



The WHISTLE

The Georgia Institute of Technology

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March 22, 1999

Rosser named dean of Ivan Allen College

After an exhaustive search, Dr. Sue V. Rosser has been named dean of the Ivan Allen College. Rosser will be the first woman to serve as a dean of an academic college in Georgia Tech's 110-year history. She begins her new position in mid-July.

Since July 1995, Rosser has served as professor of anthropology at the University of Florida. She also directed the Center for Women's Studies and Gender Research. From July 1994 to December 1995, she was senior program officer for Women's Programs at the National Science Foundation. From 1986 to 1995 she served as director of Women's Studies at the University of South Carolina, where she also was a professor of family and preventive medicine in the medical school.

"Dr. Rosser's background in science, combined with her National Science Foundation and administrative experience is extremely valuable," said Mike Thomas, provost and vice president for Academic Affairs. "Both the faculty and student members of the Search Committee were impressed by her energy, vitality, vision and strong personal integrity. She is ideally suited to head our Ivan Allen College as the place where the humanities, social sciences and technology most closely converge."

Rosser has researched and published extensively on topics related to women in science fields. Her most recent book, *Re-Engineering Female Friendly Science*, was published by Teachers College Press at Columbia University in 1997. She has served on several editorial

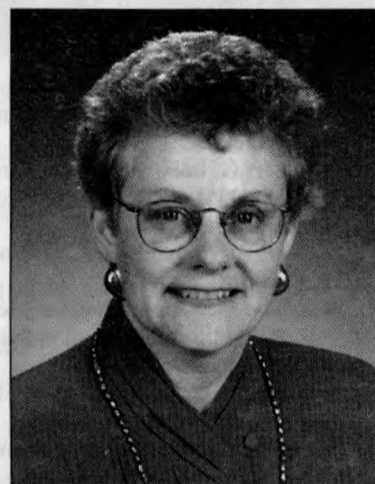
boards and currently serves on the editorial boards of the *National Women's Studies Association Journal* and *Women's Studies Quarterly*. She has held several grants from the National Science Foundation,

including "A USC System Model for Transformation of Science and Math Teaching to Reach Women in Varied Campus Settings" and "POWRE Workshop."

Rosser received her doctoral degree in zoology from the University of Wisconsin-Madison in 1973. She earned both her undergraduate and master's degrees from the University of Wisconsin-Madison as well.

The Search Committee included at least one representative from each school in the Ivan Allen College and three students.

"Dean Rosser is a nationally distinguished scholar with a strong foundation in the sciences and science education," said Thomas "Danny" Boston, head of the Search Committee and professor of economics. "Her science background allows her to communicate very easily with the deans and administrators of the science and engineering programs at Tech, and she easily bridges the gaps between science, engineering, social sciences and humanities."



Sue Rosser is the first woman to serve as dean of an academic college in Georgia Tech's history. Rosser begins her new position in the Ivan Allen College in July.

"She is ideally suited to head our Ivan Allen College as the place where the humanities, social sciences and technology most closely converge."

Mike Thomas,
Provost

Rankings show Tech steadily rising in national prestige

The most widely cited rankings of graduate education were released last week, and Georgia Tech continues to rise in status.

U.S. News & World Report assessed graduate education in eight general areas. Georgia Tech offers programs in four of those areas—business, computing, engineering and sciences—and, overall, three of Georgia Tech's colleges were nationally ranked. Tech's flagship College of Engineering moved up one slot to third nationally; the College of Computing was ranked 13th; and the DuPree College of Management was ranked 33rd.

Individual schools within Georgia Tech's colleges also ranked highly. In the College of Engineering, the School of Industrial and Systems Engineering was the top ranked program in the nation for the ninth year in a row. Other highly rated engineering programs included: Aerospace—5th; Electrical—7th; Mechanical—7th; Biomedical—8th; Civil—8th; and Environmental—8th. In the College of Computing, ranked 13th overall and up from 18th in 1996, top ranked programs include: Graphics and User Interaction—4th; and Databases—7th. In the College of

Sciences, the non-linear dynamics/chaos program within the School of Physics again was ranked in the nation's top 10 (8th).

"I'm very pleased that the impressive work of our faculty and students is so highly regarded at the national level," said President Wayne Clough, "and I'm particularly pleased that one of the nation's most unique programs, our joint program with Emory University in biomedical engineering, was ranked among the nation's finest."

"Graduate education is extremely important as we continue to transition to a high-tech, information-based economy," said Clough, "and the work conducted on this campus plays an important role for the state of Georgia and the nation as a whole. If you look at where we're highly ranked—basic science, biotechnology, business, computing and engineering—you see how well positioned these programs are for the future."

The rankings by *U.S. News & World Report* have been highly controversial over the years. Variables used in determining the rankings have changed on a yearly basis. Academics charge that making fine distinctions between universities based on decimal point differences is highly misleading and is

intended more to market the magazine and related products than to intelligently offer guidance on the best education. Nevertheless, rankings do make a difference to prospective students, faculty and the institutions themselves. The semi-annual release of rankings at the undergraduate and graduate levels is accompanied by considerable discussion and dissection of the data.

"It's important not to try to put too fine a point on these things," cautioned Clough. "For instance, the distinction between being the number one and number three ranked colleges of engineering is pretty difficult to assess in scientific terms. But what pleases me about the 1999 rankings is the almost across-the-board improvement that Georgia Tech continues to show. Whatever individual number you care to assign to this program or that, these rankings are a sign that Georgia Tech is among the very finest research universities in the nation, and we continue to get even better. I'm very proud of our faculty, our students and our staff for keeping our trajectory pointed in the right direction."

National Academy of Engineering honors Carter and Giddens

Victor Rogers
Institute Communications and Public Affairs

The career paths of Melvin W. Carter and Don P. Giddens first crossed in the '70s. Carter was director of Georgia Tech's Bioengineering Center, and Giddens was an aerospace engineering faculty member with a strong interest in bioengineering. Later, Giddens followed Carter as director of the Bioengineering Center, and Carter became the Neely Professor in Tech's Nuclear Engineering and Health Physics Program.

Today, Carter is the Neely Professor Emeritus and an international radiation protection consultant. Giddens is the Lawrence L. Gellerstedt Jr. Chair in Bioengineering and chair of the Georgia

Tech/Emory Department of Biomedical Engineering. Their paths cross again as both are selected for membership in the National Academy of Engineering (NAE), one of the highest professional distinctions accorded an engineer.

"Election into the National Academy of Engineering represents the acknowledgement by your peers of extraordinary achievements and contributions to the engineering field," said NAE President William A. Wulf. The organization has 1,984 U.S. members and 154 foreign associates. Members are elected by their peers, drawn from all engineering disciplines and include leading engineers from industry, academia, government and other institutions.

The NAE honors Carter for leadership and teaching in radiation protection, health physics, and public health standards and practices. From 1951 to 1972, Carter worked with the U.S. Public Health Service and the U.S. Environmental Protection Agency, protecting the public from fallout resulting from the testing of nuclear devices. At Georgia Tech, Carter was the first director of the Office of Interdisciplinary Programs. He also

was director of Tech's Bioengineering Center and a professor of nuclear engineering, spending about 16 years teaching.

"One aspect of teaching I particularly liked was running into for-

mer students at professional meetings," Carter said. "It's always a pleasure to see them presenting research papers and getting attention. It's quite a sense of gratification."

Carter said, "I'm grateful and pleased that Georgia Tech has been and is an outstanding place to receive a high-quality education and to develop and nurture a process for problem solving and resolution. It helps define a unique and effective lifestyle."

The NAE recognizes Giddens for contributions to the understanding of the ultrasound and fluid mechanics of arteriosclerosis, and enhancing academic bioengineering education. In 1987, he initiated the Emory-Georgia Tech Biomedical Technology Research Center. After a five-year tenure as dean of engineering at The Johns Hopkins University,

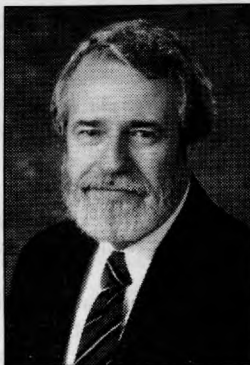
Giddens returned to Georgia Tech in 1997 to chair the Georgia Tech/Emory Department of Biomedical Engineering.

"Being elected to the NAE is one of the highest honors for an engineer," said Giddens. "From a personal standpoint, it is a happy occasion as it signifies recognition for a lifetime of work, but it also implies an obligation to 'give back' to society through service to the profession. I am very proud to join the other NAE members from Georgia Tech. Our increasing numbers are but one demonstration of the environment that Tech has created for attracting and developing faculty leadership."

The National Academy of Engineering was founded in 1964 to advance engineering and technology. It conducts activities jointly with the National Academy of Sciences. The NAE is a private, independent nonprofit institution that serves the nation in two broad ways. It acts as adviser to the federal government, and, through its independent programs, provides a channel for the advancement of engineering and technology as benefits humanity.



Melvin W. Carter



Don P. Giddens

Georgia Tech's NAE members

The election of Carter and Giddens brings Tech's number of NAE members to 16. Other members are:

- Satya N. Atluri, School of Aerospace Engineering
- President G. Wayne Clough
- Charles A. Eckert, School of Chemical Engineering
- Ellis L. Johnson, School of Industrial and Systems Engineering
- Robert G. Loewy, School of Aerospace Engineering
- James D. Meindl, School of Electrical and Computer Engineering
- George L. Nemhauser, School of Industrial and Systems Engineering
- Robert M. Nerem, School of Mechanical Engineering
- H. Donald Ratliff, School of Industrial and Systems Engineering
- Ronald W. Schafer, School of Electrical and Computer Engineering
- Arnold Stancell, School of Chemical Engineering
- Rao R. Tummala, School of Electrical and Computer Engineering
- Ward O. Winer, School of Mechanical Engineering
- Ben T. Zinn, School of Aerospace Engineering and the School of Mechanical Engineering.

Georgia Tech

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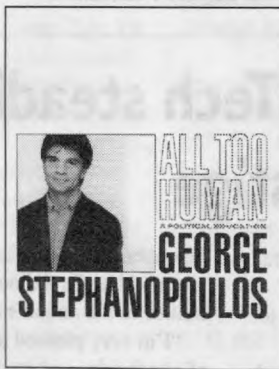
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Atlanta, Georgia 30332-0181

Georgia Tech is a unit of the University System of Georgia.

Off the bookshelf

March 31

George Stephanopoulos, one-time senior advisor to President Clinton and key strategist for both Clinton presidential campaigns, will lecture, conduct a Q&A and sign his new book, *All Too Human: A Political Education* (\$27.95), from 1:30 - 3 p.m. in the Student Center Ballroom.



April 14

Astronaut Eugene Cernan will visit the Bookstore for a lecture and Q&A starting at 3:30 p.m. He will also sign his new book, *Last Man on the Moon* (\$24.95). Cernan's career spanned the entire Apollo program, from a fire that killed three of his comrades on Apollo I to leaving man's last footprint on the moon as commander of Apollo 17.

For more information or to reserve a copy of either of the books mentioned, call 894-3818 or e-mail gigi.weinrich@bks.gatech.edu.

Did you know

Georgia Tech Business Forum

The Georgia Tech Business Forum is a new initiative on campus sponsored by Alpha Kappa Psi Professional Business Fraternity and the DuPree College of Management. The event, to be held April 10 from 9 a.m. - 5 p.m. at the Robert Ferst Center for the Arts, is open to all students, faculty and staff. Participants will learn how to manage their own business, how to deal with the effect of technology on information management and how companies perform in the international marketplace. Panel discussions on entrepreneurship, technology management and the international marketplace will be led by College of Management professors Patricia McDougall, Michael Smith and John McIntyre respectively. The forum also includes a business etiquette luncheon. The day will close as 15 companies conduct information sessions in the Instructional Center. Attendees may submit their resumes to these companies for full-time, part-time, co-op, and internship opportunities. For more information, see the Web, at www.gtbf.gatech.edu.

Spring Break Camp

City Link's Spring Break Camp will be held April 5-9. The camp is open to all children of Georgia Tech faculty and staff. Tuition is \$100 for the week or \$20 per day. Activities include a scavenger hunt, a hula-hoop marathon, bowling, lunch at Johnny Rockets and a sock hop. For a registration packet, contact 894-3344. For reservations, call Michele Cole-Jones, 525-0097. City Link provides back-up childcare designed for occasional use when regular childcare arrangements are unavailable.

Continuing Education Units

Part of Georgia Tech's annual state funding is determined by the number of Continuing Education Units (CEUs) reported. If your conference is administered by a professional association, you can help Georgia Tech by reporting your CEUs. Simply provide the Continuing Education Department with a participant roster, agenda and brochure, and they will calculate and report the CEUs. For more information, contact Diana Turner, 894-8571.



Spotlight

Meet Janice Rogers

Full name: Janice P. Rogers

Age: 49

Occupation: Director, Administration, Georgia Tech Research Institute

Current projects and/or research: At GTRI, my office has oversight for communications, human resource issues and research property management.

Years at Tech: I started to work at the Engineering Experiment Station (now GTRI) in July 1976. My entire career has been with GTRI.

Education: Kennesaw College

Marital status: Married for eight years to Bill Rogers. Bill also works at GTRI and is laboratory director for the Electronic Systems Laboratory.

Children: daughter Brandi, 28; stepdaughter Barbara, 29; stepson Rusty, 25; two grandchildren—Connor, 3 and Sara, 1.

Pets: My poodle, Tetley (age 18), recently died; this is the first time in my life I have not had a dog.

The last book I read, and enjoyed, was: I am currently reading *Songs in Ordinary Time* by Mary McGarry Morris. It is about a divorced mother's struggles to raise her three children in a small town in the 1950s.

One CD in my stereo is: the soundtrack from *Les Miserables*—absolutely the most beautiful and inspiring music I've ever heard.

My ideal weekend would include: sunshine, warm weather, a good movie and dining out. Or possibly all of the above plus a road trip to Columbia, S.C., to see the University of South Carolina Gamecocks play football. (My husband is a graduate of USC).

What brought you to Georgia Tech? I am a native Atlantan, so I was very familiar with Georgia Tech when I began my job search.

One thing I would like to improve about Georgia Tech is: The method by which we gather information that we need to do our jobs well; there is so much information we must sort through each day, and it is constantly changing.

One job I had that is not on my resume: During my summers in high school, I worked at a gas station pumping gas.



Photo by Stanley Leary, Institute Communications and Public Affairs

Tech researchers seek ways to enhance security of electronic commerce

Jane Sanders
Research News and Publications

While the security of the average consumer's online transactions grabs the public's attention, researchers at Georgia Tech are studying electronic commerce with more far-reaching consequences.

"The largest chunk of electronic commerce, an estimated \$800 billion a year by 2003, is conducted business to business," said

Blaine Burnham, director of the Georgia Tech Information Security Center (GTISC).

"That's where the consequences of information system failure are highest and where GTISC can make the largest contributions."

Burnham believes business-to-business electronic commerce deserves the attention of researchers because breaches in its information security could greatly affect everything from airline and rail travel to power generation to manufacturing. And the same technologies that affect security of business-to-business online transactions also apply to the consumer world.

"As businesses become more reliant on electronic commerce, they are becoming very susceptible to failure in their information systems," he said. "These disruptions could have a fairly significant effect."

For example, manufacturers adopting lean manufacturing practices are moving away from warehousing large stocks of parts. They order parts electronically for "just in time" delivery to assembly lines. Disruption of the information system would halt assembly lines and cost factories millions of dollars.

"Historically, information security

meant to protect and confine information," Burnham said. "Now, the emphasis is on making sure the information is correct, or authentic, and timely."

GTISC researchers are addressing technical issues related to this shift in emphasis, developing programs to detect external attacks and manage the tradeoff between system performance and security.

"We want to make information systems more reliable," Burnham said. "They must be more robust and able to deal with malicious, as well as accidental, disruptions."

Tradeoffs must be made between information security needs and application performance. Security computations consume processing resources, affecting the performance of shared, collaborative, real-time and electronic commerce programs. As a result, host computers often cannot handle Internet applications that require high levels of security.

Karsten Schwan, a professor in the College of Computing, and Ph.D. student Phyllis Schneck have addressed the problem with adaptive security protocols that adjust to changes in security requirements and computing resources.

"Our mission is to address performance versus security tradeoffs by adapting to the constantly changing availability of computation and communication resources," Schneck said. She and Schwan conducted the research with Santosh Chokhani, president and CEO of CygnaCom Solutions, an information security company.

"We want to provide an online management of these resources over time," Schwan said. "The goal is to reduce overall risk by borrowing available security processing resources on one communication stream to 'lend' to other application streams that may be lacking."

Schwan and colleagues have developed a suite of dynamic authentication heuristics (exploratory problem-solving techniques) to help achieve high levels of security with scarce computation resources. The suite optimizes use of host computer resources, while providing appropriate levels of security and providing feedback to users when changes are made.

A Georgia Tech Research Corporation patent is pending on the suite. The technology will be licensed to a company that Schneck is starting.

Detecting external attacks

While internal attacks on information security are actually more widespread, the threat of external attacks by hackers is very real and quite complex.

"The individual creativity of attackers, the wide range of computer hardware and operating systems, and the ever-changing nature of the overall threat to targeted systems have contributed to the difficulty in identifying network system intrusions," said Jim Cannady, a research scientist at the Georgia Tech Research Institute.

Cannady is using the power and flexibility of artificial neural networks—which are capable of learning from their experiences—to detect both known and new types of external attacks. Neural networks

consist of collections of processing elements that are highly interconnected, each transforming a set of inputs to a set of desired outputs.

In a neural network demonstration project called SENTINEL, Cannady is developing an intrusion detection system that identifies not only previous types of attacks but also new ones—something current rule-based systems cannot do. The system gains experience with each effort so that it "learns" the characteristics of attacks. That should allow the system to eventually predict attacks and monitor activities, collecting information for responses to attacks and the prosecution of those behind them.

Campus

EVENTS

Arts/Culture

through April 9

Art of Andrew Chesler and Joseph Haroutunian. Chesler's free-form abstractions reminiscent of natural phenomena, such as tornadoes and night skies, serve as visual triggers for the subconscious. Haroutunian's oil on gessoed paper paintings look like maps of rough terrain, like the view from an airplane window. Richards and Westbrook Galleries, Robert Ferst Center for the Arts. Contact: 894-2787.

April 9

Concert pianist **Awadagin Pratt**. 8 p.m., Robert Ferst Center for the Arts. Tickets are \$32. For reservations, contact 894-9600.

Brown Bags/Lectures

March 29 - 30

Ashton Cary Lectures, hosted by the School of Chemical Engineering. Speaker: Professor John M. Prausnitz, University of California-Berkeley. March 29, 4 p.m., Van Leer (ECE) Auditorium, "Apollo, Prometheus and Hercules: Three Elements of Chemical Engineering Education." March 30, 11 a.m., Van Leer Auditorium, "Molecular Thermodynamics for Modern Chemical Technology." Contact: Brenda Mattox, 894-2867.

April 5

Phil Zimmerman, advocate of Internet civil liberties and author of PGP (Pretty Good Privacy), the de facto world standard for e-mail encryption. 2 p.m., Clary Theater, Bill Moore Student Success Center. Contact: Hans Klein, 894-2258 or hans.klein@pubpolicy.gatech.edu.

April 6

Woodruff Seminar Series, "Diagnostic Tools for Rotating Machinery Bearings, Seals and Rotor Systems: Overlooked Issues and New Opportunities," by William D. Marscher, Mechanical Solutions, Inc. 11 a.m. - noon, MRDC Building, Rm. 4211. Refreshments will be served at 10:30 a.m. Contact: Itzhak Green, igreen@sununo.me.gatech.edu or 894-6779.

April 9

Cognitive Science Brown Bag Series presents "Simulating Human Motion," by Jessica Hodgins. Contact: Susan Jackson, 894-5173 or susanj@cc.gatech.edu.

Courses/Workshops

April 8

"Straight Talk: A Primer on Award Administration," live satellite video conference sponsored by the National Council of University Research Administrators in cooperation with the Council on Governmental Relations. Learn the hows and whys of the administration of federal awards. 11 a.m. - 4:30 p.m., Centennial Research Building, Rm. 119. Contact: nadia.zitman@oca.gatech.edu or 894-6944.

April 26 - May 17

"Art of the 1980s and 1990s," four lectures by art historian, Joyce Medina, Ph.D. Mondays, 6:30 - 8 p.m., room and building TBA. Discount for Georgia Tech faculty, staff, students. Regular fee: \$60. Georgia Tech fee: \$30. Bring a friend for an additional \$20. To register, call 894-2400; cite course number Arch-162 (x23-995). Contact: 894-3880.

Miscellaneous

April 13

Career Fair for Georgia Employers. The fair specifically targets employers in Georgia who are looking for Tech students to fill full-time, co-op, or internship positions. All students are invited. 9 a.m. - 4 p.m., Alexander Memorial Coliseum Contact: Cindy (Meyer) Millirons, 894-3320 or cindy.millirons@coop.gatech.edu.

Editor's Note: Calendar items should be e-mailed to denise.noble@icpa.gatech.edu or faxed to The Whistle at 894-7214 at least 10 days prior to desired publication. For more information, contact 894-8324.

Classifieds



APPLIANCES

6-yr-old washer. Good condition, \$90. Will deliver for \$10. E-mail deborah.king@ee.gatech.edu.

AUTOMOBILES

1940 Chevy coupe. Restoration project. Rebuilt engine, many accessory parts. \$6,000. E-mail joene.owen@isye.gatech.edu.

1953 Chevrolet. Fully restored; outstanding condition. \$5,500. E-mail margaret.harrison@gtri.gatech.edu.

1985 Mercedes Benz 300D, 291K miles. All maintenance records. A.T. pwr sunroof, fm/am/tape, non smokers, no accidents. \$5,200 OBO. 770-463-1227.

1986 Lincoln Continental. 180K miles. All power and automatic. \$2,500. Call Carol York, 894-8048.

1987 Suzuki Samurai, 5-spd. convertible. New top, tires, brakes. Fm/cass. stereo, 4 speakers, low mileage. \$2,150. Contact fp16@prism.gatech.edu or 633-8475.

1988 Chevrolet Caprice estate wagon. 132K miles, loaded, garaged, one owner, runs great. \$2,950. Contact 894-4584.

1988 Chevy 1500. Dark blue, dual exhaust, 113K miles. New transmission and tires,

JVC stereo, tow package. \$6,100. Contact Cody King, 770-471-8175.

1988 Honda Accord LX. Needs some body work, excellent mechanicals. High mileage. Dependable. Best offer over \$1,000. Call George, 894-5505.

1989 Honda Civic hatchback, 84K miles, 4-spd, manual, a/c. \$2,500. Contact Michael Dowling, 894-3759 or michael.dowling@me.gatech.edu.

1990 Mercury Cougar XR-7 coupe, 2-dr, V8 5.0 liter, automatic, 80K miles, fully loaded, new tires and tune-up, power everything. \$3,500 firm. Call Barbara Totten, 894-7088.

1991 Toyota Camry, 4-dr, maroon, automatic, moon roof, 130K miles, new tires. Excellent condition. \$5,000. E-mail margaret.harrison@gtri.gatech.edu.

1992 Mazda Miata convertible, 5-spd, red, am/fm/tape, alloys, 80K miles, \$7,900 OBO. E-mail drew.mobley@gtrc.gatech.edu.

1994 Mazda 626, dark green, loaded (including sunroof), excellent condition, all maintenance records, 68K miles. Asking \$8,400. Call 770-719-0286.

1995 Chrysler Le Baron GTC convertible, white, auto, V-6, keyless entry, power everything, 53K miles, \$8,950. 770-434-2090 or bruce.spratt@business.gatech.edu.

1995 Toyota Previa DX/SC minivan. 50K miles, new tires, am/fm/CD/tape. Remote security, power everything, running boards, roof rack, \$16,500. 770-973-6834 or gail.giles@gtri.gatech.edu.

1998 Saturn SL2, blue, 4-dr, 5-spd, pwr everything, sunroof, security system, am/fm/cd. \$15,200. 385-0335 (day), 770-421-8402 (eve) or toddw@ece.gatech.edu.

FURNITURE

Heavy coffee table w/ two matching end tables, white wood w/ pastel shading. \$150 firm. Call 770-498-9103 after 7 p.m.

King size waterbed w/ mirrored headboard. 6 drawers, dark wood. \$175 OBO. E-mail deborah.king@ee.gatech.edu.

Crib bedding, etc. Jungle theme, comforter, sheet, bumpers, headboard, dust ruffle, lamp, diaper stacker, mobile, valence, wall hangings. See www.judis.com. \$225 for all. Catherine, 894-6048 or gholson@cc.gatech.edu.

REAL ESTATE

For sale: Real estate property shares in Jonesboro, Forest Park, Riverdale, \$500 minimum per share. Call Bobby, 770-478-3622.

For rent: 7/1/99 - 6/30/00. House in Garden Hills (Buckhead), furnished, 4 BR, 2 BA, deck, large yard. 10 min. to Tech. \$1,500/mo. 231-1301 (eve) or dieci@math.gatech.edu.

For rent: Split level home, 1/2 acre, Paulding County. 3BR, 2BA, fireplace, separate dining/family rooms, 2-car garage, deck. Avail. 6/1. \$975/mo. (plus deposit). 770-947-2953.

For rent: East Cobb brick home. 3BR, 2BA, hardwood floors, 2 fireplaces. No smokers/no pets. Call 770-447-4224 x8093.

For sale: townhouse, 3 BR, 2 1/2 BA, 1,600 sq ft, cedar wall, fireplace, new carpet and paint, 1/2 mile off Marietta Square, \$74,000. 770-528-7776 or 678-945-7058.

SPORTS/FITNESS/RECREATION

Nordic Trac cross-country ski machine. Like new, folds to fit anywhere. Instructions, heart monitor, training video. \$500 in stores, selling for only \$150, OBO. Call 367-9892.

MISCELLANEOUS

Drumkit: Pearl Export 5-piece 1996, \$615 OBO. Bass guitar amp: Crate B80XL, \$175 OBO. Bass guitar: Ibanez SR885LE 5-string Soundgear, \$230. Cymbals: Sabian 17" AA thin crash, \$70. Cymbals: Sabian 18" AA medium-thin crash, \$80. 770-612-3011.

Kenwood dual cassette deck, \$60. Tech graphic equalizer, \$20. Ampex 456 master tape reel. \$10. Fora video time base corrector, needs repair, \$50. Cream sofa, love seat, \$300. E-mail christopher.williams@conted.gatech.edu.

Baldwin piano, very good condition, \$950. Call 770-587-3452 or 894-9594.

Ericsson LX 100 digital PCS phone with standard battery, charger, car charger and leather case. \$100. Contact 894-8834 or alfie.meek@edi.gatech.edu.

Motorola 550 flip phone with leather cover/belt loop and AC car adaptor. \$60 OBO. Contact Bob, robert.rose@mirc.gatech.edu or 894-9405.

Editor's note: Faculty and staff may submit classified ads via e-mail to whistle.ads@icpa.gatech.edu or fax to Denise Noble at 894-7214. The deadline for submissions is 10 days prior to issue date. Ads run for a maximum of three weeks in the order in which they are received. For more information, call 894-8324.