

NOTES FOR PRESIDENT G. WAYNE CLOUGH
Georgia Tech Advisory Board, November 8, 2002

SLIDE: STUDENTS

Freshman class same size. Growth: retention (91%), graduate students; other campuses and online.

SLIDE: NEW FACULTY

SLIDE: FACULTY AWARDS

13 CAREER Awards ties prior record high; 72 total (10 more than MIT)

Zhang and DesRoches went to White House, met President Bush.

High profile books: *The Financial Numbers Game* by Eugene Comiskey and Charles Mulford; *New York Times Book Review* cover: *Lyrics of Sunshine and Shadow* – growing visibility in areas outside engineering and science.

SLIDE: RANKINGS

Hidden story: sciences.

SLIDE: IMPROVING THE INSTITUTE

Strategic Plan in their folders

New police chief; expanding force

Revised and strengthened Honor Code to be clearer on collaboration

First Greek Alumni Forum

Commercializing research

SLIDE: RESEARCH AWARDS

SLIDE: ENTOMOPTER

Entomopter is 4 inches long; designed for data collection on Mars, which has no atmosphere so flying is incredibly difficult. Tiny next-generation Buzz.

SLIDE: MIDTERM GRADES

Part of undergraduate initiative; GTAB has discussed and given advice.

Too soon to know statistical impact; but can already see value of a system that not only alerts students to academic problems, but gets them to sit down with their academic advisors and discuss how to get the help they need.

SLIDE: UNDERGRADUATE RESEARCH

Strategic Plan goal: increase number of undergrads doing research by 50%.

Last year: Doubled number of grants from fund for undergraduate research and made full use of fund; this year – on track to do even more.

SLIDE: NEW CAMPUS FOCAL POINT

Hightower demolition

Library West Commons

Houston Building

New quad

Undergraduate learning center

SLIDE:SAC-II

SLIDE: TECH SQUARE

SLIDE: LIFE SCIENCES COMPLEX

SLIDE: SERVING NATIONAL NEEDS

Shift gears toward the topic for discussion today: Georgia Tech's role in helping to shape public policy.

Technology is becoming more ubiquitous in every aspect of life, but policy makers as a group tend not to be very technologically literate. Technological literacy is more than knowing how to operate a computer or a cell phone. For policymakers, it means understanding the role and possible uses of technology, so that their policy decisions will maximize potential, anticipate problems, and minimize unintended consequences.

Nation and world increasingly looking for leaders who can offer thoughtful and wise technological solutions to complex problems we face. Tremendous opportunity for Georgia Tech to step forward. Want to be more strategic and systematic in taking advantage of opportunities to develop an appropriate leadership role and maximize our contribution.

SLIDE: BUSH VISIT

September 11 terrorist attacks and ensuing homeland security concerns – a great example of an issue on which Georgia Tech can provide leadership and expertise. CERTIP: not only developing the technology, but also the functional organization and training to put them to effective use. FROST: stepping forward to help with timely technology.

SLIDE: SHAPING NATIONAL POLICY

Want to spend a few minutes documenting the kind of policy activities we have already developed at Georgia Tech – provide a starting point for discussions of where we should go from here.

SLIDE: GWC ACTIVITIES

SLIDE: PUBLIC POLICY

Sue Rosser last June gave ASEE Educational Research and Methods Distinguished Lecture on whether the new standards adopted by ABET (Engineering Criteria 2000) will make engineering more appealing to women.

May want to mention Barry Bozeman, Public Policy Professor who is an expert on science and technology policy. Author/editor of 14 books and over 100 papers; technology policy consultant to U.S. Department of Commerce, United Nations.

SLIDE: NATIONAL SECURITY

Besides Ed Reedy, we have a number of folks who play active roles in less-well-known defense advisory bodies. E.g. Dan Schrag, director of the Aerospace Systems Design Lab provided expert testimony to the Pentagon in its review of the \$40 billion MV-22 Osprey program following a crash of this experimental aircraft.

SLIDE: ENGINEERING

Chip White testified before U.S. Senate on security measures that should be implemented in the nation's intelligent transportation systems.

Mike Meyer was director of Transportation Planning and Development for Massachusetts earlier in his career. Author of *Transportation Congestion and Mobility: A Toolbox for Transportation Officials* sponsored by the Federal Highway Administration and the Institute of Transportation Engineers.

SLIDE: IN BUSINESS AND MANAGEMENT

Marie Thursby: Innovation Realization Lab – Technological Innovation: Generating Economic Results (TI:GER)

SLIDE: INFORMATION TECHNOLOGY

SLIDE: ECONOMIC DEVELOPMENT

SLIDE: AT THE STATE AND LOCAL LEVEL

Larry Keating started the Community Design Center of Atlanta to promote a better quality of life for low-income neighborhoods. His work with the Center led to his

recent book: *Atlanta: Race, Class, and Urban Expansion*, which provides advice for local economic policy.

SLIDE: QUESTIONS: OUR ROLE AT THE NATIONAL LEVEL

SLIDE: QUESTIONS: OUR ROLE AT THE STATE/LOCAL LEVEL

SLIDE: QUESTIONS: POLICY EDUCATION IN OUR CURRICULUM

Agreement that scientists and engineers need to be more active in policy; question is how to get them into that arena. They are used to publishing for their peers; they are hesitant to speak outside their narrow area of expertise. (Engineers work in an arena where errors can kill people, so they are used to a very tiny margin for error. If a public policy expert is wrong, s/he just writes another paper.)