State of the Institute 2000
Defining the Technological University of the 21st Century
### Student Qualifications Keep Rising

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>1999</th>
<th>1994</th>
</tr>
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<tbody>
<tr>
<td>Average SAT</td>
<td>1330</td>
<td>1304</td>
<td>1275</td>
</tr>
<tr>
<td>Perfect SATs</td>
<td>12</td>
<td>6</td>
<td>4</td>
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<tr>
<td>Nat’l Merit</td>
<td>124</td>
<td>100</td>
<td>108</td>
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First year retention reaches an all-time high of 90%.
Georgia Tech Regional Engineering Program

Dr. J. David Frost, Director
Athletic Achievements

Academic All Americans
Carolyn Clevenger, volleyball
Dan Dyke, football
Bryce Molder, golf
Mark Teixeira, baseball

Mark Teixeira, National College Baseball Player of the Year

Bryce Molder, World Amateur Championship medalist

Joe Hamilton, Nation’s Best College Quarterback
Honing Administrative Talent

- Campus training participants increased from 428 to 1,611 last year.
- Number of classes increased by 276%.
- Cancellation rate dropped from 54% to 15%.
- 98% rated the quality as high.
Faculty Excel

10 new NSF CAREER Awards; total of 46

C. P. Wong, Regents Professor
Materials & Science Engineering,
is elected to the NAE.

Dick Lipton, NAE member from
Princeton, accepts the Frederick G.
Storey Chair in Computing.
Graduate student Rebecca Snyder moved from China to Zoo Atlanta with Lun Lun and Yang Yang.

GT’s three-screen visualization system in use for gorilla habitat in Rwanda.

Preserving Endangered Species

Graduate student Rebecca Snyder moved from China to Zoo Atlanta with Lun Lun and Yang Yang.
The August 18 issue of *Science* featured Dr. Uzi Landman’s work to develop a tiny jet nozzle with a diameter of six nanometers (six-billionths of a meter). Potential uses: injecting genes into cells or fuel into nanoengines, and producing micro-electronic circuitry.
Campus Transformation Continues

Now Open
Love Manufacturing Building
Combustion Lab
Adv Wood Prod Lab
GTRC, OIT in new homes

Coming Soon
State Street Deck
Environmental Science and Technology

On the Drawing Board
Advanced Computing Technology
Fifth Street Project
SAC-II
Baseball/Football Stadia
Molecular Science & Engineering
Biomedical Engineering
Fifth Street Project

- Biltmore Hotel
- Interdisciplinary Ctrs
- College of Management
- Executive Ed
- Hotel
- Conference Ctr
- Parking
- Continuing Ed
- Book Store
- Expanded 5th St Bridge
- Yamacraw Design Ctr
- Parking
- Conference Ctr
- Executive Ed
- College of Management
- Interdisciplinary Ctrs
- Biltmore Hotel
Strategic Communications

What do we want to be known for?

Who are our audiences?

How do we communicate our message?
USN&WR: #8 among national public universities

- Graduate programs:
  - College of Engineering #4
  - College of Computing #13
  - College of Architecture #15

- All ranked engineering programs in the top 15
- College of Sciences Nonlinear Dynamics #5

DuPree College ranked #30 overall, #15 by corporate sector in Business Week.
Buzz Named Best College Mascot in the Nation
Campaign Hits the Home Stretch

- Increased the goal to $600 million by Dec 31.
- Raised $567 million to date.

• $107 million in donated income last year set a record.
• Investments already making a difference.
The Challenges Ahead
Defining the Technological University of the 21st Century
Undergraduate Teaching and Learning

Our retention and graduation rates do not live up to the quality of our students.
The qualifications of our 10,000+ undergraduates are rising, and they deserve our best efforts.
“It is really the undergraduate who makes a university, gives it its lasting character, smell, feel, quality, tradition... whose presence creates it and whose memories preserve it.”

Sean O’Faolain

Harvard Alumni Bulletin
The distinguishing characteristic that sets the research university apart from other institutions of higher education is the integration of all of its people -- students, faculty, and staff -- into all of its missions -- education, research, and service.
Jeremy Farris developed a fungus that kills kudzu and was an American delegate to the Asian Pacific Economic Cooperation Conference in Singapore before he arrived on campus this fall as a freshman and President’s Scholar.
The Student Government Association’s Joint Commission on Enhancing Undergraduate Learning brought students, faculty and staff together to discuss ideas.
Undergraduate Initiative

- Create $250,000 fund for undergraduate research.
- Recognize faculty efforts with undergraduates and provide core curriculum oversight.
- Increase graduate and undergraduate TAs; provide more training for TAs.
- Document, reinforce, and share best practices.
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What are the objectives?

Enhance the teaching and learning environment.

Increase retention and graduation rates.
What is required?

Responsibility
Engagement
Leadership
Resources
Undergraduate Initiative

• Create $250,000 fund for undergraduate research.

• Recognize faculty efforts with undergraduates and provide core curriculum oversight.

• Increase graduate and undergraduate TAs; provide more training for TAs.

• Document, reinforce, and share best practices.
A cautionary note

“At present the universities are as uncongenial to teaching as the Mojave Desert is to a clutch of Druid priests. If you want to restore a Druid priesthood, you cannot do it by offering prizes for Druid-of-the-Year. If you want Druids, you must grow forests. There is no other way of setting about it.”

William Arrowsmith
Three Cases

Bill, Mary, and Justin experienced a variety of academic difficulties during their freshman year at Georgia Tech, some of their own making and others not...