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The WHISTLE



The Georgia Institute of Technology

Faculty/Staff Newspaper Volume 20, No. 27

July 14, 1997

Tech alumna second woman to pilot U.S. space shuttle



An astronaut who earned a master's degree in aerospace engineering at Georgia Tech is back in orbit this month, just 84 days after her first shuttle mission was cut short by a mechanical failure.

Susan Still, second only to Eileen Collins who piloted a shuttle in 1995, kicked off her July 4 holiday aboard the orbiter Columbia. Her mission: to study ways to improve combustion, crystals and metals. Scientists on the 16-day flight are performing 33 lab experiments that were originally slated for the April mission.

NASA officials ended the April flight after only four days when a fuel cell malfunctioned aboard Columbia, the oldest orbiter in the fleet and the first to fly. The current mission marks the first time in 36 years of manned U.S. space flight in which the same crew flew together twice. It is also the shortest interval between flights for any astronauts.

Lieutenant Commander Still graduated from Georgia Tech in 1985 with an eye on the space program. She was commissioned in 1985 and selected to be a flight instructor in the TA-4J Skyhawk. She has logged over 2,000 flight hours in more than 30 different aircraft.

The Augusta, Ga. native said she wanted to be a pilot since age 16 when she climbed into the cockpit of a Cherokee Warrior.

Rhodes named to Georgia Tech Lorraine post

Dr. William Rhodes has been named to the position of Research director, or directeur de la Recherche, for Georgia Tech Lorraine, effective July 1.

Rhodes will report to Hans (Teddy) Püttgen, director of Georgia Tech Lorraine. He will work closely with Dr. Jean-Lou Chameau, vice provost for Research, respective school chairs, and various Georgia Tech Research Institute directors.

According to Püttgen, Rhodes is responsible for coordinating all research activities at the campus in Metz, France, and will act as liaison with the Atlanta campus.

"One of Bill Rhodes' most urgent priorities is the implementation of the joint laboratory program now being launched with the Centre National de la Recherche Scientifique (CNRS) at Georgia Tech Lorraine," Püttgen said. "In this activity he will build on the solid technical foundation established by Dr. Timothy Drabik, who after 10 quarters at GTL has decided to return to the Atlanta campus."

Rhodes joined the Tech faculty in 1971. He is a professor in the School of Electrical & Computer Engineering and serves as the director of the Georgia Tech Center for Optical Science and Engineering.

BOR approves joint public policy program

The Board of Regents last week approved a joint major in public policy between the Georgia Tech School of Public Policy and the Georgia State University School of Policy Studies.

According to Barry Bozeman, chair of Tech's School of Public Policy, "The new program has value not only as an innovative approach to cooperative program development, but also as a practical means of getting the most from the complementary resources. By joining Georgia State in the delivery of this curriculum, we now have as good a set of research-oriented public policy faculty as can be found in the South."

The program requires doctoral students to complete nine semester hours of course work through each university. Projected first-year enrollment is 12.

"Apart, we each have strong faculty and good niche programs," said Bozeman. "Together, we can compete with the best programs in the nation."

The BOR also approved a measure to allow Tech to establish a major in public policy under the existing bachelor of science degree. The program is intended to provide undergraduate students a technology-focused, policy-oriented education which will prepare them for careers in government, business or public service.



Would-be architects take dry run

T.J. Becker
Communications

Georgia Tech's College of Architecture has launched a new summer workshop for fledgling Frank Lloyd Wrights.

The Career Discovery Program in Architecture is open to high school juniors, seniors, graduates and college students contemplating a career in design. Eleven participants enrolled in this year's program, which ran through July 3.

Although career discovery workshops are not a new phenomenon, Georgia Tech is one of the few schools in the Southeast to host one for architecture. "Many students think they want to be architects, but aren't sure what is involved," observed John Kelly, director of the college's Architecture Program. In most high school curriculums, art or drafting classes are the closest brush that students have with architecture.

As a result, many misconceptions exist, said Charles Rudolph, an assistant professor of architecture and director of the workshop: "A lot of students have a Howard Roark image of architects—the individual genius who fights to have his vision expressed. That's not accurate. Unlike visual artists who work alone, architecture is very much a people profession. You have to deal with clients, consultants, lawyers, city officials, and bankers. Artistic vision is important, but you also must have analytical skills, people skills and an open mind about culture."

The three-week program was geared to be a hands-on, pragmatic look at the design profession. Morning sessions were devoted to guest speakers and field trips to architectural firms and construction sites. Afternoons were spent in the studio, drawing and making models. A final project required students to apply what they learned by designing an addition to a resort home in the North Georgia Mountains. The imaginary client, a retired professor, posed certain spatial challenges with her varied activities, which ran the gamut from art collecting to hang-gliding.

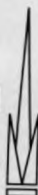
The workshop was reassuring for some participants, such as Susan Kennedy of Stone Mountain. An in-coming freshman to Tech's College of Architecture, Kennedy deemed the workshop "great experience" that reinforced her decision to study architecture. For a couple of participants, the opposite was true: they decided that architecture was not for them. "And, that's what the course was all about," said Rudolph.

The COA plans to make the summer career workshop an annual event, but will keep it small (about 25 students) because it is intended to be a studio class.



Would-be architect Susan Kennedy explores the design profession with Architecture professor Charles Rudolph during a three-week, hands-on Career Discovery Program. Eleven high school students participated.

**Georgia
Tech**



The Whistle

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All phone numbers listed in The Whistle are in the (404) area code unless otherwise noted.

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People in the News

School of Mathematics

Dr. Michael Lacey, a professor in the School of Mathematics at Georgia Tech, and Dr. Christoph Thiele of the University of Kiel, Germany, were awarded the 1996 Prix Salem. The prize committee cites their "remarkable work" on Calderon's bilinear Hilbert transform and the development of "a new method of phase plane analysis." The latter consists of methods of studying functions with sensitivity to their spatial and oscillatory behavior. The work for which they are recognized appeared in the Jan. 7, 1997 issue of the "Proceedings of the National Academy of Sciences."

The Salem prize, initiated in 1968, is awarded to young mathematicians for work of "exceptional merit" in areas of mathematics of interest to those of the late Raphael Salem. Dr. Salem specialized in the study and applications of Fourier series, a method of describing an arbitrary function as a sum of simpler functions with varying oscillations. The Prix Salem selection committee was composed of six renowned mathematicians from France and the U.S.

The award includes an invitation from Princeton University and the Institute for Advanced Study (IAS) to visit the IAS for a period of one month.

Lacey joined the faculty of Georgia Tech in September, 1996. He earned his Ph.D. at the University of Illinois at Urbana-Champaign and has taught and conducted research at Louisiana State University, the University of North Carolina at Chapel Hill, and Indiana University.

CAREER Awards

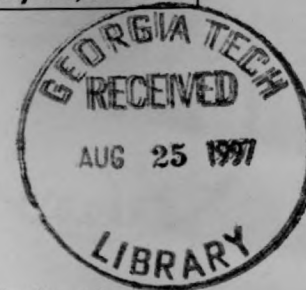
Assistant professors Rigoberto Hernandez, Dana Randall, and Li You, were recently awarded Faculty Early Career Development (CAREER) Awards from the National Science Foundation (NSF). CAREER awards range from \$200,000 to \$500,000 over a four- to five-year period.

Hernandez, School of Chemistry and Biochemistry, received the award in April for his research characterizing the time-dependent behavior of the polymerization process.

Randall, who holds a joint appointment in the School of Mathematics and the College of Computing, was honored for her research on the design of efficient approximation algorithms for counting and generating elements of a large set.

Li, School of Physics, earned the NSF CAREER award and a Young Investigator Program Award for his research into the area of light/matter interactions, particularly those involving ultra-cold (nano-kelvin temperature) atom gases and near-resonant photons.

Established in 1995, the CAREER program is designed to enable faculty scientists with four years' experience or less to establish their own research programs and emphasize the importance of integrating both research and teaching in scientists' academic careers.



Faculty announces '97-98 leadership

Each spring, members of Georgia Tech's faculty elect representatives to serve their respective colleges and units on the General Faculty and Academic Faculty standing committees. The major functions of each committee are to assemble and evaluate information relevant to its charges, to propose formulations of policy or procedures for consideration by the parent body, and to propose recommendations for action by the parent body. The following are the results from this year's election.

The 1997-98 standing committees of the General Faculty are:

Faculty Benefits Committee
James D. Higgins (GTRI)

Faculty Status & Grievance Committee
Prateen Desai (ME)
John Muzzy (CHE)

Academic Services Committee
Paul Ohme (CEISMC)
Joe Boland (CONT ED)

Welfare & Security Committee
Carole Moore (S. SERVICES)
R. Gary Parker (ISyE)

Faculty Honors Committee
Carol Colatrella (LCC)
Richard LeBlanc (COC)

Statutes Committee
John Dorsey (ECE)
Marc Smith (ME)

Public Relations Committee
James W. Cofer (GTRI)

The 1997-98 representatives for the standing committees of the Academic Faculty are:

Undergraduate Curriculum Committee
William Applebe (COC)

Gus Giebelhaus (HTS)
Betty Dowling (ARCH)

Graduate Committee
April Brown (ECE)
Edward R. Omiecinski (COC)
Jeff Jagoda (AE)
John VandeVate (ISyE)
Student Activities Committee
James Gole (PHYS)
Brent Carter (MSE)

Student Grievance & Appeal Committee
Ken Cunefare (ME)

Student Regulations Committee
Fred Andrew (MATH)
Alan Larson (ME)

Student Academic & Financial Affairs
David Collard (CHEM)
Miroslav Begovic (ECE)
Scott Wills (ECE)

Student Honor Committee
Paul Wine (CHEM)

For more information, visit the Georgia Tech Faculty Governance Web site at <http://smash.gatech.edu/archives/facinfo/>.

Tech volunteers brighten patients' holiday



From left: Tech students Mary Forster, Kendra Hiscox; Andrea Hoffer, program advisor and seven-year old Laura Armanios, daughter of Dr. Erian Armanios, Aerospace Engineering, decorate cards and letters for individuals spending their Fourth of July Holiday at Georgia Regional Hospital. The Card Making session was sponsored by the Community Services Center, an extension of Student Center Programs. To find out about upcoming outreach programs, call the office at 894-2002.

OIT seeks customer feedback

The Office of Information Technology (OIT) recently released results from its semiannual customer support survey, which measures service factors including timeliness, responsiveness and competency.

A total of 471 (or nearly 20 percent) of the 2,400 surveys sent were returned. Customer Support (CS) hopes the return rate increases when the survey is redistributed in the fall.

According to Linda Cabot, OIT's customer support director, the average rating on all questions was nearly 4.0 or better, based on a 1-5 scale.

"OIT is making every effort to provide better service, but we can only do so when we know what we are doing right and where we need to improve," Cabot said. "This is an opportunity for users to help us assess our performance."

All faculty, staff and students who have submitted service requests are eligible to participate in the survey.

Users may contact the Customer Support Center (CSC) by phone (894-7143), e-mail (support@oit.gatech.edu), or on the Internet at <http://www.gatech.edu/oit/oit.html>. CSC is located in room 140 of the Rich Information Technology Building.

Campus EVENTS

Courses/ Seminars

July 15

Career Services presents "Job Search Strategies for the '90s" from 11:00 a.m. - 12:00 p.m. in the Success Center Pres. Suite A*.

July 16

Career Services presents "How to Use the Career Library" from 3:00-4:00 p.m. Success Center Rm. 260.*

July 21

Career Services presents "Creating a Professional and Winning Resume" from 3:00-4:00p.m. Success Center Pres. Suite A.*

July 21

Career Services presents "Job Search Strategies for the '90s" from 3:00 - 4:00 p.m. in the Success Center, Presidential Suite A.*

* Career seminars are free of charge for faculty, staff and students. For more information. For more information, contact Career Services at 894-2550.

Miscellaneous

July 13

The SAC Special Events committee is sponsoring a **Eight-Ball Billiards Tournament** for faculty, staff and students. Men, women and co-rec players are invited. For more information, call 894-3987.

July 15

The Student Center Special Events Committee is sponsoring an hour of **FREE bowling** (shoes included) for all students, faculty and staff from 11:00 a.m. - 12:00 p.m. in the Student Center Rec Area. For more information, call 894-2805.

July 16

The Robert C. Williams American Museum of Papermaking kicks off "The Book Express," an exhibit of contemporary book arts, with an opening reception from 4:00 - 6:00 p.m. Faculty, staff, students and friends are invited. The museum is located at the Institute of Paper Technology and Science (500 10th street). For more information, call Melanie Lynch at 894-6663.

July 28

The Houser's Quarterly Racquetball Tournament is scheduled for July 28-29. All participants will receive a T-shirt, food and a chance to win great prizes. Men and women faculty, staff and students are eligible. The entry fee is \$10. To register, call 894-5437.

Ongoing

"Watercolors" by Jo Lackey will be on display through August 30 at the Bill Moore Student Success Center's Hall of Success. For more information, contact Robin Cubbage at 894-1953.

Summer Enrichment

July 27

The first of five "Familiarization and Adaptation to the Surroundings and Environs of Tech (FASET)" sessions is scheduled for July 27-28. The program is designed to allow incoming freshmen and their parents to meet Tech students, faculty, and staff, and acquaint themselves with the Tech environment. For more information, call 894 1945.

July 28

SummerScape (session II) runs July 28 -Aug. 8. Sponsored by CEISMC, Summerscape is designed for 6th and 7th grade students who would like to learn more about science, mathematics and technology. For more information, contact Donna Whitting at 894-0777 or donna.whiting@ceismc.gatech.edu.

Classifieds

APPLIANCES

JVC Compact VHS Camcorder, model GR-AX900/AX800. 12:1 optical power zoom lens with 120 power digital magnification. Only used twice. Camcorder, charger, battery, accessories, and instruction booklet. \$475 OBO. Contact 896-6119 or lee.zacarias@facilities.gatech.edu.

AUTOMOBILES

1986 Toyota Celica, automatic. 177,000 miles. New battery and exhaust system with lifetime warranty. Just tuned. \$900. Call Fred at 894-4233.

1984 Dodge Rampage pickup. 70,000 actual miles. New A/C. JVC/Pioneer Stereo. (Looks like a mini-El Camino with a cap.) Very useful around the house. Good gas mileage. Great shape. Make offer. First \$2,000 takes it home. Must sell fast. Contact bboyer@pop.ipst.edu, or call 897-3439 (H), or 894-6474 (W).

1985 VW Golf GL, 2 Dr, Clean, Great Transportation, Good condition, White, well Maintained, asking \$995. Call Roberto at 894-7111 or 770-808-4373.

1989 Chevy Silverado 4WD V8 350; Cap and Bedliner. Excellent condition 118K mi. AC, stereo/cassette, New alternator, water Pp. and starter \$7,500. Call (770) 591-5585 or 894-0338.

1992 Dodge Shadow ES Convertible. Emerald green with tan top/interior. Automatic, a/c, cas-

sette, power locks & windows, one owner, 62,000 miles. Asking \$7,300. Call 894-8086 (D) or 770-643-0296 (E) or e-mail wendy.jones@gtri.gatech.edu.

1995 Dodge Dakota, extended cab, forest green, A/C, cruise, bedliner, V6, 5-speed, 22,500 miles, \$12,250. Call 894-3046 or 881-1040.

Buick, Regal Gran Sport, 1991, AT, sunroof/moonroof, leather, silver/chrome & black, sharp!, 3.8L V6, 4 dr, excellent, 121k, \$6,995. neg. Call Paul at 894-5511

1985 Toyota Cressida, 130,000 mi. New transmission, tires, battery, and muffler. Good condition. \$1,500 OBO. Call 817-7570(H) or 894-6663(O).

1981 BMW 320i Good condition. Runs Well. 190k mi. AC, Stereo/cassette \$2,000. Call (770) 591-5585 or 894-0338.

1987 Honda Accord LX Sedan, 5-speed, great condition, high miles, original owner. \$2,495. Call 894-6344 or 297-0319.

COMPUTERS

"Boxed" Intel Pentium 150 MHz CPU. Factory Fan and Heatsink. 3 year Warranty from Intel. 3 Months old. New \$300. My price \$200. Contact 770-319-6120 24/HR or wt2@prism.gatech.edu

Zenith lap top computer, 286 dos system w/ carry-in case. 100 OBO. Christy 849-4474

Pen Plotter, E size, complete with software and vinyl knife-cutter (for signs), floor model. Only \$200. Call Steve at (770) 528-7662 or steve.price@gtri.gatech.edu.

FURNITURE

End table & coffee table, wood w/ glass top, \$100

each; This End Up stereo cabinet, solid wood w/ glass door, \$100; two end tables, light oak, \$25 each; Pair of bar stools, \$25; CD tower, 200 capacity, swivels, \$20. Call Mike at 894-5467 day, 770-951-1939 night, e-mail: mstamus@at.gtaa.gatech.edu

Shaker style oak dining room table and eight chairs. Trestle table 84"x 34". Web seat chairs. \$500 OBO. Call Lee at (770) 350-0919 or 894-2560.

California queen-sized waterbed mattress (60x84x12). Bought wrong size unknowingly, filled to use, drained and manufacturer will not take back. New at \$150; selling for \$100. Brookhaven area. E-mail judy.fitzpatrick@gtri or call 894-7249.

REAL ESTATE

Henry county. 3/2 ranch, 1/2 acre lot, many amenities, security system. 10 minutes from I-675. Convenient shopping. Price reduced. 92,500. Call Chris at 894-4474 or 770-981-5556

Stone Mtn. (Pine Lake): 3-bdrm home in Georgia's safest city. All appliances (inc. w/d, refr.) stay. Fenced back yard. New C/H/A \$95,000. Call 894-7053.

Tech professor looking for 1-bdrm. apartment, preferably in Morningside/ Ansley Park, starting sometime between July 1-Aug. 1. Call 894-5135.

Private 3-level home, 4-bdrms, 3 1/2-baths, vaulted master & great room, eat-in kitchen, guest suite, rec room; 3,700 sq ft, \$184,900, purchase with lease option. Just past Stone Mountain Park (45 min to Tech), call 894-9621 or 770-979-2395.

Lithonia, Beautiful vaulted ceiling greatroom, brick fireplace, lots of light, 4-bdrm., 2-bath, play-

room, study, workshop, wooded lot, lawn & veg. garden, 2

HVAC systems, much more!, \$99,950, no realtor, Paul at 894-5511.

MISCELLANEOUS

Hunting club members wanted. Twiggs County. Safety and environmentally conscious hunters only. Deer, turkey, hogs and small game. Call 770-794-9555 (H) or 894-8610 (O) or paul.thomas@oit.gatech.edu

New transplant looking for faculty/staff or mature grad. to share 2-3 brdm high rise in Midtown starting August. All amenities, secure parking, walk Tech. Must be neat, clean, and responsible like me. John.witzel@me.gatech.edu, 894-7671, 881-9602.

Digital piano wanted: MIDI Interface, touch sensitive, 5 octaves (60 keys), internal speakers, Reasonably priced. Call 770-528-7098(W); 770-565-3242(H) or jon.hoffmeister@gtri.gatech.edu

5 ft. - 10 ft. Maple, Pine, Oak, and other hardwood trees. Come and dig your own. \$15 - \$25 each. Large selection on private lot in Paulding County. Call 894-1622, or e-mail belinda.ross@vpea.gatech.edu.

Exercise equipment similar to HealthRider, like new, excellent condition, \$150. Call Donna at 894-4844.

Editor's Note: The Whistle staff reserves the right to edit all advertisements. Ads should be no longer than 30 words. Only Tech employees are eligible. The average wait-time is 11-13 working days. Submissions should be faxed to Amy at 894-7214 or e-mailed to amy.fraser@vpea.gatech.edu. All electronic submissions should include the word "classified" in the subject line.