Spring is full of end-of-year celebrations, including those honoring faculty and staff. Employees were honored for their 10- and 25-year service anniversaries at a reception on April 6, and those earning Institute awards were honored at the annual Faculty and Staff Honors Luncheon on April 22. See pages 2 and 3 for more coverage.

Every City Is an Island

Brian Stone Jr. Examines Climate Change in the Urban Environment

MARGARET TATE
INSTITUTE COMMUNICATIONS

It will be 50 years this August since *Summer in the City* topped the Billboard charts for three weeks running. Professor Brian Stone Jr. of the School of City and Regional Planning had not even been born yet, but he is well acquainted with the heat island effect described in the evocative lyrics, which could cause even the coolest listener to break out in a sweat.

Those “sidewalks, hotter than a match head” the Lovin’ Spoonful sang about are only getting worse, according to Stone, also author of *The City and the Coming Climate: Climate Change in the Places We Live* and director of Georgia Tech’s Urban Climate Lab (UCL).

He and his research team are finding that, on average, cities are warming at double the rate of the planet — and much of that warming is driven by activities within the cities themselves.

“Cities are vulnerable places as far as temperature change,” Stone said. “The UCL’s principal mission, initially, was just to measure that. In recent years, we’ve expanded to work with cities to adapt to rising temperatures.”

The UCL’s distinctive niche is in contrast to the bulk of sustainability research conducted these days, Stone said. “Most environmental efforts are rooted in technology, like engineering cleaner cars or electricity. But we also have the option to reduce the demand side of the equation, and our focus on land use provides a perspective and policy arena from which to address environmental issues.”

**Rising Tide of Extreme Heat**

Conducting studies around the nation, the UCL has found that Louisville, Kentucky, is the most rapidly warming metropolis in the U.S. relative to what’s around it. (Atlanta is No. 3.) The UCL has helped Louisville develop a heat adaptation plan — the first for a U.S. city.

Currently, the UCL’s largest project, funded by the National Science Foundation, focuses on the growing risk of having a heat wave and a blackout at the same time. “That may be one of the most threatening events we can imagine,” Stone said, “and cities are not well prepared for it.”

Stone has been interviewed by WSB-TV, CNN, and NPR, and he’s been the go-to expert for *Forbes*, *USA Today*, and *The Washington Post*, among other publications.

The media always seem to call when it’s getting really hot out, Stone has noticed. “It’s during heat waves that cities struggle the most,” he said. “If you’re New York or New Orleans and you have rising sea levels due to global warming, it would be expensive, but you can build a wall — there’s no barrier for the rising tide of extreme heat.”

The challenge for cities in the face of climate change, then, is both global and local, Stone said. City planning and smart growth can certainly play a role in reducing fossil fuel consumption and the corresponding greenhouse gas emissions, but his group is also working to make sure the “greenhouse” effect is not compounded by the “green loss” effect. “We cut down trees, we build parking lots and buildings — it heats up the equation, and our focus on land use provides a perspective and policy arena from which to address environmental issues.”

Traffic to Divert from Tech Parkway during Construction

MICHAEL HAGEARTY
INSTITUTE COMMUNICATIONS

In collaboration with the City of Atlanta and the local nonprofit PATH Foundation, the West Campus thoroughfare, Tech Parkway, is getting a makeover, shifting from its present configuration as a four-lane divided highway to a two-way street with a dedicated bike facility and wide pedestrian sidewalk.

Long recognized for its sprawling car culture, the effort is part of Atlanta’s growing enthusiasm for making alternate modes of transportation more attractive options. Construction is set to begin in early May, and conclude March 2017.

“The Tech Parkway multiuse path project will create new infrastructure to provide the community a safe and easy way to get to and around campus,” said Lisa Salsstrom, campus transportation planner.

“The path will contribute to the greater network throughout town, advancing safer cycling opportunities for all users.”

The changes are consistent with both Georgia Tech’s Master Plan vision as well as the city’s Cycle Atlanta strategy. Despite concerns that this project would restrict automobile traffic, pre-project analysis suggests the reconfiguration can be comfortably accommodated.

“The city and design team did full traffic studies during normal and event traffic situations and confirmed these changes would not negatively impact traffic,” Stone said.

The new Coda building in Tech Square is a nearly 790,000-square-foot mixed-use project. John Portman & Associates is designing the facility. Learn more at [www.e.gatech.edu/coda](http://www.e.gatech.edu/coda).
2016 Faculty and Staff Honors Recipients

Congratulations to the following faculty and staff members who were honored at the Faculty and Staff Honors Luncheon on April 22 and Faculty and Staff Service Recognition Reception on April 6.

**Institute Research Awards**

OUTSTANDING ACHIEVEMENT IN RESEARCH ENTERPRISE ENHANCEMENT AWARD
Gary Spurrier
Senior Associate Director, Institute for Electronics and Nanotechnology

OUTSTANDING ACHIEVEMENT IN RESEARCH INNOVATION AWARD
Zhong Lin Wang
Regent Professor, Materials Science and Engineering

OUTSTANDING DOCTORAL THESIS ADVISOR AWARD
Hang Lu
Professor, Chemical and Biomolecular Engineering

OUTSTANDING FACULTY RESEARCH AUTHOR AWARD
Mark Hay
Regent Professor, Biology

OUTSTANDING ACHIEVEMENT IN RESEARCH PROGRAM DEVELOPMENT AWARD
MARCUS CENTER FOR THERAPEUTIC CELL CHARACTERIZATION AND MANUFACTURING TEAM
Ravi V. Bellamkonda
Walter H. Colley Chair, Biomedical Engineering
Birgit Smith Burton
Senior Director, Foundation Relations, Office of Development
Robert E. Gilberg
Professor, Whel Institute for Bioengineering and Biomechanics
Krishnendu Roy
Professor, Biomedical Engineering

**ANAK Award**

Richard DeMillo
Executive Director, Center for 21st Century Universities

**Staff Performance Awards**

OUTSTANDING STAFF PERFORMANCE AWARDS
Madison Cario
Director of the Office of the Arts, Division of Student Life

INNOVATION AWARD
COLEMAN COLLEGE OF ENGINEERING PARTNERSHIP TEAM
Dian A. Chung
Human Resources Director II, College of Sciences
Emily I. Howell
Director of Financial Administration, College of Engineering
Lynda D. House
Human Resources Director II, College of Engineering
David L. Moore
Senior Finance Director, College of Sciences

Process Improvement Excellence Award
COLLEGE DEPARTMENT PRE-AWARD OFFICE TEAM, BIONDICAL ENGINEERING
Rachel D. Arnold
Assistant Director of Administrative Services
Jeff F. Caimano
Grants Administrator

Service to the Community Award
Alba C. Gutierrez
Educational Design Coordinator, Center for Education Integrating Science, Mathematics, and Computing

**Outstanding Management in Action Award**

Lindsay M. Bryant
Associate Director of Student Center Programs and Interns Director, Student Center

**Administrative Excellence Award**

G Walter Golis
Assistant Director of Member Services and Staff Development, Campus Recreation Center

**CETL Awards**

CETL/BP JUNIOR FACULTY TEACHING EXCELLENCE AWARDS
Mark A. Davenport
Assistant Professor, Electrical and Computer Engineering
Ryan P. Lively
Assistant Professor, Chemical and Biomolecular Engineering

**Undergraduate Educator Award**

Ed Greco
Academic Professional, Physics

**Curriculum Innovation Award**

Karle D. Davis-Nozernack
Assistant Director, School of Business

**Innovation and Excellence in Laboratory Instruction Award**

Chrisy C. Spencer
Academic Professional, Biology

**Innovation in Co-Curricular Education Award**

Wilbur A. Lam
Adjunct Assistant Professor, Biomedical Engineering

**Faculty Award for Academic Outreach**

Thomas Morley
Professor, Mathematics

**Geoffrey G. Eichholz Faculty Teaching Awards**

David Garton
Senior Lecturer, Biology
Ronghua Pan
Professor, Mathematics

**Academic Advisor Awards**

OUTSTANDING GRADUATE ACADEMIC ADVISING AWARD
Robert B. Simon
Graduate Programs Manager, College of Sciences

OUTSTANDING UNDERGRADUATE ACADEMIC ADVISING AWARD - FACULTY ADVISOR
Dana E. Hartley
Senior Academic Professional, Earth and Atmospheric Sciences

**Outstanding Undergraduate Academic Advising Award - Faculty Advisor**

STEVEN A. DENNING FACULTY AWARD FOR GLOBAL ENGAGEMENT CENTER FOR HEALTH AND HUMAN SYSTEMS IN INDUSTRIAL AND SYSTEMS ENGINEERING
Pinar Keskinokci
Professor
Julie L. Swann
Professor

**Faculty Honors Committee Awards**

OUTSTANDING RESEARCH MENTOR AWARDS
Cassie S. Mitchell
Research Engineering, Biomedical Engineering
Robert J. Butera
Professor, Electrical and Computer Engineering

OUTSTANDING PROFESSIONAL EDUCATION AWARD
Sathyar Gourisankar
Professor of the Practice, Biomedical Engineering

CLASS OF 1934 OUTSTANDING SERVICE AWARD
Terry C. Blum
Professor, Institute for Leadership and Entrepreneurship

CLASS OF 1934 OUTSTANDING INTERDISCIPLINARY ACTIVITIES AWARD
Eberhard O. Voit
Professor, Biomedical Engineering

CLASS OF 1940 W. ROANE BEARD OUTSTANDING TEACHER AWARD
A. Nepomuk Otte
Assistant Professor, Physics
Joseph H. Saleh
Associate Professor, Aeronautical Engineering

CLASS OF 1940 W. HOWARD ECTOR OUTSTANDING TEACHER AWARD
Aldo A. Ferrer
Professor and Associate Chair for Undergraduate Studies, Mechanical Engineering

**Class of 1934 Distinguished Professor Award**

Robin Thomas
Regent Professor, Mathematics

---

**Seminars & Lectures**

**April 26**

Join the Sam Nunn School of International Affairs for a video viewing of “Preventing Nuclear Catastrophe in an Age of Terrorism: A Conversation with Bill Perry and Sam Nunn,” at 3:30 p.m. in the Peachtree Room, Student Center. www.snta.gatech.edu

**April 27**

The Metro Atlanta Energy Speaker Series hosts a talk on “The Power of Energy Innovations to Identify in the Space of Disaster,” on Tuesday, April 27, at 6:30 p.m at The Garage at Tech Square. Register at www.energy.gatech.edu

**April 30**

The Georgia Tech Alumni Association hosts the 44th annual Pi Mile Road Race, one of the longest continually held 5Ks in Atlanta. The event begins at 7 a.m. www.pimile2016.gatech.edu

---

**Events continued on page 3**
25 Years

Isotope Ambitewade

Anita Elaine Anderson

Canedy Dissertation

Mark Borendorf

Biomedical Engineering

Dorothy Bowen-Chavers

History and Sociology

Casey Bowens

Library

David Bowman

Facilities Management

Martha Susan Bowman

Marine Science and Engineering

Jacqueline D. Boyd

Human Resources

Anthony Bridges

Athletic Association

Karen Brown

GTRI

Sandra Bullock

GTRI

Lisa Carr

Stamps Health Services

Bettina Cohran

Modern Languages

Alan Drisko

Athletic Association

Sandra Dippolito

Marine Science and Engineering

Donna Favors

GTRI

Philip Fisch

Research Center

James Foley

Research Computing

Russo Gerhardt

Materials Science and Engineering

Seyed Ghazianian

Mechanical Engineering

Beverly Carol Gibson

President’s Office

Ted H. Heath

GTRI

Barbara S. Henry

GTRI

Benjamin Kendall

Facilities Management

Bryan Kennedy

Computing

Leigh McCook

GTRI

Senta Bumac Knight

Shaminak Narasim

Cyndi Leathermaster

G. Paul Nottel

Mechanical Engineering

Daniel Looby

GTRI

Karen Manning

GTRI

James Martin

Mechanical Engineering

Chad Laubmeier

Civil and Environmental Engineering

Bryan Berry

Computing

Patrick Rosso

GTRI

Daniel Schummel

Electrical and Computer Engineering

Peggy Sprague

Public Policy

Jeffrey Shapero

Industrial and Systems Engineering

David John Shook

GTRI

Arlene Sheldon

Environmental Health and Safety

William Smith

GTRI

Jeffrey Streator

Mechanical Engineering

Marteena Smith

Journals

Jocelyn Smith

Literature, Media, and Communication

Xing Yin

Mathematics

Traci Walden

Monroe

Lorenzo Whelihan

GTRI

Rochelle Williams

GTRI

Jean Youtie

Descriptive Information

Michael York

Mathematics

May 16-17

The Digital Building Lab in the College of Architecture hosts a symposium reviewing new technologies and practices in building industries. The symposium takes place in the Tech Square Research Building Auditorium. The event is free with a valid BuzzCard. Learn more and register to attend at www.c.gatech.edu/bul@sym

April 28

Graduate Education and Faculty Development hosts a Best Practices Forum on mentoring from noon to 3 p.m. in the Vanity Room, Woodruff Center. Lunch will be provided. Register at www.c.gatech.edu/mentoring

April 26

The Commission on Creating the Next in Education hosts Jim Pellegrino, who will discuss “The Integration of Teaching, Learning and Assessment: A Design-Based Approach,” from 11 a.m. to noon in Room 1243, Ballantine-Computing. A live stream will also be available at www.provost.gatech.edu

April 24-25

Final Instructional Class Days. No tests or quizzes may be assigned.

April 26

Students showcase their work at the 14th annual College Design Expo at 4:30 p.m. in McCormick Pavilion. Register for one of three workshops at www.c.gatech.edu/campus

April 26

The Office of Human Resources hosts its annual banquet at Bank of America, from noon to 3:30 p.m. in Room 320, Student Center. More information and register for one of three workshops at www.c.gatech.edu/ban@work

April 28 – May 5

Final Exams. Reading periods take place April 27-28 and May 3.

April 7

End of term spring, April 10

The Event Coordinators’ Network hosts a Campus Road Trip to visit four different campus venues with event space options, from 11 a.m. to 1 p.m. Register at www.c.gatech.edu/evens/trip

May 16

Classes begin for Early Summer and Full Summer sessions.

For a more comprehensive listing of events, visit calendar.gatech.edu.
HEAT, from page 1
the environment,” Stone said.

Converting Asphalt to Green Space
Stone says Georgia Tech is the perfect academic environment for conducting his urban climate research, citing the interdisciplinary scientific, technological, and public policy expertise at his disposal. But the campus itself also plays a role — as a living laboratory.
The UCL has positioned 24 small-scale weather stations around campus to measure not only temperature changes but how different projects impact temperatures.
“Georgia Tech is one of the only places in the city we’re actually converting asphalt to green space,” he said. “We’re tearing up parking lots and putting in quad space, so we can measure before and after how that’s cooling the air.”

The Good News for Cities
The good news for cities as they adapt to climate change is that they don’t need a mandate from the global or U.S. policy community, Stone said.
“They are empowered through their land use authority and policy tool kit to significantly slow the rate of warming.”
Certain policy prescriptions will be part of almost any heat mitigation plan for cities, Stone said. Approaches such as expanding and incentivizing transit;

Brian Stone Jr. on the green roof of Clough Commons.
encouraging high-density development; and creating better bike and pedestrian networks can have a direct effect on maintaining green cover and reducing waste heat emissions. For other strategies, he said, cities and environmentally conscious individuals should think “green, white, and blue.”

Green:
• Plant and preserve trees, especially to shade impervious surfaces
• Install green roofs, such as the one at Clough Commons
• Promote parks and community gardens
White:
• Use reflective roofing materials and reflective paving
Blue:
• Build stormwater ponds, such as the one at Old Fourth Ward Park
• Create rain gardens
Learn more about Stone’s work at www.urbanclimate.gatech.edu.

PARKWAY, from page 1
impact vehicular circulation,” said Jason Gregory, senior educational facilities planner in Capital Planning and Space Management. “This project is a step in managing the traffic volume while also providing for a great connection between midtown and downtown for multiple modes of transportation.
Near the start of the project, both lanes of Tech Parkway between Means Street and Northside Drive will be closed to through traffic. During that time, drivers will need to adjust their route. Closures may last a few weeks. At completion, the bicycle and pedestrian routes will continue beyond the Tech campus, stretching down Luckie Street to Centennial Olympic Park. The additional connectivity is likely to open up the campus to its midtown residents, making it a little bit easier for riders to enjoy the undersapped aesthetics of Tech’s 400 acres, and will also provide a safer and more convenient option for Tech’s bike commuters to access campus.
“It could be as significant to this side of town as other multiuse paths like the Beltline’s Eastside Trail,” Saltsrom said.

Areal view of Tech Parkway:
The Tech Parkway project’s first phase will occur between Northside Drive and Means Street (in yellow). This will require a brief road closure, and require alternate routes for those traveling north (blue) and south (pink). The segment will reopen to cars during the summer.

REAL ESTATE
For rent: 219 Gordon St., Oakhurst/Decatur. 2BR/2BA house in East Cobb/Marietta, minutes from Ferry and Post Oak Trill Road. Fully furnished, sunroom, entertainment room, garage, pool. Lawn service provided, $1,800/mo. Includes DirecTV and Netflix. Contact Sandra Sheppard, 770-364-3692.
For rent: Comfortable 2BR/2.5BA townhouse, two-car garage, quiet gated community, 3 miles from Georgia Tech. All appliances stay! Duplex/two-bedroom, new paint, carpet, and professional cleaning. Move-in condition. 10/1/16. Contact 404-386-1679.

MISCELLANEOUS
For sale: Schwinn Mesa mountain bike, 2007 model in excellent condition, only ridden a few times. Needs a tune up and new tires. Can provide pictures upon request. Asking $200. If interested, email rprogersjr@bellsouth.net.

AUTOMOBILES
For rent: 2002 Toyota Avalon XL. Gray with gray interior. 165K miles. Second owner, excellent condition, well-maintained, maintenance records available for review. $4,395 OBO. Contact Desireh at desireh@mms-inc.net.

CLASSIFIEDS
For sale: 2002 Ford Taurus XLS. Gray with gray interior. 165K miles. Second owner, excellent condition, well-maintained, maintenance records available for review. $4,395 OBO. Contact Desireh at desireh@mms-inc.net.

Submit your 35-word-or-less ad to classifieds@gatech.edu. Order in which they are received.

FINANCIAL SERVICES
FREE: Submit your 35-word-or-less ad to editor@com.gatech.edu.