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The WHISTLE



Georgia Institute of Technology

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Higher education still a priority for Governor

Victor Rogers
Communications Division

Last week, Governor Zell Miller unveiled his state budget recommendations for Fiscal Year '99, showing continued support for higher education. In the final budget of his administration, Miller recommends approximately \$300 million in new capital and operating funds for Georgia's University System.

"It's a very generous budget recommendation for the University System of Georgia and Georgia Tech," said Andrew Harris, director of Government Relations. "Governor Miller has not wavered at all, even in his final year in office, in his commitment to higher education."

Georgia Tech's budget priorities for FY '99 include a 6 percent merit-based pay increase, support for the Georgia Research Alliance (GRA), and support to provide for formula-related increases.

"The National Science Foundation, for example, ranks Georgia Tech number one in the nation in attracting top new young science faculty," Miller said. "MIT comes in second."

"And the Georgia Research Alliance has lured 24 eminent scholars to Georgia to help with high tech economic development," he added.

Miller proposes \$42 million in the supplemental 1998 budget for the GRA to expand and strengthen the state's ability to commercialize discoveries that come from its research labs. Georgia Tech, through research being conducted in biotechnology, telecommunications, and sustainable technology, will receive a considerable portion of those funds.

In order to provide for costs associated with new students entering the University System this year, Miller recommends \$10.2 million for increases in the University System funding formula. These funds will be allocated in the spring to all University System institutions for additional faculty and other instructional costs.

Additional highlights of the governor's recommended budget for Fiscal Year '99 include:

- \$2.4 million to provide additional support for major repairs and rehabilitation throughout the University System.
- \$145 million in bonds for eight new construction projects for the University System, which includes \$1.34 million to plan and design the Environmental Sciences and Technology Building at Georgia Tech.
- More than \$7 million in bonds and state funds for the Traditional Industries programs (food processing; pulp and paper; and carpet, textile and apparel) to support industry-requested research by University System scientists. Included in this recommendation is \$200,000 to plan and design a food packaging research facility at Georgia Tech.
- \$15 million in lottery funds for the Equipment, Technology and Construction Trust Fund to provide equipment and facilities at all institutions.
- \$2 million for a Special Funding Initiative to develop a Statewide Desktop Distance Learning network pilot program, which will produce on-line, non-credit courses for working professionals in Georgia.
- \$270,000 in additional operating funds for state Economic Development Institute offices, and
- \$278,509 to the Georgia Tech Research Institute to support the Foundations for the Future program to assist local school systems with telecommunications and technology innovation in the classroom.

"Governor Miller's budget reflects his continuing outstanding commitment to higher education," said President Wayne Clough. "There are exciting opportunities being created for Georgia Tech in the record GRA budget and the design funding for our new Environmental Sciences and Technology building. Needless to say we are appreciative of this support and want to do our best to make this investment in our future pay off for the State of Georgia."



A few days before unveiling his FY '99 budget recommendations, Governor Zell Miller (center) visits the Georgia Center for Advanced Telecommunications Technology to get a closer look at research being conducted by Dr. Steven W. McLaughlin (left) and Georgia Tech students. McLaughlin, an assistant professor in the School of Electrical and Computer Engineering, received a \$500,000 Presidential Early Career Award for Scientists and Engineers for his work in high capacity optical recording systems.

In keeping with his commitment to raise faculty salaries, Miller set aside nearly \$78 million to provide a 6 percent pay increase for all University System of Georgia employees.

"A great University System requires a great faculty," said Miller, delivering the FY '99 Budget Address in a crowded chamber. "When I took office, Georgia faculty salaries ranked fifth among the southeastern states. Since then, we have raised faculty salaries over 33 percent."

If all other states in the southeastern region provide raises of 3.5 percent or less, which would be consistent with regional patterns, Georgia will move into first place in the Southern Regional Education Board (SREB) states in faculty salaries in FY '99. The salary increases have helped the state attract and retain the best new faculty, according to Miller.

Georgia Tech is site of new research lab and home of new Eminent Scholar

"This new collaboration between Lucent and the Georgia Research Alliance is a classic example of the value-added role that our universities can play for companies based in Georgia."

William J. Todd,
president of the
Georgia Research Alliance

Lucent Technologies will collaborate with the Georgia Research Alliance (GRA) and the Georgia Center for Advanced Telecommunications Technology (GCATT) to create an Eminent Scholar in Wireless Technology at Georgia Tech.

In addition to helping set the research agenda and scope for the GRA Eminent Scholar, Lucent also is establishing a laboratory in Atlanta to conduct wireless technology research in partnership with GCATT and Georgia Tech. The new wireless lab will be located at the Advanced Technology Development Center, headquartered at Georgia Tech.

"The wireless technology market is growing some 40-50 percent a year," said Lucent Technologies Executive Vice President Dan Stanzione, who recently spoke at GCATT. "Because of this explosive growth, Lucent wanted to create a new lab totally dedicated to wireless research and development," said Stanzione, also Lucent's chief operating officer and president of Bell Labs.

Stanzione said Lucent selected Atlanta as the site for the new lab because of the area's attractiveness as a place to live and work, its growing reputation as an emerging high-tech hub, particularly in telecommunications, and because of bountiful resources in terms of local talent and academic institutions like Georgia Tech.

"This region is well suited for the establishment of an R&D center in this technology because of the close collaboration between Georgia Tech and the other area universities as part

of the Georgia Research Alliance," said Bryant Isaacs, general manager of Lucent's new wireless lab. Isaacs recently relocated to Atlanta from the company's New Jersey headquarters to lead the project.

According to Georgia Tech President Wayne Clough, "This new partnership with Lucent will allow Georgia Tech to build one of the nation's premier research programs in wireless technology. Combined with current projects in our School of Electrical and Computer Engineering and other research centers, this scholar will keep Tech strongly positioned at the forefront of the telecommunications industry." Georgia Tech expects to have the scholar in place by fall of 1998.

"This new collaboration between Lucent and the Georgia Research Alliance is a classic example of the value-added role that our universities can play for companies based in Georgia," said William J. Todd, president of the Georgia Research Alliance.

Last fall Lucent announced an initial \$350 million expansion of its fiber optics and cable plant in Norcross. With more than 6,800 employees in the metro area, Lucent Technologies is Atlanta's fifth largest employer. Lucent, headquartered in Murray Hill, N.J., designs, builds and delivers a wide range of public and private networks, communications systems and software, data networking systems, business telephone systems and microelectronics components. Bell Labs is the research and development arm for the company.

Tech tackles student drinking; Comprehensive Alcohol Summit well attended

Gwendolyn Glenn
Communications Division

More than 200 participants attended a six-hour Alcohol Summit at the Fred B. Wenn Student Center on January 8 to discuss student drinking habits at Georgia Tech. During this timely Summit, the diverse group of participants met in small group sessions to come up with recommendations that will assist university officials in aggressively tackling alcohol problems on campus. Student leaders, university officials, local police, alumni, and owners of businesses where students consume and purchase alcohol took part in the discussion groups.

According to Tech's Dean of Students Gail DiSabatino, "The purpose of the Summit was to bring together representatives of our community to discuss issues around alcohol. This is not just a Georgia Tech issue. This is a community issue and that's how we're trying to address it. We don't want to insulate ourselves, but we have to be proactive when it comes to issues relating to alcohol."

With the tragic alcohol-related deaths of students on several campuses in recent months, alcohol consumption has become an even greater concern of officials at colleges and universities around the country. During the opening ceremony for the Summit, Georgia Tech President Wayne Clough pledged his full commitment to the effort: "Whatever we can do we will. We will take the recommendations from this Summit seriously and we will take action because if you do nothing, the problem will escalate."

Clough reminded the audience about the four alcohol-related student deaths at other universities and about the Tech student who was rushed to the emergency room after a binge drinking episode. "These cases are only part of the picture, and there are many others we have not heard much about," he said. "That's why it's important that we are talking about all alcohol abuses and what can be done about it."

According to a Georgia Tech report, 60 percent of students on campus drink and 34 percent drink to get drunk. The report also revealed that nearly 34 percent of Tech's students admit to binge drinking once or twice times in any given two-week period.

"We realize that students here are not immune to binge drinking and that is one reason why the Summit was organized," said DiSabatino. "We want to put mechanisms in place to educate students about the potential dangers of alcohol and also let them know that the students will be dealt with severely if they break any laws pertaining to alcohol," she added.

Some students at the Summit voiced concern that they do not believe that all current policies concerning alcohol are strictly enforced at Tech, which they say makes many students think that enforcement of all regulations is lax. Atlanta police officer G.W. Garrison advised Tech officials to "make it known that alcohol abuse won't be tolerated and take a no-nonsense approach to enforcement." Garrison also issued a warning to the students in his discussion group that because alcohol is culturally accepted among most college students does not diminish the potential dangers associated with alcohol abuse. "Alcohol is a drug...a depressant, and a lot of people don't understand this," Garrison said.

At the end of the Alcohol Summit, each discussion group submitted recommendations for officials to consider including in a plan of action on alcohol consumption at Tech. In addition, several open, town hall style meetings will be scheduled soon so that officials can receive input on the Summit attendees' recommendations from others on campus and throughout the Atlanta community. A task force also will be established to oversee the implementation of the final plan of action.

"We can all learn from each other during this process, and all of this would certainly be worth it if one person is saved as a result of our efforts," said Clough.

**Georgia
Tech**

The Whistle

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Like Father, Like Son: Georgia Tech professor awards Ph.D. to son

Jackie Nemeth
Electrical and Computer Engineering

Forty-three years ago, Kendall L. Su became the third electrical engineering student to receive a Ph.D. degree at Georgia Tech. From Tech, he went on to establish himself as an internationally known circuit theorist. While he has been a trailblazer in his field and received many honors during his career, Kendall had a rare and precious opportunity at fall commencement: he awarded a Ph.D. degree and doctoral hood to his son, Jonathan.

"When Jonathan came back to Atlanta to go to graduate school, my wife and I were very happy to have him at home again," Kendall said. "Though he went his own way as a student and I kept doing my job, we compared notes every now and then. I also would hear comments about him from my colleagues and his peers that were always very positive. This experience has been a very rewarding one because I have had a chance to watch him grow and develop while he has been in graduate school."

In 1991, Jonathan, who was born and raised in Atlanta, graduated magna cum laude with a B.S.E.E. from Rice University. Later that year, he enrolled in the doctoral program at Georgia Tech's School of Electrical and Computer Engineering (ECE). Jonathan earned his M.S. degree in 1993 and began his doctoral studies in digital signal processing (the technology behind the coding, transmission, storage, and playback of video and audio signals) with his adviser, Russell M. Mersereau. Jonathan's research explored aspects of digital video compression.

While still a graduate student, Jonathan had summer work assignments at GTE Laboratories and at Georgia Tech Lorraine, the Institute's European campus. He also authored class notes with Edward W. Kamen, a professor in the School of ECE. Jonathan also is a member of several honorary academic societies and is active with the Circuits and Systems, Communications, and Signal Processing societies of the Institute of Electrical and Electronics Engineers (IEEE).

Although he never had his father as a professor in the classroom, Jonathan frequently heard his father mentioned in conversations among his colleagues at Georgia Tech and elsewhere. "I often go to conferences and almost always meet someone who was a colleague or student of my father's," Jonathan said. "While I was a teaching assistant at Rice, I had a student whose grandfather graduated from Georgia Tech and had taken classes from my father, which was very surprising."

While Jonathan chose to study digital signal processing, Kendall spent his academic career working on network synthesis and electronic design and applications. A Life Fellow of the IEEE, Kendall is the author of six major books: *Active Network Synthesis*; *Time-Domain Synthesis of Linear Networks*; *Fundamentals of Circuits, Electronics, and Signal Analysis*; *Handbook of Tables for Elliptic-Function Filters*; *Fundamentals of Circuit Analysis*; and *Analog Filters*.



Photo by Sue Clites

Kendall L. Su (left) congratulates his son, Jonathan K. Su, on receiving his Ph.D. in electrical engineering from the Georgia Institute of Technology.

A native of Nanping, Fujian, China, Kendall received his B.S.E.E. degree at Xiamen University in 1947. He recently attended his 50th college reunion in Xiamen, where he joined 70 of his classmates in remembering their school days.

He came to Atlanta in 1948, where he enrolled at Georgia Tech and earned his M.S. and Ph.D. in electrical engineering in 1949 and 1954, respectively. Kendall then began his professional career, which has now spanned more than 40 years, in the School of ECE, and through the years, advanced to Regents' Professor, one of the highest academic titles a professor can hold in the University System of Georgia. Though he is officially retired, Kendall continues to teach on a part-time basis. He estimates that he has taught more than 10,000 students during his career.

This month, Jonathan begins a two-year research position at the Telecommunications Institute at the University of Erlangen-Nuremberg, Germany. "I will be working on a technique called digital watermarking, which involves placing an invisible signal in a digital picture or video," he said. "This technique can be used to determine whether images have been altered or copied illegally, and it can be used for ownership identification or copyright protection." As for the future, Jonathan has yet to decide whether he would like to pursue a career in academia or industry, but he plans to return to the United States.

Search begins for new Vice Provost for Research

As a result of Dr. Jean-Lou Chameau's assumption of the position of Dean of Engineering, the position of Vice Provost for Research and Dean of Graduate Studies is vacant and must be filled. A search committee consisting of Dean Gary Schuster, Chair; Dr. Ward Winer, Dr. Ed Reedy, and Dr. John Limb has been appointed to recommend a short list for consideration.

The responsibilities of this position are many, varied and significant for the continued progress of Georgia Tech. Included in these responsibilities are the oversight of GTRC, the Graduate Office, management of the cost sharing and startup equipment funds coming from lottery funds, and GTRC grants and state funds. The successful candidate also will work closely with the academic units to enhance the recruitment of the best graduate students.

In addition, the occupant of this position serves as the primary liaison with the Georgia Research Alliance and serves on the board of directors of ERDA, the state research universities'

coordinating arm with Westinghouse research activities at the Savannah River Site. Other responsibilities include serving on the President's cabinet, the oversight of Georgia Tech's intellectual property efforts, and serving on the Board of Regents Research Advisory Committee. The Vice Provost for Research and Dean of Graduate Studies reports to the Provost.

Nominations and/or applications should be sent to Dr. Gary Schuster, Dean of the College of Sciences. Candidates should have a strong record of research, teaching and service in a discipline appropriate to Georgia Tech's mission. Candidates should be already tenured at Georgia Tech or possess a record of accomplishments that would justify a tenured appointment in one of Tech's schools.

Campus EVENTS

Brown Bags/Lectures/Courses

Jan. 21

"Supervisory Skills Part 1." 8:30 a.m.-12:30 p.m. Human Resource Development Training Room 302, Coliseum Annex. For more information, contact Wansley Dennis at 894-2249.

Jan. 22

GVU Brown Bag Lecture Series, "Business Information Visualization," Guest Speaker: William Wright (Visible Decisions, Inc.), Noon, Room 102 Pettit Building (MiRC). For more information call 894-4488 or e-mail gvu-info@gvu.gatech.edu.

"Employment Interviewing Skills," 8:30 a.m. - 1:00 p.m., Human Resource Development Training Room 302, Coliseum Annex. Contact: Wansley Dennis at 894-2249.

Jan. 23

Cognitive Science Colloquium, "A Bio-Cultural Theory of Human Cognitive Development." Speaker: Michael Tomasello, 12:00 - 1:30 pm, Student Center, Room 319. For more information contact Jocelyn Thomas at 894-7865 or jocelyn@cc.gatech.edu

"Supervisory Skills II," 8:30 a.m. - 12:30 p.m., Human Resource Development Training Room 302, Coliseum Annex. Contact: Wansley Dennis at 894-2249.

"Ergonomic Solutions to Your Work Stations," 9:00 - 11:00 a.m., Custodial Services Building, Contact: Wansley Dennis at 894-2249.

Jan. 27

"Supervisory Skills III," 8:30 a.m. - 12:30 p.m., Human Resource Development Training Room 302, Coliseum Annex. Contact: Wansley Dennis at 894-2249.

Jan. 28

Georgia Tech Women's Forum's annual luncheon, at noon in the MIRC bldg., room 138. Agnus Berenato, Georgia Tech Women's basketball coach, will speak on "Women's Sports Programs." Attendees may bring lunch (\$1.00), or enjoy Papa John's pizza, dessert and soft drinks (\$4 for members; \$5 for non-members). RSVP by January 26 to Betsy Kidwell at betsy.kidwell@oars.gatech.edu

Faculty Development Program

Jan. 20

"Creating Course Web Pages," 10:00 a.m.-11:00 a.m. or Noon-1:00 p.m. Student Center, Room 321. Learn more about web servers, web page editors, FTP applications and other needed resources for creating web pages at Georgia Tech. Learn about on-campus resources for obtaining free development software, development assistance and a web server account to house instructional web pages. For more information call Clint Lyle at 894-6294. For registration information see: <http://classweb.gatech.edu/fdw> for more information.

"Working with Images," 9:00 a.m.-Noon, Rich Bldg. Rm. 242. Faculty members will learn text and image scanning methods and how to manipulate images for use in enhancing coursework. This is primarily a hands-on course; please bring materials. Course is helpful for creating a web page. For more information call Clint Lyle at 894-6294. For registration information see: <http://classweb.gatech.edu/fdw>

Jan. 21

"Creating Course Web Pages," 10:00 a.m.-11:00 a.m. or Noon-1:00 p.m. Student Center, Room 321. See course description listed under Jan. 20. Call Clint Lyle at 894-6294 for more information. For registration information see: <http://classweb.gatech.edu/fdw>

Classifieds

APPLIANCES

Proctor-Silex 5-Quart Hot Air Popcorn Popper. Brand new - never used. Retail for \$15-\$20. Will sell for \$12. Contact Mary Beth at 770-421-9532 if interested.

AUTOMOBILES

1987 Buick Regal, white. One owner, all power, extra clean, excellent condition. Asking \$2,495. Call 894-1357 or evenings, 770-975-3794.

1996 Isuzu Rodeo, black with gold package, roof rack, cargo cover, A/C, 26,000 miles. Good condition. Asking \$16,200 (Appraised value). Call 404 894-4067 or e-mail neal.christian@chemistry.gatech.edu

1994 Dodge Intrepid ES, burgundy. All power, excellent condition, 55,000 miles. Asking \$10,700. Call 770-975-3794.

1984 Subaru GL, silver sedan, auto, a/c, AM/FM, cassette, 140K miles, good tires, runs well, \$1,200. E-mail diana.jiang@library.gatech.edu or call 404-814-9812.

1977 Chevy Impala, good running condition, recent paint job, original owner, \$1,000. Call Mani Subramanian (404)894-6562 (Day) or (770)454-7391 (Eve).

1988 CRX SI, 5-speed, sunroof, 105K miles, AC, HB, tape, new clutch & battery, Edmund's Market Value: \$4325, Asking: \$3750 OBO. hernandez@chemistry.gatech.edu or 894-0594.

1987 GMC 1/2 ton pickup, short bed, low mileage, one owner, 770-427-1462.

1989 Ford Taurus Wagon, auto, air, power: steering, brakes, windows, locks. Eight passenger seating. Good condition, well maintained. \$3,600. Contact Jeff at 894-3157, or evenings at 770-667-5316.

1993 Ford Ranger XLT, Excellent condition. 5-speed, gold with beige interior, A/C, P/S, P/B, A/M-F/M cassette, Bedliner. \$7,300 OBO. Call 297-6742 or (770) 705-4341.

FURNITURE

Full size mattress and box spring. In guest room, seldom used, like new. \$90. sandy.bedford@chemistry.gatech.edu or 894-0292.

Beautiful cherry dining table/four chairs w/upholstered seats. Excellent condition. \$100. Call 770-952-6468 evenings.

Greatland-brand Indoor Twin Air Mattress with bellow-style foot pump. Almost new. Asking \$15. Contact Mary Beth at 770-421-9532 if interested.

REAL ESTATE

Three (deeded) red-time vacation timeshares in Sky Valley Resort, Sky Valley, GA (between Dillard, GA and Highlands, NC). Weeks available are 33 (two bedrooms), 39 (one bedroom), and 52 (one bedroom). Resort has skiing in Winter and golf year-round, in addition to a number of other activities/amenities. Asking \$5,000 for week 33, \$4,000 for weeks 39 and 52. E-mail sheron.meyers@gtri.gatech.edu for additional information.

1-bdrm./studio for rent. Peachtree Hills. Separate house, nice quiet neighborhood off Lindberg and Peachtree Rd. Close to MARTA station. \$600/month available January 1st. Call 770-952-2708 leave message for Guy.

Decatur: 2-bdrm., 1-bath for rent. Hardwood floors, washer/dryer, dishwasher, deck, central a/c and heat. Available Jan. 1. \$760/month plus utilities. Call 371-1974.

MISCELLANEOUS

Cockatiels for sale. Healthy, beautiful colors, different sizes. Some whistle. Easily trained. Must have own cage. Will bring to Georgia Tech for pick-up. \$25,\$35 & \$50 Call Linda at 894-7738 or 770-920-1018.

Lifestyle Cardio Fit Exercise Machine, (resembles a bike...sit and pull) paid \$200 asking \$75.00 OBO. 770-259-6606

Wanted: used stationary bike. Please e-mail fp16@prism.gatech.edu

Simons Reflector Telescope. 1-1/2 yrs. old. Retail \$300; will sell for \$125. Extra lens with telescope. Contact Carol York at 894-8048 or carol.york@gtri.gatech.edu.

14-carat gold, amethyst, peridot, and pink tourmaline jewelry (earrings, pendants, and a ring). All in excellent condition (almost new) and very reasonably priced. Call Mary Beth at 770-421-9532 for more information.

Baby items: Century umbrell stroller with hood and basket, like new, \$30, Cocco hi-chair, \$10, Kolcraft Rock and Ride Carrier/Car Seat for infant under 18 lbs., \$15. Contact claudine.nickens@me.gatech.edu or 894-3758.

For sale: Beautiful fitted white satin wedding gown. Beaded front w/sheer long sleeves accented with pearls. Cascading train. Size 7; can be altered to fit size 10. Never worn. Purchased-\$680; Asking \$450. Contact: chelcea.warren@me.gatech.edu

For Sale: 1985 Fender Stratocaster Guitar. Black with white trim. Very good condition. Includes hard-shell case. \$275. E-mail: stephen.blalock@gtri.gatech.edu. Or call (770) 924-6314.

Large dog pen, 12 six ft. high panels w/ gate. Can arrange to any desired size. (currently 15'x 25') Excellent condition \$200. Call Chris at 894-4474 or 770-981-5556.

DP 451 Magnum weight bench with some weights. Bench press (incline/decline), butterfly attachment, leg curl, leg extension. Asking \$65. Contact: dav@netdepot.com or 817-0615.

Editor's note: Faculty and staff may submit ads via e-mail to victor.rogers@vpea.gatech.edu or FAX to Whistle at 894-7214. Ads run for a maximum of three weeks, in the order in which they are received. For more information call 894-6016.