

Inside:

Spotlight ..... 2  
 FASET ..... 2  
 In Brief ..... 3  
 Campus Events ..... 4



# THE WHISTLE

FACULTY/STAFF NEWSPAPER

Volume 29, Number 22 • June 28, 2004

THE GEORGIA INSTITUTE OF TECHNOLOGY

## Angola calls on civil engineers for advice on its infrastructure

Megan McRaney  
 Institute Communications  
 and Public Affairs

Georgia Tech graduate student Marcus Millard knew that Angola wouldn't be anything even remotely resembling a vacation resort. But like many from wealthy nations, he had little idea how few of the comforts he had come to expect are available in a developing country.

For instance, when Millard, two other graduate students and School of Civil and Environmental Engineering Chair Joseph Hughes flew into Luanda, Angola's capital city and home to about 4.5 million people, they expected to be able to buy a drink or a newspaper.

"I was expecting a city that ran a little more like a city – something that looked like Mexico City," Millard said. "If we wanted, I thought we could leave the area we were staying in and walk down to the corner and buy something. But there were no stores."

Their first view of the city was an eye-opener for the students, the first of many they'd experience on their two-week visit to advise the Angolan government on environmental issues. Hughes and the students met with officials from the government's

### Football team builds Habitat house



In addition to their summer practice and workout regimen, members of the football team have spent the past seven weekends building a Habitat for Humanity house in Cobb County. Those lending some muscle included, from left, Junior Defensive Tackle Omar Billy (History, Technology and Society), Sophomore Defensive Tackle Mansfield Wrotto (Management), and Freshman Safety Avery Roberson (College of Engineering).

photo courtesy Athletic Association

Ministry of the Environment to discuss the country's infrastructure and environmental challenges.

Angola has had only a few years to begin its recovery from more than 30 years of war — war that drove nearly half of its population out of dangerous rural areas and into the capital city of Luanda.

"There was a terrible displacement, followed by incredibly rapid growth in the city. Just about any societal problem you can imagine began to manifest itself there," Hughes said.

Most of the country, including Luanda, is without basic infrastructure such as water distribution and waste and water treatment.

In one instance, the group saw residents bathing and drinking from water thick with trash and waste from one of Luanda's bays.

"There is all sorts of stuff floating in the bay. It looks like there's no plant life anywhere and there are even wrecked ships," said Millard, who is president of the Georgia Tech chapter of Engineering Students Without Borders, an organization that encourages engineering students to use their knowledge to improve lives in developing world communities.

But now that the war is over, the country is hoping to speed its development. The country is an exporter of diamonds, minerals, coffee, fish and

## Budget cuts limit assistance to state manufacturing

Impact felt in Tech's economic development programs

John Toon  
 Research News and Publications

A "perfect storm" of state and federal budget cuts over the past four years has eliminated nearly a third of the staff in Georgia's primary program of technical assistance for manufacturers. The cumulative effect of the cuts is being felt during a time of heightened need as the state's manufacturers compete with foreign companies that often have significant cost advantages.

In addition to the 18.5 percent budget reductions imposed over the past four years by declining state revenues, Georgia Tech's Economic Development Institute (EDI) was recently hit by a 75 percent cut in funding from the federal Manufacturing Extension Partnership (MEP), a national program designed to help manufacturers become more productive and competitive. Since 2001, the state and federal cuts together have cost 38 positions in EDI's statewide network of regional offices and its Atlanta headquarters.

The combined effect of the cuts will be to significantly reduce the number of manufacturers that EDI can serve. Compared to its service capacity in 2001, EDI today is able to serve an estimated 300 fewer companies per year. The cuts will also force EDI to suspend operations in at least three regional offices: Carrollton, Newnan and Rome.

For the federal 2005 budget, the White House had proposed the total elimination of the MEP program, but Congress restored partial funding for it. Nationally, that has meant the total closure of some programs and substantial reductions in others.

"The Manufacturing Extension Partnership has been tremendously successful at meeting the needs of manufacturers, enjoys strong bipartisan support in the U.S. Congress, has been widely praised by manufacturers and is needed more



photos courtesy Joseph Hughes

Three decades of war has displaced millions of Angolans, creating a capital ill-equipped to render basic services such as proper waste disposal. In Luanda, these conditions have resulted in garbage dumps in the middle of the city.

Angola continued, page 3

EDI continued, page 3

## QUOTE UNQUOTE

"Hospitals are dangerous, stressful places where quality care is too often provided in spite of the physical environment than because of it. The good news is that we don't have to keep building hospitals this way. The evidence is strong enough to show there are proven architectural methods for improving patient outcomes, safety and satisfaction, as well as staff retention and efficiency."

—Craig Zimring, a professor in the College of Architecture, on the results of a report he co-authored on the impact of hospital design on patients and staff.  
(Scripps Howard News Service)

## Faculty/Staff SPOTLIGHT

Arthur Hughes

It's eight years later, and the Olympics are set to take place on the opposite side of the world, yet Atlanta remains forever connected to its legacy. Earlier this month, the Olympic Torch Relay spent a day in each of the North American cities that have hosted the Games, winding through the streets that once played host to the grandest stage in international athletic competition.

Arthur Hughes had an opportunity to be part of it. He was chosen from among the thousands who were nominated for their inspirational feats, personal triumphs and volunteer efforts.

A custodial employee in Facilities, Hughes served in the Army National Guard for 18 years before taking retirement. He has been committed to veterans' affairs ever since, working with politicians at all levels of government to ensure retired military personnel are acknowledged for their service.

For his work in promoting veterans' issues, Hughes was selected by the Coca-Cola Company — which co-sponsors the relay — as one of its representatives. The company also paid for the torch as a memento of his experience.

The torch is designed to resemble an olive leaf, widely regarded as a symbol of peace. Hughes said he found his leg of the relay along Martin Luther King Jr. Drive especially poignant as a road named "in honor of a man who stood for peace."



photo by Nicole Cappetto

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.

Archived issues of *The Whistle* can  
be accessed electronically through  
the Georgia Tech Web page, or  
directly at  
[www.whistle.gatech.edu](http://www.whistle.gatech.edu).

Calendar submissions e-mailed to  
[editor@icpa.gatech.edu](mailto:editor@icpa.gatech.edu),  
or faxed to 404-894-7214 must be  
sent at least 10 days prior to  
desired publication date. Classified  
submissions are on a first come,  
first serve basis. For more informa-  
tion, call 404-894-8324.

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.

## Library's technology upgrade pays high dividends

Sean Selman  
Institute Communications  
and Public Affairs

The number of visitors to Georgia Tech's Library and Information Center is up by almost 100 percent, largely due to the success and popularity of a \$1 million renovation and technology upgrade to its West Commons area.

During 2002, the 20,000-square-foot West Commons section of Georgia Tech's library was updated to serve as a comprehensive learning center consisting of a multimedia laboratory and high-end productivity stations complemented by information and technology experts.

Associate Director for Public Services Crit Stuart said that student

attendance since the upgrades at the Library is now approaching 1,000,000. In fact, the Library's hours of operation have had to be rearranged to meet the increased student demand for the facility.

"This is a staggering increase over 2002," Stuart said. "We attribute all of it to the drawing power of the West Commons renovations and to having the Library open 24 hours a day, five days a week."

One additional reason for its popularity is a new support model. Now, staff members from the Office of Information Technology and the Library are both on hand to help students, faculty and others with their information and technology needs.

As the curriculum at Georgia Tech continues to shift toward complex

group assignments, students voiced a need for an appropriate venue to rehearse their semester-end presentations. This past spring, library officials opened a state-of-the-art presentation rehearsal studio with video capture and playback capability.

"Response, again, has been amazing," Stuart said. "It was booked non-stop during the final month of the 2004 spring semester."

According to Dean Richard Meyer, director of the Library, the long-term goal of the West Commons project is to improve information services offered to students overall and to create a test bed that will inform the development of a future undergraduate learning center to be built at Georgia Tech.

## New student orientation nears

As the orientation program for freshmen and transfer students, FASET — Familiarization and Adaptation to the Surroundings and Environs of Tech — offers the opportunity for new students and their parents to become better acquainted with the academic environment at Tech, the support services available, as well as some of its traditions. Students also

meet with their academic advisors and register for fall classes.

Over the next few weeks, Tech will play host to several thousand guests. Amy Stalzer, director of FASET, asks Tech employees to direct lost persons to the Student Center, where information tables will be set up during the programs. For more information, visit [www.faset.gatech.edu](http://www.faset.gatech.edu).

### FASET 2004 dates:

July 11-12  
July 15-16  
July 25-26  
August 1-2  
August 11-12  
July 22 and August 10 (transfer students)

Angola, cont'd from page 1

most importantly, oil. In fact, Angola is one of the top importers of oil to the United States.

But without clean water, safe dwellings and waste disposal, it will be difficult for the Angolans to address many of the country's quality of life and education challenges, Hughes said. That's where the group's mission comes in.

One part of the trip involved working with Angolan engineers on oil field waste treatment and other waste treatment issues in Luanda. For instance, Millard worked with a local company to give advice on how the country could improve its waste treatment methods, especially waste from oil production.

The government was also very interested in the impact oil production might be having on the country's environment, in particular the mangrove trees that line its coast.

Miles of mangrove trees have died in recent years along the



Angola is located along the southwestern coast of Africa.



Hughes and his students were asked to determine what is responsible for the blight that is killing the mangrove trees along the Angolan coastline.

coast. The mangroves are key to the survival of the fish that breed among them and the Angolans who rely on the fish for food.

With financial support from the Georgia Tech Research Institute, Hughes, along with students Kevin Caravati of the Georgia Tech Research Institute and Paul Beaty of the Georgia Tech GIS Center, studied satellite images of the mangrove trees and later the trees themselves in an attempt to discern what environmental factors might be causing the trees to die.

While there have been quite a few documented oil spills off Angola's coast, Hughes and his students concluded that oil was likely not the reason for the loss of habitat.

The group's work also included teaching the Angolans improved methods for treating wastes.

The Angolan government has asked Hughes to come back in November to teach some courses to officials that work with environmental and infrastructure issues. He hopes to bring another group of students in the future if the country's political situation allows.

The trip provided an important lesson for students about the role they can play as engineers in the world community.

"I think all the students had experiences that will influence them both professionally and personally. They see the potential for what they can do as an engineer working in developing countries," Hughes said.

For more information...

**School of Civil and Environmental Engineering**  
www.ce.gatech.edu

EDI, cont'd from page 1

now than ever before," said Rick Duke, EDI's director. "We don't understand why funding was cut for a program that has been successfully helping to keep manufacturing jobs in the United States."

In Georgia, the EDI provides technology-driven solutions to help the state's manufacturers in such areas as information technology, quality and international standards, lean manufacturing, energy and environmental management and new product development. The assistance helps companies reduce costs, improve efficiency, boost productivity and increase sales. Those services will continue to be provided, but at a reduced capacity that will hurt manufacturers when they need help the most.

"These cuts will significantly reduce our ability to help manufacturers adopt the technology-

based solutions they need to keep jobs in Georgia," said Larry Alford, manager of EDI's Manufacturing Services. "With our reduced support, we will continue to do all we can to help companies. But we know this will mean that more critical needs will go unmet, particularly in rural areas of the state where there are few economic development alternatives."

In Georgia during 2002, MEP assistance helped companies create or retain more than 1,300 jobs, invest more than \$33 million, cut \$13 million in unnecessary costs and spur \$61 million in sales. Nationally, MEP assistance helped manufacturers create or retain nearly 42,000 jobs.

The Manufacturing Extension Partnership has enjoyed strong congressional support, nationally and within Georgia. Both Senators Saxby Chambliss and Zell Miller supported the program's continued funding, and six of Georgia's 13

representatives signed the "Dear Colleague" letter circulated to members of Congress in support of the program. Nationally, 58 senators and 203 representatives signed the letter, with another 43 representatives signing individual letters of support.

EDI's budget comes from state appropriations, the federal government and fees paid by manufacturers for the services they receive. The 38 positions lost include both staff vacancies that could not be filled over the past four years due to declining budgets as well as cuts made in two rounds of layoffs this spring.

For more information...

**Economic Development Institute**  
www.edi.gatech.edu

**Manufacturing Extension Partnership**  
www.mep.nist.gov

## IN BRIEF:

### Operations at CRC in flux for remainder of summer

With completion of the Campus Recreation Center drawing near, the CRC staff has sent out an announcement detailing minor changes in service that may affect its users.

Between June 25 and August 8, weight room equipment will be moved out of its current location in the auxiliary gym for installation of new flooring. When completed, the gym will host indoor soccer, roller hockey and various tournaments or events. During this time, members will be able to work out at the Barbell Club, located in the basement of the O'Keefe gym, by showing their BuzzCard. The club's main emphasis is on weight lifting, but it has aerobic equipment as well.

From August 1-15, the entire facility will close for routine maintenance. This will become an annual occurrence for refinishing the basketball courts, care and cleaning of the pools, and thorough maintenance of the entire building. CRC facilities will be unavailable, but the Barbell Club will remain open.

On August 16, the completed Campus Recreation Center will open for business at 6 a.m.

To mitigate the financial impact of these changes, the CRC Membership Office will not adhere to its normal minimum three-month renewal for June and July. More information is available at [www.crc.gatech.edu](http://www.crc.gatech.edu). Call 894-7163 or e-mail [membership@crc.gatech.edu](mailto:membership@crc.gatech.edu) with additional questions.

### A new building for Human Resources

The Office of Human Resources has a new home. Earlier this month, OHR moved from its Fowler Street location to 500 Tech Parkway. The new building is located on the corner of Means and Marietta streets. The building borders Tech Parkway — though there is no entrance on Tech Parkway — and is adjacent to Procurement and Accounts Payable.

The move allows the Payroll Office — currently in Lyman Hall — to be combined with other HR units in one building. The Office of Diversity Management will remain in its current building, at 490 10th Street.

For more information, visit [www.ohr.gatech.edu](http://www.ohr.gatech.edu).

### Blood for gas

There's an added incentive to participate in Georgia Tech's summer blood drive: free gasoline. Everyone who donates blood on June 30 or July 1 will be entered in a drawing to win a \$1,500 gas card. The drive, sponsored by MOVE, the Co-op Club, and the Interfraternity Council, will be held in the Student Center Ballroom from 10 a.m. — 4 p.m. To sign up, visit <http://gatech.givesblood.org>. For more information, call 894-3465 or e-mail [move@gatech.edu](mailto:move@gatech.edu).

# C A M P U S E V E N T S

## Arts & Culture

### July 2

The bookstore and the Georgia Poetry Society host an open mic at 7:30 p.m., featuring Louise Morgan Runyon and her new book "Reborn." Those wanting to read personal poetry should sign up by 7 p.m. For more information, visit [www.gatech.bkstore.com](http://www.gatech.bkstore.com).

### July 10

The American Museum of Papermaking hosts a workshop, "Make Your Own Jewelry: Paper Beads" from 1 - 4 p.m. Appropriate for middle school and older children. For more information or to register, call 894-7840.

## Faculty/Staff Development

### June 30

The Office of Organizational Development hosts a one-day instructional course on "Supervisory Skills for the New or Prospective Manager" in the Alumni Faculty House. To register, visit [www.trainsweb.gatech.edu/mastcal.asp](http://www.trainsweb.gatech.edu/mastcal.asp).

### July 14

The Office of Organizational Development hosts a one-day training seminar titled "Get Organized Now" in room 308, Savant Building. To register, visit [www.trainsweb.gatech.edu/mastcal.asp](http://www.trainsweb.gatech.edu/mastcal.asp).

### July 16

The Office of Organizational Development hosts a free brown bag on "How to Organize and Manage Your E-Mail Using Eudora" at 11:30 a.m. in room 308, Savant Building. To register, visit [www.trainsweb.gatech.edu/mastcal.asp](http://www.trainsweb.gatech.edu/mastcal.asp).

### July 20

The Office of Diversity Management hosts a one-day seminar on "Foundations of Diversity Awareness for Office Professionals" in room 308, Savant Building. To register, visit [www.trainsweb.gatech.edu/mastcal.asp](http://www.trainsweb.gatech.edu/mastcal.asp).

## Miscellaneous

### Ongoing

Techmasters — Tech's chapter of Toastmasters International for faculty, staff, students, alumni

and spouses — meets every Thursday at 7:30 a.m. in room 102, MiRC. For more information, visit [www.techmasters.gatech.edu](http://www.techmasters.gatech.edu) or e-mail [terry.nolan@business.gatech.edu](mailto:terry.nolan@business.gatech.edu).

### June 25 - Aug. 15

The Campus Recreation Center will be experiencing changes in service during this time. For more information, see the news brief on page 3 or visit [www.crc.gatech.edu](http://www.crc.gatech.edu).

### June 30

This is the last day to register for priority campus parking. For more information, visit [www.applyparking.gatech.edu](http://www.applyparking.gatech.edu).

### July 5

Campus closed in observance of Independence Day.

**Note:** The next issue of the Whistle will be published on July 12.

# C L A S S I F I E D S

## APPLIANCES

Maytag window air conditioner, used only two months with thermostat, 5,200 BTUs, excellent condition, \$60. Call 404-680-5856.

## AUTOMOBILES

1996 Honda Accord LX. Great condition, 4DR, automatic, a/c, cassette, power everything. One owner, dealer maintenance, 116K miles, \$5,200. E-mail [kelley.hundt@edi.gatech.edu](mailto:kelley.hundt@edi.gatech.edu).

1997 Volvo 850. Red, 5-speed, CD player, sunroof, great condition, 73K miles. \$7,500. Call 770-842-4455.

## FURNITURE

Antique clawfoot tub, extra long (5.5 feet), \$500 OBO. Antique white pedestal sink, \$125 OBO. Both in very good condition. Call 404-223-5613.

Natural wood baby furniture in excellent condition. Crib, 3-drawer dresser with flip-kit, 5-drawer dresser, gliding rocker with ottoman. Will sell separately or as a set. Call 770-509-3381 or e-mail [rabbipjg@bellsouth.net](mailto:rabbipjg@bellsouth.net).

Simmons BeautyRest Starwood Elite double-side pillowtop medium firm queen-size mattress/spring box set. Detachable legs, no extra frame needed, cream color, low profile, \$329. E-mail [lwei2@emory.edu](mailto:lwei2@emory.edu).

Oak living room furniture complete set w/lamps, \$400; oak dining room table w/chairs, \$100; glass beveled breakfast table w/chairs, \$300; cherry bedroom suite queen size, perfect condition, \$2,000. Will deliver. Call 678-232-3475 or e-mail [david.gifford@gttri.gatech.edu](mailto:david.gifford@gttri.gatech.edu).

Bunk beds from Rooms to Go. Light wood, excellent condition, quality twin

mattresses, \$300. Matching chest, 6 deep drawers, \$100 OBO for both items. Call 404-636-7215 or e-mail [vicki.birchfield@inta.edu.gatech](mailto:vicki.birchfield@inta.edu.gatech).

## REAL ESTATE/ROOMMATES

Furnished condo, [www.thewilliamoliver.com](http://www.thewilliamoliver.com), 1BR unit, all utilities paid. Fitness and business center, rooftop jacuzzi and clubhouse, 24 hour concierge. \$770 month plus security. Contact Omaar, 404-384-9242.

3BR/2BA Buckhead "treehouse" retreat, Morris Brandon School district. 2,200 sq. ft. on one-acre wooded lot with stream. Quiet family neighborhood. Bright, open floor plan. \$449,500. Call 404-815-1812.

4BR/4BA beautiful East Cobb home, \$244,900. Large front and screened porches, deck and patio. Fabulous schools, 25 minutes to GT. Realtor.com MLS#909392 or 1471154. E-mail [ginger.carney@biology.gatech.edu](mailto:ginger.carney@biology.gatech.edu).

3BR/2.5BA East Cobb home for sale. Top schools: East Side/Dickerson/Walton. Spacious, open floor plan. Beautifully landscaped yard with private fenced back yard. Asking \$249,900. Pictures available at [www.coldwellbankeratlanta.com](http://www.coldwellbankeratlanta.com), MLS #913086. Call 404-388-6960.

1BR garden apartment in Inman Park, free of charge in exchange for 20 hours childcare/wk. beginning in August. New kitchen & bath, off-street parking, private deck. Usually rents for \$775/month. Call 404-658-1784 or e-mail [ruthduso@mindspring.com](mailto:ruthduso@mindspring.com).

Bright, large house in secluded wooded setting. Low maintenance. 20 minutes to campus. Near best elementary school in Cobb County. Go to

[www.sellteam.com](http://www.sellteam.com). Click on Featured Properties and then scroll down to 3321 Valley Vista Road.

1BR/1BA, furnished apt. with combined kitchen/living area in Morningside. Off-street parking. Use of landlord's washer/dryer can be arranged. No pets, non-smoker. \$730/month includes utilities except gas. Call Emily Wert at 404-873-2052.

3BR/2BA ranch home in Buckhead. Walking distance to Lenox Mall. Large, shady yard fenced in back, alarm system, 2-car covered carport, fireplace. Most pets OK. Pictures via e-mail. \$1,650/month. Call 678-361-8859.

Ranch house off I-75, 2BR/1BA, gas fireplace, great room, big kitchen, fenced back yard, in a maintenance-free subdivision near Publix shopping center. \$800/month. Call 404-379-9730 or e-mail [juststrong@excite.com](mailto:juststrong@excite.com).

Newly renovated condo on State Street, off 10th. Spacious 2BR/2BA, roommate floor plan, hardwood floors, stainless steel appliances, granite countertops, washer/dryer, patio. \$1,350/month. Call 894-5442 or e-mail [sburge@at.gtaa.gatech.edu](mailto:sburge@at.gtaa.gatech.edu).

Midtown condo, less than 1 mile from campus. 1BR/1BA + small office. Hardwoods throughout, washer/dryer, dishwasher, renovated kitchen and bath. Secured building access, gated parking. \$182,500. Contact Lisa Pringle, 404-432-3760.

Midtown 1BR/1BA condo, 1 mile from campus. Washer/dryer, dishwasher, fireplace, balcony, pool. Walking distance to Piedmont Park. Gated access, parking. \$129,900. Contact Lisa Pringle, 404-432-3760.

1BR/1BA condo for rent in Metropolis. Pool, club house, underground parking space. Stainless steel appliances, washer/dryer, hardwood floors, front desk security. \$1,200 per month plus utilities. E-mail [rosalind.meyers@aux.gatech.edu](mailto:rosalind.meyers@aux.gatech.edu) or call 770-270-1867.

## SPORTS/FITNESS/RECREATION

Eureka Nightscape 2 performance backpacking tent with stormshield. Easy/quick setup, never used, \$90. Call 404-680-5856.

Swimming pool, 24-foot diameter and 48-inch height. Includes structure, filter and pump, needs liner. Brand new in packaging, must pick up. Worth \$800; sell for \$675. E-mail [lynn.rosenfeld@arts.gatech.edu](mailto:lynn.rosenfeld@arts.gatech.edu).

Proform 585C treadmill, excellent condition. Paid \$900, sell for \$400. E-mail [nicole.pamplin@facilities.gatech.edu](mailto:nicole.pamplin@facilities.gatech.edu) or call 894-1711.

SoloFlex home gym. Excellent condition. Includes main bench, leg extension, butterfly attachment, and 380 pounds in weight straps (6x50, 2x25, 2x10, 2x5). \$200. E-mail [steve.hodges@oit.gatech.edu](mailto:steve.hodges@oit.gatech.edu)

## MISCELLANEOUS

Wanted, housekeeper to clean 1BR apartment in Lithia Springs area. Services needed every two weeks. Will pay \$40 per cleaning. Transportation, references, criminal history required. Call, after 6 p.m., 770-944-3459.

Welch pony for sale, sorrel color, ten years old, loves children, good trail horse, 11 hands high. \$500. Call 770-386-3181 after 5 p.m.