Student achievements honored

Gates Scholar Anthony Hylick to pursue Ph.D. at Cambridge.

John Parish wins Goldwater Scholarship to continue undergrad studies at Tech.

Alexandra Pajak is one of eight student authors in a new book *What We Think: Young Voters Speak Out*. 
Incoming freshmen for 2005

- 2,505 deposits
  - 3.75 GPA
  - 1344 SAT average
- 61% Georgians
- 29% women
- 4% international students
- Ivan Allen up 42.5%
Pop quiz

In what two team sports did Georgia Tech win national championships during the past year?

Men’s lightweight four crew
Sky diving
Spring sports

Women’s tennis team 2005 ACC champs; go to NCAA Sweet 16 for first time ever.

Baseball team captures ACC title, hosts NCAA regional.

Chaunte Howard wins 3rd straight NCAA high jump title; sets new Tech record.

Golf team competes in NCAA championship round.
Exploring new frontiers

Alumnus William McArthur, veteran of 3 Space Shuttle flights, to head for International Space Station.

Biomedical Engineering Professor Gang Bao receives $11.5 million from NIH for nanomedicine research on the formation of plaque in arteries.

Samsung’s principal North American research center to locate in the Technology Square Research Building.
Strategic Energy Initiative

- Area of growing importance
- Build on existing strengths: photovoltaics, combustion, batteries, electric power, nuclear
- Link with emerging initiatives; nanotechnology, MEMS, biotechnology, sustainable technology
- Capitalize on opportunities – e.g. offshore wind energy; partnership with Southern Co., possibilities with GE Energy.
Studying GT’s impact

- Identify Georgia Tech’s economic impact on metro Atlanta and the State of Georgia.
- Determine factors that have enabled other science and engineering-based universities to contribute to their economies.
- Review the context for Georgia Tech, Atlanta and the State of Georgia going forward.
- Recommend ways GT can increase its ability to drive economic growth.
Huron study sponsors

- Earthlink
- Southern Company
- Noro-Moseley Partners
- Waffle House
- BellSouth
- Imlay Foundation
- TUFF (The University Financing Foundation)
- Georgia Tech Foundation
Capital projects underway or just completed

- Food Processing Technology Building
- Dedication
- Klaus Advanced Computing Building
- Molecular Science & Engineering Building
- Swann Building renovation
Awards received

- **Technology Square**
  - 2004 ULI Development of the Year Award
  - 2004 ULI Local Project of Excellence Award
  - 2004 Merit Award for Campus District Planning
  - 2004 Award of Merit, Mega-Projects Category, Associated Builders and Contractors of Georgia
  - 2004 AJC Best in Atlanta Award for Mixed-Use Projects
  - ARC Development of Excellence Award
  - 2003 U.S. Green Building Council LEED Silver Certification
  - 2003 PEDS Golden Shoe Award for Pedestrian Friendly Development

- **Campus Rec Center**
  - 2005 Innovative Architecture Design Award from Recreation Management Magazine
  - 2005 Outstanding Sports Facility from National Intramural Recreational Sports Association

- **John S. Coon Building**
  - Top campus renovation projects by *American School and University*
Capital Plan

- Submitted to Board of Regents March 31.
- Emphasizes that while GT has successfully leveraged private dollars, that does not and cannot replace the role of state funding for core functions:
  - Enrollment growth
  - Renovation
  - Economic development
Major renovation projects

- Old Civil Engineering
- Van Leer Building
- Hinman Building
- Centennial Research Building
- Price-Gilbert Memorial Library
- Howey Physics Building
- Boggs Chemistry
- Bunger-Henry
- Historical District building renewal
Projects in design, planning, proposal

Nanotechnology Research Center Building received $7 million in state funds to keep design moving forward.

Undergraduate Learning Center may receive design funds in next year’s legislative session.

Bio-Z Building, new home for biology and interdisciplinary biotechnology programs, presented to the Board of Regents June 7 for consideration.
Bio-Z Building proposal

250,000 gsf facility for multidisciplinary education and research in:

- Fundamentals of biological systems: genomics, proteomics, metabolomics
- Complexity of biological processes: computational biology, bio-informatics
- Large-scale phenomena: energy production, environment, complex diseases
“Age of biology” arrives at GT

- 15 new degree programs in 8 interdisciplinary fields during the past five years.

- Since Fall of 2001...
  - Undergraduate enrollment up 42% to 1,500.
  - Graduate enrollment up 60% to 755.
  - PhD degrees awarded up 100% to 18.

- Faculty up 94% to 128 positions since FY 2000.

- Research awards up from $7 million in FY 2000 to more than $38 million in FY 2005.

- Nearly a dozen bio centers established on campus.
Innovative new research directions

Nanomedicine: Joint GT/Emory research pioneers in this new field, lead the nation in attracting NIH funding.

Predictive medicine: GT/Emory research in human genome and molecular-level diagnostics aims at disease prevention.
Why it is important

“We understand perhaps 10 percent or less of the human biology necessary for the prevention, diagnosis, and treatment of disease and injury. Our understanding of the molecular underpinnings of cells and other aspects of human biology offers promising applications for medical treatment.”

Elias Zerhouni, director
National Institutes of Health
Why it is important

“Georgia Tech brings a unique, quantitative, interdisciplinary approach to life sciences investigation. Their ability to combine fundamental studies in biology and physiology, critically important for understanding cancer, with modern computational modeling of complex systems in a problem-solving engineering environment provides a context for success that is not found anywhere else in the state and has few peers in the nation.”

Bill Todd, president
Georgia Cancer Coalition
More space, modern space

Cherry Emerson Building
- Biology “home” built in 1959, 16,000 gsf.
- Antiquated electrical and HVAC systems.
- Inadequate lab and computing infrastructure.

Proposed Bio-Z Building
- 250,000 gsf.
- Modern systems and labs.
- Addresses new fields.
This building will...

- Bring together a multi-disciplinary group of faculty and students for instruction and research in:
  - Biology
  - Bio-engineering
  - Bio-physics
  - Bio-chemistry
  - Bio-materials
  - Health systems
- Provide an anchor for the School of Biology.
Links to economic development; strategic industries

- Georgia ranks 8th in the number of biotech companies (Ernst & Young).
- Metro Atlanta biosciences sector has grown more than 150% in the past decade to 200+ companies.
- Commission for a New Georgia, Metro Atlanta Chamber, and Mayor’s “New Century Economic Development Plan” identify biosciences as a “strategic industry.”
- Major “thrust area” of the Georgia Research Alliance.
- Georgia Cancer Coalition is focused on research, prevention, detection, and treatment of cancer.
Campaign planning

- Units now developing ideas and goals.
- Ideas, goals to be collected and assessed in process of developing strategic approach to $1 billion campaign.
- Leadership structure being shaped.
- Staffing and communications plans being developed; funding set aside for first stage.
- Report out to Foundation Board in September; discussions with leadership during summer.
Fund raising for FY 2004-05

- Improved environment compared to past three years.
- Total fund raising for 04-05 will be second highest in Institute history, exceeded only by the final year of the Campaign for Georgia Tech.
- Met funding goals for Management Building at Technology Square, stadium project.
Budget Summary

- Legislature fully funded formula.
- GT’s state funding moves in positive direction.
- Legislature approves 2% pay raise.
- Research awards, expenditures headed for another record year.
Legislation wrap-up

- New law shields anonymous donors except for those who do more than $10,000 in business with the University System.
- Still pending: bill on the governance of privately funded capital projects at University System institutions.