

The WHISTLE

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Design fix to correct North Campus Parking Deck problems

*Michael Hagearty
Institute Communications
and Public Affairs*

Last Monday, crews began the process of constructing the safeguards recommended for Tech's newest parking facility on State Street. The job, expected to continue through the end of fall semester, will be the final step before it is opened for campus use.

The delay in the opening of the so-called North Campus Parking Deck occurred when an inspection in March revealed cracking in the structural columns and beams. Tech, in cooperation with the Georgia State Financing and Investment Commission (GSFIC), the state agency that constructed the facility for Georgia Tech, brought in an outside consulting firm to assess the deck's "as-built" condition. Following their review,

it was determined that reinforcement was required to ensure the durability and long-term safety of the deck and the 850 cars it will ultimately house.

Gary Phillips, a design and construction project manager in Facilities, said in situations such as this, the use of a "forensic engineering" review is not unusual. "It's commonplace in design and construction reviews to get a peer review," he said. "An outside entity gives us another perspective."

Walker Parking, the designer and principal engineer of the project, took these assessments into account when proposing solutions. All parties have finalized their design fix.

As of last week, work crews from Archer-Western had begun to reinforce the columns within the structure. To do this, a jacket consisting of an additional six inches



Reinforcement to the columns is required before the North Campus Parking Deck will be ready to serve the Tech community.

of concrete and steel ties will surround the columns, strengthening to the intersection where the columns and beams meet.

Phillips said that in discussions

involving the fix, "there were three guiding principles — satisfying structural requirements, the

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Rouse tapped for chair of Industrial and Systems Engineering

*Larry Bowie
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and Public Affairs*

Georgia Tech has selected William B. Rouse, an accomplished entrepreneur, author and academician, to chair the School of Industrial and Systems Engineering. He begins serving on October 1.

Rouse takes over for John Jarvis, who earlier this year announced his intentions to resign after 33 years of service to Tech, including 12 years as chair.

"I am delighted to have been selected to lead the School and I look forward to working with the faculty, staff, students, and alumni," Rouse said. "The School is excellently positioned, thanks to John Jarvis and many others, to further enhance its preeminent position in the field and provide increasing value to Georgia, the nation, and beyond."

Rouse has more than thirty years of experience in engineering, management and marketing related to individual and organizational performance, decision support



William B. Rouse

systems, and information systems. In these areas, he has consulted with over 100 large and small enterprises in the private, public, and non-profit sectors. His expertise includes individual and organizational decision making and problem solving, as well as design of organizations and information systems.

Rouse has been serving as CEO of Atlanta-based Enterprise Support Systems, which provides software solutions, consulting services, and training in the areas of strategic planning, market/product planning, and organizational change.

From 1981-88, he served as a professor at Tech. In 1988, he began serving as an adjunct professor and has held that position until the

present. Rouse founded the Center for Man-Machine Systems Research at Tech and served as its director from 1981-85. He has also held faculty positions and visiting appointments at the University of Illinois at Urbana-Champaign, Delft University of Technology in The Netherlands and Tufts University. He received his B.S. from the University of Rhode Island, and his S.M. and Ph.D. from the Massachusetts Institute of Technology.

Rouse has written hundreds of articles and book chapters, and has authored many books — most recently "Essential Challenges of Strategic Management." He is a member of the National Academy of Engineering, a fellow of the Institute of Electrical and Electronics Engineers (IEEE), and a fellow of the Human Factors and Ergonomics Society.

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High school students learn research skills in Light and Life

Sean Selman
Institute Communications
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A summer program in the School of Biology provides lectures, demonstrations and hands-on experiments designed to challenge rising juniors and seniors from area high schools, giving many of them a taste for scientific research.

This summer, more than 40 high school students will participate in the Light and Life Program. One of its many goals is to provide opportunities to women and minorities, groups historically under-represented in the fields of science, mathematics and engineering. The intensive experience spans several fields of biology and is designed to inspire and motivate high school students to pursue careers in biological sciences.

“Each summer the School of Biology offers this three-week course so that we can bring local high school students to campus to participate in lectures and laboratory experiments, and to accompany instructors on related field trips,” said Professor Roger Wartell, chair of the School of Biology.

The Light and Life Program is funded by the Howard Hughes Medical Institute (HHMI) Biological Sciences Initiative. During the program, high school students study living systems in research areas that range from molecular biology to ecology. They also study some of the modern techniques used in biology, such as DNA restriction mapping and genetic fingerprinting.

“Light and Life provides a challenging experience for students interested in careers in the sciences, particularly the life sciences,” Academic Advisor David Garton said. “It is designed to encourage these students to pursue their interests and to explore various areas of modern biology well beyond that typical of high school courses.”

Garton said that high school class times often limit the types of experi-

ments that students can attempt, while the Light and Life Program offers a way for students to complete longer, more difficult lab experiments.

“Light and Life students benefit from this complete immersion program,” Garton said. “The main feature of this program is that ... students are responsible for completing all exercises. The faculty and assistants supervise, but they do not demonstrate experiments to the whole class. Likewise, there is ample opportunity for follow-up discussion and data analysis and interpretation. The program is designed to increase student confidence.”

Faculty in the School of Biology pre-

topic.

Wartell said applicants are chosen for their strong interest in biology, chemistry or biomedical sciences as shown through a review of a student portfolio. In some cases, exceptional high school sophomores are considered for the program, too. As an added bonus, student participants receive a \$250 stipend after completing the program.

“By participating in the Light and Life Program, we see an immediate benefit in the recruitment of outstanding students into Georgia Tech,” Garton said. “Surveys of participants also reveal a high level of satisfaction associated with Light and Life, which benefits the

reputation of Tech among high school students and teachers in metro Atlanta.”

Beyond its funding for the Light and Life Program, the HHMI grant supports collegiate sophomores and juniors from throughout the country who wish to pursue summer research internships with faculty and graduate students. This year, 16 undergraduates were selected to work on various research projects in the biosciences or biomedical sciences.

“In addition to their research projects,

interns attend informal presentations by faculty and participate in an end-of-summer, one-day symposium,” Wartell said. “Interns are eligible for travel grants to participate in regional or national scientific conferences during the year following their HHMI internship.”

Not all Howard Hughes research interns conclude their research at the end of the program.

“Some students choose to continue working on research started during the summer,” Wartell said. “We usually have six to nine undergraduates who continue research at Tech during the next academic year.”

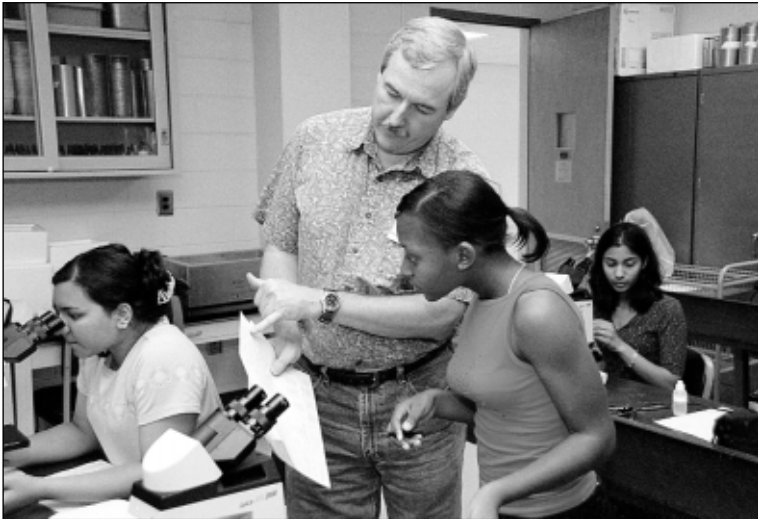


Photo by Stanley Leary

Biology Professor David Garton works with Chattahoochee High School student Annie Kim in the School's Light and Life program.

sent the lectures and design experiments offered through the Light and Life Program. Among them are scientists actively involved in research in the areas of molecular genetics, environmental sciences and microbiology. Under the direction of the instructors, high school students explore key breakthroughs and issues in molecular biology and the challenges these breakthroughs represent to society.

The first session of Light and Life began in mid-June and the second began after Independence Day. Students generally attend lectures in the morning and conduct experiments, sometimes in the field, during the afternoons; the program is organized with one week emphasizing molecular biology and genetics, one week on topics in environmental biology, and a final week in which students give a presentation on a current research

winter break, though Rod Weis, director of Parking and Transportation, said his department is ready to act should the job be completed early.

“The people who asked to be placed on the wait list for that facility will be notified immediately,” he said.

Of the 850 available spaces, 650 are set aside for permit users and the remaining 200 for visitors. Weis

anticipates that once word gets out that the deck is ready, there will be a sharp increase in demand. Those already on the wait list, he said, will have first priority.

“If [someone] is in that area of campus and wants to move in,” Weis recommended, “they should go to our website and request to be put on that wait list.”



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long-term durability of the structure and the aesthetics of the repair.” This solution has been designed to meet all those concerns.

Repairs are the responsibility of the team that designed and built the deck.

It is expected that the deck will be open by the time students return from

Correction: In the July 16 issue, Professor Reginald DesRoches was mistakenly identified as a Chemical Engineering faculty member. Rather, he is a professor within the College of Civil and Environmental Engineering.

Committee initiates search for new Engineering dean

Larry Bowie
Institute Communications and Public Affairs

The College of Engineering begun a national search to fill the dean’s position, which was vacated recently by Jean Lou Chameau when he began his tenure as Institute provost on June 1.

A 16-member committee composed of Tech faculty, students, alumni and administrators has been formed to guide the search. In addition, the Institute plans to select a nationally recognized executive search firm to assist in the search process, beginning in early August.

“The dean of Engineering plays a very important role on our campus,” said Ron Schafer, a Regents’ Professor in the School of Electrical and Computer Engineering who was selected to chair the search committee. “We are seeking a person with outstanding academic credentials who will continue the tradition of great leadership that we have enjoyed in the College of Engineering.”

The committee will be responsible for overseeing the executive search firm, interviewing the top candidates, and making a recommendation to the Provost’s Office. Hiring an executive search firm is a common practice among universities looking to fill top-level positions.

Schafer said the committee expects to identify its top candidates during the fall and be in talks with the leading candidate by the end of this year. In the meantime, Associate Dean J. Narl Davidson, who stepped in as interim dean of the College, will continue serving in that capacity until a successor comes aboard.

As the largest college within Tech, the College of Engineering is comprised of nine schools and more than 30 interdisciplinary and specialty centers. The College has 378 faculty members and 335 staff members. About 8,650 students were enrolled last fall.

The search committee members are:

- Ron Schafer, chair, Regents’ professor, Electrical and Computer Engineering
- David McDowell, co-chair, Regents’ professor, Materials Science and Engineering
- Dean Alford, president and COO, Allied Utility Network
- Julia Babensee, assistant professor, Biomedical Engineering
- John Bartholdi, professor, Industrial and Systems Engineering
- April Brown, associate dean, College of Engineering and Joseph M. Pettit Professor, Electrical and Computer Engineering
- David Frost, professor, Civil and Environmental Engineering and director, Georgia Tech Regional Engineering Program
- Marta Garcia, assistant vice president for Development
- Natasha Goguts, undergraduate student, Civil and Environmental Engineering
- Mary Lynn Realff, associate professor, Textile and Fiber Engineering
- Gary Schuster, dean, College of Sciences
- Jeff Sitterle, senior scientist, GTRI Research Operations
- Arnold Stancell, professor, Chemical Engineering
- Michael Swinson, graduate student, Mechanical Engineering
- Roger Webb, professor, Electrical and Computer Engineering
- Ben Zinn, professor, Aerospace Engineering

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Tech’s School of Industrial and Systems Engineering maintains a powerful national stature. This spring, U.S. News & World Report ranked the graduate program in Industrial and Systems Engineering as number one in the country for the 11th year in a row.

“We are pleased to have such an individual with such a strong a background as William Rouse to serve as the new chair of the School,” said J. Narl Davidson, interim dean of the College of Engineering. “His leadership abilities and remarkable background in engineering make him a fine addition to the team.”

Jarvis said he plans to continue working on

behalf of Tech in some capacity, but hasn’t yet decided what that role will be.

“I am proud to have been a small part of the School’s distinguished history,” Jarvis said. “I loved every minute of my stay and will always have a fondness in my heart for ISyE, Engineering and Tech.”

The Women’s Resource Center is holding a suit drive to benefit Dress for Success, a local non-profit organization that helps women re-entering the workforce. Please deliver any contemporary, well maintained suits appropriate for job interviews to the Women’s Resource Center, 217 Student Services, between 10 a.m. and 6 p.m. The suits need to be dry-cleaned and on hangers. For more information, visit the Women’s Resource Center’s website at www.womenscenter.gatech.edu or call 385-0230. Suits are being collected through Friday, August 3.

Did You Know?

Georgia Tech currently claims the second-highest number of faculty members with National Science Foundation (NSF) **CAREER Awards** — 58 in all — in the country. The NSF is an independent federal agency with a \$4 billion budget, responsible for promoting science and engineering through programs that invest money in research and education projects in science and engineering. The Faculty Early Career Development (CAREER) Program grants are awarded to junior-level university faculty, lasting 3-5 years in duration and ranging from about \$70,000 to \$300,000. Rounding out the top five: University of Illinois at Urbana-Champaign (64), MIT (56), University of Michigan (54) and Pennsylvania State University (48).

The Board of Regents announced that a recent communication sent to indemnity and PPO health plan participants contained several **errors**. Specifically, the new Express Scripts Pharmacy Member Handbook states that new ID cards are included on the back cover. This is not the case. All of the USG covered participants should have received their Express Scripts ID cards in January. The handbook also reflects an incorrect website for pharmacy information. The correct website is as follows: <http://www.usg.edu/admin/humres/benefits/health/>.

The Agricultural Technology Research Program announced completion of a permanent structure for its **Poultry World** educational exhibit. Located at the Georgia National Fairgrounds and Agricenter in Perry, Ga., Poultry World will officially open at the Georgia National Fair, scheduled for October 5-14.

The Georgia Tech Research Corporation (GTRC) accounting and operations divisions will **relocate** from 505 Tenth Street to 859 Spring Street. The Industry Group, which includes GTRC’s Office of Technology Licensing (OTL) and the Industry Contracting Office, will relocate from the Centennial Research Building into the space at 505 Tenth Street vacated by GTRC operations and accounting.

The College of Architecture’s Center for Rehabilitation Technology (CRT) is **changing its name** to the Center for Assistive Technology and Environmental Access (CATEA).

At a recent meeting of the Teachers Retirement System of Georgia Board of Trustees, it was announced that the retirement system has been **fully amortized**. As such, the debt service paid by the Institute has been eliminated.