Georgia Tech concluded the 2007-08 academic year by celebrating the presidency of Dr. G. Wayne Clough as he departed to head the Smithsonian Institution. His fourteen-year tenure was a genuinely transformative era for Georgia Tech—a time when the Institute’s upward trajectory accelerated and it came to be consistently ranked among the nation’s top ten public universities.

Under Clough’s leadership, Georgia Tech expanded its reach in many ways. The quality of both the students and the faculty reached new heights even as both student enrollment and the size of the faculty grew. The research enterprise more than doubled, and Georgia Tech emerged as a leader in national centers of excellence.

The Institute increased its international scope, developing education and research platforms in France, Singapore, and Ireland, laying the groundwork for new platforms in China and India, and implementing new international dual degree programs and research relationships.

At home in Atlanta, more than a billion dollars of new construction, major renovation, and landscaping reshaped the campus, significantly improving its capabilities, appearance, and environmental sustainability.

The achievements outlined in the following pages not only highlight the capstone year of the Clough presidency, but also demonstrate Georgia Tech’s potential to reach even greater heights in the future.
Jim Foley, interim dean of Computing, was elected to the National Academy of Engineering and received the 2008 Distinguished Professor Award, Tech’s highest faculty honor.

Named to MIT’s Technology Review magazine’s list of the world’s top innovators under age 35:  
  C. Karen Liu, Computing  
  Xudong Wang, Materials Science and Engineering

Elliot Moore, assistant professor of Electrical and Computer Engineering at Georgia Tech’s Savannah campus, received the President’s Early Career Award for Scientists and Engineers, the nation’s highest honor for young faculty.

Marilyn Brown (Public Policy), Robert Dickinson (Earth and Atmospheric Sciences), and Rong Fu (Earth and Atmospheric Sciences) contributed to the work of the Intergovernmental Panel on Climate Change, which won the Nobel Peace Prize together with former Vice President Al Gore.

Jean-Luc Bredas (Chemistry and Biochemistry) is among the top 100 most cited chemists in the world and is the world’s third most cited expert on organic thin-film transistors, according to Essential Science Indicators.

National Science Foundation CAREER Awards to young faculty:  
  Yuri Bakhtin, Mathematics  
  C. Karen Liu, Computing  
  Johnna Temenoff, Biomedical Engineering

Andrea Barrett, sophomore biomedical engineering major, won a Goldwater Scholarship covering two years of tuition, fees, room, board, and books.

Three Tech students were named Fulbright Scholars:  
  Thomas Earnest, international affairs  
  Halley Espy, international affairs  
  Daniel Schorr, psychology

Inn Inn Chen, biomedical engineering major, was named a Marshall Scholar.

Andrew Marin, chemical engineering major, was named a Gates Cambridge Scholar.

Thomas Christian, earth and atmospheric sciences major, won Tech’s first Morris Udall Scholarship for outstanding students planning careers related to the environment.

Nicole Larsen, double major in physics and mathematics, was awarded a $10,000 scholarship by the Astronaut Scholarship Foundation.

Adam Tart, discrete mathematics major, received a George J. Mitchell Scholarship for a year of graduate study in Ireland.

Richard “Reeve” Ingle, electrical engineering major, was 2007 Co-op Student of the Year for the nation.

Jessica Heier, industrial and systems engineering graduate student, was featured in USA Today for her work in humanitarian relief logistics.

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Jeffrey Skolnick and John McDonald, Biology, developed CoMet, a computer tool to analyze cellular activity and predict which components will have an effect on cancer.

Earth and Atmospheric Sciences faculty discovered and described the North Pacific Gyre Oscillation, an ocean pattern that determines changes in salinity, nutrients, and chlorophyll and could help scientists predict how climate change will affect the Pacific Ocean.

Nanotechnology researchers are developing a “power shirt” whose fibers are nano-engineered to gather energy from the wearer’s body motion to power small electronic devices.

Tech chemical engineers have developed a new material that has a high capacity for absorbing carbon emissions and can be reused many times. Its potential use is to reduce carbon emissions at coal-burning power plants and industries.

Researchers at Georgia Tech and Emory are developing a skin patch with microneedles to deliver flu vaccine. The goal is a painless vaccination that offers more flexible delivery.

El-E, a robot built by Health Systems Institute researchers, helps those with limited mobility by fetching items identified with a laser pointer.

A tiny magnet attached to the tongue enables a disabled person to use a computer or control a motorized wheelchair in a tongue-driven system developed by Tech researchers.
Sophomore tennis All-American Andrea McDowell won Tech’s first ever individual national tennis title at the NCAA National Singles Championships and was named the nation’s top collegiate female tennis player for 2008.

Senior tennis star Kristi Miller was named ESPN the Magazine’s At-Large Academic All American of the year. She graduated in May with a 4.0 GPA.

The women’s tennis team advanced to the Elite Eight in the NCAA Tournament.

Junior Talisa Kellogg and senior Ulrike Stegemann were named to the 2007 All-ACC Volleyball Team.

The football team played in the Humanitarian Bowl, making Tech the only ACC school and one of just six schools in the nation to play in a bowl game each of the past eleven years.

Softball player Aileen Morales broke the all-school single-season record with forty-five stolen bases. The team made its seventh straight appearance in the NCAA tournament.

The baseball team competed in the NCAA Tournament for the twenty-second time in the past twenty-four years.

The swimming and diving teams set nineteen school records. Hannah Krimm and Stephanie England became Tech’s first female swimming and diving All-Americans.

The golf team finished ninth in the nation.

The women’s basketball team achieved its first national ranking (twenty-third) in fourteen years.

Seven current and former Yellow Jackets competed in the 2008 Olympic Games in Beijing.
ARTS BLOSSOM

- More than 1,100 students from all majors participate in structured music activities at any given time.

- The Georgia Tech Glee Club performed at Carnegie Hall and toured England, Scotland, and Wales. The Georgia Tech Band traveled and performed in Australia.

- “Flock,” the newest audience-participatory work composed by Assistant Professor of Music Jason Freeman, was premiered at Miami’s Carnival Center for the Performing Arts.

- My Paris Year, a collection of poems by Karen Head of the Center for the Enhancement of Teaching and Learning and the School of Literature, Communication, and Culture, received the Editor’s Choice Book Award for excellence in poetry.

- Georgia Tech presented four papers—the most of any institution—at the Digital Arts and Culture conference in Perth, Australia.

- PhD student Susan Robinson’s documentary “Building Bombs” won a Golden Gate Award, was nominated for an Academy Award, and was released on DVD.

- WREK was named “Best Overall Radio Station” in Creative Loafing’s 2007 “Best of Atlanta” issue.

MAKING THE NEWS

- Georgia Tech increased its exposure in top-tier broadcast media by 139 percent and top-tier print and web media by 65 percent.

- Top stories of 2007-08 in national media:
  - President G. Wayne Clough named secretary of the Smithsonian Institution
  - Tech participation in Solar Decathlon
  - Professor Dan Immergluck (Architecture) on foreclosures and sub-prime mortgage crisis
  - Georgia Tech hosted RoboCup 2007
  - Carbon footprints of U.S. metro areas
  - Nano-engineered fabric to harvest energy

- During the past year, articles positioning Georgia Tech favorably in educational leadership and quality doubled compared to the prior year.

- More than 100 Georgia Tech experts were cited in national media.

- Associate Professor of Literature, Communication, and Culture Ian Bogost, who uses video games to simulate and explore social issues and systems, is working with the New York Times to launch a series of “news games” dealing with tough political issues.
**RANKINGS AND RECOGNITIONS**

- *U.S. News & World Report* has ranked Georgia Tech among the nation’s top 10 public universities for ten consecutive years.
  - Engineering ranks among the nation’s top five programs.
  - Computing ranks among the nation’s top ten programs.
  - Management ranks among the nation’s top ten public programs.

- Georgia Tech was named the nation’s top overall producer of African American engineers by *Diverse: Issues in Higher Education*.

- The College of Management’s MBA program was ranked thirty-fourth in the nation by Forbes and included in *Fortune Small Business*’ group of the twenty-six best MBA programs. Science Watch recognized Georgia Tech for the largest growth in the number of times its scholarly work in management and economics has been cited.

- Georgia Tech was ranked twelfth in Kiplinger’s 100 Best Values in Public Colleges.

- Icarus, a solar-powered house designed and built by an interdisciplinary team of students and faculty, took sixth place in the Solar Decathlon, an international competition sponsored by the U.S. Department of Energy.

- Georgia Tech received the 2008 American Forest & Paper Association College and University Recycling Award. The Institute recycled 376 tons of paper last year.

**FACILITIES FLOURISH**


- Construction of the Marcus Nanotechnology Building will be completed in fall 2008.

- The undergraduate learning center, scheduled to go into construction in late 2008, was officially named the G. Wayne Clough Undergraduate Learning Commons.

- A new softball field and 500-seat stadium on Fowler Street opens in early 2009.
Georgia Tech joined with The Home Depot to offer seminars on water conservation techniques in schools and neighborhoods around campus, and develop curriculum materials for K-12 schools.

President G. Wayne Clough participated in high-level discussions on climate change policy, the results of which have been shared with the White House, congressional leaders, presidential candidates, federal agencies, and research organizations.

Georgia Tech won both the Governor’s Award for the largest increase and the Governor’s Cup for organizations with 1,001 to 9,000 employees for its contributions to the state’s charitable campaign.

Georgia Tech’s Enterprise Innovation Institute is working with nine Georgia hospitals to apply lean manufacturing concepts to their operations, streamlining administrative processes, improving coordination, and reducing wait times for patients.

Assistant Professor of Modern Languages Kelly Comfort and five of her students started GLASSS (Gringos y Latinos: Atlanta’s Spanish Service Society), a volunteer student organization to work with Atlanta’s Latino immigrants. Students “adopt” senior citizens, tutor children, and assist with the bilingual customer service department at Children’s Healthcare of Atlanta.

A class of Honors Program students engaged with the English Avenue neighborhood, studying and proposing ways to improve this residential area adjacent to campus.

A College of Computing course connects computing with social action. Student projects have included coordinating homeless shelter bed availability in Atlanta, monitoring blood supply in Zambia, and providing a bird-flu information system for Rwanda, Ghana, and Uganda.

Associate Professor of Chemical and Biomolecular Engineering Matthew Realff chaired the committee that developed an official environmental sustainability standard for carpet, enabling consumers to choose “green” carpet, which in turn should encourage greener manufacturing.

Library Associate Director Tyler Walters assists with governance protocols for the Global Digital Format Registry, spearheaded by Harvard University to make sure digital databases remain accessible through future technology changes.

President G. Wayne Clough left Georgia Tech with a legacy of strategic growth that established an upward trajectory of progress. As the Institute prepares for a new era under a new president, it has never been better positioned for even higher levels of prominence. The ultimate goal of Georgia Tech’s quest for excellence is to enhance the Institute’s ability to solve some of the seemingly intractable problems facing our world today and enhance the quality of life for all of Earth’s inhabitants.