warning sirens monthly

To assure that Georgia Tech’s Siren Warning System is in continuous operational condition, the Office of Emergency Preparedness will begin testing the system on the first Thursday of each month at 11 a.m. beginning Nov. 6. All speaker stations will be tested simultaneously playing the following test message twice: “Attention. Attention. This is a test of the Georgia Tech Emergency Notification System. This is only a test. This is a test of the Georgia Tech Emergency Notification System. This is only a test.”

The Siren Warning System is comprised of seven speaker stations located across campus. Designed to notify people who are outdoors, the system complements the Georgia Tech Emergency Notification System (GETEN), which delivers time-sensitive emergency messages in the form of e-mail, voice mail and text messages to the campus community.

For more information:
Emergency Preparedness
www.gatech.edu/emergency

Institute places eighth in two world rankings

Georgia Tech recently was listed among the top 100 world universities in engineering and technology in two separate global rankings. The Institute ranked eighth on the list of the world’s top universities in engineering and accounted for 2 percent of the world’s published engineering research. The Institute ranked tenth on the list of the world’s top universities in computer science, according to the Times Higher Education Supplement-QS, the list, considered the definitive university ranking guide in the United Kingdom, was compiled through a study conducted by QS (Quacquarelli Symonds) and published in the Times Higher Education supplement, an independent annual education survey. Tech also garnered the eighth spot on the list of the top 100 world universities in engineering and computer sciences, according to Shanghai Jiao Tong University’s Academic Ranking of World Universities (ARWU). ARWU ranks major institutions according to their academic or research performance in each of five broad subject fields according to a formula that factors in the following indicators: alumni and faculty hiring, publications per faculty, citation impact, international collaboration and citations per paper.

Rankings continued, page 3

Mayberry settling into CPO role

Georgia Tech’s new Crime Prevention Officer (CPO) Ian Mayberry has been named the Institute’s Crime Prevention Officer in September. Mayberry says he has heard all the jokes—Barney Fife, Andy Griffith, anything in between—but it doesn’t phase him. As a patrol officer for the last two years, he has taken seriously the job of keeping the campus safe. “In patrol, I tried to be very active. I was constantly on the move, making traffic reports, working with students, staff and faculty. “In patrol, I tried to be very active. From taking reports, working with students, staff and faculty. “I noticed a big change,” Mayberry said. “I noticed a big change,” Mayberry said. “I noticed a big change,” Mayberry said.

Mayberry continued, page 3

In Brief

NSF awards center for study of electronic materials . . . . 3

Institute places eighth in two world rankings

continued, page 3

Mayberry settling into
CPO role

continued, page 3

Scissors, paper, exhibit

Paper works christen new museum space

Robert Nesmith
Communications & Marketing

Masterful cut paper works from American and international artists serve as an appropriate inaugural showcase for the expanded exhibition space at The Robert C. Williams Paper Museum.

Designed by Polly Patton with Facilities, the space was completed just prior to the new exhibit. Lightly colored, wood-paneled walls adorn the existing museum, while the décor of the new exhibition space—a glass “panel” doors, which are original to the museum, greet exhibition visitors. White walls, along with variable and subdued lighting, greet visitors. Windows are sparse, minimizing the effects of harmful UV light.

“How the space functions is the most important aspect of the design in my eyes,” Patton said. “I think the space doesn’t function, then the design has failed.” While she didn’t visit any specific spaces for inspiration, Patton took into account the existing museum and how the two could work together. “The original space was very rich and intimate, with a lot of wood,” said Teri Williams, assistant director of the Robert C. Williams Paper Museum. “We wanted the new space to have a relationship to the old, a gradual transition.” This renovation, Williams said, was made possible in part by the Mead Witter Foundation Inc. and the Bob and Barbara Williams Foundation.

Making the cut

Co-sponsored by the Swiss Consulate in Atlanta, “Cutting Fine, Cutting Deep: Cut Paper Works from Switzerland and North America” showcases different approaches to cut-paper art. The curator, Sewanee: The University of the South Assistant Professor of Art Julie Puttgen, was Williams’ graduate assistant when Museum continued, page 2

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Georgia Tech welcomes two to three area school groups a week. Tech students work with the elementary and middle school visitors to learn the history and process of papermaking. Before the tour is completed, students shape, make and dry their own sheets of paper. Williams says she sees this as a great outreach opportunity for the Institute. “We bring a lot of schools in,” she said. “Paper is absolutely perfect to use as a lesson plan. You can use it to discuss history, geography, literature, science and the arts.”

“Cutting Fine, Cutting Deep” runs through Nov. 14. “Beyond the Page: The Art of Carol Barton” is scheduled to be shown from Dec. 4 to Feb. 20, 2009. In the future, Williams says she hopes to showcase a photography exhibit.

Exhibitions and the museum are open to visitors Monday through Friday, from 9 a.m. to 5 p.m.

For more information:
Robert C. Williams Paper Museum
www.istp.gatech.edu/omp

Museum, cont'd from page 1

she was exhibit curator at Georgia State University.

The exhibit’s works showcase intricate cut-paper works. An art form was originally started by rural farm workers in Switzerland for fun and profit. "It was easy to find a piece of paper, and they could carry around a small set of scissors,” Williams said. The exhibit combines contemporary art with traditional methods, from intricate cut paper in the same vein as original works, to digital and photographic works.

Artists’ works showcased include those by self-taught Swiss artist Ernst Oppigler, who uses the effects of light and shadow as an extra element in his works, and Ueli Hofer, who uses found antique paper and gold leafing. Elisabeth Bötteli-Fischer creates colorful mandalas of cut paper, Canadian artist Michelle Forsyth creates cut-paper works. An art form that mirrors the actions of sought-after service dogs. Users verbally command the robot to complete a task and the robot responds once a basic laser pointer illuminates the location of the desired action.


Georgia Tech online
Visit www.gatech.edu for the latest information involving the campus community. Learn about exciting research at Tech, and read economic reports from Institute experts. The Georgia Tech homepage and the News Room will keep you up-to-date regarding the latest stories, events and speakers on campus.

View the latest Institute photos and videos in Photos@Tech and Videos@Tech, and read the varied voices of Tech’s diverse students, faculty and staff featured in Blogs@Tech. A host of other resources also are available online, including an updated campus calendar and dedicated faculty and staff resources available within Tech For You.

Robotic technology inspired by dogs
Georgia Tech researchers have engineered a biologically inspired robot that mirrors the actions of sought-after service dogs. Users verbally command the robot to complete a task and the robot responds once a basic laser pointer illuminates the location of the desired action.

Models predict equipment lifespan
New research at Georgia Tech could soon make predicting the degradation and remaining useful life of mechanical and electronic equipment more accurate, said Raji George, an assistant professor in the Stewart School of Industrial and Systems Engineering.

Microparticles bolster animal heart function
Researchers at Emory University and Georgia Tech have developed tiny polymer beads that can slowly release anti-inflammatory drugs and break down into nontoxic components when injected into rats’ hearts after a simulated heart attack.

WWW.WHISTLE.GATECH.EDU

“QUOTE—UNQUOTE”
“It’s a road to get robots out there helping people sooner. Service dogs have a great history of helping people, but there’s a multi-year waiting list. It’s a very expensive thing to have. We think robots will eventually help to meet those needs.”
—Charlie Kemp, Associate Professor in the Wallace H. Coulter Department of Biomedical Engineering at Georgia Tech and Emory University, on engineering a robot that can assist physically impaired people at a fraction of a service dog’s cost.

(Rehab Management)

November 3, 2008

Editor: Robert Nesmith
Photos by Rob Felt, unless noted
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Georgia Tech
Communications & Marketing
Warbrick Center
172 North Avenue
Atlanta, Georgia 30332-0181

Georgia Tech is a unit of the University System of Georgia.
New center will study potential silicon successor

Don Fernandez
Communications & Marketing

The National Science Foundation (NSF) has awarded funding to Georgia Tech to create a new Materials Research Science and Engineering Center (MRSEC). The Georgia Tech Laboratory for New Electronic Materials.

The lab will focus its efforts on the development of new materials to serve as the successors to silicon in the semiconductor industry. Specifically, the development of graphene—which holds tremendous promise as an electronic material—will be the initial core of research and development at the center. NSF funding will be $8.1 million for six years of research and development. The MRSEC office suite will be housed in the new Marcus Nanotechnology Building.

"This is an exciting time for graphene research," said School of Chemical & Biomolecular Engineering Professor Dennis Hess, Center director. "Our studies may allow the manufacture of microelectronic devices and integrated circuits based on graphene. The Georgia Tech team, in conjunction with external partners, has already pioneered the use of epitaxial graphene to achieve such goals. Georgia Tech Physics Professors Walt de Heer, Phil First and Ed Conrad are worldwide leaders in the growth and characterization of epitaxial graphene. We look forward to additional innovative discoveries with that of four additional institutions: University of California Berkeley, University of California Riverside, Alabama A&M and the University of Michigan. Tech will initially have 13 faculty members involved in the laboratory's efforts, with five additional members representing the partner schools. Collaborations are already in place with several companies and NSF-funded laboratories within the United States and abroad.

Graphene, a sheet of carbon only one-atom thick, holds the potential to become the core material for computer processors in electronics, which continue to become smaller in size. Silicon, comparatively, has fundamental limitations that inhibit operation in ever-shrinking devices used in microelectronics, optics and sensors. Georgia Tech will develop the fundamental science and technology to maximize graphene's potential as a component in future electronics technologies. In addition, the Center will provide the core curriculum, train a diverse workforce and develop the future academic and industrial leaders needed for this new direction in the semiconductor industry.

An industrial advisory board is being assembled for the Center, which will include representatives from leading electronics companies.

This new MRSEC, complementing Georgia Tech’s multiple programs and investments in nanotechnology and electronics, particularly supports said Professor Mark Allen, senior vice provost for Research and Innovation. "Much of the work will take place in our Nanotechnology Research Center, a new facility dedicated to research into both inorganic and organic nanomaterials and nanotechnology. We look forward to enabling the next generation of graphene electronics through the efforts of the researchers in this new MRSEC."

In Brief:

Tech named 'Best Value'

Tech received a national accolade for best value, ranking 16th among Kiplinger’s Personal Finance 100 best values in public colleges. Kiplinger ranks four-year institutions based on top-notch academics and economic value. Schools were selected from a pool of more than 500 public universities and community colleges. Tech received a variety of criteria including student-faculty ratios, four and six-year graduation rates, retention rates, tuition costs and need-based financial aid.

Kiplinger’s top three schools are University of North Carolina at Chapel Hill, University of Florida and the University of Virginia.

Recycling efforts near goal line

According to the Office of Solid Waste Management & Recycling, 2.58 tons of aluminum, glass and plastic was collected during the Georgia Tech and Virginia homecoming football game. Last week’s game brings the Game Day Recycling total to 7.4 tons, just shy of the season goal of 10 tons. For more information or to volunteer, visit www.recycle.gatech.edu.

Rohatgi recognized for energy

Power Finance and Risk magazine has recognized School of Electrical and Computer Engineering Regents’ Professor Ajeet Rohatgi as one of the five most influential people in renewable energy. Rohatgi joined the Tech faculty in 1985. Internationally recognized as a leader in photovoltaics, he is the founding director of the first university-based Department of Energy Center of Excellence in Photovoltaic Research and Education. For more information visit www.ece.gatech.edu.

16th Street closure on tap

Effective Oct. 29, the Georgia DOT will close the westbound lane of 16th Street from Spring to Williams streets for the new Marcus Nanotechnology Building. This closure, which will allow the construction of the new northbound 17th Street ramp, will prevent access to Interstate 75 via 16th Street. For more information visit www.dot.georgia.gov.
November 6
The Georgia Tech Wind Ensemble, joined by the Concert Band, performs at the Ferst Center for the Arts at 7 p.m. Tickets are $10. For more information, visit www.music.gatech.edu.

November 7
Actress and comedienne Lily Tomlin brings her one-woman show to the Ferst Center for the Arts, starting at 8 p.m. Tickets are $65 and $75. $100 VIP tickets are sold out. Subscription discounts are not available for this show. For more information, visit www.ferstcenter.gatech.edu.

November 7-22
Dramatech Theater presents “Arcadia,” a play that revolves between past and present set in an English manor. Each show begins at 8 p.m. Tickets are $5, $10 and a $10 for more information, visit www.dramatech.org.

November 10
The Atlanta chapter of Dorbrot, an international forum on art and technology dedicated to “people doing strange things with electricity,” holds its monthly meeting, starting at 7 p.m. in room 207 of the Couch building. For more information, visit www.csa.gatech.edu.

November 14
The First Center for the Arts welcomes the Aspen Santa Fe Ballet, founded by Georgia native Bebe Schweppe in 1990. Tickets to the 8 p.m. performance are $20, $28 and $38 ($20, $22.40 and $28 for subscription). For more information, visit www.ipst.gatech.edu.

Conferences & Lectures
November 5
John Bradford, vice president of Operations, and Research and Development for InterfaceFLOR, presents “Sustainability in Business: Natural Capitalism through Innovation,” starting at noon in the Hodges Conference Room of the Centeregy Building. For more information, visit www.cherry.gatech.edu/forum.

November 6
Harvard University Professor George Whitesides presents the 2008 Petit Institute Distinguished Lecture, “Bioinertics and Science,” from 11 a.m. to noon in the Institute for Bioengineering and Bioscience building atrium. For more information, visit www.ibb.gatech.edu.

November 7
Michigan State University Professor Carl Davidson presents “Information Sharing in Union-Firm Relationships,” part of the School of Economics Seminar Series, from 11:15 a.m. to 12:45 p.m. in room G-17 of the Haberstem building. For more information, visit www.econ.gatech.edu.

November 11
Cornell University Professor Garnet Chan presents “Strongly Interacting Electrons in Chemistry,” as part of the physical chemistry series, starting at 3 p.m. in 3201A of the Molecular Science & Engineering Building. For more information, visit www.chemistry.gatech.edu.

November 20
The Office of Organizational Development offers the free Brown Bag seminar “An Introduction to Intercultural Communication,” which covers the basics of communicating with non-native speakers of English and the cultural context of communication, from 11:30 a.m. to 1 p.m. For more information, visit www.orgdev.gatech.edu.

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Ongoing
Georgia Tech Training Services offers a Web-based tutorial on the basics of using a state purchasing card (p-card). For more information, visit www.train.gatech.edu.

November 6
The Georgia Tech Observatory will hold a public attendance night, from 7 to 10 p.m., atop the Housry Physics building. The moon, Venus and Jupiter are expected to be in view. The free event is contingent on weather. For more information, visit www.astronomy.gatech.edu.

November 7
Sam Tuna School of International Affairs Professor Robert Kennedy will sign copies of his book, “Of Knowledge and Power: The Complexities of National Intelligence,” at 5:30 p.m. in the Georgia Tech Bookstore. For more information, visit www.inta.gatech.edu.

December 1-2
GCU and the Digital Media Program present the 4th annual Living Game Worlds symposium, which brings together those from academia and industry to discuss design and theory in the production and critique of video games. Events will be held in the Technology Square Research Building. For information and to register, visit www.gameworlds.gatech.edu.

Ongoing Tours are available Tuesdays through Fridays, from 10 a.m. to 4 p.m., for Tech’s Solar Decathlon House, located on the West Architecture lawn at the College of Architecture. To register, visit www.solar.gatech.edu.

Techmasters, Georgia Tech’s division of Toastmasters, meets each Thursday from 7:30 to 9 a.m. in room 102 of the Petit Microelectronics Research Center. For more information, visit www.techmasters.gatech.edu.

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More ads are available at www.whistle.gatech.edu.

Ads appear and run for three weeks in the order in which they are received.

Email submissions to editor@comm.gatech.edu.