Mr. Robert A. Lutz, Vice Chairman of the Chrysler Corporation, gave the 1998 Woodruff Distinguished Lecture on April 23, 1998. His talk was called: Lutz’s Laws: A Primer for the Business Side of Engineering. Some of these laws include: The customer is not always right, and the goal of business is not to make money.

Lutz told the overflow crowd in the Van Leer auditorium that he "pulled off a feat that many thought harder than landing a man on the moon. I helped, at Chrysler, to actually get engineers truly working together in teams and to begin thinking with the intuitive, non-quantitative right side of their brains just as much as with the highly-trained, very rational left side." He then told us, with the aid of slides, how and why Chrysler did it.

After Mr. Lutz finished his prepared remarks he spent more than an hour answering questions from a receptive audience. This was followed by a reception to honor Mr. Lutz under the big yellow tents in the MiRC courtyard. This was a wonderful opportunity for the members of the audience to talk to the speaker, and Mr. Lutz spent some time with the members of GT Motorsports (see a related story in this issue).

Before the lecture, Mr. Lutz had lunch with some Woodruff School undergraduate and graduate students, representatives from the Georgia Tech administration, and some School faculty. He spent a lot of time answering questions at a rather free-wheeling discussion about almost anything having to do with cars and the automotive industry. We finally had to end the lunch session so that Mr. Lutz could go on a tour of the Woodruff School and then to the pre-lecture reception for representatives of the Atlanta and the Georgia Tech communities to meet the distinguished lecturer.
Saunders earned his bachelor's degree at Georgia Tech in the Navy V12 program. On July 1, 1943, he was called to active duty in the Navy. He boarded a train to Atlanta and Georgia Tech to become an engineer. He said, "I hardly knew what engineering was, and certainly didn't know that there were many different kinds. When asked, I chose Mechanical Engineering because I had some vague thought about the maintenance of cars and trucks in the family rental business."

After graduation, he served in the Navy, which included duty at Bikini Atoll for the first post-war atom bomb test. After the Navy, he spent the next forty years building Saunders Systems, Inc. (Birmingham, Alabama) into the third largest truck-leasing company in the United States. The company is credited with giving birth to the car-leasing industry in 1916 by renting Model-T Fords for 16 cents a mile. Saunders Systems was sold to Ryder Systems of Miami in 1986.

Upon retirement, Mr. Saunders was involved in the development of Saunders, Inc., a company serving the trucking industry, which he sold in 1993, and began his second retirement. Today, he might often be found on the 80-foot trawler, Life Support, sailing to such places as Vancouver, British Columbia, Guatemala, Belize, and the Coco Islands.

Mr. Saunders served on the board of SouthTrust Bank and Energen Corporation. He was also the founding chairman of the Truck Rental and Leasing Association, past chairman of the American Truck Historical Association, and chairman of the United States Business and Industrial Council.

Mr. Saunders has been a generous contributor to Georgia Tech for more than 35 years; a member of the WWII Class Reunion Committee; and he was inducted into the Georgia Tech Engineering Hall of Fame in October 1997. See the accompanying article for the remarks that Mr. Saunders made at the Annual Spring Banquet.

A Message from the Chair
Ward O. Winer

As predicted in my last mega tech column, things are beginning to settle down to normalcy. Our programs for the semester calendar have been approved, and will be included in the Institute's new semester catalog. There is a lot of detail work to be done by faculty members to prepare for the delivery of the courses under the new calendar, but this will slowly evolve over the next few years. We will continue to gather assessment information from our students and alumni to help improve our programs. It will be interesting to see if there is any change in student reaction as we go from the quarter to the semester format.

We have been anticipating additional buildings for some time, and their construction is now underway. The Manufacturing Related Disciplines Complex Phase II building, which will be shared by the Woodruff School and the School of Materials Science and Engineering, is under construction. Occupancy is expected at the beginning of calendar year 2000. At that time, I believe the Woodruff School at Georgia Tech will have the most up-to-date and finest facilities of any mechanical engineering program in the country. In addition, the construction of the Bioengineering and Biosciences Building is well underway. This is important for Mechanical Engineering in that a number of our faculty will move to that building and improve their links with faculty from other schools interested in bioengineering.

You might be interested to hear that the student job market in mechanical engineering is probably the hottest that I have seen in the last 35 years. At our Student Banquet this year, I asked a top graduating senior where he was going to work. Much to my surprise, he said he hadn't obtained a job. He said there were so many jobs available that he hadn't bothered to look yet. He knew he could pick one up shortly after graduating (it was just three weeks before graduation). I have not seen such a level of confidence in seniors in a number of years. I also heard about one student who had 15 written job offers. John Hannabach of Georgia Tech Career Services told me that there were over 1200 company visits to Georgia Tech to recruit students this past academic year, and that on the order of 80 to 85 percent of those companies list mechanical engineers as one of the disciplines they wish to hire. This means there were far more visits to try to hire mechanical engineers than there were students receiving mechanical engineering degrees from Georgia Tech this year.

On a more personal note, Mario Goglia, who is still teaching part-time for us well into retirement, has been on the Georgia Tech payroll for 50 years this September. We have prepared a display about him and his career at Georgia Tech for the MRDC I lobbies, and we plan to have a reception honoring him on September 24, 1998. Many of you will remember him as a young and energetic faculty member. Well, he is still very energetic and well-received by the students. If you have any interesting memories of your interaction with Professor Goglia that you'd care to share with us, we would certainly appreciate receiving them (see the story on the back page of this issue).

In April, I hosted a display about Woodruff School research at an Association of American Universities exhibit on research
in support of national defense. It was interesting to explain some of our sophisticated research to congressional representatives and their staff. I was accompanied by Ph.D. candidate Buck Tanner and Research Engineers George McCall and Rick Cowan, who helped to prepare the display. We were hosted by Patty Bartlett, Georgia Tech's Washington Representative, who seemed to know all the visitors.

Finally, I am pleased to announce our new Director of Development for the Woodruff School, Caroline Gaines Wood. Many of you may know Caroline, who is from Mississippi, a Vanderbilt graduate, and was with the Georgia Tech Alumni Association for several years before joining the Woodruff School. She is an enthusiastic supporter of Georgia Tech in spite of her one handicap - she is married to a UGA graduate!

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**GRADUATE STUDENTS & INNOVATION**

*The Power of Innovation* was the theme of the 8th Annual Graduate Student Symposium held on May 14, 1998 in the Manufacturing Research Center on the Georgia Tech campus. By harnessing this power, businesses can gain a competitive edge. Firms must utilize their innovative power and seek out new ideas to thrive in today's information economy.

The symposium is organized and planned by graduate students and features technical presentations and poster summaries by students nearing the completion of their doctoral degrees. A five-minute presentation is followed by an extended poster session (about 45 minutes long), which gives attendees a quick review of current research and allows time for informal discussion. The symposium was held in abbreviated form this year (on one day instead of two) because of the extremely hectic schedule at the Institute and the short time to plan for the event. Four sessions of presentations and exhibits were held.

In addition to the Woodruff School, represented schools included the: Colleges of Computing, Sciences, and Engineering, and the Schools of Aeronautical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, Industrial and Systems Engineering, and Materials Science and Engineering.

Each attendee to the symposium received a résumé book, which includes an abstract from each presenter. Plans for next year's symposium are underway. In the interim, contact bill.wepfer@me.gatech.edu for more information about the graduate programs in the Woodruff School.

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**ASME EVENTS**

On Thursday, May 28, 1998 the Woodruff School and a couple of the Mechanical Engineering student organizations came together for the ASME's Annual Spring Picnic. About 300 students, faculty, and administration joined us on the patio by the MARC building for good food and fun. It was a great opportunity for everyone to come out and relax for a few minutes and enjoy the sun. This year several companies provided sponsorship, so shirts were printed. The shirts, which feature Buzz riding the Rambling Wreck, are still available for $4 at the ASME Office in MRDC 2108.

This past academic year, ASME participated in many activities besides the regular speaker meetings. The purpose of ASME is to provide a link between the classroom and the corporate world. This is accomplished by bringing in representatives from companies and taking plant tours. This year ASME also participated in National Engineer's Week, the Georgia Science Olympiad, and hosted the ASME Region XI Student Conference. The highlight of this year was working with the Georgia Science Olympiad. We developed and ran the Mystery Architecture event. Since this was a trial event, ASME was given free reign to develop and run it as we saw fit. Giorgos Hatzilias and Jim Bell created the project. A few weeks before the Olympiad, ASME held a Student Design Competition to test the project. It was very interesting to watch our peers come up with solutions to the problem. The young students at the Olympiad were very excited about the project and they came up with
some interesting ideas.

The following students are recognized for contributing their time to the ASME during the past academic year: Douglas Aleong, Tori Bailey, Cavelle Benjamin, Scott Bodem, Nathan Bouknight, Carleshia Broadnax, Jeff Coon, James Dunn, Joe Edell, Brad Geving, Mari Gravlee, Giorgos Hatzilias, Jeffrey Joni, Chris Keppeler, Judy Liaw, Necole Liowns, Noah McNeely, Joe Salamone, Curtis Sharif, Charles Sherer, Jason Vaia, Anthony Walker, and Monica White.

(Thanks to Judy Liaw of the ASME for providing the details of this column.)

**ANNUAL SPRING BANQUET IS A SUCCESS**

The Annual Spring Banquet was held on May 21, 1998 in the Gordy Room of the Wardlaw Center. This event is planned and organized by the Woodruff School of Mechanical Engineering Student Advisory Committee (WSSAC) and is sponsored by the Woodruff School. The members of the 1998 banquet committee were: Chris Welsh (WSSAC Chair), Jim Bell, Anijka Stone, and Konrad Wilder. Additional help was provided by: James Dorsey, Judy Liaw, Joseph Miller, Nia Simmons, and Raquelle Thigpen.

This dinner is an opportunity to recognize graduating seniors and to acknowledge those graduate students who have received fellowships and other recognitions during the past academic year. The banquet is also the time when the Woodruff School names its Annual Distinguished Alumnus (see the accompanying article on Harris Saunders, Jr.); that person attends the banquet and interacts with the students, serves as a role model by example of their career, and may pass on some good experiential advice during the acceptance of the award.

This year's winner, Mr. Harris Saunders, Jr. (BME 1945), spoke about his education at Georgia Tech during World War II. The education he received and the time he spent on campus was condensed, out of necessity, because of the war effort. Still, he received a terrific education at Tech and although he was never a practicing engineer, the knowledge that he gained from his classes in mechanical engineering was extremely valuable for his business. He said that it was important for students to follow three keys to success: work (hard in your education and apply it to your life/career), luck (you need some luck to be successful in what you do), and risk (you have to be willing to take some chances to be successful).

The entertainment for the evening was an impromptu design contest. A packet of materials was placed on each table: 20 rubber bands, 60 stirring straws, 5 drinking straws, 100 popsicle sticks, 14 golf (small) pencils, 8 one-inch bolts, 5 nuts, 4 nails, 4 shims, 10 feet of string, a roll of packing tape, and a 10 by 10 inch wooden board with 9 drilled holes. Each table was asked to build something that a person could stand on to survive a "catastrophe." The project, which was thoroughly enjoyed by all the participants, took approximately 45 minutes to complete (see the photo on the bottom right). The judging was done by the WSSAC officers; height (of the design) and weight (of a person) counted (see the photo on the top right). One representative from each table had to get on a scale with their design, which had to sustain their weight for 30 seconds. Seated at the winning table were: Professor Alan Larson, and students Douglas Aleong, Brad Geving, Rami Lokas, Saghin Munir, and Curtis Sharif.

After dinner, Dr. Raymond Vito, Associate Chair for Undergraduate Studies, recognized those individuals who keep the student organizations running for the whole School, and Dr. William Wepfer, Associate Chair for Graduate Studies, recognized those graduate students who received fellowships and other awards during the past academic year. Finally, the 1998 Academia Awards were announced.

These awards, given in good fun, are voted on by the students and given to faculty members. The awards are: Golden Pillow Award (professor most likely to put you to sleep); Frequent Flyer Award (professor always on a business trip); Slave Driver Award (professor who gives the most work); "It's Getting Deep" Award (professor who BS's the most); AAA Award (professor who gives the most help); Most Wanted Award (professor whose class fills up the quickest); Whistle Award (professor who ignores the end of class whistle); GQ Award (best dressed professor); Treehugger's Nightmare Award (professor with the most handouts); Liaison Award (best teaching assistant); Blue Parachute Award (professor with the most withdrawals); Purple Shaft Award (worst shaft of the year); Distinguished Professor Award (best all-around professor); and Hazardous Office Award (professor with the messiest office).
MRDC II CONSTRUCTION IS UNDERWAY

Do you remember the groundbreaking ceremony held in October 1997? Well, all the hurdles have been cleared and the ISyE parking lot was closed in early May 1998. Bids were opened on the rebidding of the project in April, and the contract was awarded to Beers Construction Company for $20,975,000, for a 540-day period from the date of the notice to proceed, which was given on May 19, 1998. The parking lot has been demolished (see the picture) and the construction area has been fenced. The building is scheduled to be occupied by winter 2000.

We will keep you apprised of the progress in each issue of mega tech, or, if you happen to be on campus in MRDC I, check out the display case on the 4th floor. You may view current pictures of the construction site on our web page at: http://www.me.gatech.edu; click on Facilities.

GT MOTORSPORTS TAKES 3RD PLACE IN PRESTIGIOUS DESIGN COMPETITION

The GT Motorsports team, which is comprised of students from several engineering majors, returned from this year's annual Formula SAE competition in Pontiac, Michigan, having raced a car they designed and fabricated in less than four quarters. One hundred eleven teams registered for the competition, and more than 90 teams showed up. Teams from the United States, Puerto Rico, Canada, Mexico, and the United Kingdom participated in the event.

The team's biggest achievement this year was a 3rd place finish in the design portion of the competition. They also won the Flowmaster Exhaust Technology award of $750 for the best exhaust system design. Because the team experienced trouble with the engine’s turbocharger and had a drivetrain oil leak, they did not finish with a top 20 score. The car, inoperative turbo and all, placed seventh in the autocross event.

While he was attending the competition, Mr. John Crossno, the father of team member, Adam Crossno, purchased a chassis dynamometer ($8500) for the team. The team has already met to lay out the design for next year's competition, which will be held in May 1999 at the Detroit Fairgrounds. Also, next year a Formula SAE competition will be held in the United Kingdom for the first time.

Twenty-one people went to the competition this year; Jimmie MacLean was the team leader. Upon their return to campus, the team reorganized and redivided responsibilities for the next competition: The business manager is Adam Crossno, the chief engineer is Brandon Taylor, the powertrain manager is Scott Lovett, and the suspension manager is Jeff Hipps.

It costs about $25,000 to design, analyze, build and test the car, and travel to the competition. Major sponsors, such as Ford, General Motors, Hoechst Celanese, Allied Signal, Cummins, and the Van Owen Group provide money, materials, and services. For more information about the GT Motorsports team, please contact Professor Ken Cunefare, the faculty advisor, at ken.cunefare@me.gatech.edu. Or call the GT Motorsports shop in the Coon Building at (404) 894-3222.
The Twenty-Sixth Annual North American Manufacturing Research Conference (NAMRC XXVI) convened on the Georgia Tech campus from May 19-22, 1998 to present the latest research results from organizations around the world in the field of manufacturing science and technology. NAMRC provides a forum for academic and industry researchers to exchange and discuss recently completed research or in-progress research in manufacturing technology and productivity.

Areas of research covered at the conference include: mechanics and technology of material removal processes; design, dynamics, control and accuracy of machine tools; mechanics and technology of material forming processes, including powder consolidation, casting, welding and polymer and composite materials processing; material behavior and tribology as related to manufacturing processes; computer-aided design and manufacturing, including robotics and automation; manufacturing systems, simulation and design, including concurrent engineering; and human factors of manufacturing processes.

Woodruff School Professors Thomas Kurfess and Steven Liang were co-chairs of the event. Dr. William C. (Bill) Kessler, Vice President - Enterprise Productivity - at Lockheed Martin Aeronautical Systems delivered the keynote address on "Flexible Manufacturing for the Future: A Defense Aircraft Perspective." The new state-of-the-art F-22 fighter "pushes the performance envelope, while at the same time, shrinking the cost requirement. This plane illustrates how well flexible manufacturing helps a company respond to the new, lean environment," Kessler explained.

Sponsors of the conference included Georgia Tech's Manufacturing Research Center and the George W. Woodruff School of Mechanical Engineering, Ford Motor Company, General Motors Research and Development Center, The Torrington Company, and Extrude Hone Corporation.

(Thanks to Pam Rountree of MARC for providing the information for this column.)

The Woodruff School's state-of-the-art Integrated Acoustics Laboratory (IAL) was dedicated on February 24, 1998 in the high-bay area of the Manufacturing Research Center. The program consisted of a welcome to MARC by Dr. Steven Danyluk, Director of MARC, greetings by Dr. Ward O. Winer, Chair of the Woodruff School, an appreciation to the sponsors by Georgia Tech Provost, Dr. Michael Thomas, and remarks by Mr. Robert Transou, Group Vice President-Manufacturing, Ford Automotive Operations and member of the Georgia Tech Advisory Board. Then Associate Professor Kenneth Cunefare told the audience about the anechoic chamber; this was followed by some demonstrations in the chamber by Woodruff School graduate students, Janeen Jones, David Moon, and Lance Willis.

The centerpiece of the lab is a 24' by 24' x 20' anechoic (echo-free) chamber. The chamber and its related instrumentation support research and education in the analysis, modeling, and testing of the production and control of sound from engineered objects, such as vehicle assemblies, panels, and motor housings.

The chamber was designed and built by Industrial Acoustics Company, and opened on January 1, 1998. The chamber creates a specific environment, but the measurements require instrumentation and data acquisition systems. The IAL's data acquisition backbone is an HP VXI system with 32 input channels, 16 output channels, and four arbitrary waveform output channels. Other components include a Polytec scanning laser vibrometer, two workstations, and a full suite of microphones, accelerometers, and related hardware.

Use of the IAL began in winter quarter 1998 with qualification testing of the chamber in ME 4055, the senior mechanical engineering lab. Future use includes focusing on test objects of interest to sponsoring organizations in ME 4055, short experiments in ME 3056, a junior-level lab class; and integration into ME 4760, ME 6763 and ME 8103, undergraduate and graduate classes that deal with noise control and acoustics and vibration instrumentation.

Future research projects might include: investigating the causes of noise variability between otherwise identical components and investigating the noise produced by electrical motors (for example, set motors) for the automotive industry; examining
noise sources and noise control options for personal computers; and evaluating the influence that protective clothing (that is, full radiation protection gear) has on the audibility of alarm systems.

Funds for this project were provided by the Ford Motor Company ($300,000 to help build and equip the anechoic chamber), the National Science Foundation ($440,000 in matching funds for the acquisition of the chamber and its instrumentation), and $140,000 in lottery funds from the Georgia Institute of Technology.

David Moon, graduate student; Sterling Skinner, Director of Instructional Labs., and Professors Chris Lynch and Ken Cunefare inside the anechoic chamber.

GEORGIA TECH LORRAINE (GTL) CEREMONY

Last February at a ceremony in Metz, France, the Woodruff School of Mechanical Engineering made official its interactions with ENSAM, the French Grande Ecole for Mechanical and Industrial Engineering. Georgia Tech was represented by President Wayne Clough, Dean of Engineering Jean-Lou Chameau (a graduate of ENSAM), and Woodruff School Chair Ward O. Winer. Also present were Roger Webb, Chair of the School of Electrical and Computer Engineering, Steve Danlyuk, Director of the Manufacturing Research Center, as well as some other Georgia Tech professors. ENSAM was represented by their president and the directors of the Paris and Metz campuses. The signing of the agreement took place in the post-modern Hall of the Council on the ENSAM campus at the Technopôle Metz 2000, just outside the city of Metz and down the street from the Georgia Tech Lorraine building. Afterwards, there was a tour of the new ENSAM buildings. Their campus opened last fall and is very spacious. ENSAM focuses on hands-on learning and manufacturing, and there is a lot of high-bay lab space for machine tools, metal forming presses, and testing equipment.

Back at GTL, a reception was held for the current GTL and ENSAM students. Coca-Cola was the main beverage, but it was served warm in the European tradition. They had to get on the Web to check the Georgia Tech basketball score for President Clough. Luckily they had beaten FSU, so the festivities continued. There was a tour of the laboratories and classrooms, and the Internet capabilities, which allow classes taught in Atlanta to be taken by students in Metz.

Downtown Metz, a short ride by car or bus, is a beautiful, historic city. It has a nice pedestrian shopping area and the beautiful St. Etienne Cathedral that has stained-glass windows by Marc Chagall. The medieval buildings are lit up at night. Metz is currently a three-hour train ride from Paris, but a rapid rail (TGV) is being built, which will cut the time to one hour.

Back in Atlanta, the Woodruff School's first year of participation in GTL is coming to a close. The first group of students will return to campus in fall quarter to finish the program. Dr. Bill Wepfer, Associate Chair for Graduate Studies, said that the School's participation in the GTL program helped in the recruitment of new graduate students. "In a number of cases," he said, "students decided to come to Georgia Tech because of the GTL program." For more information about GTL, view our web page at http://www.me.gatech.edu/me/gtl/GTL.html or contact mike.wileman@me.gatech.edu.

(With appreciation to Professor Jonathan Colton for providing some information about his trip to GTL.)

FACULTY NEWS & HONORS

Said Abdel-Khalik, Southern Nuclear Distinguished Professor, received the Outstanding Doctoral Thesis Advisor award at the 1998 Faculty/Staff Awards Luncheon. He was also elected to serve in the Academic Senate for the 1998-2000 term.

Scott Bair, Principal Research Engineer, received a grant for his research in tribology from the Jacob Wallenberg Foundation in Stockholm, Sweden. He will serve in the General Faculty Assembly for the 1998-1999 term.

Daniel Baldwin, Assistant Professor, and his wife, Kristen, became the parents of Christopher Glenn, born February 13, 1998.
Van Biesel was promoted to Research Engineer II; he works with the acoustics research group.

Bert Bras was promoted to Associate Professor and granted tenure.

Ye-Hwa Chen, Associate Professor, was recognized with a 10-year service award at the recent 1998 Faculty/Staff Honors Luncheon.

Prateen (Perry) Desai, Professor, will serve in the Academic Senate for the 1998-2001 term.

Show-Hwa Fong, Assistant Professor, gave birth to a daughter, Ariane, on April 14, 1998. She will return to campus in the fall.

Jerry Ginsberg, George W. Woodruff Chair and Professor of Mechanical Engineering, received the 1998 Archie Higdon Distinguished Educator Award from the Mechanics Division of the ASEE in recognition of his distinguished and outstanding contributions to the field of mechanics education.

Nolan Hertel was promoted to the rank of Professor. He also won (along with his co-authors) the 1997 Radiation Protection and Shielding Best Paper Award at the 1997 Winter American Nuclear Society Meeting in Albuquerque, New Mexico. Professor Hertel won the same award at the 1996 winter meeting for a paper on which he was the co-author.

David Ku was promoted to Regents' Professor. He was also elected to the Academic Senate for the 1998-1999 term to serve in the Academic Senate, and he received a Whitaker Special Opportunity Award to establish a certificate program in management for bioengineers.

Shreyes Melkote, Associate Professor, received the Best Paper Award at the NAMRC Conference in Atlanta, Georgia.

G. Paul Neitzel, Professor, had an illustration appear on the front cover of the January 1998 issue of Physics Today, the monthly publication of the American Institute of Physics.

Robert Nerem, Parker H. Petit Distinguished Chair for Engineering in Medicine and Institute Professor, received the Theo C. Pilkington Outstanding Educator Award of the ASEE/Biomedical Engineering Division and was elected a Fellow of the American Academy of Arts and Sciences. He was also inducted (in London) as a Fellow of the Institution of Mechanical Engineers, one of few Americans to hold this distinction.

Richard Neu, Assistant Professor, received the 1998 Outstanding New Mechanics Educator Award from the Mechanics Division of ASEE in recognition of his outstanding effort and achievement as a new mechanics educator.

Farzad Rahnema, Associate Professor, was granted tenure.

David Rosen was promoted to Associate Professor and granted tenure.

Nader Sadegh, Associate Professor, received a Georgia Tech 10-year service award at the 1998 Faculty/Staff Awards Luncheon.

Weston Stacey, Fuller E. Callaway Professor and Professor of Nuclear Engineering, received the 1998 Georgia Tech Sigma Xi Sustained Research Award.

William J. Wepfer, Professor, has been selected by the National Society of Women Engineers as the 1998 recipient of the Rodney D. Chipp Memorial Award. He also won the Graduate Student Senate Graduate Faculty Member of the Year Award for 1997-1998. This is the second year in a row that Professor Wepfer has received recognition for his outstanding effort on behalf of the graduate students in the Woodruff School and the Institute. Finally, he received the Outstanding Continuing Education Award at the 1998 Faculty/Staff Awards Luncheon.
Caroline Gaines Wood is the Woodruff School’s new Director of Development. Since she started in March 1998 she has spent some time meeting faculty and staff members and becoming familiar with the School. When asked about her reaction to her job, Caroline said, "Now that I am at the Woodruff School, I can see how the generous gifts of our alumni are put to work, and I am constantly reminded of the loyalty and dedication of GT alumni."

Caroline has been with Georgia Tech since 1991, most recently as Associate Director of Annual Giving for the GT Alumni Association. She started at Tech as a Rambler in Financial Planning and Services. After one year, she went to the Alumni Association in the Roll Call office, first as Phonathon Coordinator. Before coming to Tech, she received a B.A. in communications from Vanderbilt University in 1989, and worked for a year as a recruiter for Management Search International.

At the Alumni Association, Caroline directed the $1,000 to $10,000 level volunteers in solicitation, oversaw a 100% growth in the matching gifts program, and managed the 70-member volunteer class representative program. She also was responsible for event planning, which included the Presidents’ annual formal dinner to acknowledge $1,000 donors, the Phoenix Club ($10,000 to $20,000) dinner, and the Roll Call volunteer training program.

Caroline was born and raised in Cleveland, Mississippi. She would love to hear from you about your giving plans. Please call her at (404) 894-0762 or send an e-mail to caroline.wood@me.gatech.edu.

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**STAFF NEWS**

Martin Davisson, Systems Analyst III, received the Outstanding Achievement Award for Classified Employees for fall quarter 1997.

Norma Frank received a Georgia Tech 25-year service award at the 1998 Faculty/Staff Awards Luncheon.

Jefforey Murphy joined the Woodruff School as a Systems Analyst III.

Michael Murphy received the 1997 Woodruff School Outstanding Achievement Award for Classified Staff.

Claudine Nickens, Administrative Assistant II, received a Georgia Tech 10-year service award at the 1998 Faculty/Staff Honors Luncheon.

Chelcea Warren, Academic Assistant I, received the Winter Quarter 1998 Woodruff School Outstanding Achievement Award for Classified Employees.

Caroline Gaines Wood joined the Woodruff School as the new Director of Development.

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**THE WOODRUFF SCHOOL GOES TO WASHINGTON**

In the beginning of May, Ward O. Winer, Regents’ Professor and Chair of the Woodruff School, went to Washington, D.C. to represent Georgia Tech at the American Association of Universities Department of Defense (AAU DOD) Research Congressional Exhibition at the Cannon Office Building. Georgia Tech was one of about 25 universities represented. Five programs from the Woodruff School were highlighted in the display: The DOD MURI Center for Integrated Diagnostics (Ward O. Winer, Principal Investigator); the ONR CAVES Project (Peter Rogers and Gary Caille (GTRI), Principal Investigators); the Defense Logistics Agency Electronic Commerce Program (Robert Fulton, Principal Investigator); the Army Research Office Program on Materials Modeling for Deformation Processing and Impact Simulations (David McDowell, Principal Investigator); and the Novel High-Flux Heat Transfer Cells Program (Ari Glezer, Principal Investigator). These programs represent nearly ten million dollars a year in funding to the School.

Patty Bartlett, who represents Georgia Tech in Washington, D.C. handled the introductions and the logistics. She introduced everyone to Georgia Representative Saxby Chambliss, who spent some time at the booth. He was particularly interested in the electronic commerce project, because it involved Warner Robbins and was the subject of interest to a committee he was on. Staff members for Georgia Congressional Representatives and Senators stopped by to discuss the exhibit.

Richard Cowan (Woodruff School Research Engineer who is spending a year as an ASME Congressional Fellow) organized the display by long distance; George McCall, Research Engineer, attended, prepared the CAVES display and hauled the GTRI booth background frame; Gary Dilley prepared the material for the electronic commerce display; Professors Ari
Dr. Winer said, "The spirits were high for basic research and defense research, but then what would you expect; we were preaching to the choir. The event was a great experience and a big success." 

GBL

**VISIT THE NEW DISPLAY CASES IN MRDC**

The Woodruff School is pleased to announce that the display cases in the lobbies of MRDC have been installed. Two fourth floor cases, which will be devoted to the history of the Woodruff School, are in preparation and will open soon. The new displays are:

**2nd floor lobby:** ASME (American Society of Mechanical Engineers, GT Motorsports (Formula SAE Competition), Distinguished Alumnus (Jack M. Zeigler), and Pi Tau Sigma.

**3rd floor lobby:** The George W. Woodruff School of Mechanical Engineering (Events and Publications); The Centennial Olympic Games (The Olympic Torch); and Famous Alumnus (Bobby Jones, ME 1922).

**4th floor lobby:** MRDC II (Manufacturing Related Disciplines Complex, Phase II); Distinguished Professor (Mario J. Goglia); and Distinguished Engineer (James W. Brazel).

**TECH GETS SURVEYED**

Bob Harty, Executive Director of Institute Communications and Public Affairs, presented the findings of a survey of opinion leaders to the faculty of the Woodruff School at the School's Annual Faculty Retreat in April 1998 at the Evergreen Conference Center in Stone Mountain, Georgia. The survey was done by the firm of Wilcox Arlotto & Associates Inc., who queried Atlanta business leaders, influential executive branch research funding officials in Washington, D.C., leading recruiters of Georgia Tech undergraduate students, and selected deans at peer institutions (in architecture, business, computing, engineering, and science). The goal of the survey was "to identify expectations, perceptions and attitudes shared or unique to various groups of opinion leaders. Specifically, to seek to understand impressions regarding the Georgia Institute of Technology's products and services, competitive position, interaction with the opinion leaders, and strengths, weaknesses, opportunities, and threats."

Major findings include: Opinions about the reputation of Georgia Tech are split between the new image of Tech as a 'world class' academic and research center and the old image of Tech as an applied, practical industry-oriented engineering school. (Both schools of thought, however, reflected considerable improvement from a similar survey conducted eight years ago. In that survey, many people in the Washington, D.C. area did not feel qualified to talk about Georgia Tech, because they knew so little about it.) Other opinions include: Georgia Tech is a niche school with strengths in engineering and technology, undergraduate education, and applied research; it has broad-based strengths, but few cases of individual excellence; it must improve its ability to collaborate across disciplines, between departments, and externally; it must improve its strategic approach; its greatest strength and opportunity is Atlanta and the growth of the region. Other
findings are: There was a recognition of Tech's dramatic rise in the rankings, especially in engineering; that Atlanta and Georgia have a strong relationship with Georgia Tech and higher education; the Olympics were positive for GT and the region; President Clough has had a positive impact on GT and its image; and Georgia Tech is the "best practice" (benchmark) school in minority recruitment and fast turnaround for admissions.

The opinion leaders saw various strategic imperatives for higher education, including: Change is occurring in higher education - engineering schools are ahead of the curve but must create or improve their strategic focus. (Tech was seen as being in the vanguard of this type of change.) There is a need to create large centers of collaborative study and investigation versus individual focused efforts, and comprehensive strategies and tactics must be developed to respond to changing research sources. In addition, the definition of faculty and tenure is changing; new models for academia should be developed; and there is a growing emphasis on "care of the student."

If you are interested in learning more about this survey, contact Bob Harty by e-mail at bob.harty@vpea.gatech.edu.

Sean Bailey received a 1998 National Science Foundation Fellowship and a National Defense Science and Engineering Graduate Fellowship. He also received the Woodruff School Chair's Award, which recognizes outstanding scholarship and contributions to the School, especially to its programs and external representation.

Tori Bailey received a GEM Minority Student Fellowship.

Kevin Betts received a Henry Ford II Scholar Award. This prize is from a restricted endowment fund grant provided by the Ford Motor Company to the engineering student(s) with the best academic record at the end of the third year of undergraduate study.

Jim Weir Campbell II won the Outstanding Scholastic Achievement Award, Nuclear Engineering Program, School of Mechanical Engineering. This award recognizes a graduating senior who has achieved an exceptional scholastic record in the nuclear engineering program.

Rafael Cardenas received a GEM Minority Student Fellowship.

Sung II (Tony) Cha received the Pi Tau Sigma Outstanding Sophomore Award. This award is given to a sophomore student in mechanical engineering who has demonstrated outstanding scholarship and also service to the School and to student activities.

Scott Chesla won a Whitaker Graduate Student Award for a paper he submitted for presentation at the Biomedical Engineering Society Fall Annual Meeting in San Diego.

David Clark is this year's winner of the CETL/Dow Foundation Perseverance Award.

John Clayton received a 1998 National Science Foundation Fellowship.

James D. Cunningham won the George W. Woodruff School of Mechanical Engineering Outstanding Scholar Award, which recognizes a graduating senior who has achieved an exceptional scholastic record in the mechanical engineering program.

Bradford R. Czerwonky won the Pi Tau Sigma Outstanding Senior Award, awarded to a graduating senior who has demonstrated outstanding scholarship, service to the School, the Institute, and to student activities.

Matthew David Bauer received the Sigma Xi award for an outstanding master's thesis. (Professor David Rosen is his advisor.)

Ty Dawson received an honorable mention in the 1998 NSF fellowship competition.

Stacey Dixon is the recipient of the 1998 UNCF-Merck Graduate Science Research Dissertation Fellowship, and the Luther S. Long III Memorial Award in Engineering Mechanics, given to graduate student doing research in engineering mechanics who has excelled in academics, research, leadership, and service. The award honors the memory of Dr. Luther Long, a former Ph.D. student in ESM.

Chad Duty received an honorable mention in the 1998 NSF fellowship competition.

Dathan Erdahl received an honorable mention in the 1998 NSF fellowship competition.

Jeffrey M. Fowler won a Henry Ford II Scholar Award. This award is from a restricted endowment fund grant provided by the Ford Motor Company, made annually to the engineering student with the best academic record at the end of the
third year of undergraduate study.

**Samuel Graham** is an awardee of the 1998 Ford Foundation Doctoral Fellowship Program for Minorities.

**Ronald Grover** received a 1998 National Science Foundation Fellowship.

**Philip Harp** received a GEM Minority Student Fellowship

**Comas L. Haynes** has received the DEED Scholarship for the project, "Simulation of Tubular Solid Oxide Fuel Cell Behavior for Integration Into Gas Turbine Cycles."

**Jennifer C. Hsieh** received the Samuel P. Eschenbach Memorial Award in Mechanical Engineering, which is given by the family of Samuel P. Eschenbach (class of 1933) and is based on academic performance, leadership capabilities in the campus community, and promise as a mechanical engineer.

**Ozzie Hutchins** received an honorable mention in the 1998 NSF fellowship competition.

**Germina Ilas** won a best paper award at the American Nuclear Society Conference in Austin, Texas.

**Sundiata Jangha** received an honorable mention in the 1998 NSF fellowship competition.

**Lindsey Johnson** won a Graduate Teaching Assistant Award.

**Stephenie Kladakis** received the High Score on the Qualifying Exams Award.

**Arthur McClung** received a GEM Minority Student Fellowship.

**Michael Medaska** received a 1998 National Science Foundation Fellowship.

**Scott Mosher** won a best paper award at the American Nuclear Society Conference in Austin, Texas.

**Tom Sanderson** received the Sigma Xi award for an outstanding doctoral thesis. (Professor Charles Ume is his advisor.)

**Laura Scheafer** was selected as one of the ASME Graduate Teaching Fellows for the 1998-1999 academic year. The fellowship is intended to encourage high-quality graduate students, especially women, minorities, and the disabled, to pursue an academic career.

**Curtis Sharif** received a GEM Minority Student Fellowship

**Davin Swanson** received an honorable mention in the 1998 NSF fellowship competition.

**Jason Tsai** received a 1998 National Science Foundation Fellowship.

**Clifton T. Wall** won the Richard K. Whitehead Jr. Memorial Award. This award is given to an outstanding mechanical engineering senior who exemplifies high standards of scholarship and service.

**Nicole Zirkelback** received the Beginning Engineers Fellowship Program Award from the International Gas Turbine Institute of ASME. She also received an award from Texas A&M University by the Association of Former Students for Distinguished Graduate Student Masters' Research Award for 1998.

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**NSF FELLOWSHIP SCORECARD**

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**STUDENT ATHLETE PROFILE:**

**SCOTT SHIPLEY**

Scott Shipley took his finals during the first week in June - one week before all the other mechanical engineering majors at Georgia Tech, so that he could participate in the World Cup Races in whitewater kayaking. Scott has a good reason for doing this as he is the defending world champion in this rigorous sport.

As soon as his exams were over, Scott traveled to Slovakia, Slovenia, and Germany for the first three World Cup races; later, he will return to the United States for a race in Wausau, Wisconsin, and then take off for Europe for the finals in Barcelona, Spain. The winner of the World Cup will be the best three scores out of five races, with all entrants required to race in the final.
In 1995-1996 Scott linked up with the Dagger Canoe Company, a kayak builder in Tennessee, to build a boat. Although Scott's results improved he thought the boat was still a bit rough and that he could improve it by using a more analytical approach to design methodology and greater use of computer design. He couldn't use the new boat for the first three races of the 1997 World Cup because he was doing the kayak design project for a senior design class in materials engineering and since the project wasn't due the boat could not be finished. So, for the first three races of the 1997 World Cup Scott used his "old" boat and was in 6th place at the end of those races. He used the newly designed kayak for the last two races and won. If you want to learn more about Scott's new kayak design, see the article in the June 1998 issue of Popular Mechanics (pp. 31-32) titled, "Computer-Aided Kayaking," or contact Scott by e-mail at sshipley@compuserve.com.

Although Scott is a senior in mechanical engineering, he will not return to Georgia Tech for fall quarter 1998. He is taking a leave from school to train for the 2000 Olympic Games in Melbourne, Australia. This is the third leave he has taken from school to train for the Olympics, having participated in the Barcelona and Atlanta games. Scott began his undergraduate career in 1989 at Western Washington University. He left to train for the Barcelona games and then came to Georgia Tech in 1993. Each training period requires a two-year commitment.

Scott will return to campus in 2000, after the Melbourne games, and he expects to graduate in December 2000. He would like to work for a composites company dealing with what he knows - sporting goods - preferably on the West Coast.

Scott has been kayaking for 21 years, since he was six years old. His dad, who was a member of the 1965 national team, was his inspiration and motivation. Between school and kayaking, Scott has little time to pursue other interests. But, given his success, there is little need.

STUDENT PROFILE:

OMAR TERRASA

Omar Terrasa had an intense interest in aviation from the time he was a little boy growing up in Puerto Rico. Although he was only able to fly model airplanes, he became quite good at his hobby. Over the years he built a number of airplanes, some to scale, and won a number of contests.

When it came time to apply to college, Omar was sure he wanted to study aeronautical engineering, which meant going to school in the United States. He came to Georgia Tech and decided to study mechanical engineering. At Tech he wanted to do something with his spare time - aviation came to the rescue. Because an airplane was too big to keep in a dorm room Omar decided to try remote control helicopters, something he had not done before.

He practiced whenever he could, but out of necessity, he did most of his flying on the weekends. In summer 1997 he went to the Academy of Model Aeronautics U.S. Nationals in Muncie, Indiana. This is a national contest in every different aspect of model aviation, and it draws people from all over the United States and Canada. Omar won first place in the Helicopter Class I. In fall quarter 1997 he went to the South-Eastern Helicopter Championships in Atlanta and again took first place.

Omar learned a great deal working with models: an excellent feel for working with his hands, how to build mechanical systems, and about composite materials. He used many ideas from his models in his classes, such as ME 3110 (Creative Decisions and Design) and ME 4182 (Mechanical Design Engineering). For ME 4041 (Interactive Computer Graphics and Computer-Aided Design), he and his partner modeled the mechanics of one of his model helicopters.

At Tech, Omar was finally able to fulfill his dream of becoming a pilot. He joined the Yellow Jackets Flying Club and began taking flying lessons. He received his pilot's certificate in summer 1997; since then Omar has obtained Complex and High Performance ratings.

Omar graduated from Tech (with honors) in March 1998 and returned to San Juan, Puerto Rico to join the family business, where he is receiving management training so he will be able to take charge of the company's maintenance program. This includes a fleet of more than 25 trucks and a large amount of heavy equipment. He will also receive the training necessary to work on those engines. You may contact Omar at omarcheli@bigfoot.com.
STUDENTS WIN JUDGES CHOICE

Four mechanical engineering students won the Judges Choice prize at the recent design contest at the Roosevelt Institute for Rehabilitation in Warm Springs, Georgia. Robbie Lewis, Brandon Morgan, Dave Prichard, and H. B. Thomas built their design for ME 4582 (Bioengineering Design II, Professor Raymond Vito.) They designed a fishing pole that can be hooked onto a plastic base worn on the waist or the arm to help stroke victims or amputees.

Other class projects designed for rehabilitation and demonstrated at Warm Springs were: a wheelchair rifle mount, a device for operating an ATM from a wheelchair; a wheelchair attachment for an ATV, and an inexpensive table for art therapy. Pictured with their projects are Woodruff School students (left to right): Rob Jackson, Alex Chung, Professor Ray Vito, H. B. Thomas, Robbie Lewis, Dave Prichard, and Brandon Morgan.

ALUMNI NEWS

Linda Andruske (BME 1986) has been appointed to the 1998-1999 American Institute of Aeronautics and Astronautics' National Space Systems Technical Committee. She was formerly employed with NASA working with Space Shuttle cryogenic systems, and currently performs engine-modeling for an aircraft flight simulation company.

Jim Chambers (BME 1990, Ph.D. ME 1994) was promoted to Research Scientist and Research Assistant Professor of Mechanical Engineering at the University of Mississippi.

Greg Connors (BME 1979) has accepted a position as Southeast Regional Sales Manager with Tecogen, Inc., a manufacturer of engine-drive chillers. Tecogen is a subsidiary of Thermo Electron, Inc., headquartered in Waltham, Massachusetts. Greg resides in Doraville, Georgia with his wife, Debbie, and children: Matthew, Andrew, and Lisa.

E. Greg Fulkerson (BME 1976) was recently promoted to Director of Product Engineering at U.S. Precision Lens. He resides in Cincinnati, Ohio.

Loren R. Kallenbach (MSME 1993) is working on the Process Improvement Engineering staff of Hallmark Cards, Lawrence Production Facility. He lives in Lawrence (Kansas) with his wife, Laurie, and their son, Joshua Robert Ray, who was born on November 20, 1997.

Donald E. Kinser (BME 1983, PE) was nominated president-elect of the Georgia Consulting Engineers Council, an industry association representing over 250 Georgia engineering firms and over 7,500 Georgia engineers. Don is the President of EDI, Ltd. Consulting Engineers in Atlanta. He can be reached at http://www.ediltd.com.

Michael Lorne (MSHP 1993) was granted certification by the American Board of Health Physics. He received most of his technical training via video classes offered by the Continuing Education Program. Lorne attended only one class on the GT campus. He said, "the classes gave me the training I needed to pass the certification exams. I live on the North Shore of Oahu at Sunset Beach, approximately 5,500 miles from the GT campus. Video education does work! Thank you Georgia Tech.”

Steve Owens (BME 1980) has been promoted to the position of chief mechanical engineer in the Southwire Company (Carrollton, Georgia) corporate engineering department. He will direct all corporate mechanical engineering projects in the department, which serves as a central technical resource for Southwire's 19 plants worldwide.

Jay Pistana (MSME 1992) was transferred and promoted from the GM Noise &Vibration Lab to the GM Truck Group as Senior Technical Integration Engineer in vibrations and structure. He joined GM in 1983 as a co-op student and now works at the GM Proving Group. He and his wife, Denise, are the proud parents of a son, Andrew, born in the fall of 1996.

Sean F. Wu (Ph.D. 1987) received a Career Development Chair from Wayne State University, where he is an associate professor of mechanical engineering. His research focuses on acoustics and noise control.
Uncle Si, for those of you who don't know, is Professor John Saylor Coon, the first head of the Department of Mechanical Engineering at the Georgia School of Technology, as Georgia Tech was then known. He was head of Mechanical Engineering from 1889 until his retirement in 1923. These notes were taken by R. Roddey Garrison (BME 1923) while in Uncle Si's ME class in 1923. A sampling of the wisdom of Uncle Si:

"This is a room for the discussion of scientific knowledge and truth. When you enter that door you will please leave all myth, superstition, doubt, tradition and opinions on the outside ... we will have no guessing here. Either you know or you don't.

Correct deportment is more essential than ability. Unless you are well-behaved because you want to be, you will slip up on the job. If a man breaks down his own ideals of honor, he is gone.

Engineering is common sense first, and mathematics, next.

Knowledge comes from reflection. Learning comes from books.

What happens to the engineer if he makes a mistake in his delving-in the realm of spirit and truth? What happens to a surgeon? An artist? He can conceal his mistake! When an engineering structure fails, a man's head should be cut off.

Yesterday, Oscar Davis stopped me and asked how this year's senior class was getting along, and I told him you were the deadest I had ever attempted to teach. He said that is what I told his class, last year.

I used to love to walk along the highways and into the country - can't do that any more. There are too many wild men driving these stink wagons. I walk along the railroad tracks now. If killed, I want to be killed by a real man - a locomotive engineer - he won't try to run over you.

Boys, I have ordered a Ford. Listen! If it interferes with my ethics, I have a good sledge. I'm going to buy me a Ford, to take me from where I am to where I ain't."
ALUMNI PROFILE:

THOMAS E. NOONAN

How Thomas E. Noonan (BME 1983) came to be the president and CEO of Internet Security Systems, Inc. (ISS) of Atlanta, Georgia, the pioneer and world's leading supplier of network security assessment and monitoring software, is a good example of being at the right place at the right time. But before we get to that step we have to back up a bit.

Tom, who was born and raised in Atlanta, was going to attend Yale University as a biology/premed major. He went backpacking in Europe the summer before entering Yale, became homesick, and decided to go to Georgia Tech. He was uncomfortable being a biology major at an engineering school, so he enrolled in mechanical engineering because it is the broadest engineering program.

At Tech, he was "forever changed" by ME 4445 (Automatic Control Theory). Although he says he never really completely figured out the class, he became intrigued with the use of computer and software technology to apply automatic control theory to control processes.

After graduation he worked for the Allen-Bradley Company, a major computer integrated manufacturing company. Noonan was convinced that the proper application of computers to automated production processes could dramatically improve productivity, quality, and competitiveness. In Boston, he went to Harvard for a graduate business degree and started two technology companies that apply the automatic control theory: Leapfrog Technologies and Actuation Electronics.

Noonan returned to Atlanta in 1990 to work for Dun and Bradstreet Software, where he held a number of high-level sales and marketing positions, including Vice President of Worldwide Marketing. But he still had a keen interest to join a start-up technology company and believed that the Internet would be an enabler of global commerce. So in 1994 he joined TSI International (Wilton, Conn.), an electronic commerce company.

One day while researching electronic commerce on the web, he met Christopher Klaus, a Georgia Tech student who was posting security-related ideas to electronic commerce and security newsgroups. Chris had developed shareware software that helped security administrators, and Noonan was excited about the ability to develop a software application which would automatically control security across a network. He quit his job at TSI and joined ISS.

Three years later ISS employs 300 people. About 20% of the company is from Georgia Tech, including Patrick Taylor (BME 1986). And what Noonan learned at Tech in computer integrated manufacturing and industrial automation is now leveraged to Internet commerce.

While at Tech he was a member of Alpha Tau Omega Fraternity and since that time he has given to Roll Call. He is married to Kimbrough Pace Noonan (IM 1983), a flight attendant with Delta Airlines. They reside in Atlanta with their three children.

Mr. Noonan is a member of the Technology Executive Roundtable, Young President's Organization, GT College of Computing Advisory Board, and is an active participant in numerous professional societies and local technology and software organizations. You may contact him by e-mail at tnoonan@iss.net.
The Woodruff School will celebrate Professor Mario J. Goglia's 50th anniversary of the signing of his contract with Georgia Tech by honoring him with a luncheon on Thursday, September 24, 1998 at 12:30 p.m. in the Griffin Ballroom of the Alumni-Faculty House. To prepare for the event, we need to hear from you. Send us anecdotes, remembrances, and tributes about Professor Goglia. You may send your remarks by letter to the Woodruff School of Mechanical Engineering, Goglia Celebration, 801 Ferst Drive NW, Georgia Institute of Technology, Atlanta, GA 30332-0405. Or, send your remarks by fax to (404) 894-1658 or in an e-mail to melody.foster@me.gatech.edu. If you would like more information about the celebration, contact Melody or Sherron at (404) 894-3200.

A Little Bit About Professor Goglia

In June 1998, Regents' Professor Emeritus and life-long educator, Mario J. Goglia celebrates the 50th anniversary of the signing of his first contract to teach at Georgia Tech. He came to campus in September 1948 to become a professor of mechanical engineering.

Over the years, he has taught thermodynamics, fluid flow, automatic controls, heat transfer, and other mechanical engineering undergraduate and graduate courses. He has always been regarded by students as an outstanding educator. Although he retired from full-time teaching and research in 1981, he still teaches courses in the Woodruff School, usually thermodynamics.

Professor Goglia received a B.S. degree in 1937 and an M.S. degree in 1941, both in mechanical engineering, from the Stevens Institute of Technology. In 1948 he graduated from Purdue University with a Ph.D. and came directly to Georgia Tech to join the faculty. He was born and raised in Hoboken, New Jersey, not far from where Frank Sinatra lived.