

State of the Institute 2000

Defining the Technological University of the 21st Century





Student Qualifications Keep Rising

<u> </u>	<u>2000</u>	<u>1999</u>	<u>1994</u>
Average SAT	1330	1304	1275
Perfect SATs	12	6	4
Nat'l Merit	124	100	108

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



Joe Hamilton,
Nation's Best
College Quarterback



Bryce Molder,
World Amateur
Championship
medalist

Faculty Excel



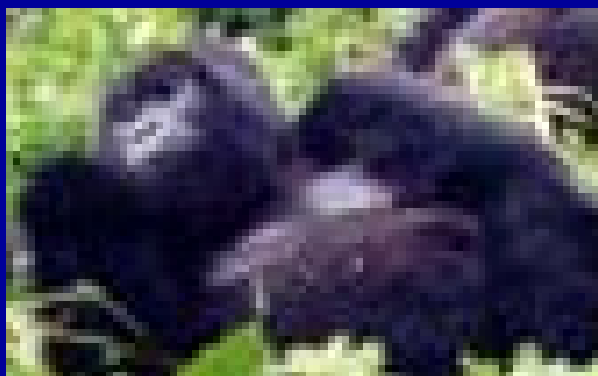
Dick Lipton, **NAE member** from Princeton, accepts the Frederick G. Storey Chair in Computing.



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



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.



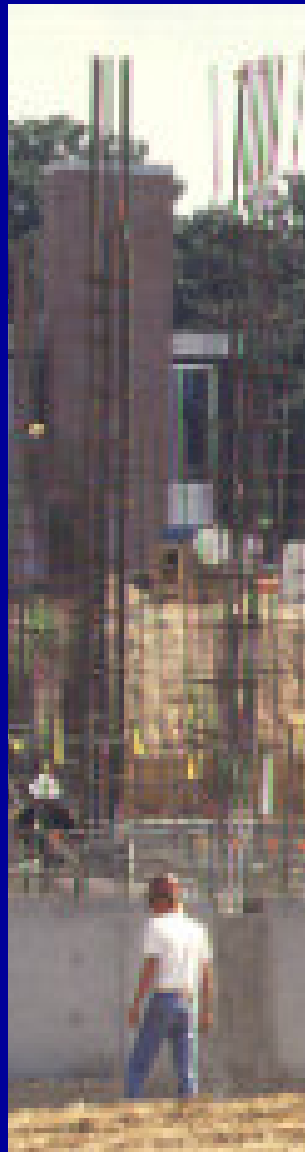
Campus Transformation Continues

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

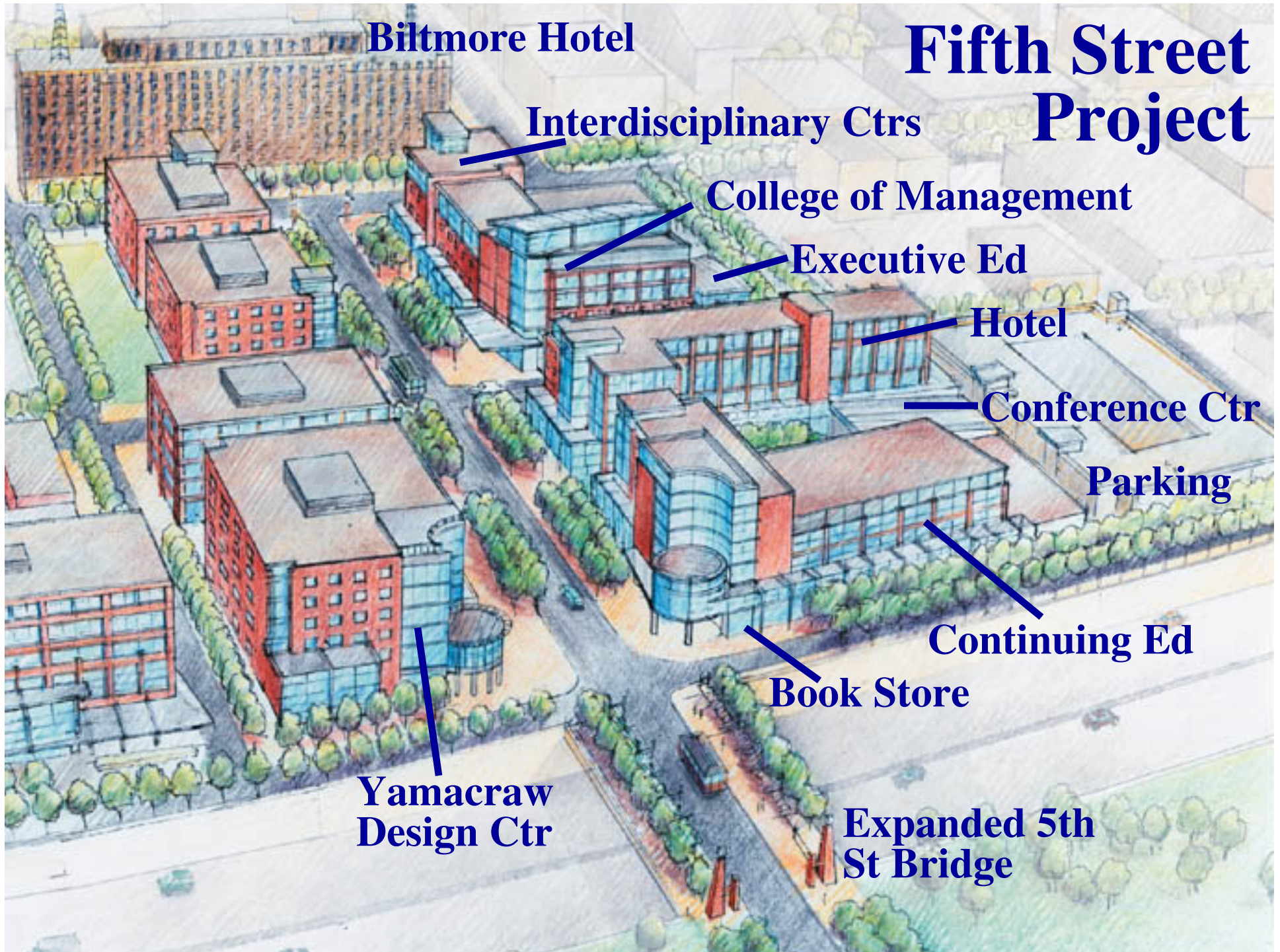
Parking

Continuing Ed

Book Store

Expanded 5th
St Bridge

Yamacraw
Design Ctr



Campaign Hits the Home Stretch

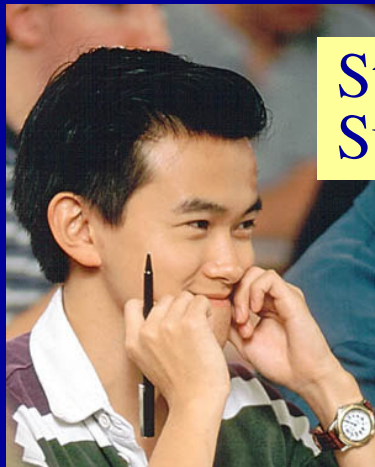
- Increased the goal to \$600 million by Dec 31.
- Raised \$567 million to date.



Interdisciplinary
Facilities



Endowed
Chairs



Student
Support



Student
Activities

- \$107 million in donated income last year set a record.
- Investments already making a difference.



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

The Challenges Ahead

Defining the Technological University of the 21st Century

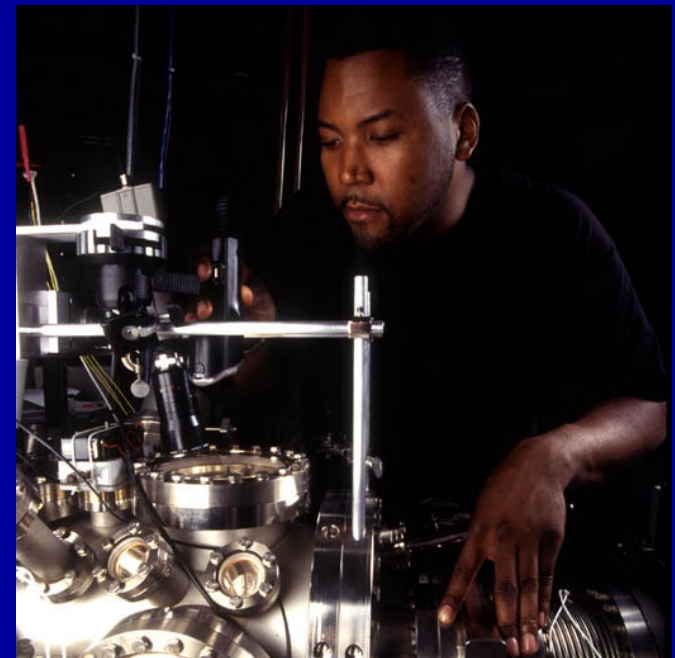




Undergraduate Teaching and Learning

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.

We have
a firm
foundation
on which
to build.





Students float through their experiment aboard the "Vomit Comet."

Student Teams

Rise to Research Challenges

Student prepares an aerial robot for lift-off.





Dr. Bill Chameides, Smithgall Institute
Chair of Earth and Atmospheric Sciences,
teaches an introductory course.

Vice Provost of
Undergraduate
Studies Bob
McMath teaches
southern history.



CETL videotapes lectures and offers helpful suggestions to improve presentation techniques.



Griffith in Context



Multimedia teaching tools like Griffith in Context, developed by Assistant Professors Greg VanHoosier-Carey and Ellen Strain with funding from the National Endowment for the Humanities, help make Tech an appealing destination for Britain Fellows.

From the Undergraduate Student Handbook, Woodruff School of Mechanical Engineering:

The students and faculty of the Woodruff School of Mechanical Engineering are committed to continuous improvement in the quality of undergraduate education...

Faculty Expectations of Students:

- review prerequisite course materials.
- read handout materials provided in class.
- complete out-of-class assignments on time.
- come prepared for class. Participate in the classroom by asking questions and contributing to any discussion.
- get help/feedback from professor as needed.
- follow the Woodruff School Honor Code.

The students
are better; the
curriculum is
still rigorous.



Last year the Office of Success Programs increased
tutoring and academic counseling sessions by 70 %.

Promoting Diversity

Diversity is the key
to our institutional
credibility.



“Diversity is not an end unto itself. It is a dynamic foundation, a springboard that offers unlimited possibilities for innovation and growth.”

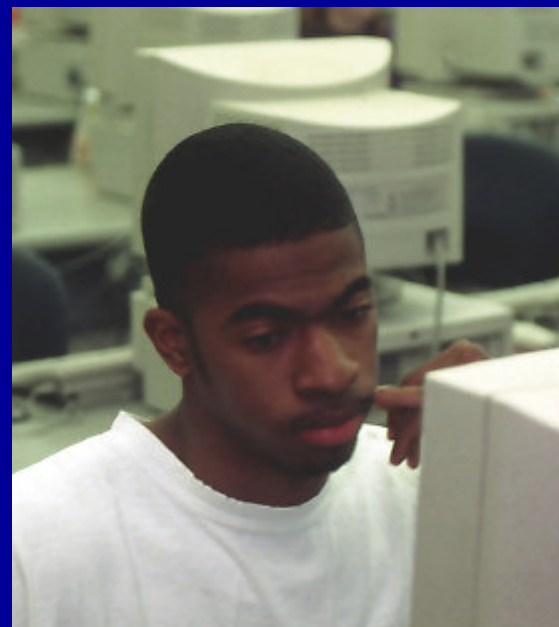
Paul Halata, President & CEO
Mercedes-Benz USA

Student Diversity



White Males: 48%

Women:
28%



Minorities: 34%



The Women's Resource Center makes campus more supportive and inclusive for women.

OMED promotes a culture of “quality diversity” that celebrates outstanding achievements by minorities.





Last year the Counseling Center increased its outreach to international students, and the Office of Diversity Programs conducted diversity training for 1,200 students, faculty, and staff.

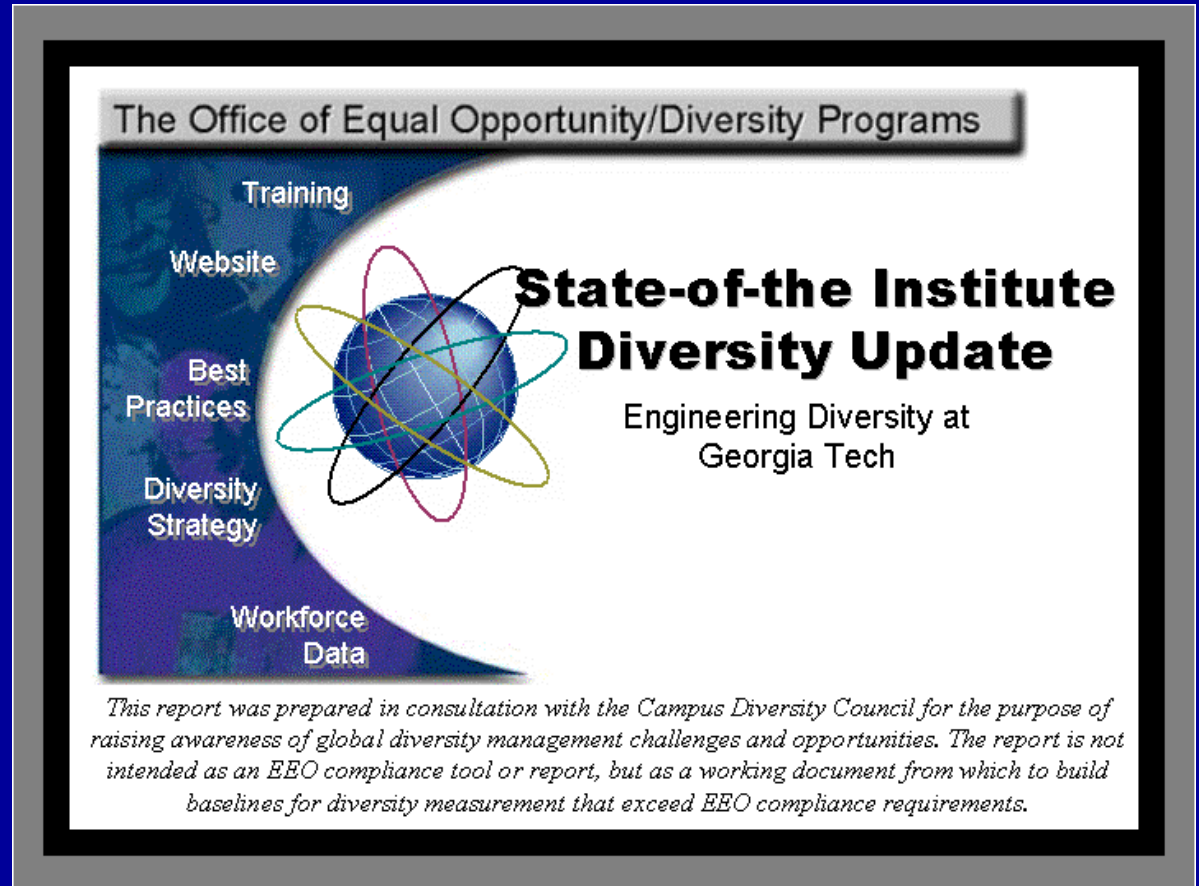
Institute Diversity Management Group

Council on Diversity

Diversity Forum



Pearl Alexander
director, Equal
Opportunity
Diversity Programs

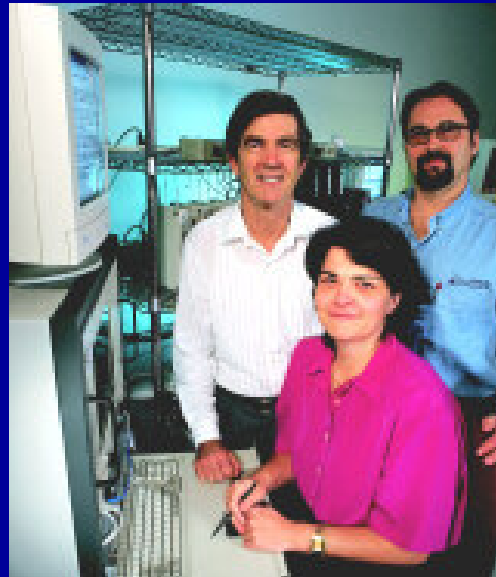


“Nothing on earth
is more gladdening
than knowing we
must roll up our
sleeves and move
back the bound-
aries of the
humanly possible
once more.”

Annie Dillard
The Writing Life



More Faculty Innovations Find their Way to the Marketplace



Two Tech faculty were partners in starting **Digital Furnace**, which recently sold for \$136 million in a stock exchange.



The smart T-shirt, which reads its wearer's vital signs, has been licensed for manufacture by start-up **SensaTex Inc.**

Technology developed at Georgia Tech was licensed to **MicroCoating Technologies**, a start-up company.



FOB Synthetics, Inc.
is one of the first
companies at
EmTech Bio.

A second client is
NuTec Services, one
of the nation's
leading companies in
the new field of
bioinformatics.





“Destiny is not a matter of chance, it is a matter of choice; it is not a thing to be waited for, it is a thing to be achieved.”

William Jennings Bryan

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