

FROM THE ARCHIVES



Photo by Rob Felt

The Academy Awards may be over, but it's always Oscar season in the Georgia Tech Library Archives and Records Management, which is home to two Academy Awards and an original script of *The Ten Commandments*. See more in this installation of Hidden Georgia Tech on page 4.

A Leap of Days

For this Leap Day edition of *The Whistle*, James Sowell, senior academic professional in the School of Physics and director of the Georgia Tech Observatory, explains how we came to add a day to the calendar every four years.

As of today, the calendar is back on track. Every four years, the addition of one day brings us closer to a more precise calculation of the Earth's orbit.



Getting to our current calendar system has been a complicated process, mostly because of three important celestial rotations: the Earth's spin, which gives us the day; the orbit of the Earth around the sun, which gives us the year; and the orbit of the moon around the Earth, the basis for the month.

The Romans developed one of the first calendars, which was primarily based on the moon's orbit and had 10 months. March was first. December was last. We know this because the root of "December" means "ten" in Latin. By 70 B.C., two more months had been added, and February was last.

During the reign of Julius Caesar (46 – 44 B.C.), the Egyptians were some of the best astronomers. They could see that the Earth's orbit was very close to 365.25 days. Caesar used their knowledge to set order to the calendar. He established that every fourth year would be a leap year, tacking one day onto the last month, February. In 45 B.C., he moved January to the beginning, thus establishing the Julian calendar. July was later named for him after his death.

In the late 1500s, astronomers under Pope Gregory XIII (for whom the modern Gregorian calendar is named) realized 365.25 days wasn't exactly right. The Earth's orbit is actually 365.242199 days. After hundreds of years using the Julian calendar, spring had begun moving into winter. The astronomers worked out a new formula to skip some leap days to get closer to an exact measurement. They also took 10 days out of the calendar in 1582 to get back on track.

The Gregorian calendar will work for a long time — at least for the next 3,300 years. Then a new calculation will be needed to get our calendar in sync with the Earth's orbit. Today's astronomers aren't sure what that will be, but we've decided to let future astronomers figure it out.

President to Host Spring Town Hall

Thursday, March 10

11 a.m. to noon

Room 152, Clough Commons

President G.P. "Bud" Peterson will make remarks and answer questions from faculty, staff, and students.

Questions may be submitted in advance to townhall@gatech.edu.



Instructors Wanted for Fall GT 1000 Courses

MARGARET TATE
INSTITUTE COMMUNICATIONS

Georgia Tech's First-Year Seminar is taught entirely by faculty and staff volunteers. The application deadline for this fall is March 28. If you've thought about going to the head of the class but would like to know more before applying, read on.

The primary goal of GT 1000 is to support the success and retention of first-year students. Each section of the 1-credit course — there are about 100 every fall and a handful in the spring — meets an hour a week and is taught by either a faculty member or a staff member who has earned a master's degree or higher. (Staff with bachelor's degrees may apply to co-teach.) Instructors are assisted by upper-class student volunteers known as team leaders (TLs), with one for approximately every five students.

Class sizes typically top out at 20, and there are three types of sections: major specific; cohort or special interest (such as Honors Program or undergraduate research); and interdisciplinary.

Most sections are led by staff members, noted Lacy Hodges, who serves as academic transition program manager. "Faculty have a teaching load already, but a lot of staff members might not have an opportunity to work closely with students," she said. "GT 1000 gives them that opportunity."

For faculty who teach GT 1000, the class offers a more intimate, discussion-based approach, Hodges said. "They can have a different relationship with the students," she said. "It can be a lot less intimidating than 'this is the person giving me the scary tests.'"

The curriculum is guided by specific learning outcomes — each student must write a resume, take a study skills self-assessment, explore career options, and complete a team presentation — but beyond that, there's "a good bit of leeway," Hodges said. "We really encourage instructors to kind of take the temperature of their class and see what the students are interested in."

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NEWS BRIEFS



Nominate for Awards, Donate Supplies for Earth Day

The Earth Day Committee is planning the 2016 event and is now accepting nominations for its annual awards through March 13. Donations for the Office Supply Exchange are also being accepted via pickup or dropoff. Learn more at

www.c.gatech.edu/earthdayawards



Judicial Process Reviewed, Sanctions Lifted

Following an independent review of Phi Delta Theta's suspension, President G.P. "Bud" Peterson announced that he will vacate sanctions imposed last fall. Learn more about the appeal and followup questions at

www.c.gatech.edu/pdt-appeal

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EVENTS

ARTS & CULTURE

March 3

The Guthman Musical Instrument Competition will host inventors from around the world who are creating the next musical instruments. The free event begins at 7 p.m. in the Ferst Center for the Arts.

www.guthman.gatech.edu

March 9

The Ferst Center for the Arts hosts MacArthur Fellow Michelle Dorrance and her award-winning tap dance company. The performance begins at 7:30 p.m.

www.arts.gatech.edu

Through March 25

The Stubbins Gallery hosts the architectural work of three Georgia Tech alumni who are supported by the French, Swiss, and German Consulates. The gallery is located in East Architecture and open weekdays from 8 a.m. to 5 p.m.

HEALTH & WELLNESS

March 9

The Office of Human Resources hosts a Be Well session on the Freedom From Smoking program, from noon to 1 p.m. in Room 320, Student Center.

www.c.gatech.edu/stopsmoking

TRAINING

March 2

The Center for the Enhancement of Teaching and Learning hosts a session on Teaching Transformations in Response to Student Feedback. Faculty members will share how they have used student feedback to transform their approach to teaching. The session takes place from noon to 1 p.m. in the Crescent Room, Student Center.

www.cetl.gatech.edu

SEMINARS & LECTURES

March 3-4

The Energy Club hosts its annual Energy Expo, which includes a keynote speaker, panel discussions, documentary screenings, and a research showcase.

www.energyexpo.gatech.edu

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Compliance Campaign Adds Two New Training Elements

RACHAEL POCKLINGTON
INSTITUTE COMMUNICATIONS

Each year, Georgia Tech employees are required to affirm their understanding of the Institute’s ethical standards and the conflict of interest policy, and certify all external activities and financial relationships.

This year, two additional components are being added to the Institute’s Compliance Campaign: cyber security and Haven for Faculty & Staff training. All faculty, staff, and student workers must complete all four compliance requirements between March 7 and April 8.

The cyber security training is part of an ongoing educational campaign from Georgia Tech’s Cyber Security team to help ensure that all employees — faculty, staff, and students —

are aware of best practices for safe computing.

As part of the yearly training requirements, Georgia Tech employees will have to participate in an online tutorial and confirm their understanding of the material covered. Employees should expect to spend 10 minutes completing both parts of the cyber security training. The Haven training is a one-time requirement for all current employees.

Visit “My Compliance Campaigns” at www.techworks.gatech.edu to learn more and submit the required information. Employees do not have to complete all four compliance requirements in one sitting; they can be completed in multiple sittings. It should take less than two hours to complete all of the training and compliance requirements.

Employees who do not comply by April 8 may receive a formal disciplinary notice from the Institute, and their access to Georgia Tech’s network may also be revoked. Questions can be submitted to ethics.ask@ohr.gatech.edu.

GT1000, from page 1

All new and returning GT 1000 instructors are required to take a day of training in the summer. As for time commitment, in addition to class time, there are generally several hours of weekly preparation involved.

Associate Vice Provost for Undergraduate Education Steven Girardot has taught GT 1000 since 2005 and previously directed the course. Over time, he said, instructors naturally become more familiar with the content and “flow” of the course, and some co-teach to share the workload. Still, he said, volunteers should anticipate and be prepared to manage the full range of instructional responsibilities.

“The Center for Academic Enrichment provides a lot of resources and lesson plans to reduce the administrative workload and make it as easy as possible, but at minimum, you’ve got to prepare lesson plans, facilitate class, work and meet with TLs, and grade assignments,” Girardot said. “It’s offered for a letter grade, so we do take that part seriously.”

Craig Womack, assistant dean and director of Undergraduate Programs for Scheller College of Business, was selected by students as GT 1000 Instructor of the Year in 2015. He has taught the class for five years, and not once has he considered giving it up.

“It’s an amazing experience,” he said. “Just that personal achievement you feel when you see where the students are when they start and where they finish.”

Just as teaching GT 1000 is voluntary, so is attendance. About 65 percent of incoming students take the course.

Some students sign up for the course with a degree of skepticism, Womack said. “They come in thinking maybe there’s not going to be much value added to their curriculum, but they quickly realize that there are some great takeaways.”

Did You Know?

GT 1000 has been around in one form or another for 30 years now. At first, it was a non-credit course called Freshman Seminar.

In 1989, it became a 2-credit course called Psych 1010: Psychology of Adjustment to College Life.

In 1999, with the transition to semesters, it became a 1-credit course called Psych 1000: Adjustment to College Life.

In 2004, it was renamed GT 1000: Freshman Seminar (since changed to First-Year Seminar), and its six core components were defined: University Culture; Career and Major Exploration; Time Management and Academic Success Skills; Leadership, Community Service, and Involvement Opportunities; Resume Writing; and Team Building and Presentation Skills.

Learn more at www.gt1000.gatech.edu.



Photo Courtesy of Craig Womack

Craig Womack accepts the 2015 GT 1000 Instructor of the Year Award. He calls teaching the course “an amazing experience.”

HR UPDATES

Education Support Leave

Georgia Tech Human Resources has made it easier for employees to use the new Education Support Leave (ESL) benefit. ESL was established by the University System of Georgia in 2015 to provide an opportunity for full-time, regular employees to be involved in activities that promote education by providing eight hours of paid leave per calendar year for that specific purpose. Activities that promote education in Georgia may include:

- Attending parent/teacher conferences.
- Participating in classroom activities, such as reading to a class or presenting on career day.
- Tutoring students without receiving compensation.
- Proctoring examinations.
- Attending award and recognition ceremonies or graduation exercises.
- Participating in field day activities or chaperoning field trips.
- Attending open house functions.

To use ESL, employees must have prior approval of their immediate supervisor. The time can be reported through TimeOut (monthly) or by using time code “ESL” (biweekly).

View the Education Support Leave policy at www.c.gatech.edu/esl.

Performance Review Process Underway

Performance evaluations must be completed and returned to Georgia Tech Human Resources by Friday, March 11. Institute policy requires that all employees be reviewed at least once every 12-month period. These conversations are important for employee development, advancement, and success at Georgia Tech. The process should involve a collaborative discussion to evaluate performance and establish 2016 goals. Learn more at www.ohr.gatech.edu/performance.

Summer Camp Resource Guide

Available exclusively for employees, the summer camp resource guide provides access to an online database of nearly 1,000 camps in the Atlanta area. Set specific guidelines to streamline your search, and find what fits best for your family. The guide is available from March 15 to June 30 at www.ohr.gatech.edu/summercamps.

20 Years Later

Did you work at Georgia Tech during the 1996 Olympic Games, or do you have memories of attending them?

Share them with us for a celebratory feature this summer by emailing editor@comm.gatech.edu.



Volunteers Wanted for Faculty Governance, Staff Council

KRISTEN BAILEY
INSTITUTE COMMUNICATIONS

No matter your role on campus, there are opportunities to get involved in shaping life at Tech.

Both Faculty Governance and Staff Council are looking for volunteers to serve on a number of committees.

Staff

The Staff Council is looking to fill positions on all five of its standing committees, covering the areas of campus physical environment; communication; compensation and benefits; employee engagement; and employee health and well-being.

Interested Georgia Tech staff members should apply online by Friday, March 4.

To be qualified to serve, staff should:

- Be a full-time or part-time (at least 20 hours per week) staff member.
- Have completed six months of service to Georgia Tech as of March 4, 2016.
- Be employed with an eligible staff title. (The following staff titles are ineligible to serve on the Council and thereby ineligible to serve on committees: Institute president, executive vice presidents, provost, vice presidents, associate vice presidents, dean of students, academic faculty, research faculty, and retirees.)
- Have support of their supervisor.
- Be able to spend three to five hours per month on committee work.

Learn more about the work of the Staff Council committees at www.staffcouncil.gatech.edu/committees.

Faculty

The Faculty Governance opportunities are divided based on faculty position and are available in the following areas:

Faculty Executive Board (drawn from Faculty Senate only)

- Positions open in College of Computing, College of Engineering, College of Sciences, and Central Administration.

Faculty Standing Committees

- Faculty benefits
- Faculty honors
- Faculty status and grievance
- Welfare and security

Academic Faculty Senate

- Services and central administration

Academic Faculty Standing Committees

- Institute Undergraduate Curriculum Committee (openings for College of Computing, College of Engineering, College of Sciences, and Ivan Allen College of Liberal Arts representation)
- Institute Graduate Curriculum Committee (openings for College of Architecture, College of Computing, College of Engineering, and Ivan Allen College of Liberal Arts representation)
- Student regulations
- Student academic and financial affairs
- Student activities
- Student grievance and appeals
- Student honor
- Student computer ownership
- Academic integrity

For questions and to nominate someone (self-nominations included) to one of these positions, contact George Riley at riley@ece.gatech.edu.

FACULTY AND STAFF ACHIEVEMENTS

Assistant professors **Chloe Arson** (civil and environmental engineering), **Phanish Suryanarayana** (civil and environmental engineering), and **Alejandro Toriello** (industrial and systems engineering) earned National Science Foundation (NSF) CAREER Awards. This is the NSF's most prestigious award for junior faculty.

Nazanin Bassiri-Gharb, associate professor in the George W. Woodruff School of Mechanical Engineering, was elected as the president-elect of the Institute of Electrical and Electronics Engineers Ultrasonics, Ferroelectrics and Frequency Control Society.

Tamara Bogdanovic, assistant professor in the School of Physics, has been named a Cottrell Scholar. The award is given annually by the Research Corporation for Science Advancement to early career faculty in astronomy, chemistry, and physics.

John-Paul Clarke and **Marilyn J. Smith**, professors in the School of Aerospace Engineering, were named 2016 fellows of the American Institute of Aeronautics and Astronautics. **Clarke** also recently earned the Commander's Award for Public Service from the Army Science Board.

Faramarz Fekri and **Xiaoli Ma**, both professors in the School of Electrical and Computer Engineering, were elected as fellows of the Institute of Electrical and Electronics Engineers. Fekri was elected for contributions to coding theory and its applications, and Ma was elected for contributions to block transmissions over wireless fading channels.

H. Milton Stewart School of Industrial & Systems Engineering's **Nagi Gebrael** was appointed to a five-year term as Georgia Power Associate Professor, effective Jan. 1.

David Goldberg, assistant professor in the H. Milton Stewart School of Industrial & Systems Engineering, was appointed to the A. Russell Chandler III Assistant Professorship, effective Feb. 15.

Juan McGruder, director of development for the Ivan Allen College of Liberal Arts, was elected president of the 2016 board of directors for the Association of Fundraising Professionals Greater Atlanta Chapter.

Glaucino Paulino, professor in the School of Civil and Environmental Engineering, was elected to the Society of Engineering Science's board of directors.

Wayne Whiteman, director of the Office of Student Services and senior academic professional in the George W. Woodruff School of Mechanical Engineering, earned the Continuing Education Faculty Award from the University Professional and Continuing Education Association for his work teaching online courses through Coursera with Georgia Tech Professional Education.

EVENTS

March 8

The Office of the Executive Vice President for Research hosts guest speaker Holly J. Falk-Krzesinski, who will discuss team science and the importance of collaboration in STEM careers. The discussion takes place from 9 to 10:30 a.m. in President Suites C and D, Bill Moore Student Success Center.
www.c.gatech.edu/teamscience

March 9

Charles "Wick" Moorman is the spring 2016 speaker in the School of Civil and Environmental Engineering's Hyatt Distinguished Alumni Leadership Speaker Series. Moorman, BSCE 1975, retired as chairman and CEO of Norfolk Southern in late 2015. He started his railroad career in 1970 as a co-op student. The lecture takes place from 4 to 5 p.m. in the Seminar Room, Engineered Biosystems Building. RSVP at www.ce.gatech.edu/hyatt

March 10

The Career, Research, and Innovation Development Conference will feature discussions, panels, and competitions for graduate students and their research. The event takes place from 9 a.m. to 5:30 p.m. in the Student Center.
www.sga.gatech.edu/g/cride

MISCELLANEOUS

March 4

Georgia Tech Baseball hosts Western Carolina at 4 p.m. at Russ Chandler Stadium.
www.ramblinwreck.com

March 5

For the Kids hosts Dance Marathon, a fundraiser for Children's Miracle Network and Children's Healthcare of Atlanta, from noon to 10 p.m. in the Student Center Ballroom.
www.forthekidsgt.com

March 5

Georgia Tech Men's Basketball hosts Pittsburgh at 2 p.m. at McCamish Pavilion.
www.ramblinwreck.com

March 12

Students, faculty, and staff come together to beautify the campus during Tech Beautification Day, from 8 a.m. to noon. The event begins at the Kessler Campanile.
www.gttbd.wordpress.com

April 30

The Georgia Tech Alumni Association hosts the 44th annual Pi Mile Road Race, one of the longest continually held 5Ks in Atlanta. The event begins at 7 a.m. and Tech employees receive discounted registration. Sign up at www.c.gatech.edu/pimile2016

For a more comprehensive listing of events, or to add your own, visit www.calendar.gatech.edu.

Faculty Senate Approves Code Changes, Minors, New Degree

KRISTEN BAILEY
INSTITUTE COMMUNICATIONS

At its winter meeting, the Faculty Senate discussed and approved several items related to student life at Tech.

The Student Regulations Committee presented proposed changes to the Student Code of Conduct based on a review that took place last year at the request of President G.P. "Bud" Peterson. These changes addressed definition and refinement of process, technical and editorial changes, case investigation, aggregation of unrelated cases, appellate rights, and challenges to hearing officer bias. All changes were approved. Read more about these changes at www.c.gatech.edu/conduct.

Susan Cozzens, vice provost for Graduate Education and Faculty Development, presented and recommended the adoption of Mutual Expectations between Research Advisors and Advisees. The document was drafted in collaboration with the Graduate Student Government Association (GSGA) to address potential issues of abuse and issues

raised by the President's Mental Health Task Force. It passed unanimously both in the Graduate Student Senate and Faculty Senate and will be put forth for incorporation into the Georgia Tech Catalog and elsewhere across campus.

Marc Canellas, president of GSGA, made a presentation on the Graduate Student Experience Survey that is now underway. The survey, which aims to assess all aspects of graduate student life at Georgia Tech, is open to all graduate students until Monday, March 7.

The Faculty Senate also approved action items from the Institute Undergraduate Curriculum Committee (IUCC):

- Minor modifications were made to curriculum requirements for the Denning Technology and Management Program in the Scheller College of Business. An additional minor option was added, called Technology and Business, to provide a business minor option designed for students in the College of Architecture, College of Sciences, and the Ivan Allen College of Liberal Arts.
- Two courses were added in the School of

City and Regional Planning as part of a new minor in Sustainable Cities, which was also approved. The minor is part of Serve-Learn-Sustain.

From the Institute Graduate Curriculum Committee (IGCC):

- A course addition in the School of Electrical and Computer Engineering, which now requires master's candidates to take a course in entrepreneurship.
- The Schools of Civil and Environmental Engineering, Biology, and Earth and Atmospheric Sciences aim to establish a new degree: Doctor of Philosophy in Ocean Science and Engineering. The program is designed to train the next generation of ocean experts and to expand on existing collaborations among these schools at Georgia Tech, as well as with other University System of Georgia institutions. The Board of Regents must also approve new degree programs.

Full presentations from both the IUCC and IGCC, as well as the other items covered in the Feb. 16 meeting, are available at www.facultygovernance.gatech.edu.



CLASSIFIEDS

REAL ESTATE/ ROOMMATES

For rent: 219 Gordon St., Oakhurst/ Decatur. 2BR/2BA craftsman bungalow. Walk to Oakhurst Village. Hardwood floors, updated kitchen and baths. Front and back screened porches. Large fenced yard. Refrigerator, dishwasher, washer/dryer connections. \$2,500/mo. Contact Butch, owner/agent: 770-630-6668.

For rent: Nice, clean 1BR/1BA apt. in Home Park, minutes from campus. Washer/dryer, new appliances, off-street parking spot. \$800/mo. Call 404-512-4618.

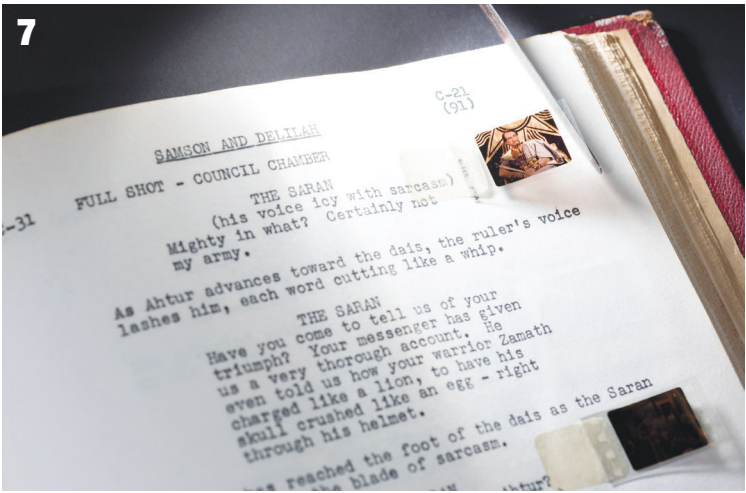
For rent: 3BR/2BA home on 0.7 acres inside perimeter near I-285, Hwy. 78, Decatur, and Emory. Renovated w/ hardwood floors, new appliances, washer/dryer. Druid Hills High School district. \$1,400/mo. Call 706-369-3848.

For rent: 2BR/1BA bungalow, minutes to Tech, quiet intown neighborhood (NW ATL), HW floors, renovated, central HVAC, DW, disposal, screened back porch, fenced back yard, W/D, carport, pets OK. \$975/mo. Contact: suzanne.bock@gatech.edu.



HIDDEN GEORGIA TECH THE LIBRARY ARCHIVES

Tech's Library Archives and Records Management, currently located on the lower floor of Crosland Tower but moving to the Neely Room once the Library renewal is underway, is just what one would expect — stacks of research material on a wide variety of subjects in an ultra-quiet setting. What is surprising is the assortment of artifacts: from a Picasso vase to movie scripts and a couple of Oscars. Take a look inside.



Front page: The two Oscars belonged to Y. (Young) Frank Freeman (EE 1910), executive vice president of Paramount Pictures, who produced *The Ten Commandments*. One is for humanitarian work and the other is for lifetime achievement. (1) This men's satin cheerleader jacket, worn by student John Walter Lay Jr. in 1948, is pictured with a cheerleader megaphone. (2) Professor Emeritus Bud Foote's science fiction collection includes books, magazines, and first edition fanzines. (3) This Picasso vase was a gift from Walter L. Bloom, assistant to the vice president for Academic Affairs, on July 16, 1968. The vase dates back to 1957. (4) This gold cardigan and RAT cap combination belonged to Elizabeth Herndon, one of the first two women to attend Tech in 1952. (5) This leather football helmet (circa 1936) was worn by James Middleton "Mit" Fitzsimons, who was captain of Tech's football team in 1936. (6) Student Robert D. Neill wore this hat to the 1943 Cotton Bowl. It bears the signatures of several team members. (7) The Library has scripts of *Samson and Delilah* (pictured) and *The Ten Commandments*, two of the projects that Freeman approved at Paramount.

See more photos from inside the Archives at www.c.gatech.edu/archives.

MISCELLANEOUS

For Sale: Schwinn Mesa mountain bike, 2007 model in excellent condition, only used a few times. Needs a tuneup and new tires. Can provide pictures upon request. Asking \$200. If interested, email rprogersjr@gmail.com for additional information.

Looking for a carpool partner for daily commute from East Cobb to Tech campus. Email bdespy@hotmail.com.

River Hawk B-60 boat and Torqeedo motor for sale. Riverhawk 15'3" B-60 2013 Camo. Torqeedo Germany Cruise Motor 2.0 R/T. Includes following accessories: Lowrance DSI Fish Finder, Dual Duracell batteries, guest on-board battery charger, trailer 9-2012, two installed folding fishing seats. Used only twice — like brand new! \$5,500. Call Joe, 404-849-1193.

Wanted: Family downhill ski equipment, to purchase or borrow. Preferred sizes: 95cm (kids); 165cm (women's); 185cm (men's). Boots: 11.5c (kids); 9.5 (women's); 10-11 (men's). Contact rustin.meyer@psych.gatech.edu.

Sofa and loveseat matching set. Sofa is 84"W and loveseat is 60"W. Both pieces recline at each end. Very good condition. No rips, tears, or stains. Pictures available upon request. Selling set for \$350. Contact Rita Brown, 770-928-7344 (home) or 678-360-7811 (cell).

Classic boat. 1966 Chris-Craft Sea Skiff, 38 ft., 13 ft. beam. Meticulously cared for. Kept in 50 ft. covered slip on Lake Hartwell. \$22,500. Contact John for photos: john.balsam@gtri.gatech.edu, 678-429-3252.

Looking for carpool partner: Commuting from Athens every Monday, Tuesday, Thursday, and Friday. Leave around 9 a.m. from Athens and 7 p.m. from Georgia Tech to avoid heavy traffic. Contact frandrewkr@gmail.com.

Ads run for at least three issues in the order in which they are received. Submit your 35-word-or-less ad to editor@comm.gatech.edu.