Transforming the learning environment

- Online learning comes alive
  - Horizon Wimba Live Classroom for languages
  - Halo technology
- Library East and West Commons: 2007 Excellence in Academic Libraries Award
- Sophomore Experience in the North Avenue Apartments
A new breed of graduate who...

- Understands technology.
  Even liberal arts studies are imbued with technology.
- Knows how to ask questions as well as find answers.
  Almost half of undergraduates do structured research for credit.
- Has a sustainability perspective.
  Environmental sustainability pervades the curriculum.
- Is a citizen of the world.
  More than a third of undergraduates study abroad.
- Is prepared for leadership.
  Tech offers a multitude of leadership learning experience in and out of the classroom.
“What the Georgia Tech model recognizes is that the world is increasingly going to be operating off of the flat-world platform, with its tools for all kinds of horizontal collaboration.”

Thomas L. Friedman
*The World is Flat*
Career Fair draws the usual...

... and the not-so-usual
A uniquely diverse community

- **Economically diverse:** Georgia Tech Promise
  - Inaugurated this fall with 200 students
  - Average family income: $22,754
  - Majority minority
- **Ethnically diverse:**
  - Nation’s No. 1 producer of under-represented minority and female engineers
  - Awards 10% of nation’s African-American engineering PhDs
- **Culturally diverse:** More international students than any other college or university in Georgia
Athletics contribute to the experience

Women’s tennis team: NCAA Champions, national indoor champions

Gator Bowl: 10th consecutive bowl appearance

Crew: 1 gold, 3 silvers

7 of Tech’s 17 intercollegiate teams advanced to NCAA championship competitions
Focus on energy

Tiny nanogenerator harvests energy from environmental sources like ultrasonic waves, mechanical vibrations, or blood flow.

New nanoparticle film may make energy storage in devices like cell phones more effective.

3-D solar cell captures almost all light that strikes it.

Biofuel sources

Southern pine, switchgrass

Biofuel sources

Southern pine, switchgrass
Energy – sustainability – climate change

Carbon capture and sequestration to minimize CO$_2$ emissions

Solar house takes shape

Impact of global warming

Marilyn Brown
Transforming healthcare

3 NIH Nanomedicine Centers:
Cardiovascular
Cancer
DNA and RNA repair

Modeling an optimal heart surgery plan

Designer drugs based on the human genome

Electronic health systems
A truly global university

- Takes typical international programs to a higher level and includes science and engineering.
- Builds strategic international research and education platforms that are interconnected with the activities of the home campus.
- Stimulates economic development and works on policy issues in a global context.
- Links to the highest levels of government in multiple international locations.
Hosting global leaders

France:
Catherine Bréchignac
President, Centre National de la Recherché
Christine Lagarde
Minister for Foreign Trade

Ireland:
Mary McAleese, President

North Korea:
Kim Myung Gil, Deputy UN Ambassador

Libera: Ellen Johnson-Sirleaf, President
Addressing global environmental issues

Mark Hay, Julia Kubanek in Fiji

Hermann Fritz in Java

Peter Webster in Bangladesh

Engineering Students Without Borders in Los Lima, Honduras
Students head abroad

John LeTourneau, Venice

Travis Mitchell, Melbourne

Beijing/Singapore Summer Program, Inner Mongolia

Summer Program, Georgia Tech Lorraine
An international flavor at home

Multi-disciplinary studies through the Korea Initiative

Paul Simon Award for internationalizing our campus

Karan Chopra
2007 International Student Leader of the Year

International House immerses students in a multi-cultural residential community.
Strategic view of Georgia Tech
real estate issues
Technology Square

- Built on vacant lots, abandoned property
- Models sustainability
- Atlanta’s technology nexus:
  - Incubates new companies
  - Houses Georgia Tech’s business programs
  - Space for companies that want to be near campus
- Shops and cafes invigorate the neighborhood
North Avenue Apartments

- Gave us 2,005 new beds.
- Allowed 630 old beds to be taken out of service.
- Campus capacity now about 9,500 beds – 53% of student body.
- Most public universities can house only 25-35% of student body.
- Apartment style fills previously unmet need.
Altea Therapeutics - transdermal delivery system for water-soluble drugs & proteins
Size: 49,400 sf
Occupancy: June 2007

CardioMems - wireless sensing and communication technology for the human body
Size: 40,137 sf
Occupancy: Aug 2007
North Avenue Research Area

- $40 million in annual research
- Five research labs:
  - GTRI
  - Ben Zinn Combustion Lab
  - Structures Lab
  - Advanced Wood Products Lab
  - Food Processing Technology Lab
2004 Campus Master Plan
Acquisitions between Marietta St and Tech Parkway
Broad area of interest