defining the Future," examines Tech's vision statement — to define

2006 State of the Institute

Faculty presentation: Oct. 10
Amphitheater 236, Global Learning and Conference Center (3 p.m.)

Student presentation: Oct. 12
Student Center Ballroom, 11 a.m.

Alumni presentation: Oct. 27
Amphitheater 236, Global Learning and Conference Center (3:30 p.m.)

the technological university of the 21st century. In working toward that goal, Georgia Tech is developing a more complete understanding of the characteristics required of such a university. This year's address will examine those characteristics and some of the things Tech is doing to achieve them.

College of Engineering among 'top ten' for Hispanic students

David Terraso
Institute Communications
and Public Affairs

Hispanic Business magazine has ranked Georgia Tech's College of Engineering as one of the nation's top ten engineering graduate schools for Hispanic students. Tech's engineering school held the number three spot this year.

"The College of Engineering is working harder than ever to ensure that Hispanic students can excel at Georgia Tech," said Don Giddens, dean of the College of Engineering. "With programs such as The Goizueta Foundation fellowships and scholarships, Georgia Tech maintains its long-standing commitment to the Hispanic community."

The ranking cited Tech's reputation as one of the nation's premier research universities and the rapidly growing enrollment of Hispanic, female and other minority students that prepares them for a multicultural workforce.

Tech is one of the largest producers of Hispanic engineers in the country, a status it achieved not only through the high quality and reputation of its engineering programs, but also through targeted recruitment and retention of Hispanic students. The linchpin to these efforts is The Goizueta Foundation, established by the late CEO and chairman of the board of directors of The Coca-Cola Company, Roberto C. Goizueta.

Since 2001, the foundation has contributed more than \$6.5 million to boost recruitment and retention of Hispanic students at the graduate and undergraduate levels through scholarships and fellowships, as well as endowing a faculty chair and a rotating chair position for junior faculty. Last year, support from The Goizueta Foundation allowed Tech to hire a program director, Jorge Breton, to support Hispanic recruiting and administer the scholarships. This fall, Tech awarded 53 Goizueta-funded

Top 10 continued, page 2

QUOTE UNQUOTE

"We're comfortable with the way our process goes. The early admission process helps lock in a certain percentage of a class — but we've not found that it's been necessary for us to do that. There's been lots of talk about how it impacts students and additional stresses it brings to bear. Parents and students are usually pleasantly surprised when they learn we don't have it."

—*Ingrid Hayes, director of undergraduate admission, on the recent public debate over the early admission process. Some prominent universities are eliminating their early decision programs in an effort to make the schools more accessible to low-income students. (Atlanta Journal-Constitution)*

Schuster names sciences dean search committee

Provost Vice President for Academic Affairs Gary Schuster has announced the formation of an advisory committee that will evaluate applicants who wish to lead Georgia Tech's College of Sciences. A national search is under way, and is expected to continue into next year.

"(President Wayne) Clough and I appreciate the willingness of the committee to share their time, expertise and talents to ensure the successful recruitment of a stellar leader and scholar for this important position," he said.

Schuster also said that the Institute had hired the executive search firm Baker Parker Associates to facilitate the identification of candidates.

Andy Griffin (chair), chair, Polymer, Textile and Fiber Engineering

Al Merrill (co-chair), professor, Biology

Fredda Blanchard-Fields, professor, Psychology

Tom Burkholder, associate professor, Applied Physiology

Eric Carlen, professor, Mathematics

Mike Chapman, professor, Physics

Frank Cullen Jr., alumnus, MATH '73

Alison Graab, president, Undergraduate Student Government

Greg Huey, associate professor, Earth and Atmospheric Sciences

Nick Hud, associate professor, Chemistry

Mitch Keller, president, Graduate Student Government

Paul Kohl, Regents' professor, Chemical and Biomolecular Engineering

Greg Nobles, professor, History, Technology and Society

Jeff Sitterle, chief scientist, GTRI

Marian Usselman, senior research scientist, CEISMC

Ellen Zegura, associate dean, College of Computing

Chuck Donbaugh (ex-officio), associate vice president, Human Resources

Jennifer Herazy (ex-officio), assistant provost

Regents approve degree in music

Matt Nagel
Institute Communications
and Public Affairs

At its September meeting, the Board of Regents for the University System of Georgia approved Georgia Tech's first degree in music. Housed in the College of Architecture, the Music Department will now offer a master of science in Music Technology.

The program's inaugural students will seek a concentration in Music Technology Research and Engineering, but departmental leadership plans to add another concentration in music and media production within a couple of years.

"We are really looking forward to seeing our classes and labs full with creative and driven students, inspiring us and each other to push the

boundaries of music, art and technology," said Gil Wienberg director of Music Technology.

More than 1,100 students will sing, play or study music at Georgia Tech, but until now they could only pursue a music certificate or music minor.

Students will choose between a project track and a thesis track to complete curriculum requirements. Details about the syllabus and the class offerings will be online within a couple of weeks. Georgia Tech plans to have the online registration ready by the end of October and start receiving applications for the spring semester in November.

For more information...

Music Department
www.music.gatech.edu



Institute research has shown that student retention is 4.5 times greater for students involved in music.

Georgia Tech

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Top 10, continued from page 1

scholarships and fellowships.

"We are being recognized for our continuing commitment to recruit and retain a diverse student population, including Hispanic engineers," said J. Carlos Santamarina, professor of civil and environmental engineering and Goizueta Foundation Faculty chair. "This is a manifestation of Georgia Tech's emphasis on placing resources to create the right environment, the right mixture of faculty and support staff, and it's a sign of our commitment to welcoming students of Hispanic origin and making sure they feel comfortable at Tech."

Hispanic students are growing at the undergraduate level as well. This year the number of Hispanic students entering the freshman class grew 24

percent over last year. Since 2001, the number of Hispanic freshman has jumped 179 percent.

But, if recruitment efforts get students in the door, it's the quality of education, the faculty and student support organizations that keep them at Tech. Essential to these efforts are The Goizueta Foundation Faculty chairs. Both Santamarina and the junior rotating faculty chair, Rigoberto Hernandez of the School of Chemistry and Biochemistry, use their funding both for long-term academic initiatives and to mentor students.

The ranking also cited student support organizations — the Spanish Speaking Organization, La Unidad Latina, Lambda Theta Alpha Latin Sorority, the new Hispanic Scholarship Fund and the Society of Hispanic Professional Engineers

(SHPE) — that ensure Hispanic students have the support they need to be successful at Tech and in their careers.

"I am honored to be part of an institution that is valued not only for its academic excellence but for being a great place for Hispanics," said Lucas Posada, president of Georgia Tech SHPE. "We have increased Hispanic awareness on campus and united the Hispanic community at Tech. SHPE has been able to achieve this by having a balance between professional/academic development activities and social/cultural activities that bring together all Hispanics on campus."

"I think that every single student that comes to Georgia Tech has tremendous potential," said Santamarina. "It's my goal to help them realize that potential."

Private partnership initiates VoIP security research

Elizabeth Campell
Institute Communications
and Public Affairs

The Georgia Tech Information Security Center (GTISC) have announced the creation of a partnership with BellSouth and Internet Security Systems to explore security surrounding the emerging Voice over Internet Protocol (VoIP) technology.

As communication services migrate to Internet-based platforms, it is important that the security and dependability users expect in the current public switched networks be maintained with these new converged technologies. Last year's GTISC VoIP Security Summit initiated a dialogue with security and telecommunications industry leaders, including ISS and BellSouth, to proactively address security associated with this emerging technology.

"We feel strongly that security should not be an after-thought with VoIP," said Mustaque Ahamad, principal investigator and director of GTISC. "By partnering with proven industry leaders, GTISC will be able to lead the research efforts necessary to better understand VoIP threats and explore techniques that are well suited for securing VoIP devices, protocols and services."

Convergence of Internet technologies with traditional telecommunications services creates opportunities for added flexibility, lower costs and enhanced services and applications. However, to fully enable the benefits it is vital that any vulnerabilities be identified and addressed early. The

researchers plan to conduct a security analysis of VoIP protocols and implementations and explore issues such as VoIP authentication for dealing with voice spam, modeling of VoIP traffic and device behavior, mobile phone security, and security of VoIP applications running on user agents.

Internet Security Systems and BellSouth have committed to a two-year research program totaling \$300,000. This funding will enable GTISC faculty and graduate students to work with ISS and BellSouth technologists to develop and evaluate solutions that address VoIP security. In return, BellSouth and ISS will have access to the resulting intellectual property.

"Internet Security Systems was one of the first security companies to provide coverage for VoIP protocols in our products," said Christopher Rouland, chief technology officer at Internet Security Systems. "We look forward to working with experts at GTISC and BellSouth to further our understanding of VoIP vulnerabilities and how best to mitigate them for our customers."

"BellSouth is committed to ensuring security is an integral component in all our products and services, and working with GTISC and ISS is one way to continue that focus with next generation products such as VoIP" said John Heveran, BellSouth's chief information security officer.

For more information...

Georgia Tech Information Security Center
www.gtisc.gatech.edu

SAIC supports computing students with scholars program

Commitment to offer mentoring, research for women and minority undergraduates

Dan Treadaway
Institute Communications
and Public Affairs

Helping to expand opportunities for women and minority students in computing and other technological fields has become an impassioned cause for Georgia Tech parent Beverly J. Seay, senior vice president and manager of Strategies, Simulation, and Training at Science Applications International Corp. (SAIC).

Three years ago, Seay made a personal commitment of \$50,000 to endow a scholarship for women students in computing and to support Tech's Women's Resource Center. Seay became familiar with the College of Computing and the Women's Resource Center through her daughter, Michelle Kitaoka Nicol, who graduated last year.

To build upon the important work that her commitment is accomplishing, Seay has inspired her employer to make a five-year, \$255,000 commitment to the College of Computing to establish the GT/SAIC Scholars Program. Seay, who serves on SAIC's Corporate Diversity Council, worked through the Council to secure the commitment.

The GT/SAIC Scholars Program will match women and minority undergraduates and master's students with doctoral student mentors and their faculty advisors, and will include active engagement in a research project throughout the academic year. Other program elements will provide opportunities for professional development, a stipend, an ongoing link with corporate leaders at SAIC, and an ongoing advising program to

support their success.

Maureen Biggers, assistant dean of diversity and communities in the College of Computing, says the SAIC commitment explicitly supports the College's strategic goals related to student recruitment and retention. "The national trend over the past several years shows consistently low numbers of minorities and a significant decline in the numbers of women choosing to study computing," Biggers said. "The SAIC commitment strongly supports our goals and provides an opportunity to offer a program for these underrepresented women and minority students that will not only help us attract new students, but also enhance their retention."

Karen Penn, vice president and director of corporate diversity at SAIC, said that the company greeted Seay's proposal to support Georgia Tech with a great deal of enthusiasm.

"SAIC is committed to addressing the critical shortage of underrepresented students in the fields of science and technology," said Penn. "Responding to this shortage is a key factor to sustaining both our success as well as our commitment to recruiting, retaining, and advancing a diverse, talented team of highly motivated individuals to solve the critical challenges of our customers."

"I am proud of SAIC for making this extremely significant commitment to Georgia Tech," said Seay. "To be successful, these bright young people must be both competent and confident. The GT/SAIC Scholars Program will help students develop both key skills."

A Fortune 500 company, SAIC is the largest employee-owned research and engineering firm in the United States.

IN BRIEF:

Homecoming 2006

The Alumni Association is taking reservations for a weekend of events to celebrate Homecoming. From Oct. 26-28, faculty and staff are invited to enjoy seminars offered by some of Georgia Tech's top faculty, participate in the annual Buzz Bash "Carnivale: Imagination Becomes Reality" or tailgate before the football game against the University of Miami. For registration information, call 894-9272 or visit www.gtalumni.org/Homecoming.

Cuban alumni start educational loan program

A group of Georgia Tech alumni announced the creation of a new program designed to encourage students of Cuban descent to use the knowledge they acquired at Tech to help rebuild the island nation at the appropriate time.

The program, "Reconstruyendo El Puente," or "Rebuilding the Bridge" is a privately funded educational loan program available to students of Cuban descent who attended Georgia Tech. Under the provisions established by the alumni, the loans will be forgiven provided that recipients return to work in Cuba when conditions allow.

The fund was created by a group of Cuban-American alumni with the intent of eventually rebuilding the bridge that historically brought Cuban students to Tech. The group, in collaboration with the Georgia Tech Office of Development, has raised \$1 million of the initial goal of \$5 million.

"For more than 75 years, Cuban students have been part of the academic and cultural environment at Georgia Tech," said Juan Portuondo, spokesperson for the alumni. "It is time to give back not just to our alma mater but, most importantly, to our country of origin."

Those interested in joining the Alumni Committee should contact Portuondo at 305-361-1700 or e-mail ipgroup1@bellsouth.net.

Fire extinguisher training

Because people often underestimate the danger of a fire or are unsure of how to decide if they should use a fire extinguisher, Georgia Tech's Environmental Health & Safety (EH&S) Fire Safety Office is offering education and training to provide faculty and staff with a level of knowledge that can help guide their decisions when it is too dangerous to utilize a fire extinguisher.

The purpose of this training is to provide instruction on how to size up a fire and understand the limitations associated with a portable fire extinguisher. Recently, EH&S purchased a fire extinguisher training simulator and is now offering training to all campus departments or organizations. Studies have shown that when an individual is properly trained on the use of fire extinguishers, they are 2.5 times more effective when extinguishing a fire.

Training classes start with a lecture/presentation and then outdoor hands-on training. The goal is to train everyone on campus in the proper use of fire extinguishers. For more information, contact the Campus Fire Safety Office by calling 385-7474 or by sending an e-mail to michael.hodgson@ehs.gatech.edu.