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The WHISTLE



The Georgia Institute of Technology Faculty/Staff Newspaper Volume 23, No. 17 April 26, 1999

Tech and iXL team up to create electronic commerce center

Elizabeth Campell
Institute Communications and Public Affairs

The number of shoppers on the Internet has skyrocketed and with it the expectation that the electronic commerce industry will grow by nearly 400 percent in the next four years.

In order to prepare the e-commerce leaders of the future, Georgia Tech is moving rapidly into this arena by establishing a center in the DuPree College of Management that will help improve the electronic

commerce experience for consumers and businesses alike.

iXL Enterprises Inc., an Internet services company headquartered in Atlanta, has agreed to provide funding to establish the iXL Center for Electronic Commerce in the College. The interdisciplinary center will sponsor state-of-the-art research and education in the emerging field of electronic commerce and will draw from Georgia Tech resources across the campus, including the College of Computing and other research centers.

According to the Yankee Group, a Boston-based technology research firm, overall business-to-business electronic commerce will increase to \$541 billion in 2003 from \$138 billion in 1999. In addition to well known

Internet retail sites such as Amazon.com, evidence of growth in this area comes from news reports of companies such as UPS, Sears, Roebuck & Co., Home Depot and Delta Air Lines' recent announcements of new online sales capabilities.

"The DuPree College of Management offers both the technology and business expertise needed to develop ground-breaking solutions for the growing electronic commerce industry," said President Wayne Clough. "Georgia Tech is pleased that iXL has made this investment."

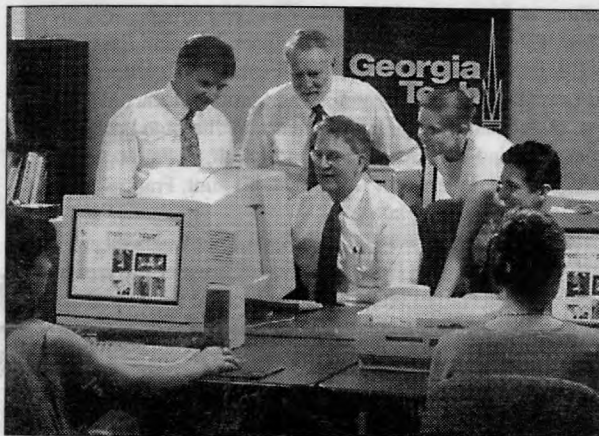
"Given the significant impact that technology and education on corporations today, closer linkages between business and education are vital," said Bert Ellis, chairman and CEO, iXL Enterprises Inc. "Ensuring that our young people are well equipped to meet the evolving needs of business in the Internet Age will be the focus of the iXL Center for E-Commerce at Georgia Tech."

iXL's initial donation is \$1 million, and the company intends to raise an additional \$4 million to permanently establish the Center for Electronic Commerce in its name. The donation will be spread over five years.

Gov. Roy Barnes, a strong proponent of growing high-tech industry in Georgia, praised the agreement as a win for Georgia Tech and the state of Georgia.

Lloyd Byars, acting dean, DuPree College of Management, named the management team for the iXL Center for Electronic Commerce. Anindya Datta will serve as director, and Sridhar Narasimhan and Fred Riggins will serve as associate directors of the new Center. Datta is responsible for external relations including fund raising and establishing an annual Electronic Commerce Forum. Narasimhan will be

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Gov. Roy Barnes (center) shows his support for the new iXL Center for Electronic Commerce at Georgia Tech along with President Wayne Clough and Bert Ellis (left), chairman and CEO, iXL Enterprises Inc.

Tech offers first online master's degree in mechanical engineering

Victor Rogers
Institute Communications and Public Affairs

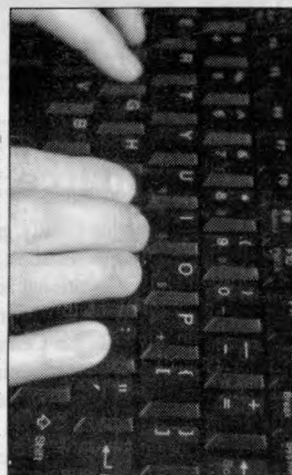
This fall, Georgia Tech will become the first university in the nation to offer a master's degree in mechanical engineering entirely via the Internet.

Faculty in the George W. Woodruff School of Mechanical Engineering will teach all courses in this pioneering program using state-of-the-art streaming audio and video technologies, synchronized slides, simulations and other multimedia. Internet instruction will include links to other Web-based materials and feature the power and capability of Georgia Tech's sophisticated computer network. Student-to-student and student-to-faculty interaction will occur using the bulletin board and threaded discussion capabilities of WebCT.

Students enrolled in Internet classes must meet the same admissions requirements, adhere to the same rigorous academic standards, and will earn the same degree as their on-campus counterparts.

"Georgia Tech's approach to an online degree will be different," said Joe DiGregorio, vice provost for Distance Learning, Continuing Education and Outreach. "No existing videotape will be used in the project. Faculty working with instructional technologists will produce video that is designed with Internet delivery in mind. Each lecture will be recorded in a controlled studio environment where light and audio levels can be accurately maintained. The goal is to allow instructors to focus completely on the presentation of the material with little or no distraction."

Several universities have recently introduced courses and degrees via the Internet. Most take existing video footage, digitize and encode it, and place it on a streaming video server. Tech's new approach, with



Internet instruction will include links to other Web-based materials and draw on the capabilities of Tech's computer network.

courses designed specifically for the Web, should significantly improve the quality of the instruction.

The two mechanical engineering courses under development for fall semester are "Manufacturing Processes and Systems," taught by Jon Colton, and "Linear Control Systems," taught by Nader Sadegh. Tech will develop three additional mechanical engineering courses to be offered during spring semester of 2000, and four more courses will be offered during fall semester of 2000.

The tuition for online courses will be the same as tuition for Tech's videotape-based courses. The cost is expected to be \$510 per semester hour or \$1,530 for a three credit-hour course.

It will take approximately three years to develop, place online, evaluate and refine 22 courses in the initial offering. The courses then will be available online as long as there is demand. Ten of the 22 courses will be required for a master's in mechanical engineering.

"The mechanical engineering program is the first in a series of Georgia Tech graduate degrees to be developed and offered online over

See Online degree, page 2

GEORGIA TECH LIBRARY

Dick Bass remembered

Jackie Nemeth
School of Electrical and Computer Engineering

Georgia Tech lost an excellent teacher and friend when Richard M. Bass, associate professor, School of Electrical and Computer Engineering (ECE), was killed in a car accident on April 14. He was 39.

"The simplest thing to say about Dick Bass is that he did the work he did because he loved it. He loved working with students, and he always hoped his work would help other people," said

Thomas G. Habetler, friend and ECE associate professor. "He was a warm and compassionate professor who was well liked by students and faculty, and he will be sorely missed."

Bass received his B.E.E. and M.S.E.E. in 1982 and 1983, respectively, from Georgia Tech and earned his Ph.D. from the University of Illinois at Urbana-Champaign in 1990.

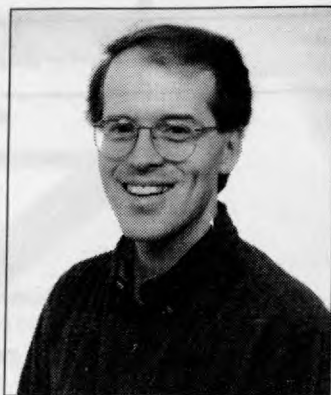
As a student, Bass designed adaptive aids for persons with disabilities, and after graduating with his Tech degrees, he was employed by the Veterans Administration Rehabilitation R&D Unit in Atlanta. While there, he helped develop an improved motor drive for powered wheelchairs, which was named in the *Design News* top 20 technical designs of 1983.

"Dick was in several of my classes when he was a student, in addition to being a faculty colleague," said

William E. Sayle, associate chair for undergraduate affairs in ECE. "He had some of the highest moral and ethical standards of anyone I have ever known."

In 1990, Bass returned to Tech as an assistant professor in electric power and was promoted to associate professor in 1997. During the 1996 Olympics, he and his students and colleagues studied the technologies and electrical distribution impacts of the Olympic Village electric vehicle (EV) transportation system. At the time of his death, he and Frank Lambert, senior research engineer at the National Electric Energy Testing, Research and Applications Center, were examining the effects of EV charging on customer homes for six utilities and the California Energy Commission.

In addition to his EV work, Bass was a member of the Georgia Tech Analog Consortium, where he welcomed the opportunity to work with industry and made valuable contributions, according to Phillip E. Allen, an ECE professor.



Richard M. Bass

Photo by Dayton Funk

Known for his exceptional teaching in power electronics, circuits, analog electronics, semiconductor devices and controls, Bass was most recently a leader in ECE's computer-enhanced education program, where he pioneered the use of streaming media in the classroom. In 1993, he received the Outstanding Electrical Engineering Teacher of the Year Award, which is determined by a majority vote of the senior class. Bass actively promoted good student-faculty relations, advised students in research projects and was a mentor to entering freshmen.

"Dick was one of the most student-oriented professors on campus," said Sayle. "He was a friendly person with a low-key sense of humor whom everyone liked, and he was the role model for genuinely nice, competent people."

A member of the National Society of Professional Engineers and a senior member of the Institute of Electrical and Electronics Engineers (IEEE), he was the founding chair of the Atlanta chapter of IEEE's Power Electronics Society and took a lead role in various IEEE conferences and symposia. He also taught continuing education courses in power electronic devices, circuits, and systems with several of his ECE colleagues.

In his spare time, he volunteered with Villa International, Habitat for Humanity, Hunger Program of Presbyterian Churches in Atlanta and a women's night shelter run by First Presbyterian Church; he also enjoyed singing and playing bluegrass music. "Dick was a good instrumentalist and the best natural harmony singer I have known," said Thomas P. Barnwell, friend and ECE professor. "He had a beautiful voice and an uncanny ability to 'find the missing part' and fill out the harmony. The music was always so much better when he was there."

Bass is survived by his wife, Catherine, and son, Austin Guillaume; his mother, Marion M. Bass, of Fairhope, Ala.; his father, John Richard Bass, and stepmother, Merriam Bass, of St. Simons Island, Ga.; sisters, Dorothy Fannin, of Fayetteville, Tenn., and Lois Greene, of Henderson, Tenn.; brother, Henry Wyman Bass, of Tallahassee, Fla.; grandparents, Willie Mae Bass, of Lyons, Ga., and Wyman and Marion McCall, of Fairhope; his uncle, John Henry Bass, of Lyons; and his aunt, Frances Morgan Bass, of Gulf Breeze, Fla.

Memorial services were held on April 25 at Oakhurst Presbyterian Church in Decatur. In lieu of flowers, the family requests that donations be made to the Richard Bass Fund at Oakhurst Presbyterian Church, P.O. Box 310, Decatur, GA 30031.

Georgia
Tech



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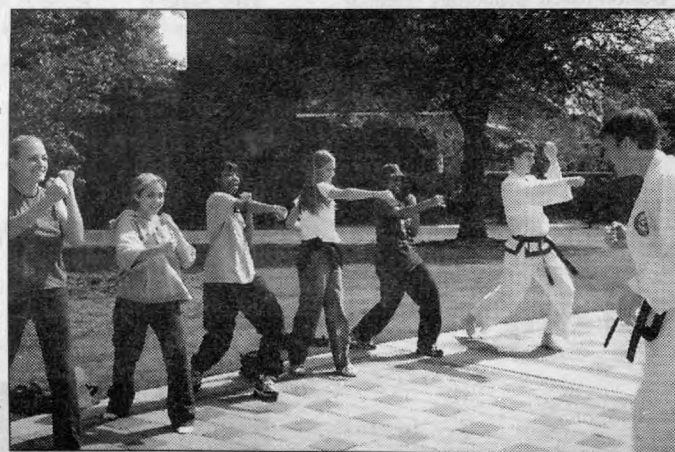


Photo by Denise Noble, Institute Communications and Public Affairs

Students practice a reverse punch during the self-defense workshop held on April 15 at the Campanile as part of Women's Awareness Week. Instructors David Skinner (right) and Roger Dickerson both recently graduated with master's degrees in electrical engineering and are black belts in Taekwon-do. The martial art of Taekwon-do focuses primarily on striking and kicking. The participants learned where to target an assailant (groin, eyes, throat and nose), and how to punch, kick and respond to attacks from the front and rear.

E-commerce, continued from page 1

responsible for the faculty grant program, internal publicity and the planned publication of a journal with Datta. Riggins will direct the educational activities of the center including an e-commerce certificate and executive education program.

"The mission of the Center is to be a world class research and teaching center examining the dynamics of electronic commerce," said Datta. "The Center will use multiple channels to disseminate research findings and educational materials. It will also be a valuable resource for the community of executives managing in electronic environments."

The Center will provide recommendations on how to best solve e-commerce challenges and problems using real-world businesses as subjects for research projects and giving graduate students hands-on, real-world experience. The Center will focus on six key areas: online marketing, strategic uses of business-to-business interorganizational systems, information security, information technology-enabled entrepreneurship, business intelligence and business models for Internet-based ventures. Examples include developing business-to-business strategies, maximizing consumer commerce and customer service systems, supply chain management, and managing and storing vast amounts of data.

Online degree, continued from page 1

the next several years," said Jean-Lou Chameau, dean of the College of Engineering. "Internet-based instruction is an important feature of the new Georgia Tech Regional Engineering Program (GTREP), a program designed to serve the engineering education needs of students in south and southeast Georgia," he said. Also, beginning in academic year 1999-2000, GTREP will offer online graduate courses in electrical engineering and environmental engineering.

"Online delivery will allow us to improve upon our stature as one of the very best providers of distance-learning master's degrees in mechanical engineering," said William Wepfer, professor and associate chair for Graduate Studies, Woodruff School of Mechanical Engineering. "This also will enable Georgia Tech to attract a greater share of young and talented engineers who some day will be the captains of leading high-tech organizations."

Georgia Tech will work with online students, videotape-based students, on-campus students and faculty to assess and evaluate the instructional quality of the program. Some on-campus students will be encouraged to take the online courses, thus providing an additional cohort in the assessment process.

The Georgia Statewide Desktop Distance Learning Network, the Sloan Foundation and Georgia Tech will provide funding for the online master's in mechanical engineering.

Percussion concert gets audience 'wired'

As part of the month-long celebration of Georgia Tech's Arts in the Village, "Wired: A Percussion Experience" will introduce the audience to a futuristic world of percussion performance art. The performance is scheduled for April 30 at 8 p.m., Robert

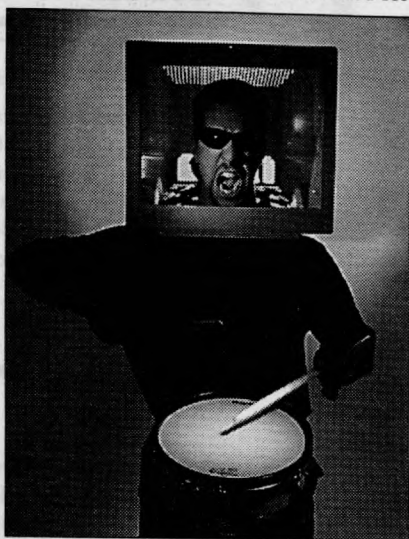


Photo by Stanley Leary, Institute Communications and Public Affairs

Tech student and percussionist Eric Miller illustrates the futuristic theme of the April 30 percussion concert. Each segment of the program will feature lighting, special effects or video.

Forst Center for the Arts.

"Variety is the key word to this year's performance. This concert will stimulate a lot of senses," said Chris Moore, coordinator of percussion studies, Music Department, College of Architecture. "The blend of both audio and visual will create a theatrical concert."

Each segment will feature lighting, special effects or video, including the performance of guest soloist Paul Wertico, a drummer for Pat Matheny. One portion of the concert features 32 performers playing drums to choreographed movements, while another portion features the Zendrum. The Zendrum looks like a guitar but has buttons instead of strings. The instrument, programmed to make the sounds of birds chirping,

piano or Top 40 songs, will be incorporated into half of the evening's performances.

Tickets are \$10 for the public, \$8.50 for faculty and staff, and \$5 for students. Arts in the Village continues through May 29. For more information, call 894-9600.

Notes from Career Services

Help in hiring student assistants

Students often contact the Career Services office when looking for a campus job. To have your student assistant positions posted on the Career Services Web site, contact Ernest Walker at 894-1988 or ernest.walker@success.gatech.edu.

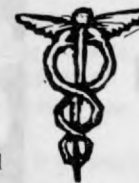
Covering classes

The Career Services Office is always seeking opportunities to talk with students about its services. Before canceling a class, contact Rosita Smith at 894-2553 or rosita.smith@success.gatech.edu, and a Career Services staff member will cover the class.



Tech, Emory offer MiniMedical School

Georgia Tech and Emory University's School of Medicine are offering "MiniMedical School 103: Biomedical Science and Engineering," a three-evening program hosted by Dr. Randy Martin of Emory's Medical School and WSB-Channel 2's featured medical expert. The program includes:



- April 27: **Overview of Biomedical Engineering**, featuring Georgia Tech's Don Giddens, Ajit Yoganathan and Bill Ditto (diagnosing and treating heart disease).
- May 4: **The Brain—Advances in Imaging and Computers Can Help Us Understand How the Brain Works**, with Gregory Berns, Emory, and Andy Smith, Georgia Tech.
- May 11: **Tissue Engineering**, with Robert Nerem and Bob Guldberg, Georgia Tech, and Elliott Chaikoff, Emory.

The cost is \$32 for Tech faculty, staff, alumni and students, and \$40 for the general public. To register call 727-6000. All participants receive a diploma and T-shirt for completing the program.

People

School of Public Policy

Barry Bozeman, director, State Data and Research Center, and professor, School of Public Policy, is the 1999 recipient of the American Society for Public Administration's Charles H. Levine Memorial Award for Excellence in Public Administration. The Levine Award recognizes public administration scholars who have demonstrated excellence in teaching, research and service. The award letter cited Bozeman's ground-breaking work in public organization theory, his leadership in public affairs doctoral education, and his service to the science and technology community.

College of Architecture

Robert M. Craig has been elected president of the Southeastern American Society for Eighteenth Century Studies, a multidisciplinary society of specialists in 18th century history, art, literature and other period studies. Craig will plan and chair SEASECS 2000—the Millennium Conference, to be held in Savannah in March 2000. He has served as second and then first vice president in recent years.

School of Earth and Atmospheric Sciences

The Basic Energy Sciences Division of the Department of Energy presented Professor **Patricia Dove** with the "Best University Research for a Sponsored Project Award" during the Interfacial Processes Symposium in February. Dove's sponsored research project, "Investigating the physical basis of biomineralization," studies the kinetics and thermodynamics of growth mechanisms to understand the processes by which organisms nucleate and grow minerals to fulfill specialized physiological functions.

Professor **Michael Bergin** was one of 60 young researchers selected nationwide to receive a Presidential Early Career Award for Scientists and Engineers. Awarded by President Clinton, these

Presidential Awards are the highest honor that the U.S. government can bestow upon young professionals at the outset of their independent research careers. The awards recognize young scientists and engineers whose research will broadly advance science and technology. Bergin's research focuses on understanding the link between pollutants that form small aerosol particles in the atmosphere and changes in the Earth's climate. Bergin holds a joint appointment in the Schools of Earth and Atmospheric Sciences, and Civil and Environmental Engineering.

Research News and Publications Office

John Toon, manager of the Research News and Publications Office, has been named to a three-year term on the advisory committee of the American Institute of Physics' Public Information Division. The American Institute of Physics is an umbrella organization providing services to 10 physics-related societies, including The American Physical Society, Optical Society of America, American Astronomical Society and Acoustical Society of America. The Public Information Division, based in College Park, Md., provides media relations and government relations services to the member societies.

School of Electrical and Computer Engineering

James D. Meindl, Joseph M. Pettit Chair in Microelectronics in the School of Electrical and Computer Engineering, has received the 1999 Semiconductor Industry Association (SIA) University Researcher Award, honoring his lifetime contributions to university research programs on semiconductor technology. Meindl also serves as director of Georgia Tech's Microelectronics Research Center. The SIA is the leading voice for the semiconductor industry.

Campus EVENTS

Arts/Culture

May 1 - 9

Culture Fest '99, celebrating Tech's cultural diversity. Contact: Linda Duckworth, linda.duckworth@intprog.gatech.edu or Debbie Harper, debbie.harper@intprog.gatech.edu.

• May 2-7: **International Film Festival**, 7 p.m., Student Center Theatre. May 2, *Hydrabad Blues* (India); May 3, *Mediterraneo* (Italy); May 4, *Central Station* (Brazil); May 5, *Stone Years* (Greece); May 6, *The Wedding Banquet* (China); May 7, *Hamam: The Turkish Bath* (Turkey).

• May 4: **International Food Fair**, 11:30 a.m. - 1 p.m., Student Center Ballroom.

• May 5: **Cultural Displays**, 10 a.m. - 3 p.m., Student Center, first and second floors.

• May 7: **Turkish Culture Break**, 3 - 5 p.m., Student Center Theatre.

• May 8: **Cultural Performance Night**, 7:30 p.m., Robert Ferst Center for the Arts.

Brown Bags/Lectures

April 30

Cognitive Science Brown Bag Series presents "**Recognizing Events in the Movements of Distributed Agents**," by Mark Devaney. Noon - 1 p.m., Student Center, Rm. 321. Contact: Susan Jackson, 894-7865 or susanj@cc.gatech.edu.

"**How Deep is Geology? How Deep is Plate Tectonics?**" by Dr. Paul Silver, Carnegie Institution of Washington. 3 - 4 p.m., Student Success Center Theater. Contact: Susan Ryan, 894-3893 or see <http://seismo.eas.gatech.edu/seminar.html>.

May 4

Engineering Psychology Colloquium Series presents "**Measuring the Judgmental Components of Situation Awareness**," by Alex Kirlik, School of Industrial and Systems Engineering. 4 - 5:30 p.m., Psychology Building, Rm. 249. Contact: Wendy Rogers, 894-6775 or wr43@prism.gatech.edu.

May 6

Callahan Lecture Series. Speaker: Dr. Hans Mark, director, Defense Research and Engineering, U.S. Department of Defense. Mark is chief technical advisor to the Secretary of Defense and the Under Secretary of Defense for Acquisition

and Technology on defense research, development, test and evaluation. 3:30 p.m., GCATT. Reception to follow. Reservations are required. Contact: Alan Gorowitz, alan.gorowitz@iac.gatech.edu.

GVU Brown Bag Series presents "**Expedition to Olduvai—The MS Word-Beast**," by Idris Hsi, College of Computing. Noon, Pettit Building (MiRC), Rm. 102. Contact: 894-4488 or gvu-info@gvu.gatech.edu or visit www.cc.gatech.edu/gvu/events/calendar.

Courses/Workshops

May 6

"**Submitting Protocols for Human and Animal Research**," Participants will learn how to submit a protocol to either the Institutional Review Board (IRB) or to the Institutional Animal Care and Use Committee (IACUC) for review. 10 - 11:30 a.m., Centennial Research Building, Rm. 238. To register, e-mail nadia.zitman@oca.gatech.edu or call 894-6944.

Miscellaneous

April 27

Town meeting and panel discussion, "**The Human Dimension of Semester Conversion: A New Pace for Students and Faculty**," sponsored by the Center for the Enhancement of Teaching and Learning. 4 - 5:30 p.m., Student Center Greenhouse (atrium area of food court). Topics: strategies for teaching and learning for five more weeks in the term; what students need to know about pursuing topics in greater depth; how faculty can evaluate effectiveness in this structure.

April 30 - May 1

NAMES Project—AIDS quilt. Panels of the NAMES Quilt will be on display throughout the day in the Student Center Ballroom. Contact: 894-2805.

Drama Camp, summer day camp for children ages 8 - 13, sponsored by the Robert Ferst Center for the Arts and the Academy Theatre. Session I: June 28 - July 23, 9 a.m. - 4 p.m. \$435. Session II: July 26 - August 13, 9 a.m. - 4 p.m., \$385. Each session includes day care services (8 a.m. - 6 p.m.) for an additional \$30/week. Contact: Lorenne Fey, 525-4111.

Classifieds

APPLIANCES

Whirlpool 16 cu. refrigerator, beige, like new, \$200 OBO. Kenmore dryer (electric), heavy duty, beige, \$100 OBO. Call 763-3004.

AUTOMOBILES

1940 Chevy coupe. Restoration project. Engine rebuilt. All parts included. \$4,000 OBO. E-mail joene.owen@isye.gatech.edu.

1983 BMW 320, 2-dr, white, sunroof, good running condition, \$1,000. Call 524-9050.

1984 Toyota Camry, 4-dr, red, auto, sunroof, 122K miles, PL, PD, good condition, a/c, fm/cass, \$1,000. Call 351-2291.

1988 Buick Skyhawk, teal blue, hatchback, 70K original miles, great running condition. \$1,500 OBO. Contact 209-7685.

1990 Toyota Corolla DX, gray. Auto, a/c, alarm, AM/FM/cassette, sunroof, clean, excellent condition. \$4,000 OBO. Call John, 277-8434 or 724-5045.

1991 Isuzu Rodeo. 166K miles, recently serviced, stick shift. \$5,000 OBO. Contact Letitia, ln28@prism.gatech.edu, 894-2525 (day) or 678-307-1586 (pager).

1992 Toyota Corolla DX, 4-dr, auto, sunroof, power steering, stereo/cassette w/ 4 speakers, split folding rear seat, floor mats, 81K miles. \$4,800. Call Bob, 894-3519.

1993 Plymouth Voyager SE. 73K miles, excellent condition. \$6,300 OBO. 770-552-8029.

1994 Toyota pickup truck, 89K miles, red, 2 wheel drive, bedliner, sliding rear window, bumper, tow wiring. \$8,000. Chris, 678-551-3545 (day), 256-4937 (eve) or chris.lowell@ceridian.com.

1994 Z28 red/black, camaro with T-tops. High performance, fully loaded, mint condition. Asking \$15,000. Serious inquiries only. 894-5352.

1998 Mitsubishi Eclipse. 5,000 miles. Silver, 5-spd, alarm, alloy wheels, AM/FM/cassette. \$15,000. Call 770-794-1584 after 6 p.m.

1998 Honda Accord LX, white. 22K miles (engine 200 miles; recent warranty repair). 5 CD changer, AM/FM/tape, cruise. Will have detailed for buyer. \$18,200 (retail \$18,700). Call 894-5677 (w) or 881-1040 (h).

COMPUTERS

Macintosh Powerbook 145 w/ Hewlett Packard Desk Writer printer. \$125 OBO. E-mail gt1631b@prism.gatech.edu.

Epson ES-1000C scanner, \$200; HP DeskJet 340 portable printer, \$125; Apple LaserWriter 360 postscript printer, \$200; 2 SyQuest EZ drives, four 135 MB cartridges. \$60. Contact 894-5303 (w); 885-9265 (h); or jim.frederick@ipst.edu.

FURNITURE

Rubbermaid desk, good condition, \$20. Call 763-3004 after 6 p.m.

Furniture: Sofa, love seat. \$150. Call 770-541-9699.

REAL ESTATE

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

Sublet: 2BR, 1BA apt., Ansley Park. Avail. 6/5-8/15 w/ possible extension. Hardwood floors, high ceilings, moldings, porch, separate living, dining rooms. No smokers, no pets. \$925/mo. Call 876-6562.

For sale: Eatonton, off I-20. Lakefront, 4 1/2 BR, full baths, LR/DR combo, fireplace, laundry, deck, 0.91 acres, completely decorated, fabricated home. \$101,000. Contact Warren Harper, 305-8460.

For sale: Int'l timeshare. Mainhouse, Freeport, Bahamas. \$2,500 (can also be financed). Warren Harper 305-8460.

For sale: Home in Greer, S.C., 20 min from Greenville, Spartanburg. 4BR, 2BA. Upgraded kitchen, 2-car garage, fireplace, deck, fenced backyard. Asking \$110K. Call John or Molette Bradley 864-801-9770.

SPORTS/FITNESS/RECREATION

Cyclists: Pair of mint condition, barely used pannier bags (bicycle saddle bags). \$100 OBO. Contact marsha.gill@ipst.edu or 231-3530.

Trek T-200 Tandem Bicycle, size 58/53 cm. Top-of-the-line road tandem w/ Deore XT components. Very low mileage. \$1,200. Contact frank.mewborn@edi.gatech.edu.

300 lb. Olympic weight set. Curl bar, dumbbell handles, weight bench. \$300 OBO. Call Bobby, 678-290-2519 or 678-445-6589.

MISCELLANEOUS

For sale: fridge w/ ice maker (\$100); small desk (\$50); TV stand w/ swivel top (\$20); TV stands (\$15); elec. stove (\$50); kitchen hutch (\$50). Contact 888-9455 or lionelusa@aol.com.

Wanted: Sitter for disabled mother, M-F, betw. Lenox and Brookhaven MARTA stations. \$7/hr. No exp. necessary. Call Kate, 894-6826 (w) or 846-8715 after 7 p.m.

Nikon 4004 SLR camera with 35-70 lens. \$275; Olympus Stylus Zoom DLX camera. \$80. Contact 894-5303 (w); 885-9265 (h); or jim.frederick@ipst.edu.

Palm Pilot Pro with stand, software, case. \$150. Roll-fed home fax machine, \$25. Patrick O'Heffernan, 894-6894.

Speakers. Two sets for home stereo: 1 set Sony; 1 set Boston Acoustics. Full size, sound great, look good. Sony set \$35; BA set \$75; all four \$100. Call 385-0521.

19" color TV in great shape. \$50 OBO. Contact Rose, 894-4500 or rosemarie.fratino@library.gatech.edu.