Police Discuss Crime Trends, Campus Operations at 'Inform'

KRISTEN BAILEY
INSTITUTE COMMUNICATIONS

Georgia Tech Police Chief Robert Connolly led a discussion on campus safety and security on May 9 at the Staff Council's most recent Inform Georgia Tech session. Though the presentation provided an overview of the department's work, recent crime trends, and crime prevention efforts, questions from attendees centered solely on the recent passage of Georgia House Bill 280, which will allow firearms on campus beginning July 1.

Though Connolly addressed all questions, many details remain unclear on the implementation of the law until a plan is provided by the University System of Georgia (USG) to its 28 member institutions.
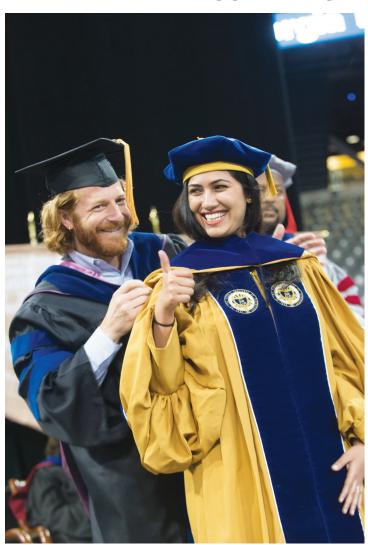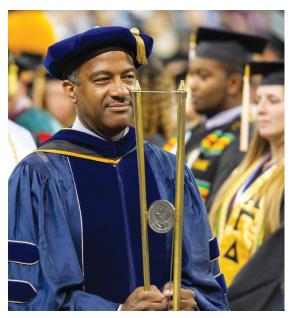
Several questions focused on the boundaries of where and when licensed gun owners will be able to carry weapons on campus. More information about an implementation plan will be shared in the coming weeks following guidance from the Board of Regents, ensuring that all campuses respond consistently.

"We promise we will continue to

COMMENCEMENT: 👍

Photos by Rob Felt and Christopher Moore

Photos and videos from all spring ceremonies are now online at **c.gatech.edu/spring17**. (Left) Michael E. Davis, associate professor in the Wallace H. Coulter Department of Biomedical Engineering, hoods graduating student Srishti Butani at the Ph.D. Hooding Ceremony on May 5. (Top) Gary May, dean of the College of Engineering and Southern Company Chair, carries the mace into the morning bachelor's ceremony on May 6 for the last time before he departs Georgia Tech for the University of California, Davis. (Bottom) President G.P. "Bud" Peterson talks with Panamanian president and Georgia Tech graduate Juan Carlos Varela (center) and graduating student Ulises Eduardo Núñez Garzón. Garzón was the recipient of the Juan Carlos Varela Scholarship, which provided a full scholarship for him to attend Georgia Tech.

City Bike-Share Adds Stations On Campus

KRISTEN BAILEY
INSTITUTE COMMUNICATIONS

Amid the white and gold Stingers and Tech Trolleys on campus, a slew of blue bikes has emerged.

As part of the City of Atlanta's recent expansion of the Relay Bike Share program, Georgia Tech now has six campus hubs where users can grab a bicycle.

Relay launched in Atlanta in 2016 with 100 bikes at 22 stations, including one on Fifth Street in Tech Square. In April, it expanded to 500 bikes and 65 stations.

The service provides short-term bike rentals with check-out and check-in places around the city. The six stations on campus are on Techwood Drive at North Avenue, Tech Parkway near the Student Center Transit Hub, the Clough Commons turnaround, West Campus Housing on Turner Street, on Ferst Drive across from the Campus Recreation Center, and on Fifth Street in Tech Square.

"We're thrilled to have six stations on campus and several more in the vicinity. The stations on campus are spaced in a way to create the most convenient options, based on where we expect

Employee Activities Don't Stop for Summer

Bowling, Hiking Groups Begin in June

KRISTEN BAILEY
INSTITUTE COMMUNICATIONS

Summer in Atlanta brings high temperatures and humidity, which often drives people to indoor activity.

On campus, that makes it the perfect month to take part in a summer bowling league.

Tech Rec will again offer a faculty/staff bowling league for the month of June, and

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NEWS BRIEFS ▶▶▶

Athletics Continues to Excel in APR

Four Georgia Tech teams posted perfect multiyear scores of 1,000, and all programs came in at 963 or higher in the NCAA's latest evaluation of the Academic Progress Rate (APR).

c.gatech.edu/apr

New Research May Help Combat Abusive Online Comments

Researchers in the School of Interactive Computing have come up with a cost- and resource-effective way for internet communities to moderate abusive content.

c.gatech.edu/onlinecomments

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the most demand, but if we need to adjust locations going forward we can do that," said Lisa Safstrom, campus transportation planner in Parking and Transportation Services (PTS).

Pricing is structured for daily, monthly, or annual users. For the Tech community, users can get the benefit of an educational discount. Users who register with an email ending in ".edu" can get a monthly pass for $7.50 per month, which includes 90 minutes of daily ride time. For those who want to try it first or use a bike occasionally, daily passes are $3.50 and include 30 minutes of ride time.

Relay serves as a complement to the PTS BuzzBike rental program, which lets students rent bikes on a semester-long basis at an affordable rate.

"We've seen growing interest in cycling on and to campus, and now we're able to provide options for those wishing to rent bikes long- or short-term," said Safstrom. "The Relay program offers the opportunity for everybody to have a bike whenever they need it for short trips, without the responsibility of actually owning a bike."

In recent years, PTS has upgraded campus infrastructure and worked with the City of Atlanta to improve routes to get to campus from nearby neighborhoods.

"Relay is a valuable piece of the puzzle in creating a great bike network on campus," Safstrom said. "It also offers a valuable complement to transit, whether that's MARTA or campus transit, to be able to get to campus or to transfer to another transportation mode. You might not live close enough to transit to walk to it, but it's possible a bike-share can get you there in a reasonable amount of time."

Safstrom suggested that users try a Relay bike for quick trips, including lunch runs or nearby errands.

"You can pick up a bike on campus, ride to Piedmont Park or a restaurant downtown, drop off the bike, take your time, and find another bike to return," she said.

Relay has bikes at both the North Avenue and Midtown MARTA stations, as well as others. A real-time map on the program's website and its mobile app shows where and how many bikes are available at any given time.

All bikes have eight speeds, a bell, a basket, and GPS tracking that shows the length and route of rides.

According to data from the City of Atlanta, more than 5,000 people have taken 15,000 trips using Relay bicycles since the program began.

Having six stations on campus lets Georgia Tech help the network be useful citywide.

"The more stations that are available, the more successful a bike-share program will be, as they need to be located densely enough to be easily available when needed," Safstrom said.

Users can get started by signing up at **relaybikeshare.com** or through the Social Bikes smartphone app. Once you've set up an account and purchased a plan, you can unlock a bike with your account number and pin at any hub. To return a bike, simply lock it back at any Relay hub.

Photo by Christopher Moore

Anirudh Gattani, a civil engineering graduate student, approaches the Relay bike hub on Techwood Drive at North Avenue. The six campus Relay hubs are spaced based on expected demand but could be adjusted in the future if needed.

Financial Management Training Program Expands

JENNIFER HUBERT
INSTITUTE COMMUNICATIONS

After an extended pilot program, Georgia Tech is rolling out the Financial Management Knowledge Development (FMKD) online training program for all Georgia Tech employees who have financial administration responsibilities.

Since May 1, employees who receive access to Georgia Tech's financial systems are now required to participate in the FMKD program. Once system access is granted, employees will receive a notification to enroll in the FMKD program including the courses they are expected to complete. Employees will have 60 days to complete the specific courses, which are tailored to the system for which access has been granted. Training topics include basic accounting, procure-to-pay, HR/payroll, travel and expense management, and the financial management of sponsored grants and contracts. Employees with existing access to these current enterprise systems will be "grandfathered in" and will not be required to complete the program unless they change positions.

The goal of the program, which was developed by financial subject matter experts throughout the Institute in collaboration with Human Resources' Workplace Learning and Professional Development group, is to help all members of Georgia Tech's financial community enhance their knowledge of Tech's dynamic business operations and management processes. Employees will then be better equipped to navigate financial management complexities and contribute to the effective and responsible stewardship of the Institute's resources.

Feedback on the pilot program has been very positive and 95 percent of survey respondents indicated that the quality of the training videos was either "excellent" or "good."

"This series is vital to the development of finance professionals at Georgia Tech," said Alan Katz, assistant dean for Finance and Operations, College of Computing. "By investing in its financial function, the Institute also invests in its people and ensures they have the necessary training to stay current, consistent, and compliant."

Suggestions from pilot program participants have been incorporated into the program, including providing supporting materials for reference after completion of the course. The training program will be updated periodically, especially in coordination with the upcoming transformation to the new financial administration system from Workday.

For additional information on the FMKD training program, email **fintrain.ask@gatech.edu**.

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make campus safe," Connolly said. All GTPD trainings will be modified to address the presence of firearms on campus, and GTPD will offer training to first-time gun owners and to anyone who plans to carry a weapon, to ensure it is done correctly and safely.

In the past, GTPD has worked with the student Marksmanship Club and ROTC groups on firearm training, so it's not uncharted territory for campus officers. The GTPD force includes seven firearms instructors. Trainings are continually updated and modified, such as when the use of stun guns on campus was incorporated last year.

The new campus carry law requires that firearms be concealed, so that the weapon "does not actively solicit the attention of others." Connolly encouraged community members not to address the situation themselves if they see a firearm exposed.

"Call us and let us deal with that," he said. GTPD will also work with Parking and Transportation Services to maintain and enhance security of parking areas where firearms may be left in vehicles.

Beyond the subject of campus carry, Connolly shared an overview of how the department tracks and prevents crime. Overall, campus crime has trended downward since 2009 when crime was up both on campus and in surrounding areas.

"Our biggest concern right now is bicycle theft," Connolly said, noting that seven bikes had been stolen recently that were not locked at all. GTPD encourages all campus cyclists to use U-locks and secure their bikes any time they are unattended.

Another concern is students falling victim to fraud. In the past week, two students were victims of scam artists who extorted money, pretending they were collecting IRS payments.

"We're seeing more of this and are going to do more education next year on fraud," Connolly said.

Photo by Rob Felt

The GTPD control center, located in the Department's headquarters on Hemphill Avenue, is outfitted with a multitude of screens and cameras that operators use to monitor campus remotely in real time.

More Information

Find GTPD on social media at:

 gatechpd

 gatechpd

 gtpd_k9_koda

 gatechpd

For those who want a deeper knowledge of community policing, consider participating in GTPD's Citizens Police Academy. Learn more at **c.gatech.edu/GTPDCPA**.

Connolly also covered the topic of Clery Act safety alerts, of which there have only been two so far this year. Clery Act alerts are issued as timely warnings when a crime has been committed of a violent or hazardous nature that may pose a serious or ongoing threat to members of the community. Eighty percent of Tech's Clery alerts are issued at night, and around two-thirds take place off campus but are reported as part of an extended boundary GTPD has determined for campus safety.

In recent years, GTPD has focused on two areas of technology to enhance its policing: cameras and social media. The campus is now monitored by 1,700 cameras, more than 50 of which are at street level. GTPD headquarters has a control room with screens and stations that can jump between vantage points and zoom in on areas as needed.

"The goal is that if you commit a crime on campus, you don't get off campus without us spotting you," Connolly said.

With regard to social media, the department uses Twitter, Instagram, and Reddit to engage with the community. Twitter is used primarily for quick updates as things are happening, while Instagram shares more about campus life and ongoing GTPD work. A separate Instagram account follows GTPD's K-9 unit members, Koda and Molly. GTPD recently won the Top Cop Award at the Social Media, the Internet, and Law Enforcement Conference for innovative use of social media.

Reddit has provided opportunities for students to share information anonymously with officers, as well as for GTPD to intervene in potential instances of self-harm. Officers are trained in the Question, Persuade, Refer (QPR) training provided by the Georgia Tech Counseling Center.

"We've been able to use our QPR training to talk students down and point them to resources where they can get help," Connolly said.

Officers also engage with communities beyond campus. GTPD recently began participating in Big Brothers Big Sisters and has 21 officers (of 86 total GTPD officers) volunteering as "Bigs in Blue" with young people in the West End and English Avenue neighborhoods.

Crime Prevention Officer Jessica Howard discussed other community engagement initiatives, reminding attendees that they can request educational classes on a variety of topics through the Crime Prevention Unit. To request a class or learn more about Tech's safety and security efforts, visit **police. gatech.edu**.

HR UPDATES

Discrepancies in Total Rewards Statements

Georgia Tech Human Resources recently mailed 2016 Total Rewards statements to full-time, benefits-eligible employees. There was a mistake in the snapshot of 2016 vacation and sick leave. While the hours of accrual were correct, the company cost and total time off value may not have been. Employees who would like a corrected version of the statement can email **ohrinfo@mail. gatech.edu**. You can also view vacation and sick leave accrual at **techworks. gatech.edu** by selecting "My Time and Leave" in the left column.

FACULTY AND STAFF ACHIEVEMENTS

Laura Cadonati, professor in the College of Sciences, was appointed the first deputy spokesperson for the Laser Interferometer Gravitational-Wave Observatory (LIGO).

Randall W. Engle, professor in the School of Psychology, earned the 2017 Mentor Award from the Association for Psychological Science.
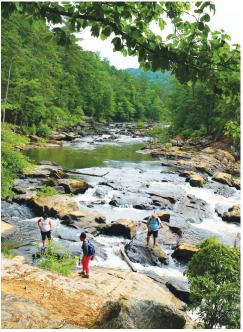
John R. McIntyre, professor in the Scheller College of Business, has been selected as honorary professor by the ICN Graduate School of Business, University of Lorraine, Nancy/Metz, France.

The H. Milton Stewart School of Industrial and Systems Engineering's **Edwin Romeijn**, H. Milton and Carolyn J. Stewart School Chair and professor, and **Chuck Zhang**, professor, have been chosen by the Institute of Industrial and Systems Engineers for the 2017 Fellow Award.

John Toon, director of research news in Institute Communications and editor of *Research Horizons*, received the Institute of Electrical and Electronics Engineers (IEEE)-USA's award for Distinguished Literary Contributions Furthering Public Understanding and Advancement of the Engineering Profession.

The **Georgia Tech VOICE Sexual Violence Prevention Initiative** received the Cornerstone Award from Residence Life. The award honors a person or group from outside of Housing who has been a friend and support to residents and the department throughout the year.

EVENTS

May 20
Atlanta United F.C. hosts the Houston Dynamo at 7 p.m. at Bobby Dodd Stadium. Discounted tickets are available.
c.gatech.edu/atlutdgt

May 28
Atlanta United F.C. hosts New York City F.C. at 5 p.m. at Bobby Dodd Stadium. Discounted tickets are available.
c.gatech.edu/atlutdgt

May 29
Campus will be closed in observance of Memorial Day.

June 2
Applications are due for the Center for Teaching and Learning's 2017-18 Faculty Learning Communities. Learn more and apply at:
c.gatech.edu/ctlflc

June 14-15
Summer First-Year FASET Orientation will host incoming first-year students. Additional sessions take place for fall first-year students beginning in July.
nssp.gatech.edu

June 16
Last day of classes for Early Short Summer Session.
registrar.gatech.edu

SEMINARS & LECTURES

June 6
Serve-Learn-Sustain hosts the Integrated Network for Social Sustainability Conference, with a focus on "Smart, Connected Cities," in Room 1005, Engineered Biosystems Building.
serve-learn-sustain.gatech.edu

HEALTH & WELLNESS

May 24
The Office of Human Resources hosts a Be Well session on deskercise, where attendees will learn ways to incorporate exercise at their workstations. The session will take place from noon to 1 p.m. in the Piedmont Room, Student Center.
ohr.gatech.edu/bewell

June 13
The Office of Human Resources hosts a Be Well session on TAP/STRAP education assistance programs from noon to 1 p.m. in the Student Center Theater.
ohr.gatech.edu/bewell

For a more comprehensive listing of events, or to add your own, visit **calendar.gatech.edu.**

Photo by Kate O'Neill
Employees enjoy the scenery of Sweetwater Creek State Park during a 2015 wellness hike.

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registration is now open.

Games will be held Tuesdays from 11 a.m. to 1 p.m. at Tech Rec in the Student Center. Registration is $60 for a team of four ($15 per person).

The league winner will be determined by the total number of points earned over the course of the four-week league. The winning team will earn a free bowling party for their office at Tech Rec (for up to 20 people and with five lanes).

The deadline to register is Thursday, May 25. For full rules and guidelines, and to register, visit **techrec.gatech.edu**.

For those who aren't afraid to sweat through the summer, Health and Well-Being will again host summer wellness walks for faculty and staff members.

These beginner-friendly guided hikes are conducted at a leisurely pace and scheduled so participants can get up, get out, and get home before lunch. Each hike will cover approximately three to five miles.

All hikes are $10 and take place on Saturday mornings, beginning at 7:30 a.m. and ending around 11:30 a.m.

See a schedule below and sign up at **crc.gatech.edu**.

2017 Wellness Walks

June 10: Sweetwater Creek State Park

Wooded trails follow a spirited stream to the ruins of the New Manchester Manufacturing Company, a textile mill burned during the Civil War. Trails climb rocky bluffs to provide views of beautiful rapids below and wind through fields and forest. Enjoy unique flora and fauna including ferns, amphibians, wild azaleas and reptiles.

June 24: Red Top Mountain State Park

Connect with the natural beauty of Lake Allatoona and explore the iron mining tradition and history of the Etowah Valley.

July 8: Kennesaw Mountain National Battlefield Park

Meet for breakfast at Mountain Biscuit Company at 7 a.m. if you're an early riser, then join the group at the base of Little Kennesaw for a trek over the smaller mountain, then up to the top of Big Kennesaw. Before Atlanta fell to General Sherman's Union army in 1864, a fierce battle raged around the base and on the face of the mountains.

Kim's Passion Lies in 'Nitty-Gritty Details' of Internet Security

DAVID MITCHELL
COLLEGE OF COMPUTING

Taesoo Kim may never have found himself working as an assistant professor in Georgia Tech's School of Computer Science, doing research in the Institute for Information Security and Privacy (IISP), if not for a handful of choices.

They are decisions evident of an individual who can't do things at half speed. The assistant professor attacks new challenges like the security threats he studies: He identifies vulnerabilities and formulates defensive responses one task at a time.

He graduated summa cum laude with degrees in computer science and electrical engineering at the Korea Advanced Institute of Science and Technology in South Korea, but had never done much work in security outside of his two years of military service.

During those two years, he worked almost exclusively on systems security, but, because of the secretive nature of the job, couldn't share anything about that experience when he applied for the Ph.D. program at the Massachusetts Institute of Technology (MIT). As a result, he applied for machine learning and robotics programs, but switched to his preferred focus on security immediately after being accepted.

During his time at MIT, he helped develop a startup that received $2 million in initial funding. The startup eventually moved west to San Francisco, where it was picked up by a bigger company. Kim, who was determined to finish what he started with regard to his Ph.D., passed on the enormous financial opportunities that went with his startup to return to school for his final two years at MIT.

"It's an accomplishment," he said of earning his Ph.D. "When you start something, you want to finish. Being a scientist and earning my Ph.D. was something I had always wanted, so it was a big deal for me to finish what I started."

And upon earning his Ph.D., he elected to go into academia, sharing knowledge and continuing research at Georgia Tech rather than continuing work with his company in California.

Kim admittedly had no interest in information security at the outset of his educational career.

"Security, in general, was not a popular topic at the time," he said. "I was mostly interested in writing system software, operating systems, and larger-scale systems."

The fundamental foundation came from his military experience. There, he worked to track and defend against vulnerabilities in infrastructure, gaining a respect and deeper interest for the field. Like most things he works on, Kim began to dig deeper into the topic from the moment he began work on it.

"That's something I really like about security," he said. "Not only do you need a broad understanding of the system, but you need to understand the nitty-gritty details in order to break or improve their security."

He brought this mindset, the need to understand the smallest of details, along with him when he was asked to join the faculty in the IISP. He brings it not only to his field of study, where he is working to automate attack and defense systems, but also to the

Photo by Rob Felt
Taesoo Kim works in his office in the Klaus Advanced Computing Building.

less-glamorous tasks that go along with it.

When he came to Georgia Tech in Fall 2014, he had never written a grant proposal. In the two and a half years that have followed, though, he has already been awarded nearly $6 million on his proposals.

He achieved it like he achieves most other things in his life — he put a lot of time and effort into learning the finest details of how to do it.

"Nobody taught me how to do a proposal, so I was a little worried about getting money," Kim said. "So, I decided I wanted to write some right away to get some feedback from the community. I wrote about eight for the first year and, fortunately, almost all of them were accepted."

That meant more funding, bigger classes, and bigger responsibilities. It was a problem that Kim was skeptical about at first, despite seeing the need for growth in the program. He feared losing the tight interaction he had with his students, something both he and the students value.

This year, Kim's teaching excellence was honored at the Institute level with a CTL/BP Junior Faculty Teaching Excellence Award at the Faculty Staff Honors Luncheon in April. His classes are consistently among the most highly reviewed in the College of Computing, but he sees room for improvement as challenges with class sizes loom.

"For the most part, students are passionate about this topic, and I am too," Kim said. "I want to make sure there isn't a drop-off."

He takes time to sit down with the students and evaluate their expectations against what they are currently getting out of the class, specifically as it pertains to their grade. Then, they discuss strategies for how to make those two ends meet.

"Most of the students end up achieving the grade they want," he said.

And, ever the student, Kim continues learning himself. He does not take time for leisurely reading. Instead, he spends his time in technical books or books about improving writing skills.

"When I study something, I have to get all the way down to its core," he said. "I have to look as deep as I can into it and then move on to another topic."