2001 State of the Institute

Shaping Futures Through Innovation

Georgia Institute of Technology
Students Continue to Excel

- Truman Scholar: Will Roper
- Marshall Scholar: Karen Feigh
- 2 Goldwater Scholars: Patrick T. Biltgen and Danielle L. Dees
- Sara Cames named one of two student interns for U.S. Chief Justice William Rehnquist
- Team of management, engineering, computing majors took first in the Nortel Networks International Undergraduate Case Competition in Ottawa.
Athletes Shine

More men’s and women’s teams competed in NCAA tournaments.

Club sports grab national spotlight: ice hockey, kayaking, crew
Georgia Tech No. 1 in Graduating African American Engineers

Black Issues in Higher Education
Attracting Quality Undergraduates

Freshman Applications

Freshman SAT Score
Quality of Graduate Students Also Rises

Applications

GRE Scores
Fall Enrollment Hits Record High

- Total
- Undergrad
- Graduate

Enrolled at GT sites off campus

'92 '93 '94 '95 '96 '97 '98 '99 '00 '01
Faculty Grows, Too

Year: '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01

Number of Faculty: 600 650 700 750 800 850
National Science Foundation
CAREER Awards

- Illinois
- Ga Tech
- MIT
- Michigan
- UCLA
- Wisconsin
- Stanford
New Senior Faculty Raise Caliber

William B. Rouse Stewart School Chair, ISyE

William J. Koros Goizueta Chair in ChE

Thomas Lux Bourne Chair in Poetry, IAC

Willie Pearson Jr. Chair of History, Technology & Society, IAC

Marie Thursby Smith Small Business Chair, DCOM
Faculty Awards

• Elected to NAE: Bruce Ellingwood, CEE
• Irving Langmuir Award in Chemical Physics: Mostafa El-Sayed, Chem/Biochem
• Norman Medal, American Society of Civil Engineers: Roberto Leon
• Belgian Royal Academy Prix Auguste Sacre, 1994-2000: Oliver Bauchau, AE

• Fulbright Awards: Carol Colatrella, IAC Greg Nobles, IAC

• Sloan Research Fellows: Beth Mynatt, Computing Dana Randall, Computing Robert Dickson, Chemistry
An Administration as Good as the Students and Faculty

- Lee Wilcox: chair, Council on Student Affairs, Natl Assn of State Universities
- Patty Bartlett: chair, Council on Governmental Affairs, Natl Assn of State Universities
- Rob Clark: vice chair, Association of College and University Auditors
- Jilda Garton: chair, Technology Transfer and Research Ethics Committee, Council Govt Rel
- Hal Irvin: National Management Achievement Award, Natl Assn Univ Business Officers
New Leaders Bring Fresh Vision

Jean-Lou Chameau
Provost

Richard W. Meyer
Dean of Libraries

April Brown
Executive Assistant to the President
Annual Giving: Cash Receipts
(in millions)
Under Construction

Environmental Science and Technology Building
Midtown Park
Chandler Baseball Stadium
Life Sciences/Technology Complex

- Molecular Design/Technology
- Bioengineering/Bioscience
- Whitaker Biomedical Engineering
- Ford Motor Co Environmental Science/Technology
In Design

- Technology Square
- Olympic Recreation Center
- Bobby Dodd Stadium
- Whitaker Biomedical Engineering Bldg
- Klaus Advanced Computing Technology Bldg
- GTREP Building, Savannah campus
Strategic Plan Goals

1. Student-focused education
2. Diverse community
3. Enhanced research enterprise
4. Expanded local, regional, global outreach
5. Intelligent development of effective information and educational technology
6. Supportive, collaborative, effective administrative structure
7. Campus environment to match Institute aspirations
Undergraduate Research Initiative

Christyn Magill’s research assignment: study replacement tissues for articular cartilage by designing and building a machine that mimics a joint, then conducting experiments on it. She presents the results of her research this month to the Biomedical Engineering Society.
**Student-focused Education**

**A Building With Vision**

- Experiential, technological labs and classrooms for core science classes.
- Information Commons with electronic access to library, instructional resources.
- Hub of academic support services for undergraduates.
- Center of educational innovation and improvement of teaching skills for faculty and teaching assistants.
“The first responsibility of a leader is to define reality. The last is to say thank you. In between, the leader is a servant.”

Max DePree

The Art of Leadership

Dr. Arnold F. Stancell
Turner Servant Leadership Chair
Expanded Outreach
Technology Square
Spring Street Elevation: EDI, Hotel/Conference Center

Fifth Street Elevation: DCOM, Hotel, Global Learning Ctr

West Peachtree Elevation: DuPree College of Management
Midtown Park

Advanced Technology Development Center
Breaking Ground September 6
New knowledge is a powerful driver of economic prosperity and a force for human progress. That makes new knowledge the most sought after prize in the world.”

Rita Colwell, Director
National Science Foundation
Enhanced Research Enterprise

Areas of Opportunity

- Biotechnology
- Nanoscience and nanotechnology
- Advanced communications
- Global technopreneurship
- Sustainable technology
- Emergency response
A Case Study: Biotechnology

1987: Parker H. Petit Chair in for Engineering in Medicine, Emory/Georgia Tech Biomedical Technology Research Center

1992: Master’s degree in biomedical engineering

1993: Whitaker Foundation Biomedical Engineering Award
**Enhanced Research Enterprise**

**A Case Study: Biotechnology**

1994: Ph.D. program in biomedical engineering, additional faculty

1996: Parker H. "Pete" Petit Institute for Bioengineering and Bioscience

1997: Joint GT-Emory Biomedical Engineering Department, Lawrence L. Gellerstedt Chair in Bioengineering
**Enhanced Research Enterprise**

A Case Study: Biotechnology

1998: $12.5 million NSF Tissue Engineering Center

1999: Master’s degree in bioinformatics

1999: Bioengineering and Bioscience Building
Enhanced Research Enterprise

A Case Study: Biotechnology

2000: Huang Chair in Engineering Entrepreneurship

2000: Em-Tech Bio

2000: $25 million Coulter Foundation gift

$16 million Whitaker Foundation gift
Enhanced Research Enterprise

A Case Study: Biotechnology

2001: $1 billion state cancer initiative

2002: U.A. Whitaker Building to house the Coulter Department

2001: Undergraduate degree program

2001: $1 billion state cancer initiative
National Biotech/Pharma Clusters
Top 20 Regions in Employment, 1998

Legend

- **Top 5**: 40,000 to 72,000
- **5 to 10**: 30,000 to 40,000
- **10 to 15**: 18,500 to 30,000
- **15 to 20**: 16,300 to 18,500

Source: Cluster Mapping Project, Institute for Strategy and Competitiveness, Harvard Business School
“The only way to predict the future is to have the power to shape the future.”

Eric Hoffer