About four hundred people attended the dedication of the J. Erskine Love Jr. Manufacturing Building on August 25, 2000. The building is the new home for the School of Materials Science and Engineering and provides additional facilities for the Woodruff School. In addition, a piece of artwork honoring Erskine and highlighting various aspects of mechanical engineering and materials science was unveiled by the Love family.

The 135,000 square foot, $27 million laboratory facility is the largest of its kind in Atlanta and one of the premier engineering research facilities in the country. Special facilities include an underwater acoustics tank, a wind tunnel, and a clean room for MEMS fabrication. Woodruff School research groups in the building are Acoustics and Dynamics; Fluid Mechanics; Heat Transfer, Combustion, and Energy Systems; and MEMS.

Georgia Tech President Wayne Clough, Georgia Lt. Governor Mark Taylor, Woodruff School Chair Ward Winer, and MSE Chair Ashok Saxena praised the late J. Erskine Love Jr. for his entrepreneurial spirit and devotion to Georgia Tech. Within eight years of earning a mechanical engineering degree from Tech in 1949, Love founded Printpack, a manufacturer of flexible packaging materials.

In 1998 Love's family marked the 50th anniversary of his graduation from Georgia Tech by creating a $5 million endowment for the Woodruff School. "The investment from this endowment will support education and research programs in manufacturing-related subjects, including interdisciplinary research among faculty and students in various schools of the College of Engineering," said Clough. "Today, we acknowledge the importance of that contribution to Georgia Tech. At the same time, we lift up ethics, values, the spirit of entrepreneurialism and devotion to excellence that characterized Erskine's life as a model for future students and our faculty and staff."

Dr. William A. Wulf, President of the National Academy of Engineering, delivered the 2000 Woodruff Distinguished Lecture to a large audience on Tuesday, April 25, 2000. He spoke about The Societal Responsibility of Engineers (And Its Implications for Engineering Education).

Dr. Wulf told of engineering's strong tradition of ethics, rooted in its responsibility to the public to produce effective, safe, and reliable products and infrastructure. Engineers must no longer limit their sense of responsibility to the products and infrastructure they design, but must include the larger effects they have. Doing that implies assuming roles in society, such as public servants, engineers have not traditionally filled.

Dr. Wulf is on leave from the University of Virginia to serve as President of the National Academy of
Engineering. At Virginia, Dr. Wulf is a University Professor and holds the AT&T Chair in Engineering and Applied Science. He is a member of the National Academy of Engineering, a Fellow of the American Academy of Arts and Sciences and a Fellow of the ACM, the IEEE, and the AAAS. He is the author of over 80 papers and technical reports, has written three books, holds one U.S. Patent, and has supervised over 25 Ph.D.'s in Computer Science.

The transcript of Dr. Wulf's lecture is now available. Also, view the webcast at http://www.me.gatech.edu and click on the George Woodruff icon.

ANNOUNCEMENT

The Woodruff School is pleased to announce that Euan Baird, Chairman of the Board, President, and Chief Executive Officer of Schlumberger will give the 2001 Woodruff Distinguished Lecture on Tuesday, April 10, 2001 at 3:30 p.m. in the Van Leer Auditorium on the Georgia Tech campus. Invitations will be mailed in March 2001.

A Message from the Chair
WARD O. WINER

It's been more than six months since our last issue of mega tech, and it seems like the new and exciting things happening in the Woodruff School never stop. That's what makes it an interesting place, for our students, our faculty, and staff. Last year's Woodruff Distinguished Lecturer was Dr. William Wulf, President of the National Academy of Engineering. He spoke about the responsibility of the engineering profession and engineering education, in particular. We took the opportunity of Dr. Wulf's visit to host a Regional Meeting of the National Academy of Engineering, which included a symposium on "Why Don't More Women Go Into Engineering." Both events were quite interesting and you can view them by going to our website.

Another highlight was the Woodruff School's ranking in the U.S. News & World Report survey. We moved up to sixth place nationally. We are convinced that we should be ranked higher, but are thankful for the continued recognition of our program.

The Georgia Tech Capital Campaign closed at the end of the year. The goal is $600 million by the end of December. The Woodruff School surpassed our goal of $30 million in the spring and we will continue to try to enhance the resources available to our programs.

David Ku was named to the Huang Chair in Entrepreneurship in Engineering, a Chair jointly held by the College of Management and the College of Engineering at Georgia Tech. We are very pleased that one of our faculty members received the Chair and is advancing the cause of entrepreneurship among engineering students.

We had record attendance at our spring banquet this year, and had the pleasure of presenting Pete Petit with the 2000 Woodruff School Distinguished Alumnus Award. In addition, Said Abdel-Khalik received the second Woodruff School Outstanding Educator Award.

Several of our student clubs continue to be very active. GT Off-Road entered their first national competition and did quite well. GT Motorsports again competed in Detroit, Michigan. They raised funds and took the car and the team to Birmingham England to compete in an International version of the SAE Motorsport rally. They did great, coming in fifth overall.

In the past year, we established a new student loan fund with an interesting history. The funds to establish the Julien Benjamin Insubordinate Seniors Short Term Loan Fund were given by the son of one of the 1901 insubordinate seniors from the mechanical engineering class.

One of the most exciting events of the past year was the occasion of moving faculty from the Coon Building, the SST Building, and the ESM Building into the new J. Erskine Love Jr. Manufacturing Building. This completes the move of the mechanical engineering faculty from the old cluster of buildings where we had been since 1909, to four new buildings, three clustered together, and all built and occupied since 1991. I believe that we have the best physical facilities of any mechanical engineering program in the world. If you
are in Atlanta and have the opportunity, I encourage you to stop in and visit these excellent, new facilities.

Many other special events occurred in the fall, however, these stories will appear in the next issue. We wanted to fill you in on all the exciting activities that took place since the last issue - we just don't have the space to report on everything without turning our newsletter into a book.

The faculty and staff of the Woodruff School are working hard to earn your respect. We appreciate your interest in our programs and hope that it will continue.

MARIÉ CURIE EXHIBIT OPENS AT TECH

An exhibition that examines the work of Marie Curie, the discovery of radioactivity and the contributions of other women scientists who built on her work opened on Monday, January 22, 2001 at the Gilbert Library at Georgia Tech. *The Legacy of Marie Curie: One Hundred Years of Science Innovation* explores discoveries in the areas of medicine, oil and gas exploration, power generation, pharmacology, astronomy, archaeology, and geography -- all based on the study of the atom.

Included in the exhibit is some of the original laboratory equipment used by Marie Curie in her work. On loan from the Musée Curie in Paris, this is the first time the equipment has been displayed in the United States.

The exhibition, which is free and open to the public, will be on view until Friday, March 2, 2001. Gallery hours will be weekdays from 10 a.m. to 4 p.m., Wednesdays until 8 p.m. and Saturdays from 10 a.m. to 2 p.m. For more information, view [http://www.me.gatech.edu/me/curie](http://www.me.gatech.edu/me/curie).

WHY DON'T MORE WOMEN CHOOSE ENGINEERING AS A CAREER?

This was the topic of a National Academy of Engineering Symposium held at Georgia Tech (sponsored by the Woodruff School and IBB) on April 26, 2000. The standing-room only crowd came to listen to Sheila Widnall, former Secretary of the Air Force and Institute Professor at MIT, and Patricia Hausman, a behavioral scientist and nutritionist, debate this question.

Dr. Widnall believes the engineering profession needs the participation of more women and that barriers continue to be placed before women students and faculty. She presented her "top ten" reasons why there is a problem.

According to Dr. Hausman, the answer to the question is simple -- "because they don't want to." She cited a National Science Foundation study in which women who left engineering, in the majority, stayed in the sciences, such as computer, life, or physical science.

After their brief addresses, Widnall and Hausman joined Professors Etta Falconer of Spelman College, April Brown of the College of Engineering, and Mary Rezac of the School of Chemical Engineering. Dr. Falconer said "I would hate to believe it's just a matter of hormones. That doesn't give much hope for the future." Rezac challenged Hausman's assertion that there are no barriers preventing women from pursuing engineering careers.

The discussion was brisk, however, no conclusions were reached. To listen to Widnall and Hausman's remarks, go our web page and click on the icon for the NAE Symposium on Women.

BUZZING TO THE TOP

The 2000 U.S. News & World Report rankings of graduate schools lists the Woodruff School of Mechanical Engineering as number six in the nation. The College of Engineering is fourth. According to Ward Winer, when U.S. News & World Report began to rank graduate schools in 1987 neither the Woodruff School nor the College of Engineering was in the top ten. He said, "To move up in the rankings like Georgia Tech did in a little over ten years is
both unusual and a real credit to the faculty and staff." The magazine ranks the nation's 219 graduate engineering programs according to a weighted average of a series of measures of quality. Reputation accounts for 40 percent of the total, student selectivity accounts for ten percent, faculty resources are 25 percent, and research activity is 25 percent. In September, U.S. News published their undergraduate rankings based on surveys of deans. The College of Engineering was ranked 7th, the same as in previous years. Specific rankings were done for the first time since 1996; the Woodruff School is 6th (7th in 1996) in mechanical engineering and 11th in nuclear and radiological engineering (no ranking in 1996).

ASME PRESIDENT VISITS WOODRUFF SCHOOL

John Parker, the president of the ASME, selected the Woodruff School as the place to visit to get an overview of a mechanical engineering program. He was accompanied by Thomas Loughlin, Managing Director of Member Affairs. We prepared a full agenda for their visit.

Dr. Winer presented a slide show about the Woodruff School. Then they spent an hour in a free-wheeling discussion with the ASME student chapter leaders, followed by a discussion of the School's undergraduate curriculum with Professors Ray Vito, Jerry Ginsberg, Tom Kurfess, and Richard Salant. After, they went across campus for a short meeting with President Wayne Clough and Provost Mike Thomas. Upon returning to MRDC, they met with Dr. Jeff Donnell, Coordinator of the Frank K. Webb Professional Communications Program.

After a luncheon and discussion about all phases of mechanical engineering and the ASME with Woodruff School student leaders, ASME faculty fellows in the Woodruff School, Dean of Engineering Jean Lou Chameau, and Associate Provost Bob McMath, Parker and Loughlin went on a tour of our undergraduate laboratories led by Sterling Skinner, and then visited various mechanical engineering classes.

In a letter to Dr. Winer after the visit, Mr. Loughlin said, "I really appreciate the time and commitment you and your staff provided during our trip. Tech has a culture of excellence that was evident in everything that we experienced. From the faculty to the students and facility, it is a benchmark operation."

FACULTY NEWS

Said Abdel-Khalik received the 2000 Woodruff School Outstanding Educator Award.

Dan Baldwin was elected to the Board of Advisors for the Association for Electronics Manufacturing of the Society of Manufacturing Engineering and was named the Packaging Research Center's Faculty Member of the Year.

Wayne Book was elected as the Academic Senator from the Woodruff School.


Prateen Desai received the 2000 Minorities in Engineering Award from the American Society for Engineering Education. The award is given in recognition of distinguished accomplishments.

Jeff Donnell, Coordinator of the Frank K. Webb Professional Communications Program, was promoted to Academic Professional.

Imme Ebert-Uphoff won the CETL/BP Amoco Junior Faculty Teaching Excellence Award, received a 2000 National Science Foundation Career Award and was selected as a 2001 Outstanding Young Manufacturing Engineer by the Society of Manufacturing Engineers.

Ari Glezer received U.S. Patent No. 6,056,204 for his invention "Synthetic Jet Actuators for Mixing Applications." He also won a College of Engineering Research Award (along with Mark Allen in ECE) for work in the MEMS area and leadership in establishing this program on campus.

Iwona Jasiuk and her husband, Martin Ostoja-Starzewski, are the parents of a son, Michael Albert, born on September 4, 2000.

Tom Kurfess was promoted to full professor, elected to a three year term in the General Faculty Assembly, and received the Georgia Tech Class of 1940 W. Roane Beard Outstanding Teacher Award.

Kok-Meng Lee received the Best Paper Award in Automation at the 2000 IEEE International Conference on Robotics and Automation for his paper "Design Criteria for Developing an Automated Live Bird Transfer System."

Steven Liang was promoted to full professor.

Chris Lynch received tenure, was promoted to Associate Professor, and won the Outstanding New Mechanics Educator Award from the Mechanics Division of the American Society for Engineering Education.

Robert Mabrey left the Woodruff School to return to Tennessee. He came in fall 1999 to teach the new Engineering Graphics and Visualization course (ME 1770).

David McDowell received the Georgia Tech Outstanding Doctoral Thesis Award.

Jiamin Qu was promoted to full professor.

Farzad Rahmena was promoted to full professor.

Peter Rogers organized the Woodruff School's portion of the GT Charitable Campaign this fall.

Suresh Sitaraman received tenure and was promoted to Associate Professor.

Raymond Vito won the Georgia Tech ANAK Outstanding Faculty Award and the 2000 Georgia Tech Outstanding Service Award.

Min Zhou received tenure, was promoted to Associate Professor, and received a 2000 NSF Career Award.

Steven Liang, Tom Kurfess, Shreyes Melkote, Ye-Hwa Chen and Min Zhou were selected by National Institute of Standards and Technology to begin an Advanced Technology Project on "Enabling Technologies for Lean Manufacturing of Critical Hardened Steel Applications." The project is budgeted for $1.7 million over a four-year period. For more information, see their individual faculty pages under PMRC Press Release.

DAVID KU NAMED TO HUANG CHAIR

Woodruff School Regents' Professor David Ku was named to the Lawrence P. Huang Chair of Engineering Entrepreneurship by the DuPree College of Management, the College of Engineering, and the School of Electrical and Computer Engineering. David has a joint appointment in the Woodruff School and the DuPree College. The chair was created to develop and teach technology management and entrepreneurship to engineering and management graduate students. Ku will direct and teach in the DuPree Center for Entrepreneurship's Program for Engineering Entrepreneurship. The chair is housed in the DuPree College.

David joined the Woodruff School in 1986. He received a bachelor's degree from Harvard University in 1978, an M.S. and a Ph.D. from Georgia Tech in 1982 and 1983, respectively, and his M.D. from Emory University in 1984.

David's work in the Woodruff School involves peripheral vascular pathology and unsteady, three-dimensional fluid dynamics. Projects include the relative role of hemodynamics and thrombosis in vascular grafts; the development of a tissue-engineered vascular graft; and the collapsible tube behavior of highly stenotic...
David was a Woodruff Faculty Fellow. He received the Gustus Larson Memorial Award and the Y. C. Fung Young Investigator Award from the Bioengineering Division, both from the ASME, an NSF Presidential Young Investigator Award, the Young Investigator Award from the American Heart Association, and a Fulbright Fellowship to Germany. He is a fellow of the American Institute for Medical and Biological Engineering, and is licensed to practice medicine in Georgia and Illinois.

For more information on David Ku, see Faculty/Staff.

TECHNOLOGY FEES AWARDED

Georgia Tech Provost Michael Thomas announced the allocation of the fiscal year 2001 Technology Fee Funds. These funds, according to Dr. Thomas, are "making a real difference in enhancing our computing, laboratory, and classroom technology base." A total of 78 proposals were considered by the committee and $2,181,300 was allocated. Woodruff School winners are: Undergraduate Mechanical Engineering Laboratory, Chris Lynch and Sterling Skinner, $133,400; and Classroom Multimedia Presentation Technology for the Love Building (a joint proposal with the School of Materials Science and Engineering), Gene Clopton, $71,000.

GT OFF-ROAD GOES TO ITS FIRST COMPETITION

GT Off-Road, the SAE Mini-Baja team, participated in their first competition in Milwaukee, Wisconsin in June. The competition consisted of 106 teams from around the nation and world. The Georgia Tech team was the best first-year team at the competition and placed 12th in appearance, 19th in braking, and 29th in the static events. The event was highlighted by a four-hour endurance race. During the preliminary one-hour heat race the team started 69th and finished 10th. While running in 8th place in the final endurance race, the car was rear-ended, which knocked off a rear tire. Due to a quick pit crew working in the mud, the car was repaired and finished the race only two laps down. Despite the setback, Georgia Tech placed 43rd overall.

GT-Off Road was organized in the summer of 1999 and is open to all students at Georgia Tech. Professor Ken Cunefare is the group's faculty advisor. If you would like to sponsor the team, please contact Caroline Wood, Director of Development for the Woodruff School, at (404) 894-0762 or send her an e-mail at caroline.wood@me.gatech.edu.

If you are interested in applying the engineering skills that you learn in your courses or you just love to work on cars, contact Matt Spetzler at gte538j@prism.gatech.edu or visit GT Off-Road's web page at http://cyberbuzz.gatech.edu/minibaja/ for more information.

GT MOTORSPORTS COMPETES DESPITE THE ELEMENTS

GT Motorsports went to their first international competition in Birmingham, England in July 2000. The team...
placed 5th overall. In the individual events, the team placed 1st in acceleration, 2nd in design, 2nd in cost, and 4th in autocross. There were cars from the UK, Germany, Mexico, Canada, Slovenia, and the U.S.

At the U.S. competition in May, the team placed 24th overall (out of more than 90 cars), with their best event being a 5th place finish in acceleration. The Pontiac competition was marked by the rather unusual occurrence of everyone in attendance (close to 1000 people) having to take shelter two times in the Silverdome due to severe weather.

RACE TECH (see the August/September 2000 issue, pg. 76-80) magazine is published in England, but can be found at large magazine racks in the United States; it is widely read by the followers of race car technology. The issue has two pictures of the GT Motorsports car at the Birmingham competition. The article mentions that our team took first place in acceleration and was being one of the lightest cars at the event.

UNDERGRADUATE STUDENT PROFILE -- MATT SPETZLER

Matt is a junior in the Woodruff School, where he has been active in GT Off-Road (Mini-Baja) for two years. He is chief engineer -- chassis. He was President of Freshman Council, won the Pi Tau Sigma for Outstanding Sophomore Award in 2000, is an active member of Phi Gamma Delta fraternity, and works on the FACET orientation for incoming students. Intramural sports is Matt's outlet from school, and last year he was especially active in volleyball and football.

Another of Matt's interests is mountain climbing. He has climbed the Inca Trail (Machu Pichu) in Peru and Long's Peak, the highest peak (14,000 ft.) in Colorado. Until last summer that is the tallest peak he had climbed.

In celebration of his father's 50th birthday last summer, a family group of fourteen went to Tanzania for a safari and to climb Mount Kilamanjaro. After a night at a lodge, a hike to the trail head, and a first day's hike through a rain forest and about six inches of mud, they camped at 10,000 feet. It took five days to reach the summit and one and one-half days to get down. Before the climb to the summit (19,340 feet), they woke up at 11 p.m. -- the final camp was at 15,000 feet -- and they hiked straight up using flashlight and moonlight. Matt said, "this was a very difficult climb. You need to convince yourself you are going to make it. It's a mind over body experience."

Besides his other summer activities, Matt worked at General Motors in Doraville doing reliability engineering. Matt is trying to take up golf, perhaps because he rebuilt a Harley-Davidson golf cart as a high school physics project.

He is also interested in alternative fuel source vehicles and in doing self-study work to develop new technology for a manually controlled car. Upon graduation he plans to work for a few years and then get an MBA. He likes working on projects that people say can't be done. It sounds like Matt will get them done.

WSSAC HOSTS UNDERGRADUATE RESEARCH AND JOB FAIRS

The Woodruff School Student Advisory Committee (WSSAC) hosted two fairs at the beginning of the fall semester: The Undergraduate Research Fair and a Jobs Fair. The jobs fair was a complementary event to the Institute's all-day Career Fair, and was a good chance for potential employers to speak with Woodruff School students in a less hectic atmosphere. WSSAC also sponsored the annual Undergraduate Research Fair, which was attended by more than seventy students interested in working on a research project. Faculty members who had work for undergraduates made presentations about their research. Contact Professor Ray Vito, Associate Chair for Undergraduate Studies at raymond.vito@me.gatech.edu if you want to work on an undergraduate research project.
A number of Woodruff School students attended the Georgia Tech Lorraine Summer 2000 Undergraduate Program in Metz, France. Pictured from left to right are (back row): Gonzalo Stabile, Greg Bezanis, Earl Ming, Jon Stella, Greg Sciame, Christopher Williamson, and Luis Burgos, and (front row) Professor Raymond Vito, John Kokotan, Mark Malagon, Vanessa Cial, Austin Chen, Charles Hagedorn, Sang Li, and Andrew Mauer.

**STUDENTS SPEND SUMMER IN FRANCE**

FINDING A JOB IN INDUSTRY

Ralph Mobley, Director of Career Services, gave a seminar on job search strategies for doctoral candidates who want a job in industry. (This information should be useful to all degree candidates.) The most important skill to develop, he told the students, is networking. For a job search, develop a sound summary of your qualifications; communicate with clarity; leave concise messages on the telephone; be mindful of time; share information with others; and don't forget to be polite.

Mobley told the audience to: "Decide what you want to do; list your skills; determine which industries hire people with your interests; decide who are your potential employers; and know which geographic regions you will consider." Sixty percent of Georgia Tech graduates remain in Georgia, with most of those staying in the Atlanta metropolitan area.

Job search strategies include: on-campus recruiting (more than 400 companies attended the most recent Georgia Tech Career Fair); targeted mailings; networking; the Internet; want ads; and in-person visits to companies.

Given the current job market, students can be much more selective. Initially, Mobley said, you might not find the perfect job, but you can find one that fits your skills. For more information about Career Services at Georgia Tech, see [http://www.career.gatech.edu](http://www.career.gatech.edu).

STUDENT NEWS AND HONORS

Anne Marie Albanese, a new graduate student, is an NSF graduate fellowship winner.

Robert D. Carpenter won the Woodruff School of Mechanical Engineering Outstanding Scholar Award.

Lisa Chang won a National Science Foundation graduate fellowship.

Rhima Coleman has received a Whitaker Foundation Fellowship for her studies in biomedical engineering.

Rebecca Covert is a first-year ARCS Scholar.

Elyssa Crafton won an NSF graduate fellowship.

Brian Davis was an honorable mention for the NSF graduate fellowship.

Jiro Dokeh received a Georgia Engineering Foundation Senior Design Award.

Chad Duty is a first-year ARCS Scholar.

Tim Ferguson won an NSF graduate fellowship.

Marco Fernandez won an NSF graduate fellowship.

Dawn Foley is a third-year ARCS Scholar.

Heather Gepford received the Health Physics Society Fellowship. She is the second consecutive graduate student from GWW to receive this prestigious award. Only eight are given each year.

Jennifer Hea won the School Chair's Award that honors a graduating senior.

Ashley James was accepted into the NSF Engineering Education Scholars Workshop at Carnegie Mellon University.

Philippe Jasport has accepted a job in the United States as a management consultant for Cambridge Management Consulting. Philippe was in the first group of French students at ENSAM who participated in the
Angela Lin won an NSF Graduate Fellowship.
Kristin Michael won the Richard K. Whitehead Jr. Memorial Award and an NSF Graduate Fellowship.
Reinhard Powell won the Pi Tau Sigma Outstanding Senior Award.
James Pyland won an International Microelectronics and Packaging Society Education Foundation Grant.
Chad Rasmussen won the Samuel P. Eschenbach Memorial Award in Mechanical Engineering.
Carolyn Conner-Seepersad is a second-year ARCS Scholar.
Charlotte Cody Song was accepted into the NSF Engineering Education Scholars Workshop at Carnegie Mellon University.
Raye Sosseh was recognized as an outstanding Graduate Teaching Assistant and was a candidate for a CETL/BP Amoco GTA Teaching Excellence Award.
Matthew Spetzler received the Pi Tau Sigma Outstanding Sophomore Award.
Shannon Stott is a first-year ARCS Scholar.
Davin Swanson, a Woodruff School graduate student, appeared on "Who Wants to be a Millionaire" on the June 15th show. He won $32,000. Michael Swinson is a first-year ARCS Scholar. David Tamburello was an honorable mention for the NSF graduate fellowship program.
Jennifer Venton won the 2000 Hutchings Education Grant from the Surface Mount Technology Association. The award is given to a student pursuing an advanced degree in electronics assembly, packaging, or a related field.
Annica Warrick won an NSF graduate fellowship.
Russell Watts was an honorable mention in the NSF graduate fellowship program.
Susan White won an NSF graduate fellowship.
Hasani Wooten, a new graduate student, is a National Science Foundation graduate fellowship winner.

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INSUBORDINATE SENIORS FUND

(We received the following letter from Julien P. Benjamin, Jr., the son of Julien P. Benjamin, BME 1902.)

"... it is my desire to establish a Revolving Loan Fund for students who 'run short' of funds and face having to drop out. This Fund should be restricted to students enrolled in the School of Mechanical Engineering ....

I would hope that the fund can be administered by your department so that when a need arises a suitable loan can be arranged without delay. Since there is no such thing as a 'free lunch' I suggest that interest at one-half the going rate be charged.

My Dad was a member of the Insubordinate Seniors of 1901. That episode caused a unique and strong bonding between the members. I had the pleasure of meeting many of these fine men upon the occasion of their 50th, 55th, 60th, and finally, the 65th reunion when only my Dad was able to attend. The intense love and respect between these men had a strong influence upon meSand the several sons I met over the years."

The Story
In 1901, the senior class defied the administration by refusing to return to campus on December 31st. Instead they returned on January 2nd. They were called into President Hall's office, one by one, who told them they were guilty of "insubordination." He kicked them out of the dormitory for six weeks,
so they had to return for classes for six weeks in the fall in order to graduate. The photograph was taken at their special graduation exercise in November 1901.

The Insubordinate Seniors held reunions every five years; a group photograph was taken on the west side of the Academic building near where they stood for their class photo. In 1961 Julian P. Benjamin (BME 1901) returned to sit in his spot for a final picture.

**Note:** The ME Insubordinate Seniors Loan Fund is maintained by the Financial Aid office. If any student in the Woodruff School needs an immediate short-term loan, see Kimberley Blue, Undergraduate Academic Advisor, in MRDC Room 3108, or Dr. Ray Vito, Associate Chair for Undergraduate Studies, in MRDC Room 3103. There is a cap of $500 for a loan and there will be a very small interest charge on the money. Financial Aid will cut a check in 24 hours.

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**ANNUAL SCHOOL COOKOUT**

The Woodruff School Annual Cookout was held just a few days after classes started for the fall semester and continued our theme of rising to the top with our new Buzzing to the Top tee-shirts. Woodruff School graduate students, faculty, and staff attended the barbecue. Trudy Allen and Cosetta Williams, in the Graduate Office, helped organize this event, which was attended by more than 300 people.

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**SPRING BANQUET A BIG SUCCESS**

The Woodruff School held its annual spring banquet on April 6, 2000 in the Student Center Ballroom. Two hundred people attended the gala to honor graduating seniors, award winning graduate students, and to present the Woodruff School outstanding alumnus (Pete Petit) and the outstanding educator (Said Abdel-Khalik) awards (see the accompanying articles).

Before being allowed to partake of the buffet dinner, each table acted out a mechanical engineering process: lever; flow through a pipe; refrigeration; pendulum; material stress test; and HVAC. See if you can recognize what they were trying to capture in the picture above. Pictures of all the tables can be seen on our web page under Photo Gallery.
The rest of the evening’s program consisted of Dr. Ray Vito talking about the undergraduate program, Dr. Bill Wepfer speaking about the graduate program, WSSAC members presenting the 1999 Academia Awards, and finally, some closing remarks from WSSAC President Anika Stone (BSME 2000) on her years at Georgia Tech.

The members of the Spring Banquet Committee were: Onochie Achukwu, Saniya Ahsan, Andrea Burgess, Faris Jessa, Seth Peyton, Jonathan Snow, Anijka Stone, and Baker Whisnant.

PETE PETIT NAMED WOODRUFF SCHOOL DISTINGUISHED ALUMNUS

Pete Petit (BME 1962) was named the 2000 Woodruff School Distinguished Alumnus at the Annual Spring Banquet. One of the responsibilities of the awardee is to speak at the Spring Banquet. Pete gave an inspiring speech to the audience about how he accidentally became a mechanical engineer and how good Georgia Tech has been to him. He started out in aerospace engineering, but became an ME because he needed a job and the co-op program offered him one in ME. He spoke movingly about the need to give back to those who helped you, in his case, Georgia Tech.

Mr. Petit has been very good to Georgia Tech. He is a Trustee for the Georgia Tech Foundation, a member of the Woodruff School’s Advisory Board, Chair of the Woodruff School's Capital Campaign Committee, and a member of the Institute’s Capital Campaign Committee. In 1985, he funded a chair in the Woodruff School for a distinguished professor; the chair in Engineering in Medicine is held by Professor Robert Nerem. In 1996 he endowed the Petit Institute for Bioengineering and Bioscience at Georgia Tech; Woodruff School Bioengineering faculty are in the IBB building. Mr. Petit has served on the National Advisory Board for Georgia Tech and he was a recipient of the Georgia Tech Distinguished Engineering Alumni Award in 1994. In addition, he serves on the National Council for Medicine at the Emory University School of Medicine.

In November 1970, Mr. Petit founded Healthdyne, as a result of developing the first home physiological monitor for infants who are at risk for Sudden Infant Death Syndrome. Healthdyne grew into an international corporation with revenues of approximately $400 million. In 1995, Healthdyne was split into three publicly traded companies—Healthdyne Technologies, Healthdyne Information Enterprises, and Matria Healthcare. Mr. Petit remains Chairman of the Board of Healthdyne Information Enterprises and Matria Healthcare.

For more details about Mr. Petit, view the event program on our home page.

Mechatronics Conference Held in Atlanta

The 7th Mechatronics Forum International Conference and Mechatronics Education Workshop (also known as Mechatronics 2000) was held in Atlanta in September 2000. This was the first time that the conference was held in the United States and it proved to be the largest mechatronics conference ever held. Charles Ume served as the General Chair. Papers were received from 35 countries and the technical program consisted of more than 250 papers, with a large number received from industry. Dean of Engineering, Jean-Lou Chameau gave one of the keynote addresses to the international audience attending the conference.
School Chair Ward O. Winer hosted a reception to welcome the attendees. For more information about the faculty in Mechatronics, see our home page.

Acoustical Society Holds Its 139th National Meeting in Atlanta

The Acoustical Society of America (ASA) held its 139th National Meeting in Atlanta from May 29 to June 3, 2000. The ASA is the largest scientific organization in the United States devoted to acoustics. Members of the Woodruff School made up the local Organizing Committee for this conference attended by more than one thousand people with seven hundred papers presented. Yves Berthelot was the General Chair for the meeting and Jerry Ginsberg was the Technical Chair. Other members of the organizing committee were: Ken Cunefare, Rona Ginsberg, Laurence Jacobs (CEE), Jacek Jarzynski, Michael Leach (GTRI), George McCall, and Pete Rogers.

In addition to the technical sessions, the conference had a plenary and award session; a special workshop to help students improve their skills to find jobs in acoustics; a display of all books published in acoustics; a social for authors to discuss their books with interested parties; a session on publishing excellence; a hot topics session and press luncheon, which featured, among others, a Georgia Tech paper on Better Landmine Detectors.

For more information on Woodruff School faculty members in Acoustics, see Faculty/Staff.

THE OUTSTANDING EDUCATOR AWARD

Southern Nuclear Distinguished Professor Said Abdel-Khalik was named the 2000 Woodruff School Outstanding Educator at the Annual Spring Banquet. His record exemplifies the high standards of this award, through his excellence in mechanical and nuclear engineering education and research. He was a faculty member at the University of Wisconsin before coming to the Woodruff School in 1987.

Dr. Abdel-Khalik has maintained a well-regarded research program, focusing on some of the critical mechanical and nuclear engineering issues faced by industry. His research combines fundamental and applied research in reactor engineering, heat transfer, and thermal-hydraulics. His early work on boiling heat transfer is recognized as fundamental.

He is a Fellow of the American Society of Mechanical Engineers and of the American Nuclear Society. In 1999, he won the American Society for Engineering Education Glenn Murphy Award for notable contributions to the teaching of nuclear engineering. In addition, he received the Georgia Tech Outstanding Doctoral Thesis Advisor Award (1998), the Sigma Xi (Georgia Tech Chapter) Outstanding Ph.D. Thesis Award, and the Georgia Tech Outstanding Faculty Leadership Award for the Development of Graduate Research Assistants (1994).

Support for this year’s award was provided by Mr. Chris Hammond (BME 1934).

The United Technologies Teaching Interns Program

The United Technologies Teaching Intern Program is funded by the United Technologies Corporation and supports up to twelve junior and senior mechanical engineering students for two semesters (fall and spring semesters only). Students are invited into the program based on their academic achievement -- a 3.5 GPA is required for participation -- and recommendations by the faculty. The program is
intended to give students the opportunity to work with a faculty member in
teaching an undergraduate course in mechanical engineering; encourage our best
students to consider going to graduate school; help develop communication and
interpersonal skills; and provide a way for practicing engineers and managers at
United Technologies to interact with Woodruff School students. For additional
information, please contact Dr. Ray Vito, Associate Chair for Undergraduate
Studies, at raymond.vito@me.gatech.edu or (404) 894-7502.

STAFF NEWS

Angela Carlson resigned her position as an Administrative Assistant II.
Phillip Coulson was promoted to Financial Specialist.
Judy Diamond was promoted to Administrative Assistant II.
Richard Duplessis joined the Woodruff School as a Computer Services Specialist III.
Norma Frank recovered at home from her July "vacation fall" in Florida and returned to Tech in October.
Angela Hicks was promoted to Financial Specialist.
Wanda Branch-Joefield was promoted to Administrative Assistant II.
Glenda Johnson works in the Administrative office as a Senior Secretary.
Terri Keita joined the Woodruff School as an Administrative Assistant I.
Don Long was promoted to Mechanical Specialist.
Joyce Lowe assisted Dr. Peter Rogers with the Woodruff School's portion of the GT Charitable Campaign
this fall.
Bill Miller, Systems Analyst III, replaced Martin Davisson, who took a position in the School of ISyE.
J. C. Murphy brought some visitors to the Woodruff School for a tour of Dr. Wayne Book's robotics lab.
J.C. is a member of the Stone Mountain/Lithonia alumnae chapter of Alpha Kappa Alpha, an international
service organization. ONTRACK is their signature program. They targeted ten "at risk" children in grades 3 to
5, tracked them for three years, and assisted the children with tutoring in basic subjects.

Regina Neequaye joined the Woodruff School as an Administrative
Assistant I.
Claudine Nickens received the Woodruff School Outstanding
Achievement Award for Classified Employees for 1999.
Gail Payne received the Woodruff School Outstanding Achievement
Award for Classified Employees for spring semester 2000. Gail was also
promoted to Administrative Assistant II and is now working with the
bioengineering research group in IBB.
Sterling Skinner appeared on the front cover of a vendor catalog. See
David Stone was promoted to Financial Manager I.
Stephanie Wheeler won the Woodruff School Outstanding
Achievement Award for summer semester 2000.
John Witzel had an article titled "Crossing Disciplines" published in the June 1999 issue of Mechanical
Engineering magazine. The article was about the Electronics Support Lab.

STAFF PROFILE –
REUBEN SLOAN

Reuben Sloan began his temporary job in the Woodruff School mail
room in December 1999; his position is now permanent. He enjoys the
job because he gets to meet interesting people from many different
countries. Reuben is much more than a mail room clerk and his varied
interests include chess, travel, and volunteer work.

Reuben's mother taught him to play chess when he was four years old
and he could beat her by the time he was five. By age seven he was beating his dad and by the time he was
eight or nine he could beat his teacher. He stopped playing in junior high and began again in high school. He
once played six games at once and won all six! Reuben was a finalist in the 2000 Georgia Tech Chess Club
Championship.

Reuben spent Thanksgiving in France. He has traveled to Hong Kong, Tokyo, Europe, Asia, and South
America. In July 2000 Reuben went to Pamplona, Spain for the Running of the Bulls and ran until a bull got
too close. He plans to go to South Africa next summer and to India some time soon.
Reuben does volunteer work for Hands-On Atlanta, Kaiser Hospital, and the Special Olympics.

This past spring, Reuben went skydiving with the Georgia Tech Skydiving Club. He received ten minutes of instruction and then jumped from 13,500 with no parachute, holding onto an instructor who had a parachute. Although Reuben says "it was the scariest thing I have ever done in my life, I will do it again."

Reuben says he will not bungee jump "because there is no backup plan." The general philosophy of this mail room coordinator extraordinaire is "I'd rather have regrets about the things I've done, then to have regrets about the things I haven't done."

NEW CHAIR WILL HONOR TWO GREAT ALUMS

We are pleased to announce the John M. McKenney and Warren D. Shiver Distinguished Chair in Building Mechanical Systems. The Chair will be named for these two distinguished and highly respected men in the industry, both graduates of Georgia Tech (see their brief bios). The Chair will enable the Woodruff School to provide education and training in those skills used in building construction, including heating, ventilating, air conditioning, refrigeration, piping, plumbing, fire protection, and noise control. Professionals engaged in this field work in equipment design and manufacturing, installation maintenance, operation, sales, and system design. For more information about this chair, ask for a copy of the brochure or view it on our home page under Publications. If you are interested in this exciting venture, please contact Caroline Wood, Director of Development for the Woodruff School, at 404-894-0762.

ALUMNI PROFILES

John M. McKenney
(1908-1994)

John McKenney was the son of a Baptist minister who died when John was three. He and his older brother grew up having to work to support themselves and their mother and sister. The dream of a college education was a driving motivation, and John pursued his education at the Georgia Tech Evening School of Commerce during the Depression, while working full-time during the day. He graduated in 1932 with a Bachelor of Commerce degree - one of his proudest achievements. When he graduated he was secretary to the president of Southern Railway, but his entrepreneurial instincts soon led him elsewhere. After working at several other jobs, he scraped

Warren Douglas Shiver
(1938-1999)

Warren Shiver began working in 1959 as a part-time draftsman with Oliver K. Lewis, Jr., Consulting Engineers, while studying mechanical engineering at Tech. He graduated with his bachelor's degree in 1964 and a master's degree in 1966. He had a 40-year association with Newcomb & Boyd. Warren became an Associate in 1969 and a Partner in 1973. He was the lead engineer on over 1600 projects during his career. These included many Atlanta landmarks, such as Colony Square, the Richard Russell Federal Courthouse, Southern Bell's headquarters, the Sam Nunn Federal Center, the Atlanta Marriott Marquis Hotel, the Grand Hyatt Hotel in Buckhead, the Olympic Swimming Venue, Georgia State and University Village, and the Georgia Center for the Advanced Telecommunications Technology. Warren
together $500 in savings and a $5000 loan to start his own business in 1943, recapping tires for the Army. Seeing the end of the war ahead, he began selling appliances to returning servicemen. A friend who was a general contractor asked him to sell and install floor furnaces in apartments and tract houses. By 1948, the two companies were building warehouses, production facilities, churches and multifamily housing, and air conditioning became commercially available. In 1948 he incorporated his business as a mechanical contractor under the name of McKenney's, Inc. Until the early sixties, the company was in a constant struggle to survive and prosper. He was rewarded with success and growth during the sixties and early seventies, and turned over the helm of a healthy company to the next generation in 1973. During these years, John became well known for his high ethical standards, his genuine concern for his employees, and his dedication to providing quality work for his clients. These values still define the company he founded today. McKenney's is one of the leading mechanical contractors in the nation, and employs over 35 Tech graduates in a variety of management and engineering roles, as well as being one of Tech's leading co-op employee.

led the company through a period of tremendous growth and change from the 1970s into the 1990s. Warren believed in giving back to his profession and served several technical and professional societies on a local and national level. He was a Fellow of ASHRAE as well as being selected as Engineer of the Year for Atlanta. He was a registered professional engineer in 20 states and the District of Columbia. In addition, he maintained several professional affiliations, including the National Society of Professional Engineers, the Society of American Military Engineers, the Construction Specification Institute, and the Southern Building Code Congress International. Warren's dedication to Tech continued throughout his career including many alumni activities and service on the Woodruff School Advisory Board.

ALUMNI NEWS

Tom Adams (Ph.D. ME 1998), along with Drs. Said Abdel Khalik and M. Ghaasiaan, received the best paper award at the 1999 National Heat Transfer Conference.

Reid Bailey (Ph.D. ME 2000) will become an assistant professor of mechanical engineering at the University of Dayton in Ohio.

J. Dennis Bramblett (BME 1971) was recently named First Vice President, Financial Advisor, of Morgan Stanley Dean Witter. Dennis's office is in Madison, Georgia, and he, his wife Joan, and their three children live on Lake Oconee in Greensboro, Georgia. Their son, John, is a junior at Georgia Tech.

Sonya Summerour Clemmons (BME 1994) received her Ph.D. (1999) from the University of California at San Diego, making her the first African-American woman to earn a Ph.D. in Bioengineering at the school. Currently, she is a postdoctoral fellow at the University of Pennsylvania School of Medicine.

Roy Crawford (BSME 1974) became a Fellow of the National Academy of Forensic Engineers. He resides in Whitesburg, Kentucky.

Eric Eck (BME 1988) joined Valmet as regional sales manager. Valmet supplies equipment and services to the paper industry. He is based in Decatur, Alabama.


Dawn Foley (Ph.D. ME 2000) is an Assistant Professor at the University of Minnesota in Minneapolis.

Francois Guillot (Ph.D. ME 2000) received an award for the Best Student Paper in Engineering Acoustics at the 139th Meeting of the Acoustical Society of America held in Atlanta. Jacek Jaryzinski was his advisor. He has remained at Georgia Tech as a Research Engineer.

Comas Haynes (Ph.D. 1999) was selected as a 2000 awardee in the Ford Foundation Postdoctoral Fellowship Program for Minorities.

Deborah Kilpatrick (Ph.D. ME 1996) was named Manager of Advanced Research for the New Ventures
R&D Group at Guidant Corporation in Santa Clara, California.

Jim Lake (MSNE 1968) is the president of the American Nuclear Society for 2000-2001. In 1996, he was inducted into the Academy of Distinguished Engineering Alumni at Georgia Tech.

Scott J. Machovec (BME 1997) was promoted to Project Manager for Vulcan Engineering Co. in Helena, Alabama. The company engineers and manufactures foundry and steel industry manufacturing machinery and equipment. Scott may be reached at scott.machovec@iname.com.

Kristie McAlvin (BME 1996) is a mechanical designer for Hewlett-Packard Company in Fort Collins, Colorado. She and her husband Kenneth Mann, had their first child, Hunter James Mann, in October 1999. Kristie received her first patent for a design that helps to contain electromagnetic interference inside computers. She may be reached at kristie@fc.hp.com.

Greg McDaniel (Ph.D. ME 1992) won a 2000 National Science Foundation Career Award for his work on "Accelerated Analyses of Complex Structures by Frequency-Windowed Condensations."

Matt Miller (Ph.D. ME 1993) received tenure and promotion to Associate Professor at Cornell University.

Anne Palmer (MSME 1999) won a Sigma Xi Georgia Tech chapter M.S. thesis award. Her advisor was Jonathan Colton. Anne is a United States Naval Academy graduate and is currently on active duty with the U.S. Navy.

John Parker (Ph.D. ME 1996) received a 2000 National Science Foundation Career Award for her work on "A Robust Low-Cost Vision System for Assessing Surface Appearance."

Laura Schaefer (Ph.D., ME 2000) is an Assistant Professor at the University of Pittsburgh in Pennsylvania.

Jennifer R. Taylor-Aponte (BME 1991, MS 1992) received her MBA from Penn State in December 1999 and accepted the position of Six Sigma Black Belt at Lear Corporation's Carlisle Pennsylvania facility. Prior to this position, she worked as a Process and Product Development Engineer in the Automotive Fabrics Division. She may be reached at JTaylor@lear.com.

Christine Valle (Ph.D. ME 1999) won the Sigma Xi Georgia Tech chapter Ph.D. thesis award for "Guided Circumferential Waves in Annular Structures." Her advisors were Jiamin Qu and Lawrence Jacobs (CEE). In addition, she received the Luther S. Long III Memorial Award in Engineering Mechanics. Christine is now an assistant professor at the University of Maine.

Kevin J. Wells (BME 1980, MSME 1982) was recently promoted from Senior Engineer to Manager, Horizontal Machining Centers, at Haas Automation, Inc. in California. Kevin resides in Ventura, California with his wife, Sylvana Cuidotti, M.D.

David Wootton (Ph.D. ME 1998) accepted a position as Assistant Professor at Drexel University in Philadelphia, Pennsylvania.

Let us hear from you! If you've received an award, changed occupations, or have other professional news you'd like to share with your classmates, please complete this form and submit it, or send an email to rona.ginsberg@me.gatech.edu.

IN MEMORIUM

Eugene C. Gwaltney, Jr. (BME 1940), who served as head of the Russell Corporation for 25 years, passed away March 9, 2000 in Florida. "Gene Gwaltney was a cornerstone of the entire textile and apparel industry for many years," said Jack Ward, current chairman, president and CEO. "He led Russell through the growth years in the 1960s...
and 1970s and gave more than 40 years of his life to the company. He began his career in research with Russell and his appreciation and love of that area continued throughout his career. Many of his contributions to Russell are still seen in today's operations."

Gwaltney, 82, joined Russell Manufacturing Company as director of research and quality control in 1952. He was named general superintendent in 1957 and vice president in 1960. He assumed the duties of president and chief operating officer in 1968 and was named chief executive officer and president in 1972. In January 1982, Gwaltney was named chairman of the board and chief executive officer and served as chairman until he retired in 1993.

Throughout his career, Gwaltney was involved in many activities ranging from the Federal Reserve Board in Birmingham to the Georgia Tech Advisory Board. He also served as president of the Alabama Textile Manufacturers Association and held numerous positions with the American Textile Manufacturers Institute.

Gwaltney is survived by his wife, the former Nancy Russell, two daughters, two sons, and nine grandchildren.

FOUR GENERATIONS AT TECH

Four generations of Jonathan Barge's (BSME 2000) family attended Georgia Tech. His father went to Tech in management, his grandfather attended for architecture, and his great grandfather, Otis Alvin Barge, graduated in 1912 with a degree in mechanical engineering. His great grandfather is shown from his 1912 Blueprint photo. If you want to learn more, contact jonathan.barge@hotmail.com.

The Capital Campaign

School Surpasses Goal!

The Woodruff School proudly announces that we have passed our goal and as of December 31st we have raised $34,605,978 from over 370 donors. "This has been an incredible year. The generosity that our alumni, friends and corporate partners have bestowed on us is amazing" said Ward Winer, Chair of the Woodruff School.

The major highlight of our development year happened last October when Mrs. J. Erskine Love, Jr. and the Love family decided to celebrate the 50th anniversary of J. Erskine Love, Jr.'s (BME 1949) graduation from Georgia Tech. To honor Love's 50th reunion they committed $5 million to name the J. Erskine Love Jr. Manufacturing Building in his memory (see the story on page 1).

Georgia Tech's overall campaign has been very successful. In Fall 1999 the Georgia Tech Foundation trustees voted to raise the goal from $500 to $600 million after reviewing recommendations proposed by President Wayne Clough and campaign chairman and former Phillips Petroleum chairman Pete Silas. This was the 3rd goal increase in the campaign. As of December 31, 2000 the Campaign had raised $711,973,834.

DONORS

This list includes donors who have designated gifts to the Woodruff School since the Capital Campaign (The Campaign for Georgia Tech) began on July 1, 1995.
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**February 2001**

12 Women in Discovery Program
15 Woodruff School Colloquium
22-25 Graduate Student Recruiting Weekend

March 2001
2 Marie Curie Exhibit closes
5-9 Spring Break
15 Woodruff School Colloquium
15-18 Graduate Student Recruiting Weekend
29 Outstanding Educator Lecture
29-4/1 Graduate Student Recruiting Weekend

April 2001
5 Spring Banquet
10 Woodruff Distinguished Lecture
11 Faculty/Staff Honors Luncheon
17 Student Honors Luncheon

May 2001
5 Commencement

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